Robinson+Cole

KENNETH C. BALDWIN

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

Also admitted in Massachusetts
and New York

February 10, 2022

Via Electronic Mail

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

Re: **Notice of Exempt Modification – Facility Modification**
46 Meadow Road, Clinton, Connecticut

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains an existing wireless telecommunications facility at the above-referenced property address (the "Property"). The facility consists of antennas and remote radio heads attached to a tower and associated equipment on the ground near the base of the tower. The tower was approved by the Town of Clinton ("Town") in November of 1999. Cellco's real estate consultant reached out to the Town in an effort to obtain a copy of the original tower approval, was provided access to the Town's digital permit data base but was unable to locate a copy of the Town's approval. Cellco's shared use of the tower was approved by the Siting Council ("Council") in July of 2001 (TS-VER-027-010615). A copy of the Council's TS-VER-027-010615 approval is included in Attachment 1.

Cellco now intends to modify its facility by removing six (6) existing antennas and installing three (3) new Samsung MT6407-77A antennas and six (6) new MX06FRO660-03 antennas on its existing antenna mounts. Cellco also intends to replace six (6) remote radio heads ("RRHs") with six (6) new RRHs behind its antennas. A set of project plans showing Cellco's proposed facility modifications and the specifications for Cellco's new antennas and RRHs are included in Attachment 2.

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

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

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's new antennas will be installed on its existing antenna mounts.

2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.

3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

4. The installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative 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 mounts, with certain modifications, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

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

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

Sincerely,

Kenneth C. Baldwin

Enclosures
Copy to:
Karl Kilduff, Clinton Town Manager
Kathleen King, Zoning Enforcement Officer
Nichols Auto Parts Inc., Property Owner
Alex Tyurin, Verizon Wireless

ATTACHMENT 1

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

July 13, 2001

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

RE: **TS-VER-027-010615** - Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 46 Meadow Road, Clinton, Connecticut.

Dear Ms. Carter:

At a public meeting held July 11, 2001, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

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

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

The proposed shared use is to be implemented as specified in your letter dated June 14, 2001.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/RKE/laf

c: Honorable James M. Mccusker, Jr., First Selectman, Town of Clinton
Thomas Lane, Zoning Enforcement Officer, Town of Clinton
Esther McNany, SBA, Inc.
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene, & MacRae

ATTACHMENT 2

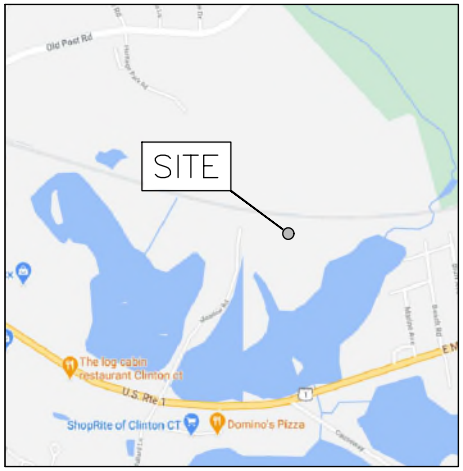
verizon

WIRELESS COMMUNICATIONS FACILITY

CLINTON S CT
46 MEADOW RD
CLINTON, CT 06413

PROJECT:
L-SUB6-CARRIER ADD

LOCATION MAP



SUPPORTING DOCUMENTS

RADIO FREQUENCY (RF) DESIGN: **06/08/21**
MOUNT MAPPING REPORT: **02/09/21 (BY HUDSON DESIGN GROUP, LLC)**
MOUNT ANALYSIS: **05/20/21 (BY MASER CONSULTING)**
STRUCTURAL ANALYSIS: **(SELF SUPPORT TOWER): 11/05/21 (BY SBA)**
MOUNT MODIFICATION DRAWINGS: **05/21/21 (BY MASER CONSULTING)**

PROJECT INFORMATION

SITE NAME:	CLINTON S CT
LOCATION CODE:	469265
SITE ADDRESS:	46 MEADOW RD CLINTON, CT 06413
LATITUDE:	41° 16' 30.74"N
LONGITUDE:	72° 29' 51.76"W

DRAWING INDEX

NO.	DESCRIPTION
T-1	TITLE SHEET
A-1	TOWER ELEVATION & COMPOUND PLAN
A-2	ANTENNA CONFIGURATION & SCOPE OF WORK
A-3	EQUIPMENT SPECIFICATIONS, BILL OF MATERIALS & PLUMBING DIAGRAM
SN-1	STRUCTURAL NOTES

RFDS PROJECT SCOPE

RFDS SOW: 850A 5GNR/ L-SUB6 CARRIER ADDS, SAMSUNG DUAL BAND RRH SWAP, ANTENNA CHANGE

1 - RETAIN 700/ AWS/ PCS CARRIERS AND ADD 850A 5GNR/ L-SUB6 CARRIERS
2 - RETAIN (6) CDMA ANTENNAS IN POSITIONS 1 & 4.
3 - REMOVE AND REPLACE (3) EXISTING ANTENNAS IN POSITION 2 WITH (3) NEW SAMSUNG MT6407-77A ALL-IN-ONE ANTENNA/RRHS.
4 - REMOVE AND REPLACE (3) EXISTING ANTENNAS IN POSITION 3 WITH (6) NEW JMA MX06FRO66-03 ANTENNAS ON NEW 91900314-02 DUAL MOUNTS
5 - REPLACE (9) EXISTING NOKIA RRHS FROM TOWER WITH (3) NEW SAMSUNG B5/B13-BR04C (RFV01U-D2A) AND (3) NEW SAMSUNG B2/B66A RRH-BR049 (RFV01U-D1A)
6 - REPLACE (2) EXISTING NON-LI HYBRIFLEX WITH (2) 6X12 HYBRIFLEX LI
7 - PLUMB 700/850/PCS/AWS/L-SUB6 ACCORDING TO PLUMBING DIAGRAM
8 - CAP AND WEATHERPROOF UNUSED PORTS/CONNECTORS

SUMMARY:

- ADDING 9, REMOVING 6, RETAINING 6 (FINAL ANTENNA COUNT: 15)
- ADDING 9 RRU'S, REMOVING 9, RETAINING 0 (FINAL RRU COUNT: 9)

BUILDING CODES

APPLICABLE BUILDING CODES: SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

- BUILDING CODE: IBC 2015 & CONNECTICUT STATE BUILDING CODE 2018
- ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE
- LIGHTENING CODE: NFPA 70-2017
- TELECOMMUNICATIONS INDUSTRY ASSOCIATION ANSI (TIA) 222-H, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS
verizon
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

CENTERLINE COMMUNICATIONS
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

REVISIONS		
1	01/05/22	ISSUED FOR CONSTRUCTION
0	03/26/21	ISSUED FOR REVIEW
NO.	DATE	DESCRIPTION

DESIGNED BY:	APPROVED BY:
KL	DC

STATE OF CONNECTICUT
DEREK J. CREASER
No. 28551
LICENSED
PROFESSIONAL ENGINEER

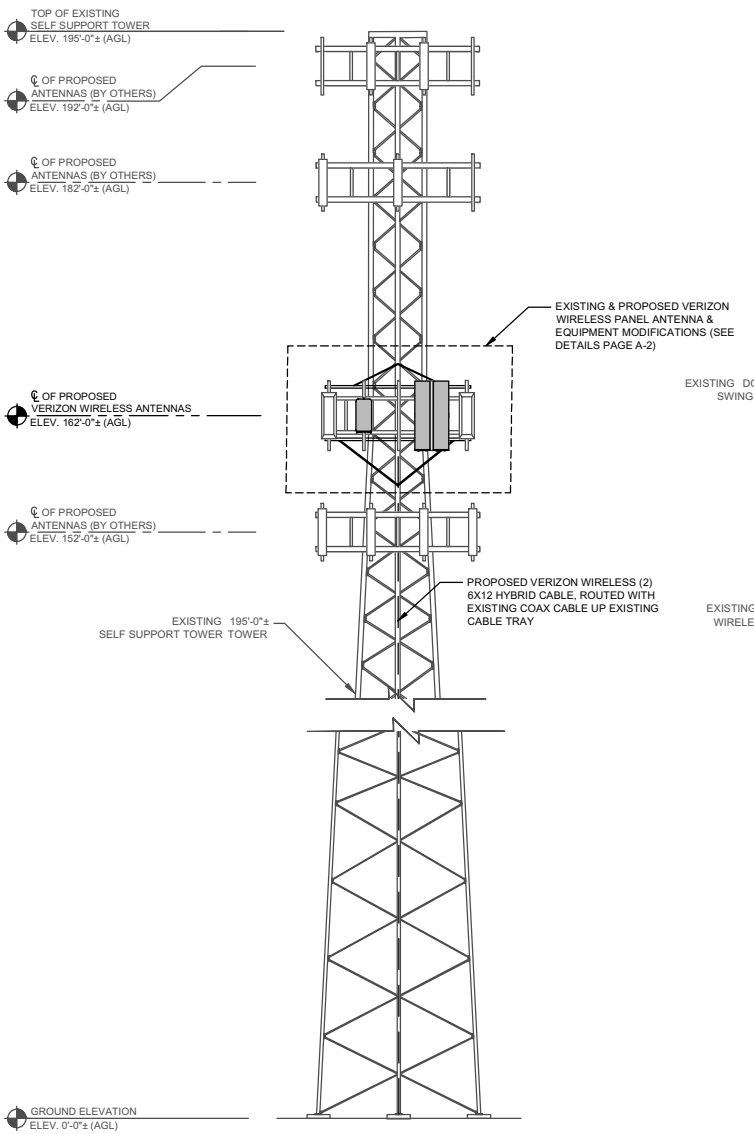
SITE NAME:
CLINTON S CT

SITE ADDRESS:
46 MEADOW RD
CLINTON, CT 06413
NEW HAVEN

LOCATION CODE:
469265

SHEET TITLE:
TITLE SHEET

SHEET #:	REVISION:
T-1	1



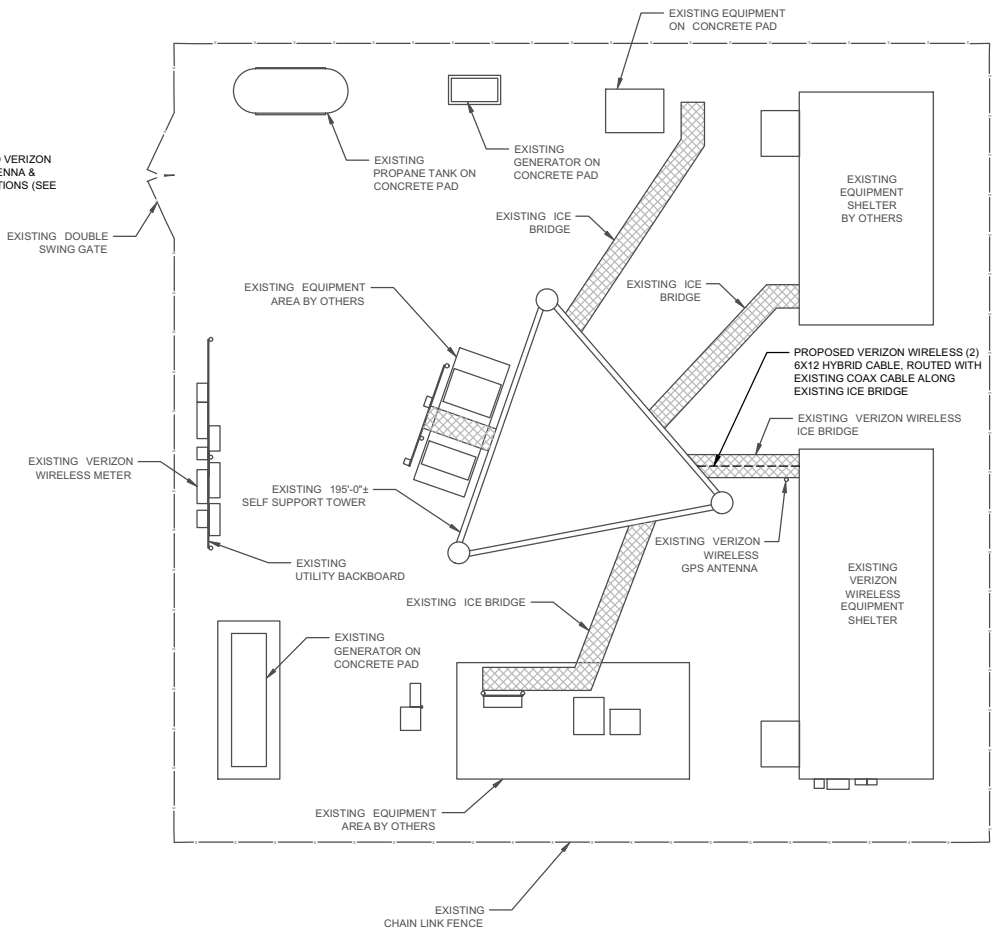
1 A-1 TOWER ELEVATION

SCALE: 3/16" = 1'-0" (22"X34")
3/32" = 1'-0" (11"X17")

GRAPHIC SCALE

2'-0" 0 2'-0" 5'-4" 10'-8" 21'-4"

(IN FEET)



NORTH

2 A-1 COMPOUND PLAN

SCALE: 3/16" = 1'-0" (22"X34")
3/32" = 1'-0" (11"X17")

GRAPHIC SCALE

2'-0" 0 2'-0" 5'-4" 10'-8" 21'-4"

(IN FEET)

CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS

verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

CENTERLINE COMMUNICATIONS

750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

REVISIONS		
1	01/05/22	ISSUED FOR CONSTRUCTION
0	03/26/21	ISSUED FOR REVIEW
NO.	DATE	DESCRIPTION

DESIGNED BY:	APPROVED BY:
KL	DC

STATE OF CONNECTICUT
DEREK J. CREASER
No. 28551
LICENSED
PROFESSIONAL ENGINEER

SITE NAME:
CLINTON S CT

SITE ADDRESS:
46 MEADOW RD
CLINTON, CT 06413
NEW HAVEN

LOCATION CODE:
469265

SHEET TITLE:
PARTIAL ROOF PLAN & SOUTH ELEVATION

SHEET #: A-1 REVISION: 1

NOTES

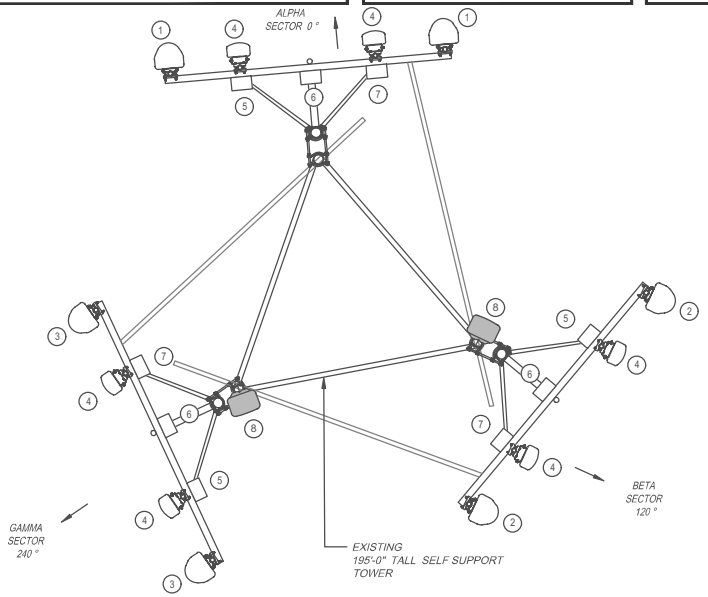
1. IF SHOWN, ANTENNA SPACING DIMENSIONS ARE TO THE CENTER OF THE EXIST. ANTENNA AND PROP. ANTENNA FACE.
2. REFER TO THE FINAL RFDS PROVIDED BY VERIZON FOR THE LATEST INFORMATION REGARDING EQUIPMENT MODELS, REQUIRED CABLING & DOWN-TILT INFORMATION.
3. REFER TO THE ASSEMBLY DRAWING AND MOUNT ANALYSIS BY MASER CONSULTING FOR ALL REQUIRED EQUIPMENT MODIFICATION INFORMATION.

GENERAL ABBREVIATION LIST

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

SCOPE OF WORK (ALL) SECTORS

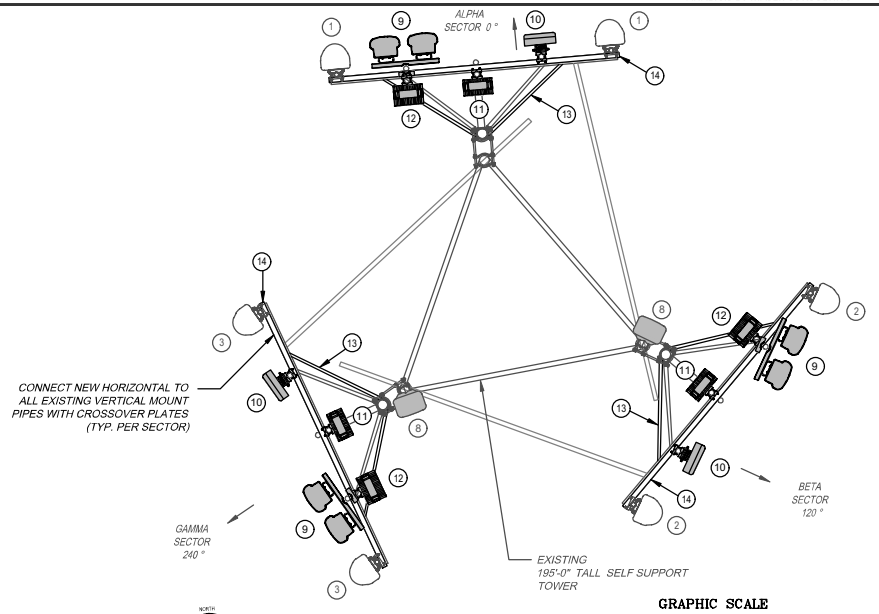
1. EXIST. ANTENNA (TO REMAIN) MODEL: ANTEL LPA-80063-6CF 2
2. EXIST. ANTENNA (TO REMAIN) MODEL: ANTEL LPA-80063-4CF-EDIN-6
3. EXIST. ANTENNA (TO REMAIN) MODEL: ANTEL LPA-80063-4CF-EDIN-4
4. EXIST. ANTENNA (TO BE REPLACED) MODEL: ANDREW SBNHH-1D65B
5. EXIST. RRH (TO BE REPLACED) MODEL: NOKIA UHBA B13 RRH 4x30
6. EXIST. RRH (TO BE REPLACED) MODEL: NOKIA UHFA B25 RRH 4x30
7. EXIST. RRH (TO BE REPLACED) MODEL: NOKIA UHIC B4 RRH 2x60-4R
8. EXIST. OVP BOX (TO REMAIN) MODEL: RAYCAP RRFDC-3315-PF-48
9. NEW ANTENNA MOUNTED VIA NEW DUAL-MOUNT BRACKETS (JMA 91900314-02) MODEL: JMA MX06FRO660-03
10. NEW ANTENNA MODEL: SAMSUNG MT6407-77A MOUNTED ON EXIST. PIPE MAST
11. NEW DUAL BAND RRH MODEL: SAMSUNG B2/B66A RRH-BR049 (RFV01U-D1A)
12. NEW DUAL BAND RRH MODEL: SAMSUNG B5/B13 RRH-BR04C (RFV01U-D2A)
13. PROPOSED V-BRACING KIT (TYP. OF 2 PER SECTOR) PART # VZWSMART-SFK3 REFER TO THE ASSEMBLING DRAWING AND MOUNT ANALYSIS BY MASER CONSULTING
14. PROPOSED 150" LONG, P2.5 STD FACE HORIZONTAL PIPE (TYP. OF 2 PER SECTOR) REFER TO ASSEMBLY DRAWING AND MOUNT ANALYSIS BY MASER CONSULTING



1 A-2 EXISTING ANTENNA PLAN

SCALE: 3/8" = 1'-0" (22"X34")
3/16" = 1'-0" (11"X17")

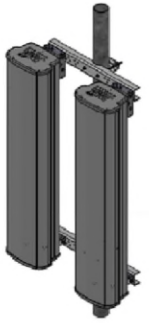
GRAPHIC SCALE
2'-8" 0 1'-4" 2'-8" 5'-4" 10'-8"
(IN FEET)



2 A-2 PROPOSED ANTENNA PLAN

SCALE: 3/8" = 1'-0" (22"X34")
3/16" = 1'-0" (11"X17")

GRAPHIC SCALE
2'-8" 0 1'-4" 2'-8" 5'-4" 10'-8"
(IN FEET)



3 A-2 DUAL ANTENNA BRACKET DETAIL

N.T.S.

CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS

verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

CENTERLINE COMMUNICATIONS

750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

REVISIONS		
1	01/05/22	ISSUED FOR CONSTRUCTION
0	03/26/21	ISSUED FOR REVIEW
NO.	DATE	DESCRIPTION

DESIGNED BY:	APPROVED BY:
KL	DC

STATE OF CONNECTICUT
DEREK J. CREASER
NO. 28551
LICENSED PROFESSIONAL ENGINEER

SITE NAME:
CLINTON S CT

SITE ADDRESS:
46 MEADOW RD
CLINTON, CT 06413
NEW HAVEN

LOCATION CODE:
469265

SHEET TITLE:
ANTENNA CONFIGURATION & SCOPE OF WORK

SHEET #: A-2 REVISION: 1

BILL OF MATERIALS

ITEM	DESCRIPTION	QTY.	LENGTH	COMMENTS
1	L-SUB6 ANTENNA	3	-	(SAMSUNG MT6407-77A) MOUNTED TO EXISTING ANTENNA PIPE
2	LTE 700/850/PCS/AWS ANTENNA	6	-	(JMA MX06FRO660-03) MOUNTED TO EXIST. PIPE MAST VIA NEW DUAL MOUNT BRACKETS (91900314-02)
3	1x2 LI HYBRID CABLE	3	15'	ROUTE FROM NEW UPPER OVP TO SUB 6 ANTENNA
4	1/2" JUMPER CABLE	36	10'	ROUTE FROM NEW RRH TO ANTENNA
5	LTE 700/850 RRH	3	-	(SAMSUNG B5/B13 RRH-BR04C (RFV01U-D2A) MOUNTED TO EXISTING FRAME
6	LTE PCS/AWS RRH	3	-	(SAMSUNG B2/B66A RRH-BR049 (RFV01U-D1A) MOUNTED TO EXISTING FRAME
7	RRH CABLE(S)	6	15'	PROPRIETARY POWER & FIBER CABLES
8	6x12 LI HYBRID CABLE	2	195'	ROUTE FROM LOWER OVP RACK TO UPPER OVP BOX
9	LOWER OVP 6	2	-	LOWER OVP RACK MOUNTED WITHIN EXISTING RACK IN EQUIPMENT AREA

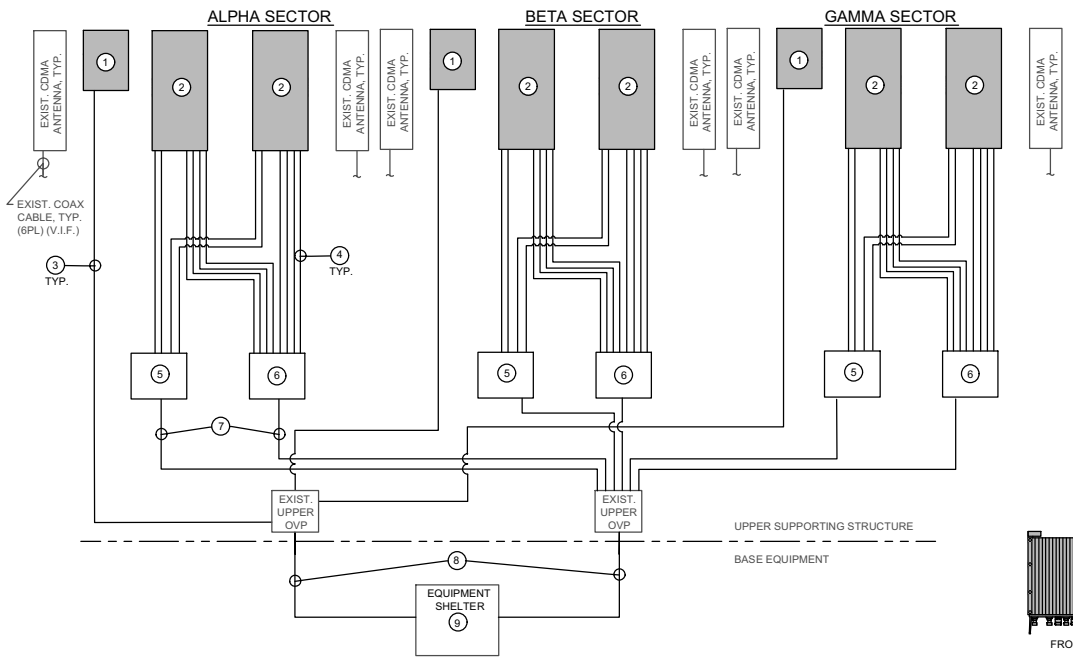
NOTES:
1. INFORMATION SHOWN HEREON IS FOR USE BY VERIZON EQUIPMENT OPERATIONS.
2. INFORMATION IS BASED ON RFDS DATED 06/08/21.
3. *REFER TO THE ASSEMBLY DRAWING AND MOUNT ANALYSIS BY MASER CONSULTING (WHERE APPLICABLE)

EQUIPMENT DATA

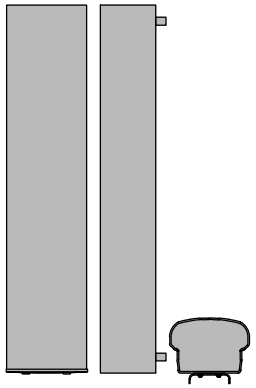
EQUIPMENT SPECIFICATIONS

SECTOR	ANTENNA MAKE/MODEL	QTY	AZIMUTH	EQUIPMENT STATUS	HEIGHT (IN)	WIDTH (IN)	DEPTH (IN)	WEIGHT (LBS)
ALPHA	CDMA ANTEL LPA-80063-6CF 2	2	0	ETR	71.0	15.0	13.0	27.0
	SAMSUNG MT6407-77A	1	0	NEW	35.1	16.1	5.5	87.1
	LTE 700/850/PCS/AWS JMA MX06FRO660-03	1	0	NEW	71.3	15.4	10.7	60.0
	LTE 700/850/PCS/AWS JMA MX06FRO660-03	1	0	NEW	71.3	15.4	10.7	60.0
BETA	CDMA ANTEL LPA-80063-4CF-EDIN-6	2	120	ETR	47.4	15.2	13.2	20.0
	SAMSUNG MT6407-77A	1	120	NEW	35.1	16.1	5.5	87.1
	LTE 700/850/PCS/AWS JMA MX06FRO660-03	1	120	NEW	71.3	15.4	10.7	60.0
	LTE 700/850/PCS/AWS JMA MX06FRO660-03	1	120	NEW	71.3	15.4	10.7	60.0
GAMMA	CDMA ANTEL LPA-80063-4CF-EDIN-4	2	240	ETR	47.4	15.2	13.2	20.0
	SAMSUNG MT6407-77A	1	240	NEW	35.1	16.1	5.5	87.1
	LTE 700/850/PCS/AWS JMA MX06FRO660-03	1	240	NEW	71.3	15.4	10.7	60.0
	LTE 700/850/PCS/AWS JMA MX06FRO660-03	1	240	NEW	71.3	15.4	10.7	60.0
ALL	APPURTENANCE MAKE/MODEL							
	SAMSUNG B2/B66A RRH-BR049 (RFV01U-D1A)	3	-	NEW	14.9	14.9	10.04	97.5
	SAMSUNG B5/B13 RRH-BR04C (RFV01U-D2A)	3	-	NEW	14.9	14.9	8.14	82.0
	SAMSUNG MT6407-77A	3	-	NEW				
	RAYCAP OVP6	2	-	ETR				

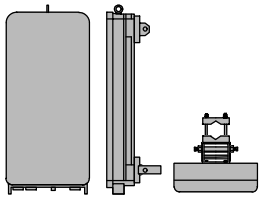
NOTES:
1. "ETR" DENOTES EXISTING TO REMAIN.
2. WEIGHTS LISTED ARE WITHOUT MOUNTING BRACKET.
3. INFORMATION IS BASED ON RFDS DATED 06/08/21.



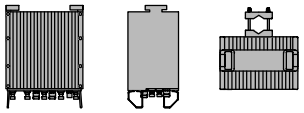
1 A-3 PLUMBING DIAGRAM N.T.S.



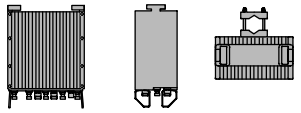
2 A-3 ANTENNA DETAIL N.T.S.



3 A-3 ANTENNA DETAIL N.T.S.



4 A-3 RRH DETAIL N.T.S.



5 A-3 RRH DETAIL N.T.S.

CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS

verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

CENTERLINE COMMUNICATIONS

750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

REVISIONS		
1	01/05/22	ISSUED FOR CONSTRUCTION
0	03/26/21	ISSUED FOR REVIEW
NO.	DATE	DESCRIPTION

DESIGNED BY:	APPROVED BY:
KL	DC

STATE OF CONNECTICUT
DEREK J. CREASER
No. 28551
LICENSED PROFESSIONAL ENGINEER

SITE NAME:
CLINTON S CT

SITE ADDRESS:
46 MEADOW RD
CLINTON, CT 06413
NEW HAVEN

LOCATION CODE:
469265

SHEET TITLE:
EQUIPMENT SPECIFICATIONS, BILL OF MATERIALS & PLUMBING DIAGRAM

SHEET #: A-3 REVISION: 1

STRUCTURAL NOTES:

1. DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, INTERNATIONAL BUILDING CODE, EIA/TIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA, TOWERS AND ANTENNA SUPPORTING STRUCTURES.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER OF RECORD.
3. DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
4. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 (Fy=50 ksi), MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE INDICATED.
5. STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.
6. STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 TYPE-X "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE 3/4" DIA UON.
7. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
8. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
9. FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, ZIRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
10. CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND DI.I. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "STEEL CONSTRUCTION MANUAL". 14TH EDITION.
11. INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.
12. UNISTRUT SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP., WAYNE, MI OR EQUAL. STRUT MEMBERS SHALL BE 1 5/8"x1 5/8"x12GA, UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
13. EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS. AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-270 AND OR HY-200 SYSTEMS (AS SPECIFIED IN DWG.) OR ENGINEERS APPROVED EQUAL.
14. EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, HILTI KWIK BOLT III OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
15. LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.
16. WHERE ROOF PENETRATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT AND COORDINATE RELATED WORK WITH THE BUILDING OWNER AND THE EXISTING ROOF INSTALLER. WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO NOT VOID THE EXISTING ROOF WARRANTY. ROOF SHALL BE WATERTIGHT.
17. ALL FIBERGLASS MEMBERS USED ARE AS MANUFACTURED BY STRONGWELL COMPANY OF BRISTOL, VA 24203. ALL DESIGN CRITERIA FOR THESE MEMBERS IS BASED ON INFORMATION PROVIDED IN THE DESIGN MANUAL. ALL REQUIREMENTS PUBLISHED IN SAID MANUAL MUST BE STRICTLY ADHERED TO.
18. NO MATERIALS TO BE ORDERED AND NO WORK TO BE COMPLETED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED IN WRITING.
19. SUBCONTRACTOR SHALL FIREPROOF ALL STEEL TO PRE-EXISTING CONDITIONS.

SPECIAL INSPECTIONS (REFERENCE IBC CHAPTER 17):

GENERAL: WHERE APPLICATION IS MADE FOR CONSTRUCTION, THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE INSPECTION CHECKLIST ABOVE.

THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND ENGINEERS OF RECORD INVOLVED IN THE DESIGN OF THE PROJECT ARE PERMITTED TO ACT AS THE APPROVED AGENCY AND THEIR PERSONNEL ARE PERMITTED TO ACT AS THE SPECIAL INSPECTOR FOR THE WORK DESIGNED BY THEM, PROVIDED THOSE PERSONNEL MEET THE QUALIFICATION REQUIREMENTS.

STATEMENT OF SPECIAL INSPECTIONS: THE APPLICANT SHALL SUBMIT A STATEMENT OF SPECIAL INSPECTIONS PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IN ACCORDANCE WITH SECTION 107.1 AS A CONDITION FOR ISSUANCE. THIS STATEMENT SHALL BE IN ACCORDANCE WITH SECTION 1705.

REPORT REQUIREMENT: SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS SHALL BE SUBMITTED.

SPECIAL INSPECTION CHECKLIST	
BEFORE CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	MI CHECKLIST DRAWING
REQUIRED	ENGINEER OF RECORD APPROVED SHOP DRAWINGS [1]
REQUIRED	MATERIAL SPECIFICATIONS REPORT [2]
N/A	FABRICATOR NDE INSPECTION
REQUIRED	PACKING SLIPS [3]
ADDITIONAL TESTING AND INSPECTIONS:	
DURING CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	STEEL INSPECTIONS
N/A	HIGH STRENGTH BOLT INSPECTIONS
N/A	HIGH WIND ZONE INSPECTIONS [4]
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH, SLUMP TESTS AND PLACEMENT
N/A	POST INSTALLED ANCHOR VERIFICATION [5]
N/A	GROUT VERIFICATION
N/A	CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
REQUIRED	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT
REQUIRED	GC AS-BUILT DOCUMENTS
ADDITIONAL TESTING AND INSPECTIONS:	
AFTER CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWINGS [6]
N/A	POST INSTALLED ANCHOR PULL-OUT TESTING
REQUIRED	VZW PMI DOCUMENTS
REQUIRED	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

NOTES:

1. REQUIRED FOR ANY NEW SHOP FABRICATED FRP OR STEEL.
2. PROVIDED BY MANUFACTURER, REQUIRED IF HIGH STRENGTH BOLTS OR STEEL.
3. PROVIDED BY GENERAL CONTRACTOR; PROOF OF MATERIALS.
4. HIGH WIND ZONE INSPECTION CATB 120MPH OR CAT C,D 110MPH INSPECT FRAMING OF WALLS, ANCHORING, FASTENING SCHEDULE.
5. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-11 D.9.2.2. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-11 D.8.2.4.
6. AS REQUIRED; FOR ANY FIELD CHANGES TO THE ITEMS IN THIS TABLE.

CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS

verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

CENTERLINE COMMUNICATIONS

750 W CENTER ST. SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

REVISIONS		
1	01/05/22	ISSUED FOR CONSTRUCTION
0	03/26/21	ISSUED FOR REVIEW
NO.	DATE	DESCRIPTION

DESIGNED BY:	APPROVED BY:
KL	DC

STATE OF CONNECTICUT
DEREK J. CREASER
No. 28551
LICENSED
PROFESSIONAL ENGINEER

SITE NAME:	CLINTON S CT
SITE ADDRESS:	46 MEADOW RD CLINTON, CT 06413 NEW HAVEN
LOCATION CODE:	469265
SHEET TITLE:	STRUCTURAL NOTES
SHEET #: SN-1	REVISION: 1

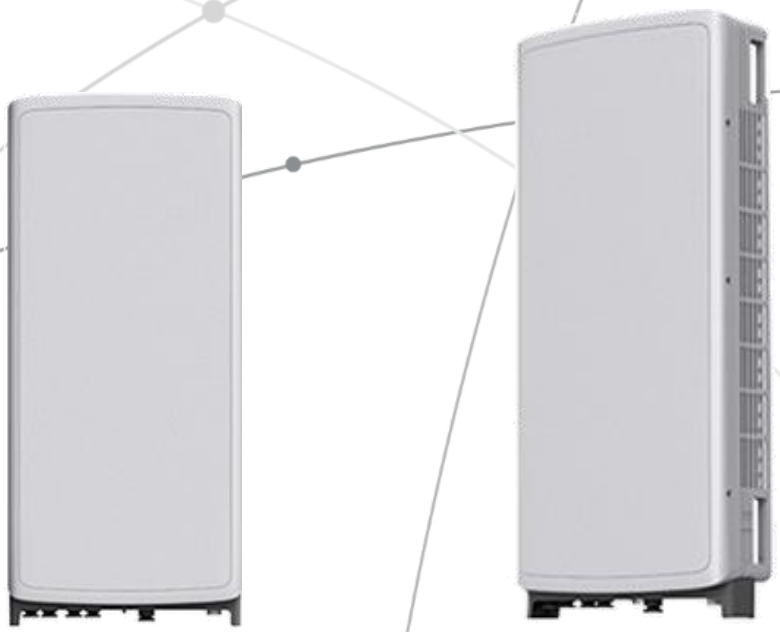
SAMSUNG

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

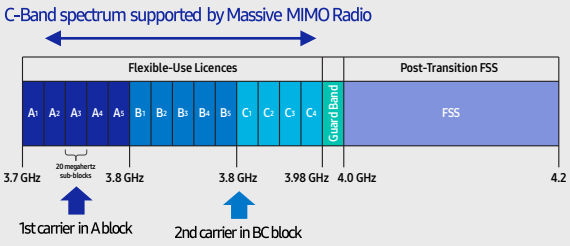


Points of Differentiation

Wide Bandwidth

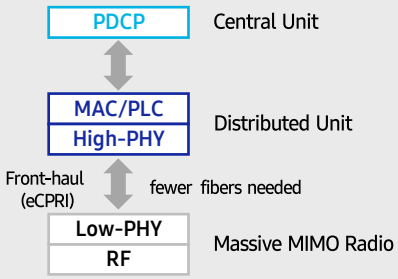
With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

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



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.

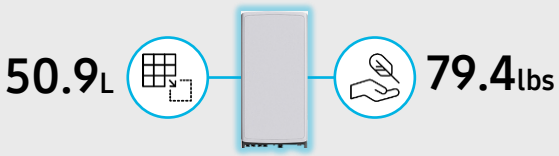
This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

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

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

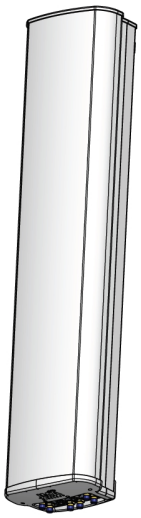
MX06FRO660-03

NWAV™ X-Pol Hex-Port Antenna

X-Pol Hex-Port 6 ft 60° Fast Roll Off antenna with independent tilt on 700 & 850 MHz:

2 ports 698-798, 824-894 MHz and 4 ports 1695-2180 MHz

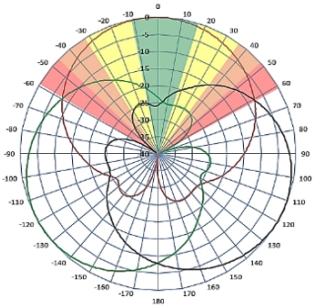
- Fast Roll Off (FRO™) azimuth beam pattern improves Intra- and Inter-cell SINR
- Compatible with dual band 700/850 MHz radios with independent low band EDT without external diplexers
- Fully integrated (iRETs) with independent RET control for low and high bands for ease of network optimization
- SON-Ready array spacing supports beamforming capabilities
- Suitable for LTE/CDMA/PCS/UMTS/GSM air interface technologies
- Integrated Smart Bias-Ts reduce leasing costs



Fast Roll-Off antennas increase data throughput without compromising coverage

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

Non-FRO antenna



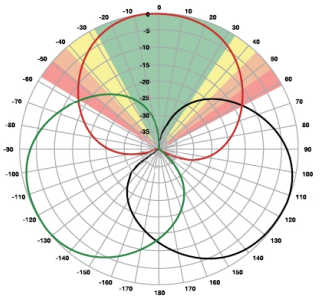
Large traditional antenna pattern overlap creates harmful interference.

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

LTE throughput	SINR	Speed (bps/Hz)	Speed increase	CQI
Excellent	>18	>4.5	333+%	8-10
Good	15-18	3.3-4.5	277%	6-7
Fair	10-15	2-3.3	160%	4-6
Poor	<10	<2	0%	1-3

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

JMA FRO antenna



Electrical specification (minimum/maximum)	Ports 1, 2		Ports 3, 4, 5, 6		
Frequency bands, MHz	698-798	824-894	1695-1880	1850-1990	1920-2180
Polarization	± 45°		± 45°		
Average gain over all tilts, dBi	14.4	14.0	17.6	18.0	18.2
Horizontal beamwidth (HBW), degrees	60.5	53.0	55.0	55.0	55.5
Front-to-back ratio, co-polar power @180°± 30°, dB	>24	>24.0	>25.0	>25.0	>25.0
X-Pol discrimination (CPR) at boresight, dB	>15.0	>14.2	>18	>18	>15
Sector power ratio, percent	<3.5	<3.0	<3.7	<3.8	<3.6
Vertical beamwidth (VBW), degrees[1]	13.1	11.8	6.0	5.5	5.5
Electrical downtilt (EDT) range, degrees	2-14	2-14	0-9		
First upper side lobe (USLS) suppression, dB[1]	≤-15.0	≤-16.5	≤-16.0	≤-16.0	≤-16.0
Cross-polar isolation, port-to-port, dB[1]	25	25	25	25	25
Max VSWR / return loss, dB	1.5:1 / -14.0		1.5:1 / -14.0		
Max passive intermodulation (PIM), 2x20W carrier, dBc	-153		-153		
Max input power per any port, watts	300		250		
Total composite power all ports, watts	1500				

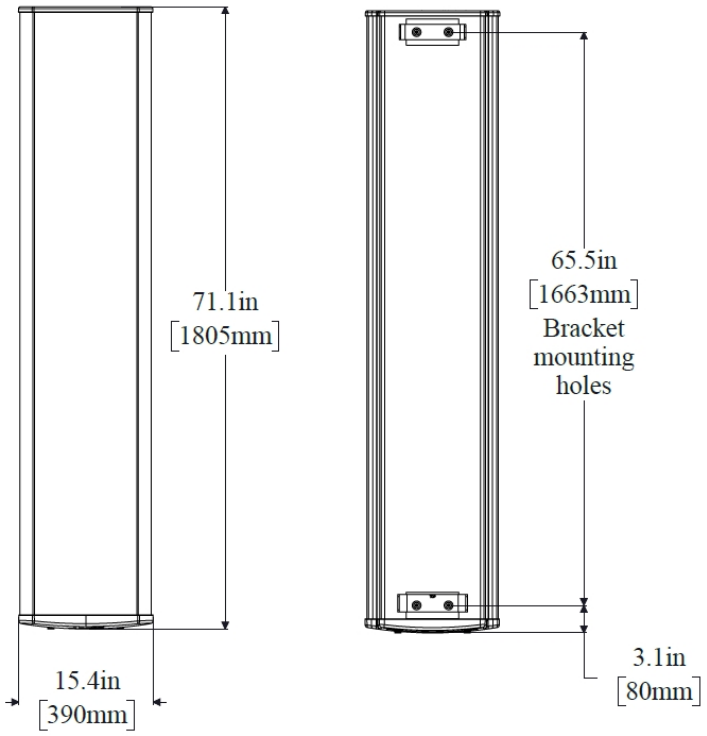
[1] Typical value over frequency and tilt

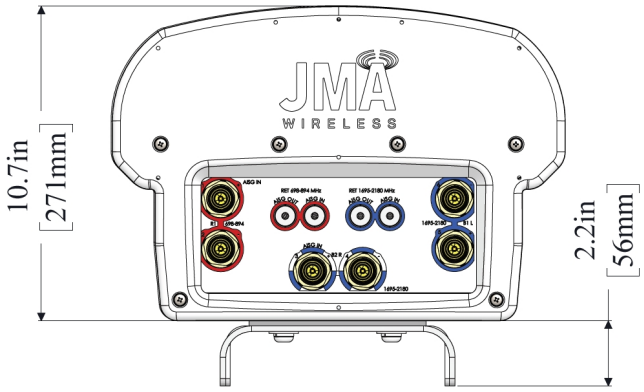
MX06FRO660-03

NWAV™ X-Pol Hex-Port Antenna

Mechanical specifications	
Dimensions height/width/depth, inches (mm)	71.3/ 15.4/ 10.7 (1811/ 392/ 273)
Shipping dimensions length/width/height, inches (mm)	82/ 20/ 15 (2083/ 508/ 381)
No. of RF input ports, connector type, and location	6 x 4.3-10 female, bottom
RF connector torque	96 lbf·in (10.85 N·m or 8 lbf·ft)
Net antenna weight, lb (kg)	60 (27.0)
Shipping weight, lb (kg)	90 (41.0)
Antenna mounting and downtilt kit included with antenna	91900318
Net weight of the mounting and downtilt kit, lb (kg)	18 (8.18)
Range of mechanical up/down tilt	-2° to 14°
Rated wind survival speed, mph (km/h)	150 (241)
Frontal, lateral, and rear wind loading @ 150 km/h, lbf (N)	154 (685), 73 (325), 158 (703)
Equivalent flat plate @ 100 mph and Cd=2, sq ft	2.6

Front view | **Back view** | **Bottom view**





Ordering information	
Antenna model	**Description**
MX06FRO660-03	6F X-Pol HEX FRO 60° independent tilt 700/850 RET, 4.3-10 & SBT
Optional accessories	
AISG cables	M/F cables for AISG connections
PCU-1000 RET controller	Stand-alone controller for RET control and configurations

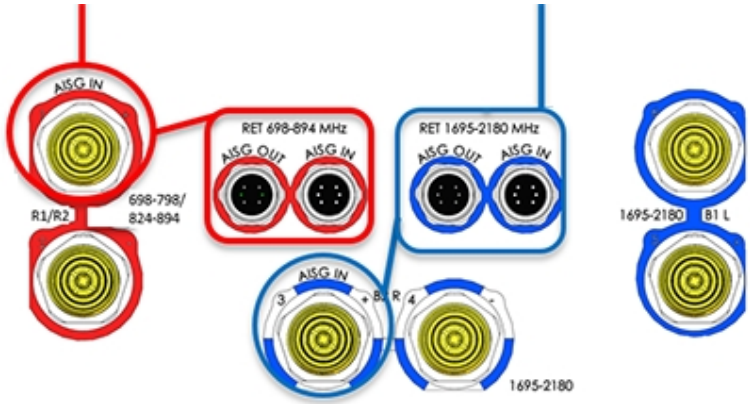
Remote electrical tilt (RET 1000) information	
RET location	Integrated into antenna
RET interface connector type	8-pin AISG connector per IEC 60130-9
RET connector torque	Min 0.5 N·m to max 1.0 N·m (hand pressure & finger tight)
RET interface connector quantity	2 pairs of AISG male/female connectors
RET interface connector location	Bottom of the antenna
Total no. of internal RETs (low bands)	2
Total no. of internal RETs (high bands)	1
RET input operating voltage, vdc	10-30
RET max power consumption, idle state, W	≤ 2.0
RET max power consumption, normal operating conditions, W	≤ 13.0
RET communication protocol	AISG 2.0 / 3GPP

RET and RF connector topology

Each RET device can be controlled either via the designated external AISG connector or RF port as shown below:

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

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

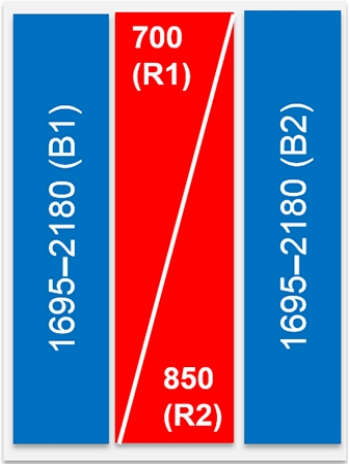


Array topology

3 sets of radiating arrays

R1/R2: 698-894 MHz
B1: 1695-2180 MHz
B2: 1695-2180 MHz

Band	RF port
1695-2180	3-4
698-894	1-2
1695-2180	5-6



ATTACHMENT 3

	General	Power	Density					
Site Name: Clinton S								
Tower Height: Verizon @ 162ft								
CARRIER	**# OF CHAN.**	**WATTS ERP**	**HEIGHT**	**FREQ.**	**CALC. POWER DENS**	**MAX. PERMISS.EXP.**	**FRACTION MPE**	**Total**
*Sprint	1	438	182	850	0.005085022	0.566666667	0.09%	
*Sprint	2	438	182	850	0.010170043	0.566666667	0.18%	
*Sprint	5	623	182	1900	0.036164023	1	0.36%	
*Sprint	2	1556	182	1900	0.036129194	1	0.36%	
*Sprint	8	778	182	2500	0.072258389	1	0.72%	
*T-Mobile	2	12	192.5	1950	0.00024814	1	0.00%	
*T-Mobile	2	12	192.5	2100	0.00024814	1	0.00%	
*T-Mobile	2	24	192.5	2100	0.000496281	1	0.00%	
*AT&T-UMTS	1	4657	150.5	1900	0.080207424	1	0.80%	
*AT&T-PCS-UMTS	2	547	150.5	850	0.018841942	0.566666667	0.33%	
*AT&T-LTE	1	5274	150.5	2100	0.090834003	1	0.91%	
*AT&T-PCS-LTE	2	1316	150.5	850	0.045330887	0.566666667	0.80%	
*AT&T-GSM	2	2209	150.5	737	0.076091131	0.491333333	1.55%	
*AT&T-PCS-GSM	2	2685	150.5	2300	0.09248741	1	0.92%	
VZW 700	**4**	**609**	**162**	**751**	**0.0033**	**0.5007**	**0.67%**	
VZW CDMA	**2**	**499**	**162**	**877.26**	**0.0014**	**0.5848**	**0.23%**	
VZW Cellular	**4**	**623**	**162**	**874**	**0.0034**	**0.5827**	**0.59%**	
VZW PCS	**4**	**1428**	**162**	**1975**	**0.0078**	**1.0000**	**0.78%**	
VZW AWS	**4**	**1496**	**162**	**2120**	**0.0082**	**1.0000**	**0.82%**	
VZW CBAND	**2**	**21627**	**162**	**3730.08**	**0.0593**	**1.0000**	**5.93%**	
								16.06%
* 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 Sabre Self Supporting Tower

Customer Name: SBA Communications Corp

Customer Site Number: CT01879-S

Customer Site Name: Clinton 4 CT

Carrier Name: Verizon (App#: 161886, v2)

Carrier Site ID / Name: 469265 / Clinton_S_CT

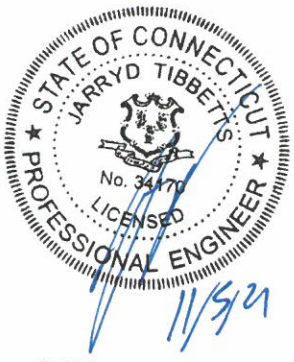
Site Location: 46 Meadow Road

Clinton, Connecticut

Middlesex County

Latitude: 41.275205

Longitude: -72.497711



Analysis Result:

Max Structural Usage: 99.9% [Pass]

Max Foundation Usage: 76% [Pass]

Additional Usage Caused by New Mount/Mount Modification: +2.3%

Report Prepared By: Ram Kodali

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 Sabre Self Supporting Tower

Customer Name: SBA Communications Corp

Customer Site Number: CT01879-S

Customer Site Name: Clinton 4 CT

Carrier Name: Verizon (App#: 161886, v2)

Carrier Site ID / Name: 469265 / Clinton_S_CT

Site Location: 46 Meadow Road

Clinton, Connecticut

Middlesex County

Latitude: 41.275205

Longitude: -72.497711

Analysis Result:

Max Structural Usage: 99.9% [Pass]

Max Foundation Usage: 76% [Pass]

Additional Usage Caused by New Mount/Mount Modification: +2.3%

Report Prepared By: Ram Kodali

Introduction

The purpose of this report is to summarize the analysis results on the 195 ft Sabre Self Supporting Tower 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	Sabre, Job # 00-10101, dated 11/19/99
Foundation Drawing	Sabre, Dwg # 9014022, dated 11/23/99
Geotechnical Report	JGI, Project # 99500G, dated 12/13/99; Original design soil parameters from Sabre Job # 00-10101, dated 11/23/99
Modification Drawings	FDH, Project # 1465YH1400, dated 6/3/14; FDH, Project # 15BZTJ1400, dated 9/24/15; TES, Job # 32039, dated 1/10/2018; TES, Job # 71440, dated 3/29/2019; TES, Job # 110857, dated 8/16/2021 [Pending]
Mount Analysis	Maser Consulting, Job # 20777640A, dated 5/21/2021

Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the TIA-222-G-2**.** In accordance with this standard, the structure was analyzed using **TESTowers,** 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} = 135 mph (3-Sec. Gust)/ Nominal Design Wind Speed V_{asd} = 105 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:	D
Structure Class:	II
Topographic Category:	1
Crest Height:	0 ft
Seismic Parameters:	S_S = 0.169, S_1 = 0.059

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

Existing Antennas, Mounts and Transmission Lines

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

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	194.0	3	AIR 21 B2A B4P - Panel	(3) Sector Frame	(12) 1 5/8" (1) 1 5/8" Fiber	T-Mobile
2		3	AIR 21 B4A B2P - Panel			
3	192.5	3	KRY 112 144/1			
4	184.0	1	PD1151	Direct	(1) 7/8"	Town of Clinton
5	182.0	3	RFS APXVTM14-C-120 - Panel	(3) Sector Frame	(4) 1 1/4" Hybrid	Sprint Nextel
6		3	RFS APXVSPP18-C-A20 - Panel			
7		3	ALU TD-RRH8x20-25			
8		3	ALU 1900 MHz RRH			
9		3	ALU 800 MHz RRH			
10		4	RFS ACU-A20-N RET			
11		3	ALU ALU 800 MHz Filter			
-	162.0	6	SBNHH-1D65B - Panel	(3) Sector Frame	(10) 1 5/8" (2) 1 5/8" Fiber	Verizon
-		4	LPA-80063-4CF - Panel			
-		2	LPA-80063/6CF - Panel			
-		6	FD9R6004/2C-3L			
-		3	RRH2X60-AWS			
-		3	RRH2X60-PCS			
-		3	RRH2X60-700			
-		2	DB-T1-6Z-8AB-0Z			
19	150.5	3	Kathrein - 800 10964 - Panel	(3) Sector Frame w/ (3) Stabilizer Arm (3) SFS-V Kickers	(12) 1 5/8" (1) 1/2" Fiber & (2) 3/4" DC in (1) 3" Flex Conduit (1) 1/2" Fiber (4) 3/4" DC	AT&T
20		6	Andrew - SBNHH-1D65A - Panel			
21		3	Kathrein - 7770 - Panel			
22		6	Powerwave TT19-08BP111-001 TMA			
23		12	Powerwave 7020.00 RET			
24		3	Ericsson 4449 B5 B12			
25		3	Ericsson RRUS 32			
26		3	Ericsson RRUS 8843 B2 B66A			
27		3	Raycap DC6-48-60-18-8F			
28	141.5	3	SD312HL	(3) Side Arm	(4) 7/8"	Town of Clinton
29	130.0	3	JMA Wireless MX08FRO665-21 - Panel	Commscope (3) MTC3975083	(1) 1.6" Hybrid	Dish Wireless
30		3	Fujitsu TA08025-B604			
31		3	Fujitsu TA08025-B605			
32		1	Raycap RDIDC-9181-OF-48			
33	102.0	1	Radiowave RDH4518A - Dish	Pipe	(2) CAT5e	Town of Clinton
-	75.0	1	GPS	Direct	(1) 1/2	Verizon

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
12	162.0	6	JMA wireless MX06FRO660-03 - Panel	(3) Sector Frame w/ Mount fix mods	(6) 1 5/8" (2) 1 5/8" Fiber	Verizon
13		4	Antel LPA-80063-4CF - Panel			
14		2	Antel LPA-80063/6CF - Panel			
15		3	Samsung MT6407-77A - Panel			
16		3	Samsung B2/B66A RRH-BR049			
17		3	Samsung B5/B13 RRH-BR04C			
18		2	RFS DB-T1-6Z-8AB-0ZTA			
34	75.0	1	GPS	Direct	(1) 1/2	

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:

Tower Component	Legs	Diagonals	Horizontals
Max. Usage:	**99.9%**	**86.6%**	**14.8%**
Pass/Fail	**Pass**	**Pass**	**Pass**

Foundations

	Compression (Kips)	Uplift (Kips)	Shear (Kips)
Analysis Reactions	532.3	470.0	56.8

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

Operational Condition (Rigidity)

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 0.3294 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

Based on the analysis results, the existing structure meets the requirements per the TIA-222 Standard under the design basic wind speed specified in the Analysis Criteria. This analysis considers the modifications outlined in the TES Modification package as listed above installed. ***The results of this analysis will only be valid after the modifications have been installed.***

Standard Conditions

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

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

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

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

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

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

Structure: CT01879-S-SBA

Site Name:	Clinton 4 CT			**Code:**	EIA/TIA-222-G	11/5/2021
Type:	Self Support	**Base Shape:**	Triangle	**Basic WS:**	105.00	
Height:	195.00 (ft)	**Base Width:**	23.00	**Basic Ice WS:**	50.00	
Base Elev:	0.00 (ft)	**Top Width:**	5.00	**Operational WS:**	60.00	Page: 1

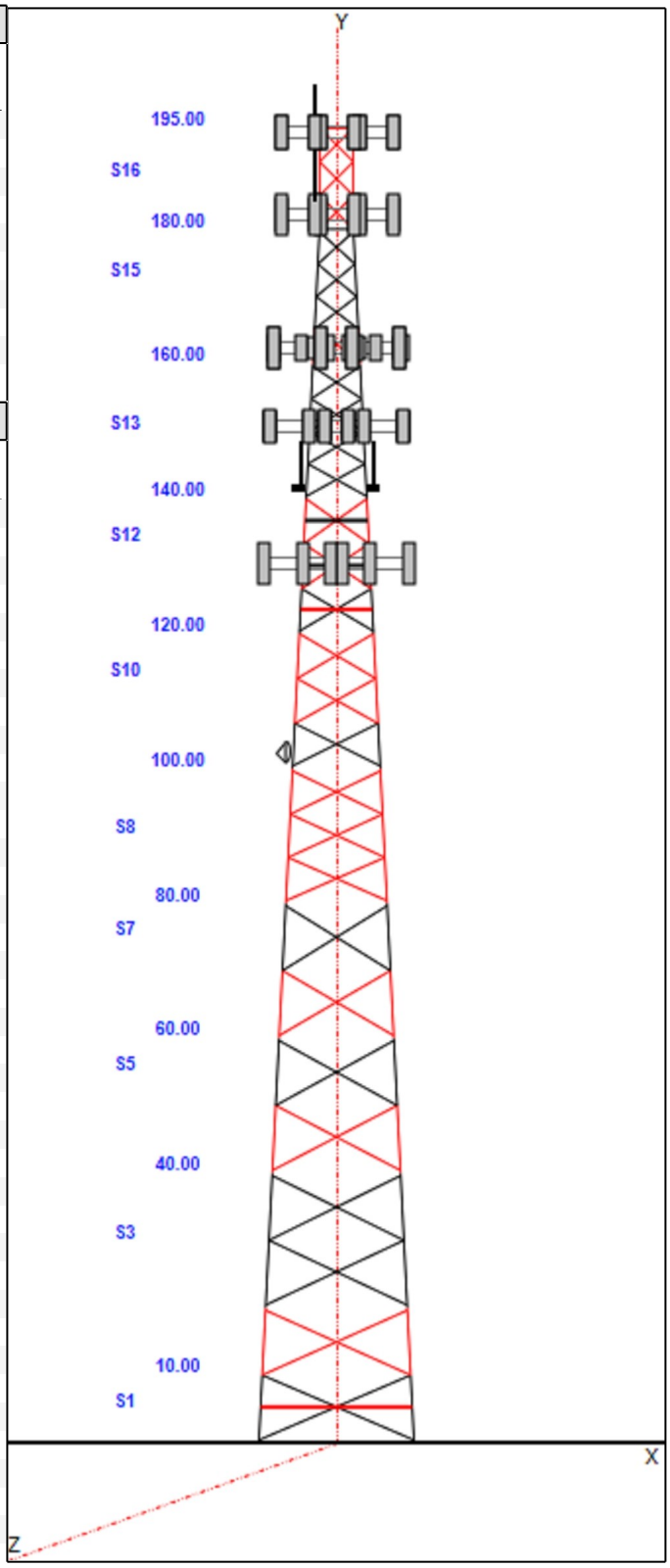
Tower Engineering Solutions

Section Properties

Sect	Leg Members	Diagonal Members	Horizontal Members
1-2	PX 8" DIA PIPE	SAE 4X4X0.375	
3-5	MOD 8"PST+5x5x3/8L	SAE 4X4X0.375	
6-7	MOD 6"PX+L4x4x3/8	SAE 4X4X0.375	
8	MOD 6"PST+4x4x3/8L	SAE 3X3X0.375	
9-10	PX 5" DIA PIPE	SAE 2.5X2.5X0.375	
11-12	PX 4" DIA PIPE	SAE 2.5X2.5X0.25	
13	PX 3" DIA PIPE	SAE 2.5X2.5X0.375	
14	PST 3" DIA PIPE	SAE 1.75X1.75X0.1875	
15	PST 3" DIA PIPE	SAE 1.75X1.75X0.1875	SAE 1.75X1.75X0.1875
16	PST 2" DIA PIPE	SAE 1.75X1.75X0.1875	SAE 1.75X1.75X0.1875

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description
194.00	194.00	3	AIR 21 B2A B4P
194.00	194.00	3	AIR 21 B4A B2P
194.00	194.00	3	Sector Frame
192.50	192.50	3	KRY 112 144/1
184.00	192.60	1	PD1151
182.00	182.00	3	Sector Frame
182.00	182.00	3	APXVTM14-C-120
182.00	182.00	3	APXVSPP18-C-A20
182.00	182.00	3	TD-RRH8x20-25
182.00	182.00	3	1900 MHz RRH
182.00	182.00	3	800 MHz RRH
182.00	182.00	4	ACU-A20-N
182.00	182.00	3	ALU 800 MHz Filter
162.00	162.00	3	Sector Frame
162.00	162.00	6	MX06FRO660-03
162.00	162.00	4	LPA-80063-4CF
162.00	162.00	2	LPA-80063/6CF
162.00	162.00	3	B2/B66A RRH-BR049
162.00	162.00	3	B5/B13 RRH-BR04C
162.00	162.00	1	(3) HR w/ Double V-Brace Kits
162.00	162.00	2	DB-T1-6Z-8AB-0Z
162.00	162.00	3	MT6407-77A
162.00	162.00	3	2.5" STD x 150" Long
150.50	150.50	3	800 10964
150.50	150.50	3	Ericsson 4449 B5 B12 RRU
150.50	150.50	3	Ericsson RRUS 32 RRU
150.50	150.50	3	Ericsson RRUS 8843 B2 B66A RRU
150.50	150.50	3	7770
150.50	150.50	6	SBNHH-1D65A
150.50	150.50	6	TT19-08BP111-001
150.50	150.50	12	Powerwave 7020.00 RET
150.50	150.50	3	Raycap DC6-48-60-18-8F COVP
150.50	150.50	1	(3) Stabilizer Kit + SFS-V Kit
150.50	150.50	3	Sector Frame
141.50	141.50	3	Side Arm
141.50	144.96	3	SD312HL
130.00	130.00	3	MX08FRO665-21
130.00	130.00	3	TA08025-B604
130.00	130.00	3	TA08025-B605



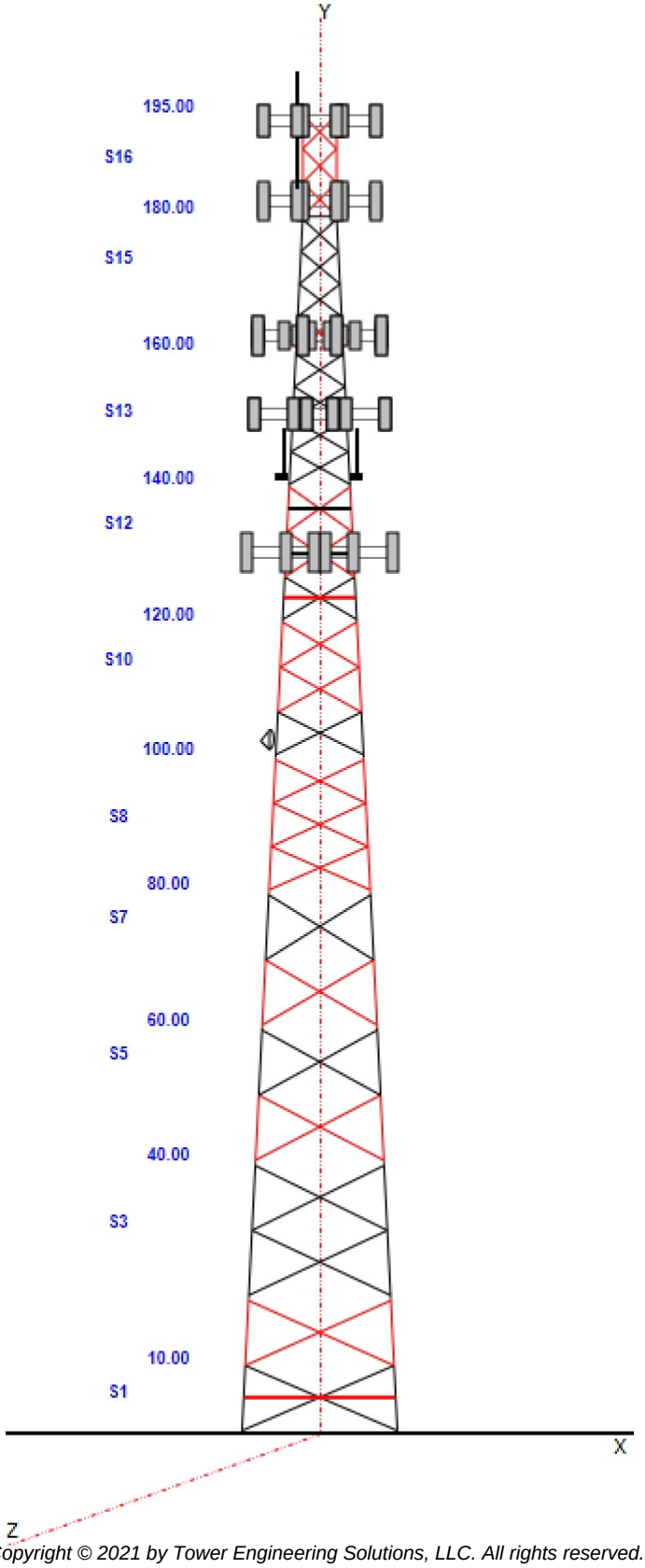
130.00	130.00	1	RDIDC-9181-OF-48
130.00	130.00	1	(3) MTC3975083
102.00	102.00	1	Pipe Mount
102.00	102.00	1	Radiowave RDH4518A
75.00	75.00	1	GPS

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Qty	Description
0.00	195.00	1	Climbing Ladder
0.00	195.00	1	Safety Cable
0.00	194.00	12	1 5/8" Coax
0.00	194.00	1	1 5/8" Fiber
0.00	194.00	1	W/G Ladder
0.00	184.00	1	7/8" Coax
0.00	182.00	4	1 1/4" Hybrid
0.00	182.00	1	W/G Ladder
0.00	162.00	6	1 5/8" Coax
0.00	162.00	2	1 5/8" Fiber
0.00	162.00	1	W/G Ladder
0.00	150.50	1	(1)1/2 & (2)3/4" in 3" Conduit
0.00	150.50	2	1 5/8" Coax
0.00	150.50	6	1 5/8" Coax
0.00	150.50	4	1 5/8" Coax
0.00	150.50	1	1/2" Fiber
0.00	150.50	4	3/4" DC
0.00	150.50	1	W/G Ladder
0.00	141.50	4	7/8" Coax
0.00	130.00	1	1.6" Hybrid
0.00	102.00	2	CAT5e
0.00	75.00	1	1/2" Coax

Base Reactions

Leg			Overturning		
Max Uplift:	-470.03	(kips	Moment:	10140.15	(ft-kips)
Max Down:	532.31	(kips	Total Down:	69.68	(kips)
Max Shear:	56.82	(kips	Total Shear:	94.29	(kips)

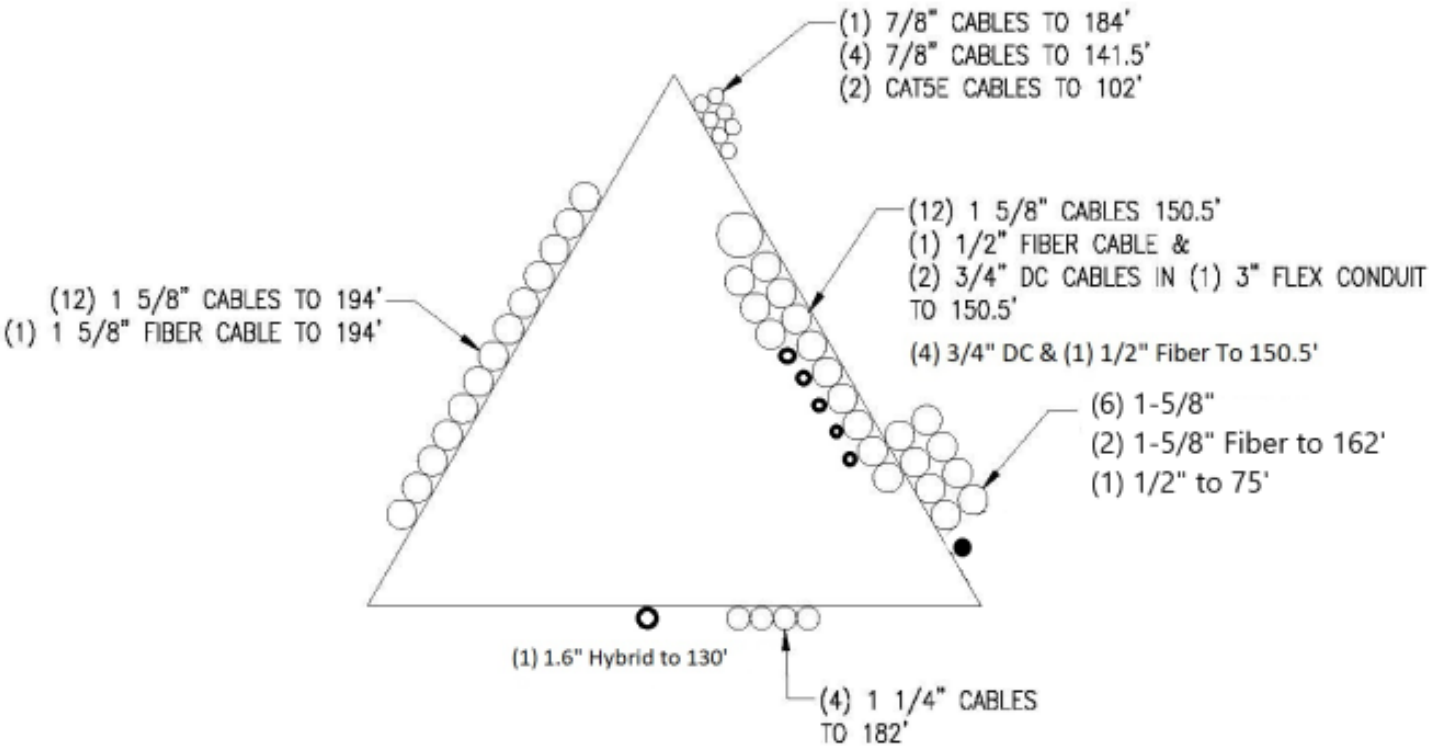


Structure: CT01879-S-SBA - Coax Line Placement

Type: Self Support
Site Name: Clinton 4 CT
Height: 195.00 (ft)

11/5/2021

Tower Engineering Solutions



Loading Summary

Structure:	CT01879-S-SBA	**Code:**	EIA/TIA-222-G	11/5/2021	
Site Name:	Clinton 4 CT	**Exposure:**	D		
Height:	195.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 5	

Tower Engineering Solutions

Discrete Appurtenances Properties

Attach Elev (ft)	Description	Qty	No Ice Weight (lb)	No Ice CaAa (sf)	Ice Weight (lb)	Ice CaAa (sf)	Len (in)	Width (in)	Depth (in)	Ka	Orientation Factor	Vert Ecc (ft)
194.00	AIR 21 B2A B4P	3	91.50	6.090	264.95	7.214	56.000	12.100	7.900	0.90	0.86	0.000
194.00	AIR 21 B4A B2P	3	90.40	6.090	263.85	7.214	56.000	12.100	7.900	0.90	0.86	0.000
194.00	Sector Frame	3	500.00	16.500	1213.84	29.927	0.000	0.000	0.000	0.75	0.75	0.000
192.50	KRY 112 144/1	3	11.00	0.410	22.02	0.896	6.900	6.100	2.700	0.80	0.50	0.000
184.00	PD1151	1	20.00	4.820	243.60	11.145	206.400	2.800	2.800	1.00	1.00	8.600
182.00	Sector Frame	3	500.00	16.250	1207.95	29.365	0.000	0.000	0.000	0.75	0.75	0.000
182.00	APXVTM14-C-120	3	56.00	6.340	219.14	7.470	56.300	12.600	6.300	0.80	0.78	0.000
182.00	APXVSPP18-C-A20	3	57.00	8.020	260.06	9.334	72.000	11.800	7.000	0.80	0.83	0.000
182.00	TD-RRH8x20-25	3	70.00	4.050	182.35	4.876	26.100	18.600	6.700	0.80	0.50	0.000
182.00	1900 MHz RRH	3	44.00	3.800	154.71	5.210	23.000	13.000	17.000	0.80	0.50	0.000
182.00	800 MHz RRH	3	53.00	2.490	128.01	3.650	19.700	13.000	10.800	0.80	0.50	0.000
182.00	ACU-A20-N	4	1.00	0.140	5.36	0.441	4.000	2.000	3.500	0.80	0.50	0.000
182.00	ALU 800 MHz Filter	3	8.80	0.780	26.69	1.436	10.000	8.000	3.000	0.80	0.50	0.000
162.00	Sector Frame	3	500.00	16.250	1203.74	29.287	0.000	0.000	0.000	0.75	0.75	0.000
162.00	MX06FRO660-03	6	46.00	9.870	317.49	11.258	71.300	15.400	10.700	0.80	0.87	0.000
162.00	LPA-80063-4CF	4	20.00	6.150	227.46	7.192	47.400	15.200	13.100	0.80	0.92	0.000
162.00	LPA-80063/6CF	2	27.00	9.600	317.73	10.964	70.900	15.000	13.100	0.80	0.94	0.000
162.00	B2/B66A RRH-BR049	3	84.40	1.870	161.73	2.448	15.000	15.000	10.000	0.80	0.50	0.000
162.00	B5/B13 RRH-BR04C	3	70.30	1.870	140.37	2.448	15.000	15.000	8.100	0.80	0.50	0.000
162.00	(3) HR w/ Double V-Brace Kits	1	650.00	15.500	1473.37	31.862	0.000	0.000	0.000	0.75	1.00	0.000
162.00	DB-T1-6Z-8AB-0Z	2	18.90	4.800	164.00	5.681	24.000	24.000	10.000	0.90	0.90	0.000
162.00	MT6407-77A	3	79.40	4.690	200.11	5.645	35.100	16.100	5.500	0.80	0.70	0.000
162.00	2.5" STD x 150" Long	3	73.00	3.600	165.47	7.400	0.000	0.000	0.000	0.75	0.75	0.000
150.50	800 10964	3	83.80	10.000	309.47	11.299	59.000	20.000	6.390	0.80	0.71	0.000
150.50	Ericsson 4449 B5 B12 RRU	3	73.00	1.970	127.88	2.517	14.960	13.190	10.430	0.80	0.67	0.000
150.50	Ericsson RRUS 32 RRU	3	77.00	1.650	125.49	2.230	20.900	9.500	3.300	0.80	0.67	0.000
150.50	Ericsson RRUS 8843 B2 B66A RRU	3	72.00	1.640	119.30	2.156	14.900	13.200	10.900	0.80	0.67	0.000
150.50	7770	3	35.00	5.500	170.17	6.565	55.000	11.000	5.000	0.80	0.73	0.000
150.50	SBNHH-1D65A	6	33.50	5.880	191.86	6.960	55.000	11.900	7.100	0.80	0.83	0.000
150.50	TT19-08BP111-001	6	16.00	0.640	36.24	1.233	9.900	6.700	5.400	0.80	0.67	0.000
150.50	Powerwave 7020.00 RET	12	2.20	0.400	12.43	0.884	4.900	8.300	2.400	0.80	0.67	0.000
150.50	Raycap DC6-48-60-18-8F COVP	3	32.80	0.920	96.57	1.358	24.000	11.000	18.500	0.80	0.67	0.000
150.50	(3) Stabilizer Kit + SFS-V Kit	1	180.00	8.100	406.18	16.582	0.000	0.000	0.000	1.00	1.00	0.000
150.50	Sector Frame	3	450.00	14.000	801.84	21.037	0.000	0.000	0.000	0.75	0.75	0.000
141.50	Side Arm	3	100.00	3.000	187.26	6.497	0.000	0.000	0.000	0.75	0.75	0.000
141.50	SD312HL	3	10.30	3.450	108.73	6.263	83.100	3.500	18.900	1.00	1.00	3.462
130.00	MX08FRO665-21	3	64.50	12.490	349.73	13.926	72.000	20.000	8.000	0.80	0.74	0.000
130.00	TA08025-B604	3	63.90	1.960	113.55	2.510	15.800	15.000	7.900	0.80	0.67	0.000
130.00	TA08025-B605	3	75.00	1.960	126.29	2.510	15.800	15.000	9.100	0.80	0.67	0.000
130.00	RDIDC-9181-OF-48	1	21.90	2.010	74.12	2.567	16.600	14.600	8.500	1.00	1.00	0.000
130.00	(3) MTC3975083	1	1242.0	29.450	2432.30	65.738	0.000	0.000	0.000	0.75	1.00	0.000
102.00	Pipe Mount	1	100.00	2.000	180.71	3.345	0.000	0.000	0.000	1.00	1.00	0.000
102.00	Radiowave RDH4518A	1	110.00	8.920	276.38	10.612	0.000	0.000	0.000	1.00	1.00	0.000
75.00	GPS	1	10.00	1.000	37.36	1.664	12.000	9.000	6.000	1.00	1.00	0.000
	Totals:	**134**	**13,387.40**		**35,795.20**						**Number of Appurtenances :**	**44**

Linear Appurtenances Properties

Elev. From (ft)	Elev. To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	Pct In Block	Spread On Faces	Bundling Arrangement	Cluster Dia (in)	Out of Zone	Spacing (in)	Orientation Factor	Ka Override
0.00	195.00	Climbing Ladder	1	1.00	6.90	100.00	2	Individual NR		N	1.00	1.00	
0.00	195.00	Safety Cable	1	0.38	0.27	100.00	2	Individual NR		N	1.00	1.00	
0.00	194.00	1 5/8" Coax	12	1.98	1.04	100.00	3	Individual IR		N	1.00	1.00	
0.00	194.00	1 5/8" Fiber	1	1.63	1.10	100.00	3	Individual NR		N	1.00	1.00	
0.00	194.00	W/G Ladder	1	1.00	6.00	100.00	3	Individual NR		N	1.00	1.00	
0.00	184.00	7/8" Coax	1	1.11	0.52	100.00	2	Individual NR		N	1.00	1.00	
0.00	182.00	1 1/4" Hybrid	4	1.55	0.66	100.00	1	Individual IR		N	1.00	1.00	
0.00	182.00	W/G Ladder	1	2.00	6.00	100.00	1	Individual NR		N	1.00	1.00	
0.00	162.00	1 5/8" Coax	6	1.98	1.04	50.00	2	Block		N	0.40	1.00	
0.00	162.00	1 5/8" Fiber	2	1.63	1.10	50.00	2	Block		N	0.40	1.00	
0.00	162.00	W/G Ladder	1	1.00	6.00	100.00	2	Individual NR		N	1.00	1.00	
0.00	150.50	(1)1/2 & (2)3/4" in 3" Conduit	1	3.00	1.78	100.00	2	Individual NR		N	1.00	1.00	
0.00	150.50	1 5/8" Coax	2	1.98	1.04	100.00	2	Individual IR		N	1.00	1.00	0
0.00	150.50	1 5/8" Coax	6	1.98	1.04	50.00	2	Block		N	0.40	1.00	
0.00	150.50	1 5/8" Coax	4	1.98	1.04	100.00	2	Individual IR		N	1.00	1.00	
0.00	150.50	1/2" Fiber	1	0.50	0.16	100.00	2	Individual NR		N	1.00	1.00	0
0.00	150.50	3/4" DC	4	0.75	0.40	50.00	2	Block		N	1.00	1.00	0
0.00	150.50	W/G Ladder	1	1.00	6.00	100.00	2	Individual NR		N	1.00	1.00	
0.00	141.50	7/8" Coax	4	1.11	0.52	50.00	2	Block		N	0.40	1.00	
0.00	130.00	1.6" Hybrid	1	1.60	1.00	100.00	1	Individual NR		N	1.00	1.00	
0.00	102.00	CAT5e	2	0.19	0.02	50.00	2	Block		N	0.40	1.00	
0.00	75.00	1/2" Coax	1	0.65	0.16	100.00	2	Individual NR		N	1.00	1.00	

Section Forces

Structure:	CT01879-S-SBA	**Code:**	EIA/TIA-222-G	11/5/2021	
Site Name:	Clinton 4 CT	**Exposure:**	D		
Height:	195.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 7	

Tower Engineering Solutions

Load Case: 1.2D + 1.6W Normal Wind — 1.2D + 1.6W 105 mph Wind at Normal To Face

Wind Load Factor: 1.60 — **Wind Importance Factor:** 1.00

Dead Load Factor: 1.20

Ice Dead Load Factor: 0.00 — **Ice Importance Factor:** 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	5.0	24.71	22.379	14.40	0.00	0.16	2.74	1.00	1.00	0.00	28.47	64.69	0.00	4,852.4	0.0	2622.33	1552.98	4,175.31
2	15.0	24.72	15.237	14.40	0.00	0.13	2.83	1.00	1.00	0.00	21.15	64.69	0.00	4,102.6	0.0	2014.20	1553.32	3,567.52
3	30.0	27.88	28.213	41.18	0.00	0.17	2.72	1.00	1.00	0.00	45.77	129.38	0.00	7,824.2	0.0	4716.14	3504.65	8,220.79
4	45.0	29.92	13.208	20.59	0.00	0.17	2.69	1.00	1.00	0.00	22.08	64.69	0.00	3,817.0	0.0	2415.06	1880.35	4,295.41
5	55.0	30.98	12.642	20.59	0.00	0.18	2.67	1.00	1.00	0.00	21.58	64.69	0.00	3,757.1	0.0	2424.68	1947.13	4,371.82
6	65.0	31.90	12.188	16.14	0.00	0.16	2.72	1.00	1.00	0.00	19.06	64.69	0.00	3,602.1	0.0	2250.18	2004.53	4,254.71
7	75.0	32.70	11.639	16.14	0.00	0.17	2.70	1.00	1.00	0.00	18.57	64.42	0.00	3,542.9	0.0	2227.64	2046.37	4,274.01
8	90.0	33.75	21.896	32.28	0.00	0.18	2.65	1.00	1.00	0.00	35.97	128.29	0.00	6,208.9	0.0	4382.41	4206.70	8,589.11
9	103.3	34.57	5.694	6.19	0.00	0.14	2.82	1.00	1.00	0.00	8.41	42.71	0.00	1,680.8	0.0	1116.97	1433.92	2,550.90
10	113.3	35.13	10.812	12.38	0.00	0.14	2.80	1.00	1.00	0.00	16.25	85.30	0.00	3,301.1	0.0	2171.24	2909.38	5,080.63
11	123.3	35.65	7.214	5.01	0.00	0.17	2.71	1.00	1.00	0.00	9.71	42.66	0.00	1,462.8	0.0	1277.42	1515.47	2,792.89
12	133.3	36.14	13.498	10.02	0.00	0.18	2.68	1.00	1.00	0.00	18.51	83.98	0.00	2,847.5	0.0	2437.20	3023.58	5,460.77
13	150.0	36.89	15.082	11.69	0.00	0.16	2.73	1.00	1.00	0.00	21.41	100.59	0.00	3,746.5	0.0	2932.84	3760.67	6,693.51
14	162.6	37.41	2.327	3.03	0.00	0.15	2.78	1.00	1.00	0.00	3.96	17.59	0.00	508.2	0.0	560.32	682.20	1,242.52
15	172.6	37.80	7.003	8.65	0.00	0.18	2.68	1.00	1.00	0.00	11.70	45.76	0.00	1,373.7	0.0	1612.36	1766.16	3,378.51
16	187.5	38.35	6.700	5.94	0.00	0.16	2.73	1.00	1.00	0.00	10.08	34.24	0.00	988.1	0.0	1433.58	1305.93	2,739.51
														53,615.9	**0.0**			**71,687.92**

Section Forces

Structure:	CT01879-S-SBA	**Code:**	EIA/TIA-222-G	11/5/2021	
Site Name:	Clinton 4 CT	**Exposure:**	D		
Height:	195.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 8	

Tower Engineering Solutions

Load Case: 1.2D + 1.6W 60° Wind — 1.2D + 1.6W 105 mph Wind at 60° From Face

Wind Load Factor: 1.60 — **Wind Importance Factor:** 1.00

Dead Load Factor: 1.20

Ice Dead Load Factor: 0.00 — **Ice Importance Factor:** 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	5.0	24.71	22.379	14.40	0.00	0.16	2.74	0.80	1.00	0.00	23.99	64.69	0.00	4,852.4	0.0	2210.07	1552.98	3,763.05
2	15.0	24.72	15.237	14.40	0.00	0.13	2.83	0.80	1.00	0.00	18.10	64.69	0.00	4,102.6	0.0	1723.94	1553.32	3,277.26
3	30.0	27.88	28.213	41.18	0.00	0.17	2.72	0.80	1.00	0.00	40.13	129.38	0.00	7,824.2	0.0	4134.79	3504.65	7,639.44
4	45.0	29.92	13.208	20.59	0.00	0.17	2.69	0.80	1.00	0.00	19.44	64.69	0.00	3,817.0	0.0	2126.10	1880.35	4,006.45
5	55.0	30.98	12.642	20.59	0.00	0.18	2.67	0.80	1.00	0.00	19.05	64.69	0.00	3,757.1	0.0	2140.62	1947.13	4,087.76
6	65.0	31.90	12.188	16.14	0.00	0.16	2.72	0.80	1.00	0.00	16.62	64.69	0.00	3,602.1	0.0	1962.38	2004.53	3,966.91
7	75.0	32.70	11.639	16.14	0.00	0.17	2.70	0.80	1.00	0.00	16.24	64.42	0.00	3,542.9	0.0	1948.36	2046.37	3,994.73
8	90.0	33.75	21.896	32.28	0.00	0.18	2.65	0.80	1.00	0.00	31.59	128.29	0.00	6,208.9	0.0	3848.91	4206.70	8,055.61
9	103.3	34.57	5.694	6.19	0.00	0.14	2.82	0.80	1.00	0.00	7.27	42.71	0.00	1,680.8	0.0	965.73	1433.92	2,399.65
10	113.3	35.13	10.812	12.38	0.00	0.14	2.80	0.80	1.00	0.00	14.09	85.30	0.00	3,301.1	0.0	1882.36	2909.38	4,791.75
11	123.3	35.65	7.214	5.01	0.00	0.17	2.71	0.80	1.00	0.00	8.27	42.66	0.00	1,462.8	0.0	1087.59	1515.47	2,603.06
12	133.3	36.14	13.498	10.02	0.00	0.18	2.68	0.80	1.00	0.00	15.81	83.98	0.00	2,847.5	0.0	2081.66	3023.58	5,105.24
13	150.0	36.89	15.082	11.69	0.00	0.16	2.73	0.80	1.00	0.00	18.40	100.59	0.00	3,746.5	0.0	2519.72	3760.67	6,280.40
14	162.6	37.41	2.327	3.03	0.00	0.15	2.78	0.80	1.00	0.00	3.49	17.59	0.00	508.2	0.0	494.44	682.20	1,176.63
15	172.6	37.80	7.003	8.65	0.00	0.18	2.68	0.80	1.00	0.00	10.30	45.76	0.00	1,373.7	0.0	1419.34	1766.16	3,185.49
16	187.5	38.35	6.700	5.94	0.00	0.16	2.73	0.80	1.00	0.00	8.74	34.24	0.00	988.1	0.0	1242.96	1305.93	2,548.89
														53,615.9	**0.0**			**66,882.32**

Section Forces

Structure:	CT01879-S-SBA	**Code:**	EIA/TIA-222-G	11/5/2021	
Site Name:	Clinton 4 CT	**Exposure:**	D		
Height:	195.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 9	

Tower Engineering Solutions

Load Case: 1.2D + 1.6W 90° Wind — 1.2D + 1.6W 105 mph Wind at 90° From Face

Wind Load Factor: 1.60 — **Wind Importance Factor:** 1.00

Dead Load Factor: 1.20

Ice Dead Load Factor: 0.00 — **Ice Importance Factor:** 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	5.0	24.71	22.379	14.40	0.00	0.16	2.74	0.85	1.00	0.00	25.11	64.69	0.00	4,852.4	0.0	2313.14	1552.98	3,866.11
2	15.0	24.72	15.237	14.40	0.00	0.13	2.83	0.85	1.00	0.00	18.86	64.69	0.00	4,102.6	0.0	1796.50	1553.32	3,349.83
3	30.0	27.88	28.213	41.18	0.00	0.17	2.72	0.85	1.00	0.00	41.54	129.38	0.00	7,824.2	0.0	4280.13	3504.65	7,784.78
4	45.0	29.92	13.208	20.59	0.00	0.17	2.69	0.85	1.00	0.00	20.10	64.69	0.00	3,817.0	0.0	2198.34	1880.35	4,078.69
5	55.0	30.98	12.642	20.59	0.00	0.18	2.67	0.85	1.00	0.00	19.69	64.69	0.00	3,757.1	0.0	2211.64	1947.13	4,158.77
6	65.0	31.90	12.188	16.14	0.00	0.16	2.72	0.85	1.00	0.00	17.23	64.69	0.00	3,602.1	0.0	2034.33	2004.53	4,038.86
7	75.0	32.70	11.639	16.14	0.00	0.17	2.70	0.85	1.00	0.00	16.82	64.42	0.00	3,542.9	0.0	2018.18	2046.37	4,064.55
8	90.0	33.75	21.896	32.28	0.00	0.18	2.65	0.85	1.00	0.00	32.69	128.29	0.00	6,208.9	0.0	3982.29	4206.70	8,188.98
9	103.3	34.57	5.694	6.19	0.00	0.14	2.82	0.85	1.00	0.00	7.56	42.71	0.00	1,680.8	0.0	1003.54	1433.92	2,437.46
10	113.3	35.13	10.812	12.38	0.00	0.14	2.80	0.85	1.00	0.00	14.63	85.30	0.00	3,301.1	0.0	1954.58	2909.38	4,863.97
11	123.3	35.65	7.214	5.01	0.00	0.17	2.71	0.85	1.00	0.00	8.63	42.66	0.00	1,462.8	0.0	1135.05	1515.47	2,650.52
12	133.3	36.14	13.498	10.02	0.00	0.18	2.68	0.85	1.00	0.00	16.48	83.98	0.00	2,847.5	0.0	2170.55	3023.58	5,194.12
13	150.0	36.89	15.082	11.69	0.00	0.16	2.73	0.85	1.00	0.00	19.15	100.59	0.00	3,746.5	0.0	2623.00	3760.67	6,383.68
14	162.6	37.41	2.327	3.03	0.00	0.15	2.78	0.85	1.00	0.00	3.61	17.59	0.00	508.2	0.0	510.91	682.20	1,193.11
15	172.6	37.80	7.003	8.65	0.00	0.18	2.68	0.85	1.00	0.00	10.65	45.76	0.00	1,373.7	0.0	1467.59	1766.16	3,233.75
16	187.5	38.35	6.700	5.94	0.00	0.16	2.73	0.85	1.00	0.00	9.07	34.24	0.00	988.1	0.0	1290.62	1305.93	2,596.55
														53,615.9	**0.0**			**68,083.72**

Section Forces

Structure:	CT01879-S-SBA	**Code:**	EIA/TIA-222-G	11/5/2021	
Site Name:	Clinton 4 CT	**Exposure:**	D		
Height:	195.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 10	

Tower Engineering Solutions

Load Case: 0.9D + 1.6W Normal Wind — 0.9D + 1.6W 105 mph Wind at Normal To Face

Wind Load Factor: 1.60 — **Wind Importance Factor:** 1.00

Dead Load Factor: 0.90

Ice Dead Load Factor: 0.00 — **Ice Importance Factor:** 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	5.0	24.71	22.379	14.40	0.00	0.16	2.74	1.00	1.00	0.00	28.47	64.69	0.00	3,639.3	0.0	2622.33	1552.98	4,175.31
2	15.0	24.72	15.237	14.40	0.00	0.13	2.83	1.00	1.00	0.00	21.15	64.69	0.00	3,076.9	0.0	2014.20	1553.32	3,567.52
3	30.0	27.88	28.213	41.18	0.00	0.17	2.72	1.00	1.00	0.00	45.77	129.38	0.00	5,868.1	0.0	4716.14	3504.65	8,220.79
4	45.0	29.92	13.208	20.59	0.00	0.17	2.69	1.00	1.00	0.00	22.08	64.69	0.00	2,862.7	0.0	2415.06	1880.35	4,295.41
5	55.0	30.98	12.642	20.59	0.00	0.18	2.67	1.00	1.00	0.00	21.58	64.69	0.00	2,817.8	0.0	2424.68	1947.13	4,371.82
6	65.0	31.90	12.188	16.14	0.00	0.16	2.72	1.00	1.00	0.00	19.06	64.69	0.00	2,701.5	0.0	2250.18	2004.53	4,254.71
7	75.0	32.70	11.639	16.14	0.00	0.17	2.70	1.00	1.00	0.00	18.57	64.42	0.00	2,657.2	0.0	2227.64	2046.37	4,274.01
8	90.0	33.75	21.896	32.28	0.00	0.18	2.65	1.00	1.00	0.00	35.97	128.29	0.00	4,656.7	0.0	4382.41	4206.70	8,589.11
9	103.3	34.57	5.694	6.19	0.00	0.14	2.82	1.00	1.00	0.00	8.41	42.71	0.00	1,260.6	0.0	1116.97	1433.92	2,550.90
10	113.3	35.13	10.812	12.38	0.00	0.14	2.80	1.00	1.00	0.00	16.25	85.30	0.00	2,475.9	0.0	2171.24	2909.38	5,080.63
11	123.3	35.65	7.214	5.01	0.00	0.17	2.71	1.00	1.00	0.00	9.71	42.66	0.00	1,097.1	0.0	1277.42	1515.47	2,792.89
12	133.3	36.14	13.498	10.02	0.00	0.18	2.68	1.00	1.00	0.00	18.51	83.98	0.00	2,135.6	0.0	2437.20	3023.58	5,460.77
13	150.0	36.89	15.082	11.69	0.00	0.16	2.73	1.00	1.00	0.00	21.41	100.59	0.00	2,809.9	0.0	2932.84	3760.67	6,693.51
14	162.6	37.41	2.327	3.03	0.00	0.15	2.78	1.00	1.00	0.00	3.96	17.59	0.00	381.1	0.0	560.32	682.20	1,242.52
15	172.6	37.80	7.003	8.65	0.00	0.18	2.68	1.00	1.00	0.00	11.70	45.76	0.00	1,030.3	0.0	1612.36	1766.16	3,378.51
16	187.5	38.35	6.700	5.94	0.00	0.16	2.73	1.00	1.00	0.00	10.08	34.24	0.00	741.1	0.0	1433.58	1305.93	2,739.51
														40,211.9	**0.0**			**71,687.92**

Section Forces

Structure:	CT01879-S-SBA	**Code:**	EIA/TIA-222-G	11/5/2021	
Site Name:	Clinton 4 CT	**Exposure:**	D		
Height:	195.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 11	

Tower Engineering Solutions

Load Case: 0.9D + 1.6W 60° Wind — 0.9D + 1.6W 105 mph Wind at 60° From Face

Wind Load Factor: 1.60 — **Wind Importance Factor:** 1.00

Dead Load Factor: 0.90

Ice Dead Load Factor: 0.00 — **Ice Importance Factor:** 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	5.0	24.71	22.379	14.40	0.00	0.16	2.74	0.80	1.00	0.00	23.99	64.69	0.00	3,639.3	0.0	2210.07	1552.98	3,763.05
2	15.0	24.72	15.237	14.40	0.00	0.13	2.83	0.80	1.00	0.00	18.10	64.69	0.00	3,076.9	0.0	1723.94	1553.32	3,277.26
3	30.0	27.88	28.213	41.18	0.00	0.17	2.72	0.80	1.00	0.00	40.13	129.38	0.00	5,868.1	0.0	4134.79	3504.65	7,639.44
4	45.0	29.92	13.208	20.59	0.00	0.17	2.69	0.80	1.00	0.00	19.44	64.69	0.00	2,862.7	0.0	2126.10	1880.35	4,006.45
5	55.0	30.98	12.642	20.59	0.00	0.18	2.67	0.80	1.00	0.00	19.05	64.69	0.00	2,817.8	0.0	2140.62	1947.13	4,087.76
6	65.0	31.90	12.188	16.14	0.00	0.16	2.72	0.80	1.00	0.00	16.62	64.69	0.00	2,701.5	0.0	1962.38	2004.53	3,966.91
7	75.0	32.70	11.639	16.14	0.00	0.17	2.70	0.80	1.00	0.00	16.24	64.42	0.00	2,657.2	0.0	1948.36	2046.37	3,994.73
8	90.0	33.75	21.896	32.28	0.00	0.18	2.65	0.80	1.00	0.00	31.59	128.29	0.00	4,656.7	0.0	3848.91	4206.70	8,055.61
9	103.3	34.57	5.694	6.19	0.00	0.14	2.82	0.80	1.00	0.00	7.27	42.71	0.00	1,260.6	0.0	965.73	1433.92	2,399.65
10	113.3	35.13	10.812	12.38	0.00	0.14	2.80	0.80	1.00	0.00	14.09	85.30	0.00	2,475.9	0.0	1882.36	2909.38	4,791.75
11	123.3	35.65	7.214	5.01	0.00	0.17	2.71	0.80	1.00	0.00	8.27	42.66	0.00	1,097.1	0.0	1087.59	1515.47	2,603.06
12	133.3	36.14	13.498	10.02	0.00	0.18	2.68	0.80	1.00	0.00	15.81	83.98	0.00	2,135.6	0.0	2081.66	3023.58	5,105.24
13	150.0	36.89	15.082	11.69	0.00	0.16	2.73	0.80	1.00	0.00	18.40	100.59	0.00	2,809.9	0.0	2519.72	3760.67	6,280.40
14	162.6	37.41	2.327	3.03	0.00	0.15	2.78	0.80	1.00	0.00	3.49	17.59	0.00	381.1	0.0	494.44	682.20	1,176.63
15	172.6	37.80	7.003	8.65	0.00	0.18	2.68	0.80	1.00	0.00	10.30	45.76	0.00	1,030.3	0.0	1419.34	1766.16	3,185.49
16	187.5	38.35	6.700	5.94	0.00	0.16	2.73	0.80	1.00	0.00	8.74	34.24	0.00	741.1	0.0	1242.96	1305.93	2,548.89
														40,211.9	**0.0**			**66,882.32**

Section Forces

Structure:	CT01879-S-SBA	**Code:**	EIA/TIA-222-G	11/5/2021	
Site Name:	Clinton 4 CT	**Exposure:**	D		
Height:	195.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 12	

Tower Engineering Solutions

Load Case: 0.9D + 1.6W 90° Wind — 0.9D + 1.6W 105 mph Wind at 90° From Face

Wind Load Factor: 1.60 — **Wind Importance Factor:** 1.00

Dead Load Factor: 0.90

Ice Dead Load Factor: 0.00 — **Ice Importance Factor:** 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	5.0	24.71	22.379	14.40	0.00	0.16	2.74	0.85	1.00	0.00	25.11	64.69	0.00	3,639.3	0.0	2313.14	1552.98	3,866.11
2	15.0	24.72	15.237	14.40	0.00	0.13	2.83	0.85	1.00	0.00	18.86	64.69	0.00	3,076.9	0.0	1796.50	1553.32	3,349.83
3	30.0	27.88	28.213	41.18	0.00	0.17	2.72	0.85	1.00	0.00	41.54	129.38	0.00	5,868.1	0.0	4280.13	3504.65	7,784.78
4	45.0	29.92	13.208	20.59	0.00	0.17	2.69	0.85	1.00	0.00	20.10	64.69	0.00	2,862.7	0.0	2198.34	1880.35	4,078.69
5	55.0	30.98	12.642	20.59	0.00	0.18	2.67	0.85	1.00	0.00	19.69	64.69	0.00	2,817.8	0.0	2211.64	1947.13	4,158.77
6	65.0	31.90	12.188	16.14	0.00	0.16	2.72	0.85	1.00	0.00	17.23	64.69	0.00	2,701.5	0.0	2034.33	2004.53	4,038.86
7	75.0	32.70	11.639	16.14	0.00	0.17	2.70	0.85	1.00	0.00	16.82	64.42	0.00	2,657.2	0.0	2018.18	2046.37	4,064.55
8	90.0	33.75	21.896	32.28	0.00	0.18	2.65	0.85	1.00	0.00	32.69	128.29	0.00	4,656.7	0.0	3982.29	4206.70	8,188.98
9	103.3	34.57	5.694	6.19	0.00	0.14	2.82	0.85	1.00	0.00	7.56	42.71	0.00	1,260.6	0.0	1003.54	1433.92	2,437.46
10	113.3	35.13	10.812	12.38	0.00	0.14	2.80	0.85	1.00	0.00	14.63	85.30	0.00	2,475.9	0.0	1954.58	2909.38	4,863.97
11	123.3	35.65	7.214	5.01	0.00	0.17	2.71	0.85	1.00	0.00	8.63	42.66	0.00	1,097.1	0.0	1135.05	1515.47	2,650.52
12	133.3	36.14	13.498	10.02	0.00	0.18	2.68	0.85	1.00	0.00	16.48	83.98	0.00	2,135.6	0.0	2170.55	3023.58	5,194.12
13	150.0	36.89	15.082	11.69	0.00	0.16	2.73	0.85	1.00	0.00	19.15	100.59	0.00	2,809.9	0.0	2623.00	3760.67	6,383.68
14	162.6	37.41	2.327	3.03	0.00	0.15	2.78	0.85	1.00	0.00	3.61	17.59	0.00	381.1	0.0	510.91	682.20	1,193.11
15	172.6	37.80	7.003	8.65	0.00	0.18	2.68	0.85	1.00	0.00	10.65	45.76	0.00	1,030.3	0.0	1467.59	1766.16	3,233.75
16	187.5	38.35	6.700	5.94	0.00	0.16	2.73	0.85	1.00	0.00	9.07	34.24	0.00	741.1	0.0	1290.62	1305.93	2,596.55
														40,211.9	**0.0**			**68,083.72**

Section Forces

Structure:	CT01879-S-SBA	**Code:**	EIA/TIA-222-G	11/5/2021	
Site Name:	Clinton 4 CT	**Exposure:**	D		
Height:	195.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 13	

Tower Engineering Solutions

Load Case: 1.2D + 1.0Di + 1.0Wi Normal Wind — 1.2D + 1.0Di + 1.0Wi 50 mph Wind at Normal From Face

Wind Load Factor: 1.00
Dead Load Factor: 1.20
Ice Dead Load Factor: 1.00
Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	5.0	5.60	22.379	28.67	14.27	0.22	2.54	1.00	1.00	1.24	38.95	103.28	22.77	9,120.4	4268.0	470.64	498.42	969.06
2	15.0	5.60	15.237	29.92	15.52	0.20	2.59	1.00	1.00	1.39	32.43	106.16	25.42	8,271.1	4168.5	400.49	522.20	922.70
3	30.0	6.32	28.213	73.08	31.90	0.24	2.47	1.00	1.00	1.49	70.76	222.93	44.57	17,073.	9249.4	940.68	1197.44	2,138.11
4	45.0	6.78	13.208	36.50	15.91	0.25	2.43	1.00	1.00	1.55	34.57	112.79	23.21	8,570.4	4753.5	485.23	650.47	1,135.70
5	55.0	7.03	12.642	36.38	15.79	0.26	2.41	1.00	1.00	1.58	34.02	113.47	23.68	8,562.9	4805.8	488.69	677.11	1,165.80
6	65.0	7.23	12.188	31.71	15.57	0.25	2.44	1.00	1.00	1.61	30.74	114.05	24.08	8,280.4	4678.3	460.69	704.46	1,165.15
7	75.0	7.41	11.639	31.49	15.35	0.26	2.41	1.00	1.00	1.63	30.14	114.28	23.07	8,217.7	4674.8	457.28	715.07	1,172.35
8	90.0	7.65	21.896	68.89	36.62	0.30	2.29	1.00	1.00	1.66	63.18	229.32	44.22	15,723.	9514.4	942.58	1450.67	2,393.25
9	103.3	7.84	5.694	17.86	11.66	0.26	2.40	1.00	1.00	1.68	16.20	75.43	14.95	4,525.5	2844.7	258.91	495.80	754.71
10	113.3	7.97	10.812	35.14	22.76	0.28	2.36	1.00	1.00	1.70	31.62	149.98	30.16	8,957.0	5655.9	504.74	999.05	1,503.79
11	123.3	8.08	7.214	15.87	10.87	0.31	2.28	1.00	1.00	1.71	16.75	75.20	15.21	4,503.7	3040.9	262.54	504.43	766.97
12	133.3	8.20	13.498	31.20	21.18	0.32	2.23	1.00	1.00	1.72	32.44	149.42	27.79	8,796.3	5948.7	504.45	996.04	1,500.49
13	150.0	8.36	15.082	45.08	33.39	0.35	2.17	1.00	1.00	1.75	42.86	177.60	35.20	10,824.	7078.1	661.39	1263.73	1,925.13
14	162.6	8.48	2.327	10.93	7.90	0.35	2.17	1.00	1.00	1.76	9.05	30.90	6.67	1,784.5	1276.3	141.94	245.03	386.97
15	172.6	8.57	7.003	32.18	23.52	0.42	2.03	1.00	1.00	1.77	27.73	80.52	17.48	4,873.4	3499.7	410.02	618.30	1,028.31
16	187.5	8.70	6.700	28.97	23.03	0.43	2.00	1.00	1.00	1.78	25.56	57.39	13.98	3,834.4	2846.2	378.35	437.69	816.04
														131,919.0	**78303.1**			**19,744.55**

Section Forces

Structure:	CT01879-S-SBA	**Code:**	EIA/TIA-222-G	11/5/2021	
Site Name:	Clinton 4 CT	**Exposure:**	D		
Height:	195.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 14	

Tower Engineering Solutions

Load Case: 1.2D + 1.0Di + 1.0Wi 60° Wind — 1.2D + 1.0Di + 1.0Wi 50 mph Wind at 60° From Face

Wind Load Factor: 1.00
Dead Load Factor: 1.20
Ice Dead Load Factor: 1.00
Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	5.0	5.60	22.379	28.67	14.27	0.22	2.54	0.80	1.00	1.24	34.47	103.28	22.77	9,120.4	4268.0	416.55	498.42	914.97
2	15.0	5.60	15.237	29.92	15.52	0.20	2.59	0.80	1.00	1.39	29.39	106.16	25.42	8,271.1	4168.5	362.86	522.20	885.07
3	30.0	6.32	28.213	73.08	31.90	0.24	2.47	0.80	1.00	1.49	65.11	222.93	44.57	17,073.	9249.4	865.66	1197.44	2,063.10
4	45.0	6.78	13.208	36.50	15.91	0.25	2.43	0.80	1.00	1.55	31.93	112.79	23.21	8,570.4	4753.5	448.16	650.47	1,098.62
5	55.0	7.03	12.642	36.38	15.79	0.26	2.41	0.80	1.00	1.58	31.50	113.47	23.68	8,562.9	4805.8	452.37	677.11	1,129.48
6	65.0	7.23	12.188	31.71	15.57	0.25	2.44	0.80	1.00	1.61	28.30	114.05	24.08	8,280.4	4678.3	424.16	704.46	1,128.62
7	75.0	7.41	11.639	31.49	15.35	0.26	2.41	0.80	1.00	1.63	27.81	114.28	23.07	8,217.7	4674.8	421.96	715.07	1,137.03
8	90.0	7.65	21.896	68.89	36.62	0.30	2.29	0.80	1.00	1.66	58.80	229.32	44.22	15,723.	9514.4	877.25	1450.67	2,327.92
9	103.3	7.84	5.694	17.86	11.66	0.26	2.40	0.80	1.00	1.68	15.06	75.43	14.95	4,525.5	2844.7	240.71	495.80	736.51
10	113.3	7.97	10.812	35.14	22.76	0.28	2.36	0.80	1.00	1.70	29.46	149.98	30.16	8,957.0	5655.9	470.22	999.05	1,469.28
11	123.3	8.08	7.214	15.87	10.87	0.31	2.28	0.80	1.00	1.71	15.31	75.20	15.21	4,503.7	3040.9	239.93	504.43	744.36
12	133.3	8.20	13.498	31.20	21.18	0.32	2.23	0.80	1.00	1.72	29.74	149.42	27.79	8,796.3	5948.7	462.47	996.04	1,458.51
13	150.0	8.36	15.082	45.08	33.39	0.35	2.17	0.80	1.00	1.75	39.84	177.60	35.20	10,824.	7078.1	614.85	1263.73	1,878.58
14	162.6	8.48	2.327	10.93	7.90	0.35	2.17	0.80	1.00	1.76	8.59	30.90	6.67	1,784.5	1276.3	134.65	245.03	379.68
15	172.6	8.57	7.003	32.18	23.52	0.42	2.03	0.80	1.00	1.77	26.33	80.52	17.48	4,873.4	3499.7	389.31	618.30	1,007.61
16	187.5	8.70	6.700	28.97	23.03	0.43	2.00	0.80	1.00	1.78	24.22	57.39	13.98	3,834.4	2846.2	358.51	437.69	796.20
														131,919.0	**78303.1**			**19,155.53**

Section Forces

Structure:	CT01879-S-SBA	**Code:**	EIA/TIA-222-G	11/5/2021	
Site Name:	Clinton 4 CT	**Exposure:**	D		
Height:	195.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 15	

Tower Engineering Solutions

Load Case: 1.2D + 1.0Di + 1.0Wi 90° Wind — 1.2D + 1.0Di + 1.0Wi 50 mph Wind at 90° From Face

Wind Load Factor: 1.00 — **Wind Importance Factor:** 1.00

Dead Load Factor: 1.20

Ice Dead Load Factor: 1.00 — **Ice Importance Factor:** 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	5.0	5.60	22.379	28.67	14.27	0.22	2.54	0.85	1.00	1.24	35.59	103.28	22.77	9,120.4	4268.0	430.07	498.42	928.49
2	15.0	5.60	15.237	29.92	15.52	0.20	2.59	0.85	1.00	1.39	30.15	106.16	25.42	8,271.1	4168.5	372.27	522.20	894.47
3	30.0	6.32	28.213	73.08	31.90	0.24	2.47	0.85	1.00	1.49	66.52	222.93	44.57	17,073.	9249.4	884.42	1197.44	2,081.85
4	45.0	6.78	13.208	36.50	15.91	0.25	2.43	0.85	1.00	1.55	32.59	112.79	23.21	8,570.4	4753.5	457.42	650.47	1,107.89
5	55.0	7.03	12.642	36.38	15.79	0.26	2.41	0.85	1.00	1.58	32.13	113.47	23.68	8,562.9	4805.8	461.45	677.11	1,138.56
6	65.0	7.23	12.188	31.71	15.57	0.25	2.44	0.85	1.00	1.61	28.91	114.05	24.08	8,280.4	4678.3	433.29	704.46	1,137.75
7	75.0	7.41	11.639	31.49	15.35	0.26	2.41	0.85	1.00	1.63	28.39	114.28	23.07	8,217.7	4674.8	430.79	715.07	1,145.86
8	90.0	7.65	21.896	68.89	36.62	0.30	2.29	0.85	1.00	1.66	59.89	229.32	44.22	15,723.	9514.4	893.58	1450.67	2,344.25
9	103.3	7.84	5.694	17.86	11.66	0.26	2.40	0.85	1.00	1.68	15.35	75.43	14.95	4,525.5	2844.7	245.26	495.80	741.06
10	113.3	7.97	10.812	35.14	22.76	0.28	2.36	0.85	1.00	1.70	30.00	149.98	30.16	8,957.0	5655.9	478.85	999.05	1,477.91
11	123.3	8.08	7.214	15.87	10.87	0.31	2.28	0.85	1.00	1.71	15.67	75.20	15.21	4,503.7	3040.9	245.58	504.43	750.01
12	133.3	8.20	13.498	31.20	21.18	0.32	2.23	0.85	1.00	1.72	30.41	149.42	27.79	8,796.3	5948.7	472.96	996.04	1,469.00
13	150.0	8.36	15.082	45.08	33.39	0.35	2.17	0.85	1.00	1.75	40.60	177.60	35.20	10,824.	7078.1	626.48	1263.73	1,890.22
14	162.6	8.48	2.327	10.93	7.90	0.35	2.17	0.85	1.00	1.76	8.70	30.90	6.67	1,784.5	1276.3	136.47	245.03	381.50
15	172.6	8.57	7.003	32.18	23.52	0.42	2.03	0.85	1.00	1.77	26.68	80.52	17.48	4,873.4	3499.7	394.48	618.30	1,012.78
16	187.5	8.70	6.700	28.97	23.03	0.43	2.00	0.85	1.00	1.78	24.55	57.39	13.98	3,834.4	2846.2	363.47	437.69	801.16
														131,919.0	**78303.1**			**19,302.78**

Section Forces

Structure:	CT01879-S-SBA	**Code:**	EIA/TIA-222-G	11/5/2021	
Site Name:	Clinton 4 CT	**Exposure:**	D		
Height:	195.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 16	

Tower Engineering Solutions

Load Case: 1.0D + 1.0W Normal Wind — 1.0D + 1.0W 60 mph Wind at Normal To Face

Wind Load Factor: 1.00 — **Wind Importance Factor:** 1.00

Dead Load Factor: 1.00

Ice Dead Load Factor: 0.00 — **Ice Importance Factor:** 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	5.0	8.07	22.379	14.40	0.00	0.16	2.74	1.00	1.00	0.00	29.79	64.69	0.00	4,043.7	0.0	560.06	316.93	876.99
2	15.0	8.07	15.237	14.40	0.00	0.13	2.83	1.00	1.00	0.00	22.56	64.69	0.00	3,418.8	0.0	438.59	317.00	755.60
3	30.0	9.10	28.213	41.18	0.00	0.17	2.72	1.00	1.00	0.00	45.77	129.38	0.00	6,520.1	0.0	962.48	715.23	1,677.71
4	45.0	9.77	13.208	20.59	0.00	0.17	2.69	1.00	1.00	0.00	22.08	64.69	0.00	3,180.8	0.0	492.87	383.75	876.61
5	55.0	10.12	12.642	20.59	0.00	0.18	2.67	1.00	1.00	0.00	21.58	64.69	0.00	3,130.9	0.0	494.83	397.37	892.21
6	65.0	10.41	12.188	16.14	0.00	0.16	2.72	1.00	1.00	0.00	19.66	64.69	0.00	3,001.7	0.0	473.62	409.09	882.71
7	75.0	10.68	11.639	16.14	0.00	0.17	2.70	1.00	1.00	0.00	19.10	64.42	0.00	2,952.4	0.0	467.77	417.63	885.40
8	90.0	11.02	21.896	32.28	0.00	0.18	2.65	1.00	1.00	0.00	36.89	128.29	0.00	5,174.1	0.0	917.05	858.51	1,775.56
9	103.3	11.29	5.694	6.19	0.00	0.14	2.82	1.00	1.00	0.00	9.16	42.71	0.00	1,400.7	0.0	248.27	292.64	540.91
10	113.3	11.47	10.812	12.38	0.00	0.14	2.80	1.00	1.00	0.00	17.73	85.30	0.00	2,751.0	0.0	483.45	593.75	1,077.20
11	123.3	11.64	7.214	5.01	0.00	0.17	2.71	1.00	1.00	0.00	10.07	42.66	0.00	1,219.0	0.0	270.27	301.36	571.63
12	133.3	11.80	13.498	10.02	0.00	0.18	2.68	1.00	1.00	0.00	19.21	83.98	0.00	2,372.9	0.0	516.41	601.28	1,117.69
13	150.0	12.05	15.082	11.69	0.00	0.16	2.73	1.00	1.00	0.00	21.73	100.59	0.00	3,122.1	0.0	607.33	755.13	1,362.46
14	162.6	12.22	2.327	3.03	0.00	0.15	2.78	1.00	1.00	0.00	4.05	17.59	0.00	423.5	0.0	116.92	139.22	256.14
15	172.6	12.34	7.003	8.65	0.00	0.18	2.68	1.00	1.00	0.00	11.94	45.76	0.00	1,144.8	0.0	335.84	360.44	696.28
16	187.5	12.52	6.700	5.94	0.00	0.16	2.73	1.00	1.00	0.00	10.08	34.24	0.00	823.5	0.0	292.57	266.52	559.08
														44,679.9	**0.0**			**14,804.20**

Section Forces

Structure:	CT01879-S-SBA	**Code:**	EIA/TIA-222-G	11/5/2021	
Site Name:	Clinton 4 CT	**Exposure:**	D		
Height:	195.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 17	

Tower Engineering Solutions

Load Case: 1.0D + 1.0W 60° Wind — 1.0D + 1.0W 60 mph Wind at 60° From Face

Wind Load Factor: 1.00 — **Wind Importance Factor:** 1.00

Dead Load Factor: 1.00

Ice Dead Load Factor: 0.00 — **Ice Importance Factor:** 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	5.0	8.07	22.379	14.40	0.00	0.16	2.74	0.80	1.00	0.00	25.32	64.69	0.00	4,043.7	0.0	475.92	316.93	792.86
2	15.0	8.07	15.237	14.40	0.00	0.13	2.83	0.80	1.00	0.00	19.52	64.69	0.00	3,418.8	0.0	379.36	317.00	696.36
3	30.0	9.10	28.213	41.18	0.00	0.17	2.72	0.80	1.00	0.00	40.13	129.38	0.00	6,520.1	0.0	843.83	715.23	1,559.07
4	45.0	9.77	13.208	20.59	0.00	0.17	2.69	0.80	1.00	0.00	19.44	64.69	0.00	3,180.8	0.0	433.90	383.75	817.64
5	55.0	10.12	12.642	20.59	0.00	0.18	2.67	0.80	1.00	0.00	19.05	64.69	0.00	3,130.9	0.0	436.86	397.37	834.24
6	65.0	10.41	12.188	16.14	0.00	0.16	2.72	0.80	1.00	0.00	17.22	64.69	0.00	3,001.7	0.0	414.89	409.09	823.98
7	75.0	10.68	11.639	16.14	0.00	0.17	2.70	0.80	1.00	0.00	16.78	64.42	0.00	2,952.4	0.0	410.78	417.63	828.40
8	90.0	11.02	21.896	32.28	0.00	0.18	2.65	0.80	1.00	0.00	32.51	128.29	0.00	5,174.1	0.0	808.17	858.51	1,666.68
9	103.3	11.29	5.694	6.19	0.00	0.14	2.82	0.80	1.00	0.00	8.02	42.71	0.00	1,400.7	0.0	217.41	292.64	510.05
10	113.3	11.47	10.812	12.38	0.00	0.14	2.80	0.80	1.00	0.00	15.57	85.30	0.00	2,751.0	0.0	424.50	593.75	1,018.25
11	123.3	11.64	7.214	5.01	0.00	0.17	2.71	0.80	1.00	0.00	8.62	42.66	0.00	1,219.0	0.0	231.53	301.36	532.89
12	133.3	11.80	13.498	10.02	0.00	0.18	2.68	0.80	1.00	0.00	16.51	83.98	0.00	2,372.9	0.0	443.85	601.28	1,045.13
13	150.0	12.05	15.082	11.69	0.00	0.16	2.73	0.80	1.00	0.00	18.71	100.59	0.00	3,122.1	0.0	523.02	755.13	1,278.15
14	162.6	12.22	2.327	3.03	0.00	0.15	2.78	0.80	1.00	0.00	3.58	17.59	0.00	423.5	0.0	103.47	139.22	242.69
15	172.6	12.34	7.003	8.65	0.00	0.18	2.68	0.80	1.00	0.00	10.54	45.76	0.00	1,144.8	0.0	296.45	360.44	656.89
16	187.5	12.52	6.700	5.94	0.00	0.16	2.73	0.80	1.00	0.00	8.74	34.24	0.00	823.5	0.0	253.67	266.52	520.18
														44,679.9	**0.0**			**13,823.47**

Section Forces

Structure:	CT01879-S-SBA	**Code:**	EIA/TIA-222-G	11/5/2021	
Site Name:	Clinton 4 CT	**Exposure:**	D		
Height:	195.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 18	

Tower Engineering Solutions

Load Case: 1.0D + 1.0W 90° Wind — 1.0D + 1.0W 60 mph Wind at 90° From Face

Wind Load Factor: 1.00 — **Wind Importance Factor:** 1.00

Dead Load Factor: 1.00

Ice Dead Load Factor: 0.00 — **Ice Importance Factor:** 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	5.0	8.07	22.379	14.40	0.00	0.16	2.74	0.85	1.00	0.00	26.44	64.69	0.00	4,043.7	0.0	496.96	316.93	813.89
2	15.0	8.07	15.237	14.40	0.00	0.13	2.83	0.85	1.00	0.00	20.28	64.69	0.00	3,418.8	0.0	394.17	317.00	711.17
3	30.0	9.10	28.213	41.18	0.00	0.17	2.72	0.85	1.00	0.00	41.54	129.38	0.00	6,520.1	0.0	873.50	715.23	1,588.73
4	45.0	9.77	13.208	20.59	0.00	0.17	2.69	0.85	1.00	0.00	20.10	64.69	0.00	3,180.8	0.0	448.64	383.75	832.39
5	55.0	10.12	12.642	20.59	0.00	0.18	2.67	0.85	1.00	0.00	19.69	64.69	0.00	3,130.9	0.0	451.35	397.37	848.73
6	65.0	10.41	12.188	16.14	0.00	0.16	2.72	0.85	1.00	0.00	17.83	64.69	0.00	3,001.7	0.0	429.57	409.09	838.66
7	75.0	10.68	11.639	16.14	0.00	0.17	2.70	0.85	1.00	0.00	17.36	64.42	0.00	2,952.4	0.0	425.03	417.63	842.65
8	90.0	11.02	21.896	32.28	0.00	0.18	2.65	0.85	1.00	0.00	33.60	128.29	0.00	5,174.1	0.0	835.39	858.51	1,693.90
9	103.3	11.29	5.694	6.19	0.00	0.14	2.82	0.85	1.00	0.00	8.31	42.71	0.00	1,400.7	0.0	225.12	292.64	517.76
10	113.3	11.47	10.812	12.38	0.00	0.14	2.80	0.85	1.00	0.00	16.11	85.30	0.00	2,751.0	0.0	439.24	593.75	1,032.99
11	123.3	11.64	7.214	5.01	0.00	0.17	2.71	0.85	1.00	0.00	8.98	42.66	0.00	1,219.0	0.0	241.21	301.36	542.58
12	133.3	11.80	13.498	10.02	0.00	0.18	2.68	0.85	1.00	0.00	17.19	83.98	0.00	2,372.9	0.0	461.99	601.28	1,063.27
13	150.0	12.05	15.082	11.69	0.00	0.16	2.73	0.85	1.00	0.00	19.47	100.59	0.00	3,122.1	0.0	544.10	755.13	1,299.23
14	162.6	12.22	2.327	3.03	0.00	0.15	2.78	0.85	1.00	0.00	3.70	17.59	0.00	423.5	0.0	106.83	139.22	246.06
15	172.6	12.34	7.003	8.65	0.00	0.18	2.68	0.85	1.00	0.00	10.89	45.76	0.00	1,144.8	0.0	306.30	360.44	666.74
16	187.5	12.52	6.700	5.94	0.00	0.16	2.73	0.85	1.00	0.00	9.07	34.24	0.00	823.5	0.0	263.39	266.52	529.91
														44,679.9	**0.0**			**14,068.65**

Force/Stress Compression Summary

Structure:	CT01879-S-SBA	**Code:**	EIA/TIA-222-G	11/5/2021	
Site Name:	Clinton 4 CT	**Exposure:**	D		
Height:	195.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 19	

TES Tower Engineering Solutions

LEG MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	Fy (ksi)	Mem Cap (kips)	Leg Use %	Controls
1	10	PX - 8" DIA PIPE	-519.61	1.2D + 1.6W Normal Wind	9.64	50	50	50	20.10	50.00	557.49	93.2	Member X
2	20	PX - 8" DIA PIPE	-494.50	1.2D + 1.6W Normal Wind	9.64	100	100	100	40.20	50.00	510.21	96.9	Member X
3	40	MOD - 8"PST+5x5x3/8L	-465.96	1.2D + 1.6W Normal Wind	9.62	100	100	100	43.01	50.00	472.01	98.7	Member X
4	50	MOD - 8"PST+5x5x3/8L	-409.94	1.2D + 1.6W Normal Wind	9.64	100	100	100	43.13	50.00	471.68	86.9	Member X
5	60	MOD - 8"PST+5x5x3/8L	-380.96	1.2D + 1.6W Normal Wind	9.64	100	100	100	43.13	50.00	471.68	80.8	Member X
6	70	MOD - 6"PX+L4x4x3/8	-352.54	1.2D + 1.6W Normal Wind	9.64	100	100	100	56.38	50.00	401.71	87.8	Member X
7	80	MOD - 6"PX+L4x4x3/8	-323.04	1.2D + 1.6W Normal Wind	9.64	100	100	100	56.38	50.00	401.71	80.4	Member X
8	100	MOD - 6"PST+4x4x3/8L	-298.17	1.2D + 1.6W Normal Wind	6.43	100	100	100	37.83	50.00	342.05	87.2	Member X
9	106.6	PX - 5" DIA PIPE	-238.05	1.2D + 1.6W Normal Wind	6.31	100	100	100	41.12	50.00	242.97	98.0	Member X
10	120	PX - 5" DIA PIPE	-218.04	1.2D + 1.6W Normal Wind	6.68	100	100	100	43.54	50.00	239.36	91.1	Member X
11	126.6	PX - 4" DIA PIPE	-185.96	1.2D + 1.6W Normal Wind	0.38	50	50	50	1.52	50.00	198.42	93.7	Member X
12	140	PX - 4" DIA PIPE	-153.63	1.2D + 1.6W Normal Wind	6.68	50	50	50	27.07	50.00	188.10	81.7	Member X
13	160	PX - 3" DIA PIPE	-112.44	1.2D + 1.6W Normal Wind	4.82	100	100	100	50.74	50.00	112.58	99.9	Member X
14	165.1	PST - 3" DIA PIPE	-52.36	1.2D + 1.6W Normal Wind	4.82	100	100	100	49.87	50.00	83.66	62.6	Member X
15	180	PST - 3" DIA PIPE	-43.93	1.2D + 1.6W Normal Wind	4.82	100	100	100	49.87	50.00	83.67	52.5	Member X
16	195	PST - 2" DIA PIPE	-14.78	1.2D + 1.6W Normal Wind	5.00	100	100	100	76.24	50.00	31.48	47.0	Member X

HORIZONTAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	Use %	Controls
1	10										0.00	0	0				
2	20										0.00	0	0				
3	40										0.00	0	0				
4	50										0.00	0	0				
5	60										0.00	0	0				
6	70										0.00	0	0				
7	80										0.00	0	0				
8	100										0.00	0	0				
9	106.										0.00	0	0				
10	120										0.00	0	0				
11	126.										0.00	0	0				
12	140										0.00	0	0				
13	160										0.00	0	0				
14	165.										0.00	0	0				
15	180	SAE - 1.75X1.75X0.187[illegible]	-0.68	1.2D + 1.6W 60° Wind	5.00	100	100	100	174.92	36.00	4.58	1	1	15.19	9.79	15	Member Z
16	195	SAE - 1.75X1.75X0.187[illegible]	-0.53	0.9D + 1.6W 60° Wind	5.00	100	100	100	174.92	36.00	4.58	1	1	15.19	9.79	12	Member Z

DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	Use %	Controls
1	10	SAE - 4X4X0.375	-16.6	1.2D + 1.6W 90° Wind	24.46	48	48	48	178.77	36.00	20.22	1	1	21.86	20.2	82	Member Z
2	20	SAE - 4X4X0.375	-18.1	0.9D + 1.6W 90° Wind	23.57	48	48	48	172.32	36.00	21.76	1	1	21.86	21.5	84	Bolt Bear
3	40	SAE - 4X4X0.375	-17.1	1.2D + 1.6W 90° Wind	21.75	48	48	48	159.02	36.00	25.55	1	1	21.86	21.5	80	Bolt Bear
4	50	SAE - 4X4X0.375	-16.0	1.2D + 1.6W 90° Wind	20.84	48	48	48	152.33	36.00	27.85	1	1	21.86	21.5	75	Bolt Bear
5	60	SAE - 4X4X0.375	-16.3	1.2D + 1.6W 90° Wind	19.99	48	48	48	146.12	36.00	30.26	1	1	21.86	21.5	76	Bolt Bear
6	70	SAE - 4X4X0.375	-14.7	1.2D + 1.6W 90° Wind	19.09	48	48	48	139.53	36.00	33.19	1	1	21.86	21.5	68	Bolt Bear
7	80	SAE - 4X4X0.375	-15.3	1.2D + 1.6W 90° Wind	18.26	48	48	48	133.50	36.00	36.26	1	1	21.86	21.5	71	Bolt Bear
8	100	SAE - 3X3X0.375	-13.2	1.2D + 1.6W 90° Wind	15.99	48	48	48	156.87	36.00	19.37	1	1	21.86	21.5	68	Member Z
9	106.	SAE - 2.5X2.5X0.375	-12.1	1.2D + 1.6W 90° Wind	14.13	48	48	48	167.11	36.00	14.00	1	1	15.19	19.5	87	Member Z

Force/Stress Compression Summary

Structure:	CT01879-S-SBA	**Code:**	EIA/TIA-222-G	11/5/2021	
Site Name:	Clinton 4 CT	**Exposure:**	D		
Height:	195.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 20	

IES
Tower Engineering Solutions

DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	Use %	Controls
10	120	SAE - 2.5X2.5X0.375	-12.3	1.2D + 1.6W 90° Wind	13.15	48	48	48	155.52	36.00	16.16	1	1	15.19	19.5	81	Bolt Shear
11	126.	SAE - 2.5X2.5X0.25	-11.2	1.2D + 1.6W 90° Wind	12.37	46	46	46	139.06	36.00	13.90	1	1	15.19	13.0	86	Bolt Bear
12	140	SAE - 2.5X2.5X0.25	-10.7	1.2D + 1.6W 90° Wind	11.47	46	46	46	128.96	36.00	16.06	1	1	15.19	13.0	82	Bolt Bear
13	160	SAE - 2.5X2.5X0.375	-8.82	1.2D + 1.6W 90° Wind	9.96	49	49	49	120.29	36.00	26.17	1	1	15.19	19.5	58	Bolt Shear
14	165.	SAE - 1.75X1.75X0.187	-4.31	1.2D + 1.6W 90° Wind	8.27	49	49	49	141.75	36.00	6.97	1	1	15.19	9.79	62	Member Z
15	180	SAE - 1.75X1.75X0.187	-3.74	1.2D + 1.6W 90° Wind	7.88	49	49	49	135.11	36.00	7.67	1	1	15.19	9.79	49	Member Z
16	195	SAE - 1.75X1.75X0.187	-3.01	1.2D + 1.6W Normal Wind	7.07	50	50	50	123.69	36.00	8.98	1	1	15.19	9.79	34	Member Z

Force/Stress Tension Summary

Structure:	CT01879-S-SBA	**Code:**	EIA/TIA-222-G	11/5/2021	
Site Name:	Clinton 4 CT	**Exposure:**	D		
Height:	195.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 21	

Tower Engineering Solutions

LEG MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Leg Use %	Controls
1	10	PX - 8" DIA PIPE	472.64	0.9D + 1.6W 60° Wind	50	574.20	82.3	Member
2	20	PX - 8" DIA PIPE	437.53	0.9D + 1.6W 60° Wind	50	574.20	76.2	Member
3	40	MOD - 8"PST+5x5x3/8L	427.14	0.9D + 1.6W 60° Wind	50	540.39	79.0	Member
4	50	MOD - 8"PST+5x5x3/8L	378.59	0.9D + 1.6W 60° Wind	50	540.39	70.1	Member
5	60	MOD - 8"PST+5x5x3/8L	339.02	0.9D + 1.6W 60° Wind	50	540.39	62.7	Member
6	70	MOD - 6"PX+L4x4x3/8	328.13	0.9D + 1.6W 60° Wind	50	506.83	64.7	Member
7	80	MOD - 6"PX+L4x4x3/8	288.10	0.9D + 1.6W 60° Wind	50	506.83	56.8	Member
8	100	MOD - 6"PST+4x4x3/8L	276.65	0.9D + 1.6W 60° Wind	50	379.79	72.8	Member
9	106.67	PX - 5" DIA PIPE	222.55	0.9D + 1.6W 60° Wind	50	274.95	80.9	Member
10	120	PX - 5" DIA PIPE	194.01	0.9D + 1.6W 60° Wind	50	274.95	70.6	Member
11	126.66	PX - 4" DIA PIPE	164.80	0.9D + 1.6W 60° Wind	50	198.45	83.0	Member
12	140	PX - 4" DIA PIPE	135.64	0.9D + 1.6W 60° Wind	50	198.45	68.4	Member
13	160	PX - 3" DIA PIPE	105.59	0.9D + 1.6W 60° Wind	50	135.90	77.7	Member
14	165.18	PST - 3" DIA PIPE	49.91	0.9D + 1.6W 60° Wind	50	100.35	49.7	Member
15	180	PST - 3" DIA PIPE	37.82	0.9D + 1.6W 60° Wind	50	100.35	37.7	Member
16	195	PST - 2" DIA PIPE	11.84	0.9D + 1.6W 60° Wind	50	48.15	24.6	Member

HORIZONTAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	B.S. Cap (kips)	Use %	Controls
1	10	-			36	0.00	0	0					
2	20	-			36	0.00	0	0					
3	40	-			36	0.00	0	0					
4	50	-			36	0.00	0	0					
5	60	-			36	0.00	0	0					
6	70	-			36	0.00	0	0					
7	80	-			36	0.00	0	0					
8	100	-			36	0.00	0	0					
9	106.67	-			36	0.00	0	0					
10	120	-			36	0.00	0	0					
11	126.66	-			36	0.00	0	0					
12	140	-			36	0.00	0	0					
13	160	-			36	0.00	0	0					
14	165.18	-			36	0.00	0	0					
15	180	SAE - 1.75X1.75X0.1875	0.55	1.2D + 1.6W 90° Wind	36	15.64	1	1	15.19	9.79	7.50	7.3	Blck Shear
16	195	SAE - 1.75X1.75X0.1875	0.55	1.2D + 1.6W 90° Wind	36	15.64	1	1	15.19	9.79	7.50	7.3	Blck Shear

DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	B.S. Cap (kips)	Use %	Controls
1	10	SAE - 4X4X0.375	16.00	0.9D + 1.6W 90° Wind	36	82.60	1	1	21.86	20.24	24.55	79.0	Bolt Bear
2	20	SAE - 4X4X0.375	17.70	0.9D + 1.6W 90° Wind	36	82.60	1	1	21.86	21.53	24.93	82.2	Bolt Bear
3	40	SAE - 4X4X0.375	16.65	0.9D + 1.6W 90° Wind	36	82.60	1	1	21.86	21.53	24.93	77.3	Bolt Bear
4	50	SAE - 4X4X0.375	15.78	0.9D + 1.6W 90° Wind	36	82.60	1	1	21.86	21.53	24.93	73.3	Bolt Bear
5	60	SAE - 4X4X0.375	15.82	0.9D + 1.6W 90° Wind	36	82.60	1	1	21.86	21.53	24.93	73.5	Bolt Bear
6	70	SAE - 4X4X0.375	14.54	1.2D + 1.6W 90° Wind	36	82.60	1	1	21.86	21.53	24.93	67.5	Bolt Bear
7	80	SAE - 4X4X0.375	14.76	1.2D + 1.6W 90° Wind	36	82.60	1	1	21.86	21.53	24.93	68.5	Bolt Bear
8	100	SAE - 3X3X0.375	13.13	1.2D + 1.6W 90° Wind	36	58.13	1	1	21.86	21.53	20.85	63.0	Blck Shear
9	106.67	SAE - 2.5X2.5X0.375	11.97	1.2D + 1.6W 90° Wind	36	47.27	1	1	15.19	19.58	19.07	78.8	Bolt Shear
10	120	SAE - 2.5X2.5X0.375	12.10	1.2D + 1.6W 90° Wind	36	47.27	1	1	15.19	19.58	19.07	79.6	Bolt Shear

Force/Stress Tension Summary

Structure:	CT01879-S-SBA	**Code:**	EIA/TIA-222-G	11/5/2021	
Site Name:	Clinton 4 CT	**Exposure:**	D		
Height:	195.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 22	

Tower Engineering Solutions

DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	B.S. Cap (kips)	Use %	Controls
11	126.66	SAE - 2.5X2.5X0.25	11.04	1.2D + 1.6W 90° Wind	36	32.71	1	1	15.19	13.05	14.07	84.6	Bolt Bear
12	140	SAE - 2.5X2.5X0.25	10.47	1.2D + 1.6W 90° Wind	36	32.71	1	1	15.19	13.05	12.71	82.4	Blck Shear
13	160	SAE - 2.5X2.5X0.375	8.83	1.2D + 1.6W 90° Wind	36	47.27	1	1	15.19	19.58	19.07	58.1	Bolt Shear
14	165.18	SAE - 1.75X1.75X0.1875	4.38	1.2D + 1.6W 90° Wind	36	15.64	1	1	15.19	9.79	7.50	58.5	Blck Shear
15	180	SAE - 1.75X1.75X0.1875	4.30	1.2D + 1.6W 90° Wind	36	15.64	1	1	15.19	9.79	7.50	57.3	Blck Shear
16	195	SAE - 1.75X1.75X0.1875	2.82	0.9D + 1.6W 60° Wind	36	15.64	1	1	15.19	9.79	7.50	37.6	Blck Shear

Seismic Section Forces

Structure:	CT01879-S-SBA	**Code:**	EIA/TIA-222-G	11/5/2021	
Site Name:	Clinton 4 CT	**Exposure:**	D		
Height:	195.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 23	

Tower Engineering Solutions

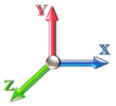
Load Case: 1.2D + 1.0E

Dead Load Factor	1.20	**Sds**	0.180	**Ss**	0.1690	**Fa**	1.6000	**Ke**	0.0000
Seismic Load Factor	1.00	**Sd1**	0.094	**S1**	0.0590	**Fv**	2.4000	**Kg**	0.0000
Seismic Importance Factor	1.00	**SA**	0.143	**R**	3.0000	**Vs**	3.3423	**f1**	1.5239

Sect #	Elev (ft)	Wz (lb)	a	b	c	Lateral Fsz (lb)
1	5.00	4043.6	0.00	0.03	0.01	8.18
2	15.00	3418.8	0.01	0.06	0.03	15.98
3	30.00	6520.1	0.04	0.07	0.04	47.19
4	45.00	3180.8	0.10	0.07	0.04	31.46
5	55.00	3130.9	0.15	0.07	0.03	37.71
6	65.00	3001.7	0.21	0.06	0.02	43.41
7	75.00	2962.4	0.28	0.05	0.01	50.27
8	90.00	5174.1	0.40	0.02	0.01	106.14
9	103.33	1610.6	0.53	-0.03	0.01	37.43
10	113.34	2750.9	0.64	-0.07	0.02	69.40
11	123.33	1218.9	0.76	-0.10	0.04	33.71
12	133.33	4247.0	0.88	-0.12	0.08	132.97
13	150.00	6427.2	1.12	-0.06	0.20	276.17
14	162.59	3942.6	1.31	0.14	0.35	233.33
15	172.59	1144.7	1.48	0.45	0.52	89.42
16	187.50	5292.5	1.75	1.31	0.89	624.06

Seismic Section Forces

Structure:	CT01879-S-SBA	**Code:**	EIA/TIA-222-G	11/5/2021	
Site Name:	Clinton 4 CT	**Exposure:**	D		
Height:	195.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 24	



TES Tower Engineering Solutions

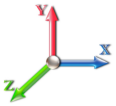
Load Case: 0.9D + 1.0E

Dead Load Factor	0.90	**Sds**	0.180	**Ss**	0.1690	**Fa**	1.6000	**Ke**	0.0000
Seismic Load Factor	1.00	**Sd1**	0.094	**S1**	0.0590	**Fv**	2.4000	**Kg**	0.0000
Seismic Importance Factor	1.00	**SA**	0.143	**R**	3.0000	**Vs**	3.3423	**f1**	1.5239

Sect #	Elev (ft)	Wz (lb)	a	b	c	Lateral Fsz (lb)
1	5.00	4043.6	0.00	0.03	0.01	8.18
2	15.00	3418.8	0.01	0.06	0.03	15.98
3	30.00	6520.1	0.04	0.07	0.04	47.19
4	45.00	3180.8	0.10	0.07	0.04	31.46
5	55.00	3130.9	0.15	0.07	0.03	37.71
6	65.00	3001.7	0.21	0.06	0.02	43.41
7	75.00	2962.4	0.28	0.05	0.01	50.27
8	90.00	5174.1	0.40	0.02	0.01	106.14
9	103.33	1610.6	0.53	-0.03	0.01	37.43
10	113.34	2750.9	0.64	-0.07	0.02	69.40
11	123.33	1218.9	0.76	-0.10	0.04	33.71
12	133.33	4247.0	0.88	-0.12	0.08	132.97
13	150.00	6427.2	1.12	-0.06	0.20	276.17
14	162.59	3942.6	1.31	0.14	0.35	233.33
15	172.59	1144.7	1.48	0.45	0.52	89.42
16	187.50	5292.5	1.75	1.31	0.89	624.06

Support Forces Summary

Structure:	CT01879-S-SBA	**Code:**	EIA/TIA-222-G	11/5/2021	
Site Name:	Clinton 4 CT	**Exposure:**	D		
Height:	195.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 25	



Tower Engineering Solutions

Load Case	Node	FX (kips)	FY (kips)	FZ (kips)	(-) = Uplift (+) = Down
1.2D + 1.6W Normal Wind	1	0.00	532.31	-56.82	
	1a	19.83	-231.31	-18.74	
	1b	-19.83	-231.31	-18.74	
1.2D + 1.6W 60° Wind	1	-5.91	267.51	-27.74	
	1a	-26.86	267.05	8.94	
	1b	-44.73	-464.88	-25.94	
1.2D + 1.6W 90° Wind	1	-7.00	23.34	-1.30	
	1a	-42.89	450.21	20.99	
	1b	-40.80	-403.87	-19.68	
0.9D + 1.6W Normal Wind	1	0.00	525.81	-56.44	
	1a	20.14	-236.77	-18.93	
	1b	-20.14	-236.77	-18.93	
0.9D + 1.6W 60° Wind	1	-5.92	261.36	-27.37	
	1a	-26.54	260.94	8.75	
	1b	-45.04	-470.03	-26.12	
0.9D + 1.6W 90° Wind	1	-7.01	17.51	-0.94	
	1a	-42.56	443.86	20.80	
	1b	-41.12	-409.11	-19.86	
1.2D + 1.0Di + 1.0Wi Normal Wind	1	0.00	186.94	-13.72	
	1a	6.09	-11.05	-5.36	
	1b	-6.09	-11.05	-5.36	
1.2D + 1.0Di + 1.0Wi 60° Wind	1	-1.57	119.86	-6.34	
	1a	-6.24	119.46	1.85	
	1b	-12.86	-74.49	-7.45	
1.2D + 1.0Di + 1.0Wi 90° Wind	1	-1.83	55.15	0.73	
	1a	-10.45	167.35	5.03	
	1b	-11.74	-57.67	-5.76	
1.2D + 1.0E	1	0.00	36.63	6.55	
	1a	7.14	16.52	-4.17	
	1b	-7.14	16.52	-4.17	
0.9D + 1.0E	1	0.00	30.81	6.93	
	1a	7.47	10.73	-4.37	
	1b	-7.47	10.73	-4.37	
1.0D + 1.0W Normal Wind	1	0.00	123.75	-12.66	
	1a	3.24	-32.84	-3.37	
	1b	-3.24	-32.84	-3.37	
1.0D + 1.0W 60° Wind	1	-1.23	69.56	-6.67	
	1a	-6.37	69.37	2.31	
	1b	-8.37	-80.87	-4.85	
1.0D + 1.0W 90° Wind	1	-1.45	19.44	-1.23	
	1a	-9.67	106.96	4.80	
	1b	-7.56	-68.34	-3.57	

Max Reactions

Leg			Overturning		
Max Uplift:	-470.03	(kips)	Moment:	10140.15	(ft-kips)
Max Down:	532.31	(kips)	Total Down:	69.68	(kips)
Max Shear:	56.82	(kips)	Total Shear:	94.29	(kips)

Analysis Summary

Structure:	CT01879-S-SBA		**Code:**	EIA/TIA-222-G	11/5/2021
Site Name:	Clinton 4 CT		**Exposure:**	D	
Height:	195.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	0.85	**Topography:** 1	**Struct Class:**	II	Page: 27

Tower Engineering Solutions

Max Reactions

Leg			Overturning		
Max Uplift:	-470.03	(kips)	Moment:	10140.15	(ft-kips)
Max Down:	532.31	(kips)	Total Down:	69.68	(kips)
Max Shear:	56.82	(kips)	Total Shear:	94.29	(kips)

Anchor Bolts

Bolt Size (in.):	1.50	Number Bolts:	8
Yield Strength (Ksi):	105.00	Tensile Strength (Ksi):	125.00
Detail Type:	C		

Interaction Ratio: 0.51

Max Usages

Max Leg: 99.9% (1.2D + 1.6W Normal Wind - Sect 13)
Max Diag: 86.6% (1.2D + 1.6W 90° Wind - Sect 9)
Max Horiz: 14.8% (1.2D + 1.6W 60° Wind - Sect 15)

Max Deflection, Twist and Sway

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)
0.9D + 1.0E - Normal To Face	79.63	0.0069	0.0000	0.0155
	100.38	0.0135	0.0000	0.0228
	126.67	0.0292	0.0017	0.0308
	140.38	0.0373	0.0022	0.0417
	150.00	0.0440	0.0025	0.0448
	160.38	0.0526	-0.0033	0.0635
	180.00	0.0720	0.0043	0.0705
	185.00	0.0761	0.0000	0.0643
	190.00	0.0834	-0.0037	0.0688
	195.00	0.0891	0.0036	0.0671
0.9D + 1.6W 105 mph Wind at 60° From Face	79.63	0.3535	0.0036	0.5501
	100.38	0.5587	0.0135	0.6980
	126.67	0.9091	0.0659	0.8835
	140.38	1.1405	0.0863	1.1636
	150.00	1.3217	0.0967	1.1668
	160.38	1.5411	0.1229	1.5592
	180.00	1.9983	0.2540	1.5831
	185.00	2.1207	0.3698	1.2285
	190.00	2.2476	0.3891	1.5689
	195.00	2.3746	0.3825	1.4521

0.9D + 1.6W 105 mph Wind at 90° From Face	79.63	0.3568	-0.0220	0.5413
	100.38	0.5638	-0.0252	0.6849
	126.67	0.9160	0.0506	0.8869
	140.38	1.1494	-0.0688	1.1376
	150.00	1.3331	0.0745	1.1669
	160.38	1.5531	0.0893	1.5440
	180.00	2.0139	0.1016	1.5818
	185.00	2.1366	-0.0293	0.7535
	190.00	2.2639	0.1003	1.6629
	195.00	2.3918	0.1004	1.4588
0.9D + 1.6W 105 mph Wind at Normal To Face	79.63	0.3685	0.0164	0.6080
	100.38	0.5815	0.0256	0.7733
	126.67	0.9428	0.0255	0.9140
	140.38	1.1828	0.0254	1.2516
	150.00	1.3712	0.0288	1.2105
	160.38	1.5974	0.0493	1.6239
	180.00	2.0706	0.0738	1.5648
	185.00	2.1978	0.0248	2.0865
	190.00	2.3292	0.0747	1.5265
	195.00	2.4610	0.0744	1.5975
1.0D + 1.0W 60 mph Wind at 60° From Face	79.63	0.0727	-0.0027	0.1124
	100.38	0.1149	-0.0026	0.1430
	126.67	0.1865	0.0111	0.1806
	140.38	0.2341	0.0141	0.2399
	150.00	0.2714	0.0159	0.2397
	160.38	0.3162	0.0202	0.3223
	180.00	0.4100	0.0244	0.3266
	185.00	0.4352	0.0108	0.2491
	190.00	0.4611	0.0239	0.3208
	195.00	0.4871	0.0238	0.2982
1.0D + 1.0W 60 mph Wind at 90° From Face	79.63	0.0733	-0.0045	0.1112
	100.38	0.1158	-0.0052	0.1407
	126.67	0.1880	0.0100	0.1818
	140.38	0.2359	-0.0141	0.2336
	150.00	0.2736	0.0144	0.2395
	160.38	0.3187	0.0168	0.3166
	180.00	0.4131	0.0189	0.3240
	185.00	0.4383	-0.0060	0.1549
	190.00	0.4643	0.0185	0.3405
	195.00	0.4906	0.0184	0.2994
1.0D + 1.0W 60 mph Wind at Normal To Face	79.63	0.0758	0.0032	0.1238
	100.38	0.1195	0.0050	0.1582
	126.67	0.1937	0.0048	0.1873
	140.38	0.2427	0.0046	0.2546
	150.00	0.2812	0.0055	0.2473
	160.38	0.3275	0.0098	0.3294
	180.00	0.4244	0.0144	0.3208
	185.00	0.4508	0.0033	0.4282
	190.00	0.4774	0.0139	0.3131
	195.00	0.5043	0.0137	0.3264
1.2D + 1.0Di + 1.0Wi 50 mph Wind at 60° From Face	79.63	0.0931	-0.0036	0.1440
	100.38	0.1472	-0.0036	0.1832
	126.67	0.2402	0.0144	0.2297
	140.38	0.3003	0.0184	0.3046
	150.00	0.3473	0.0208	0.3042
	160.38	0.4043	0.0261	0.4080
	180.00	0.5232	0.0315	0.4185
	185.00	0.5547	0.0349	0.3220
	190.00	0.5878	0.0364	0.4131
	195.00	0.6210	0.0357	0.3787

1.2D + 1.0Di + 1.0Wi 50 mph Wind at 90° From Face	79.63	0.0940	-0.0065	0.1423
	100.38	0.1482	-0.0077	0.1790
	126.67	0.2405	0.0128	0.2299
	140.38	0.3008	0.0170	0.2951
	150.00	0.3479	0.0184	0.3022
	160.38	0.4049	0.0214	0.3984
	180.00	0.5238	0.0241	0.4142
	185.00	0.5555	0.0016	0.1499
	190.00	0.5883	0.0237	0.4416
	195.00	0.6214	0.0237	0.3775
1.2D + 1.0Di + 1.0Wi 50 mph Wind at Normal From Face	79.63	0.0944	0.0027	0.1552
	100.38	0.1496	0.0042	0.1993
	126.67	0.2438	0.0048	0.2343
	140.38	0.3053	0.0046	0.3152
	150.00	0.3534	0.0067	0.3077
	160.38	0.4112	0.0119	0.4070
	180.00	0.5324	0.0176	0.4030
	185.00	0.5650	0.0030	0.5870
	190.00	0.5988	0.0172	0.3939
	195.00	0.6327	0.0171	0.4154
1.2D + 1.0E - Normal To Face	79.63	0.0069	0.0000	0.0153
	100.38	0.0136	0.0000	0.0228
	126.67	0.0292	0.0017	0.0309
	140.38	0.0374	0.0022	0.0415
	150.00	0.0441	0.0025	0.0449
	160.38	0.0527	0.0033	0.0635
	180.00	0.0721	0.0043	0.0705
	185.00	0.0764	0.0000	0.0649
	190.00	0.0835	0.0037	0.0694
	195.00	0.0893	0.0036	0.0676
1.2D + 1.6W 105 mph Wind at 60° From Face	79.63	0.3540	0.0036	0.5510
	100.38	0.5596	0.0135	0.6993
	126.67	0.9107	0.0661	0.8854
	140.38	1.1426	0.0866	1.1667
	150.00	1.3244	0.0970	1.1699
	160.38	1.5443	0.1231	1.5642
	180.00	2.0027	0.2543	1.5885
	185.00	2.1254	0.3704	1.2324
	190.00	2.2527	0.3899	1.5730
	195.00	2.3801	0.3832	1.4565
1.2D + 1.6W 105 mph Wind at 90° From Face	79.63	0.3573	-0.0221	0.5422
	100.38	0.5647	-0.0253	0.6862
	126.67	0.9176	0.0507	0.8888
	140.38	1.1516	-0.0690	1.1402
	150.00	1.3357	0.0747	1.1697
	160.38	1.5563	0.0895	1.5480
	180.00	2.0183	0.1019	1.5861
	185.00	2.1413	-0.0297	0.7574
	190.00	2.2689	0.1006	1.6671
	195.00	2.3972	0.1007	1.4631
1.2D + 1.6W 105 mph Wind at Normal To Face	79.63	0.3691	0.0164	0.6088
	100.38	0.5825	0.0256	0.7748
	126.67	0.9445	0.0255	0.9161
	140.38	1.1851	0.0254	1.2544
	150.00	1.3739	0.0291	1.2135
	160.38	1.6007	0.0496	1.6282
	180.00	2.0752	0.0742	1.5689
	185.00	2.2028	0.0248	2.0910
	190.00	2.3346	0.0752	1.5312
	195.00	2.4667	0.0749	1.6016

Pier Foundation For Self Supporting Tower

			Date: 11/5/2021
Customer Name:	SBA Communications Corp	EIA/TIA Standard:	EIA-222-G
Site Name:		Structure Height (Ft.):	195
Site Number:	CT01879-S-SBA	Engineer Name:	Rama K.
Engr. Number:	118544	Engineer Login ID:	

Foundation Info Obtained from: Drawings/Calculations

Structure Type: Self Supporting Tower

Analysis or Design? Analysis

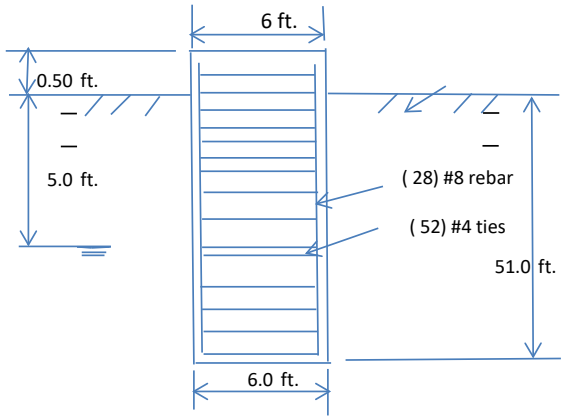
Acceptable overstress (↑ 5.0%

Base Reactions (Factored):

Axial Load (Kips):	532.3	Shear Force (Kips):	56.8
Uplift Force (Kips):	470.0	Moment (Kips-ft):	0.0

Foundation Geometries:

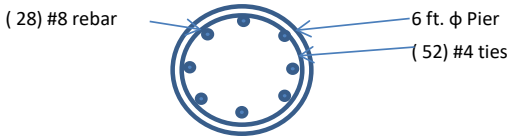
Diameter of Pier (ft.):	6.0	Depth of Base B. G. S. :	51.0	ft.
Pier Height A. G. (ft.):	0.50			



Material Properties and Reabr Info:

Concrete Strength (psi):	3000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield strength:	60	ksi
Vertical Rebar Size #:	8	Tie / Stirrup Size #:	4	
Qty. of Vertical Rebars:	28	Tie Spacing:	12.0	in.
Concrete Cover (in.):	3	Concrete unit weight:	150.0	pcf

Consider ties in concrete shear strength? Yes



SST Pier Foundation

Soil Design Parameters:

Water Table B.G.S. (ft):	5.0	Unit weight of water:	62.4	psf
Ratio of Uplift/Axial Skin Friction:	1.00	Pullout failure Angle:	30	(°)

Skin Frictions are to be obtained from: Calculations

Please Enter Ultimate End Bearing Pressure (psf): 10000

Kc = 1.15 For Sand — Kt = 0.7 For Sand and Silt

Kc = 1.0 Silt/Clay — Kt = 0.85 For Clay

Friction δ Between Pier & Soil = 0.95

Depth of Layers (ft) Top	Bottom	γ_{soil} (pcf)	ϕ (°)	Cohesion (psf)			Soil Types	Ultimate Uplift Skin Friction (psf)	Ultimate Axial Skin Friction (psf)		Kc	Kt	α
0.0	3.0	100	0	0	0	0	Sand				1.15	0.70	
3.0	52.0	120	30	0		10000	Sand	724.3	1189.9		1.15	0.70	
52.0	57.0	120	30	0		10000	Sand	790.4	1298.5		1.15	0.70	

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

Foundation Analysis and Design:

Uplift Strength Reduction Factor:	0.75	Soil Bearing Strength Reduction Factor:	0.75	
Total Dry Soil Volume from Conical Failure (cu. Ft.):	14952	Dry Soil Weight from Conical Failure:	1615	Kips
Total Buoyant Soil Volume from Conical Failure (cu. Ft.):	45491	Buoyant Soil Weight from Conical Failure (Ki	3439	Kips
Total Dry Concrete Volume (cu. Ft.):	156	Total Dry Concrete Weight:	23.33	Kips
Total Buoyant Concrete Volume (cu. Ft.):	1301	Total Buoyant Concrete Weight:	113.93	Kips
Total Effective Concrete Weight (Kips):	137.3	Total Effective Soil Weight:	5054	Kips
Total Effective Vertical Load on Base (Kips):	561			

TES Engr. Number: 118544 Page 2/2 Date: 11/5/2021

Check Soil Capacities:

					Usage	
Calculated Foundation Allowable Axail Capacity (Kips):	1019	>	Design Factored Axial Load (Kips):	561	0.55	OK!
Calculated Foundation Uplift Capacity (Kips):	615	>	Design Factored Uplift Load (Kips):	470	0.76	OK!

Check the capacities of Reinforceing Concrete:

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

Reinforcing Concrete Pier:					Usage	
Vertical Steel Rebar Area (sq. in./each):	0.79		Tie / Stirrup Area (sq. in./each):	0.20		
Calculated Moment Capacity (Mn,Kips-Ft):	1956	>	Design Factored Moment (Mu, K-Ft):	316.5	0.16	OK!
Calculated Shear Capacity (Kips):	333.6	>	Design Factored Shear (Kips):	56.8	0.17	OK!
Calculated Tension Capacity (Tn, Kips):	1194.5	>	Design Factored Tension (Tu Kips):	470.0	0.39	OK!
Calculated Compression Capacity (Pn, Kips):	5369	>	Design Factored Axial Load (Pu Kips):	532.3	0.10	OK!
Moment & Tension Strength Combination:	0.16	OK!	Max. Allowable Tie/Stirrup Spacing:	12.00	in.	
Pier Reinforcement Ratio:	0.005	Reinforcement Ratio is satisfied per ACI				

Reinforce Pier Foundation by Adding Concrete Block (Yes/No ?) No

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

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10063412
Maser Consulting Connecticut Project #: 20777640A

May 20, 2021

Site Information	*Site ID:*	*469265-VZW / Clinton S CT*
	Site Name:	*Clinton S CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*46 Meadow Rd.* *Clinton, Connecticut 06413* *Middlesex County*
	Latitude:	*41.275206°*
	Longitude:	*-72.497711°*
Structure Information	*Tower Type:*	*195.00-Ft Self Support*
	Mount Type:	*12.33-Ft Sector Mount*

FUZE ID # 16244734

Analysis Results

Sector Mount: **65.0% 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: Nathan LaPorte

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
Radio Frequency Data Sheet (RFDS)	*Verizon RFDS Site ID: 674861, dated March 9, 2021*
Mount Mapping Report	*Hudson Design Group, LLC, Site ID: 469265, dated February 9, 2021*
Construction Drawings	*Centerline Communications, Site Name: Clinton S CT, Dated March 26, 2021*
Previous Mount Analysis	*Maser Consulting Project #: 20777640A, dated April 13, 2021*
Mount Modification Drawings	*Maser Consulting Project #: 20777640A, dated May 20, 2021*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	124 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	D
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	1.000
Seismic Parameters:	S_S:	0.203
	S_1:	0.053
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, Lv:	250 lbs.
	Maintenance Live Load, Lm:	500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
162.00	162.00	6	JMA Wireless	MX06FRO660-03	Added
		3	Samsung	MT6407-77A	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		2	Amphenol Antel	LPA-80063-4CF-EDIN-4	Retained
		2	Amphenol Antel	LPA-80063-4CF-EDIN-6	
		2	Amphenol Antel	LPA-80063	
		2	Raycaps	RRFDC-3315-PF-48*	

* Equipment to be flush mounted directly to the Self Support tower. They are not mounted on the sector mounts and are not included in this mount analysis.

Any proposed antennas not currently installed should be mounted such that the centerline of the antennas does not exceed 6 inches vertically from the center of the antenna mounts.

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

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

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Maser Consulting 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 to verify deviation will not adversely impact the analysis.

2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Maser Consulting Connecticut, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
   - Channel, Solid Round, Angle, Plate — ASTM A36 (Gr. 36)
   - HSS (Rectangular) — ASTM 500 (Gr. B-46)
   - Pipe — ASTM A53 (Gr. B-35)
   - Threaded Rod — F1554 (Gr. 36)
   - Bolts — ASTM A325

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
Face Angle	56.9 %	Pass
End Angle	9.7 %	Pass
V-Frame	34.2 %	Pass
Standoff Arm	19.9 %	Pass
Antenna Pipe	37.1 %	Pass
Face Bracing	20.2 %	Pass
Mast Pipe	21.3 %	Pass
Threaded Rods	65.0 %	Pass
Tieback	12.3 %	Pass
Secondary Face Horizontal	30.8 %	Pass
V-Brace	35.4 %	Pass
Mount Connection	59.2 %	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**65.0%**

Recommendation:

The existing mounts 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:

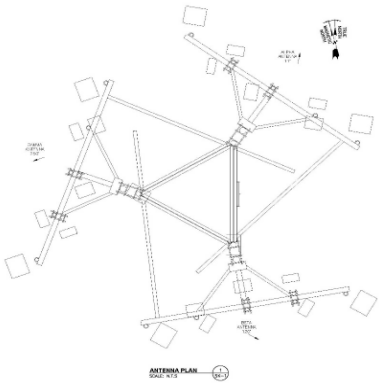
1. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
4. **Contractor Required PMI Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption and Wind Speed Usage Letter

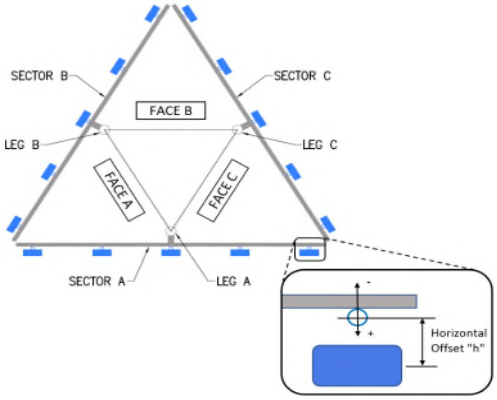
V3.0 Updated on 8-31-2020

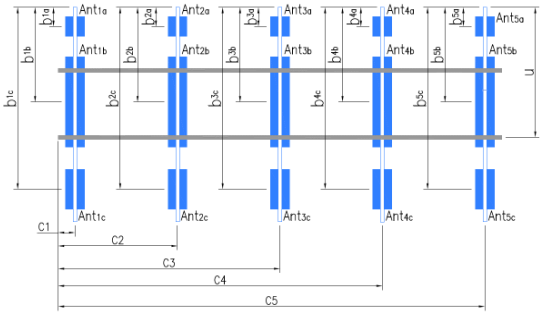
Antenna Mount Mapping Form (PATENT PENDING)

FCC # 1233741

Tower Owner:	SBA TOWERS	**Mapping Date:**	02.09.21
Site Name:	CLINTON SOUTH ST	**Tower Type:**	Self Support
Site Number or ID:	469265	**Tower Height (Ft.):**	195
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	**Mount Elevation (Ft.):**	161.3







Antenna Layout (Looking Out From Tower)

Mount Pipe Configuration and Geometries [Unit = Inches]

Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	Pipe 2" STD. x 72" LONG	62.00	3.00	C1	Pipe 2" STD. x 72" LONG	62.00	3.00
A2	Pipe 2" STD. x 84" LONG	62.00	39.00	C2	Pipe 2" STD. x 84" LONG	62.00	39.00
A3	Pipe 2" STD. x 72" LONG	58.00	73.00	C3	Pipe 2" STD. x 72" LONG	58.00	73.00
A4	Pipe 2" STD. x 72" LONG	58.00	109.00	C4	Pipe 2" STD. x 72" LONG	58.00	109.00
A5	Pipe 2" STD. x 72" LONG	58.00	145.00	C5	Pipe 2" STD. x 72" LONG	58.00	145.00
A6				C6			
B1	Pipe 2" STD. x 72" LONG	62.00	3.00	D1			
B2	Pipe 2" STD. x 84" LONG	62.00	39.00	D2			
B3	Pipe 2" STD. x 72" LONG	58.00	73.00	D3			
B4	Pipe 2" STD. x 72" LONG	58.00	109.00	D4			
B5	Pipe 2" STD. x 72" LONG	58.00	145.00	D5			
B6				D6			

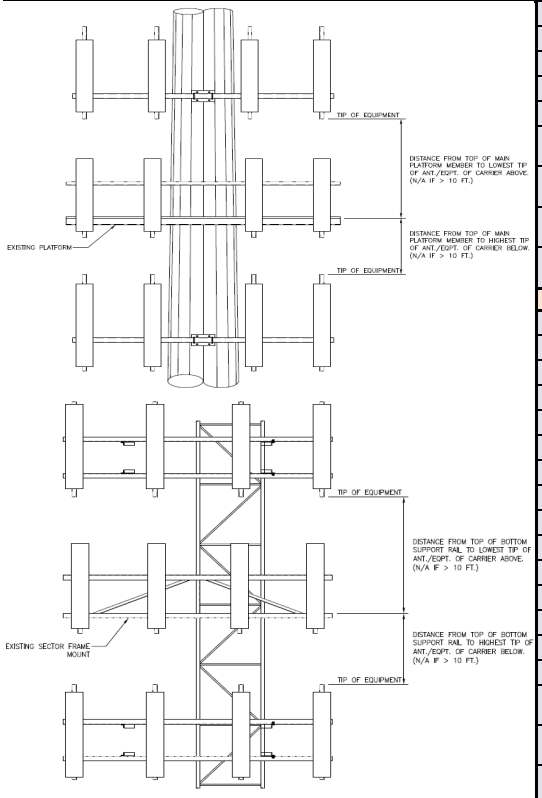
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :	18.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	14
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	0.5
Please enter additional infomation or comments below.	

Tower Face Width at Mount Elev. (ft.):	6.5	Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	3.5

	Enter antenna model. If not labeled, enter "Unknown".						Mounting Locations [Units are inches and degrees]			Photos of antennas
Ants. Items	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances"b_{1a}, b_{2a}, b_{3a}, b_{1b}...." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
Sector A										
Ant_{1a}										
Ant_{1b}	AMPHENOL	15.00	13.00	48.00		160.3	56.00	14.50	11.00	70
Ant_{1c}										
Ant_{2a}	B4 RRH 2x60-4R	11.50	5.50	36.00		159.383	67.00	-12.00		70
Ant_{2b}	SBNHH-1D65B	12.00	7.00	73.00		159.967	60.00	9.00	11.00	70
Ant_{2c}										
Ant_{3a}	B13 RHH 4x30	12.00	9.00	21.50		159.633	60.00	-12.00		70
Ant_{3b}										
Ant_{3c}										
Ant_{4a}	B25 RRH 4x30	12.00	9.00	22.00		158.883	69.00	-6.00		71
Ant_{4b}	SBNHH-1D65B	12.00	7.00	73.00		159.717	59.00	9.00	11.00	71
Ant_{4c}										
Ant_{5a}										
Ant_{5b}	AMPHENOL	15.00	13.00	48.00		159.967	56.00	14.50	11.00	71
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector	
Sector A:	35.00	Deg	Leg A:	30.00	Deg
Sector B:	170.00	Deg	Leg B:	150.00	Deg
Sector C:	290.00	Deg	Leg C:	270.00	Deg
Sector D:		Deg	Leg D:		Deg

Climbing Facility Information			
Location:	56.00	Deg	Outside Face A
Climbing Facility	Corrosion Type:		N/A
	Access:		Climbing path was unobstructed.
	Condition:		Good condition.



Sector B										
Ant_{1a}										
Ant_{1b}	AMPHENOL	15.00	13.00	48.00		160.3	56.00	14.50	120.00	72
Ant_{1c}										
Ant_{2a}	B4 RRH 2x60-4R	11.50	5.50	36.00		159.383	67.00	-12.00		72
Ant_{2b}	SBNHH-1D65B	12.00	7.00	73.00		159.967	60.00	9.00	120.00	72
Ant_{2c}										
Ant_{3a}	B13 RHH 4x30	12.00	9.00	21.50		159.633	60.00	-12.00		72
Ant_{3b}										
Ant_{3c}										
Ant_{4a}	B25 RRH 4x30	12.00	9.00	22.00		158.883	69.00	-6.00		73
Ant_{4b}	SBNHH-1D65B	12.00	7.00	73.00		159.717	59.00	9.00	120.00	73
Ant_{4c}										
Ant_{5a}										
Ant_{5b}	AMPHENOL	15.00	13.00	48.00		159.967	56.00	14.50	120.00	73
Ant_{5c}										
Ant on Standoff	OVP BOX	15.00	10.00	28.00			77.00			113
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector C										
Ant_{1a}										
Ant_{1b}	AMPHENOL	15.00	13.00	48.00		160.3	56.00	14.50	250.00	75
Ant_{1c}										
Ant_{2a}	B4 RRH 2x60-4R	11.50	5.50	36.00		159.383	67.00	-12.00		75
Ant_{2b}	SBNHH-1D65B	12.00	7.00	73.00		159.967	60.00	9.00	250.00	75
Ant_{2c}										
Ant_{3a}	B13 RHH 4x30	12.00	9.00	21.50		159.633	60.00	-12.00		77
Ant_{3b}										
Ant_{3c}										
Ant_{4a}	B25 RRH 4x30	12.00	9.00	22.00		158.883	69.00	-6.00		77
Ant_{4b}	SBNHH-1D65B	12.00	7.00	73.00		159.717	59.00	9.00	250.00	77
Ant_{4c}										
Ant_{5a}										
Ant_{5b}	AMPHENOL	15.00	13.00	48.00		159.967	56.00	14.50	250.00	77
Ant_{5c}										
Ant on Standoff	OVP BOX	15.00	10.00	28.00			77.00			114
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector D										
Ant_{1a}										
Ant_{1b}										
Ant_{1c}										
Ant_{2a}										
Ant_{2b}										
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #

1		
2	(10) 1-5/8" COAX CABLES & (2) 1-1/4" HYBRID CABLE	53
3	Tower Tag Info: SABRE MODEL S3TL 00-10101 TOWER HEIGHT 195' LOCATION CLINTON#4 CT	44
4	Tower Leg: 3" STD .208, .210, .217 wall	98
5		
6		
7		
8		

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

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

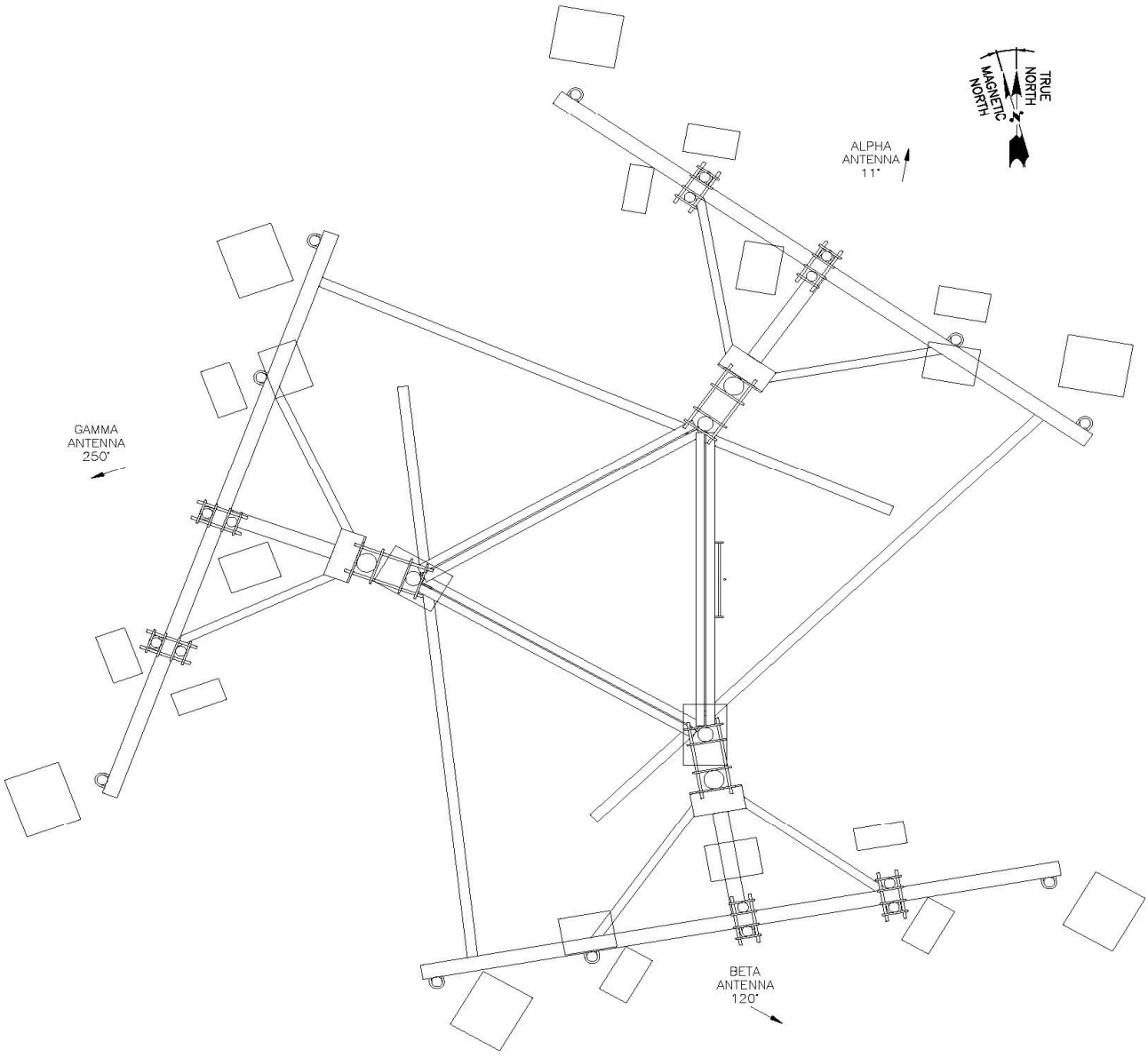
V3.0 Updated on 8-31-2020

Antenna Mount Mapping Form (PATENT PENDING)

FCC #
1233741

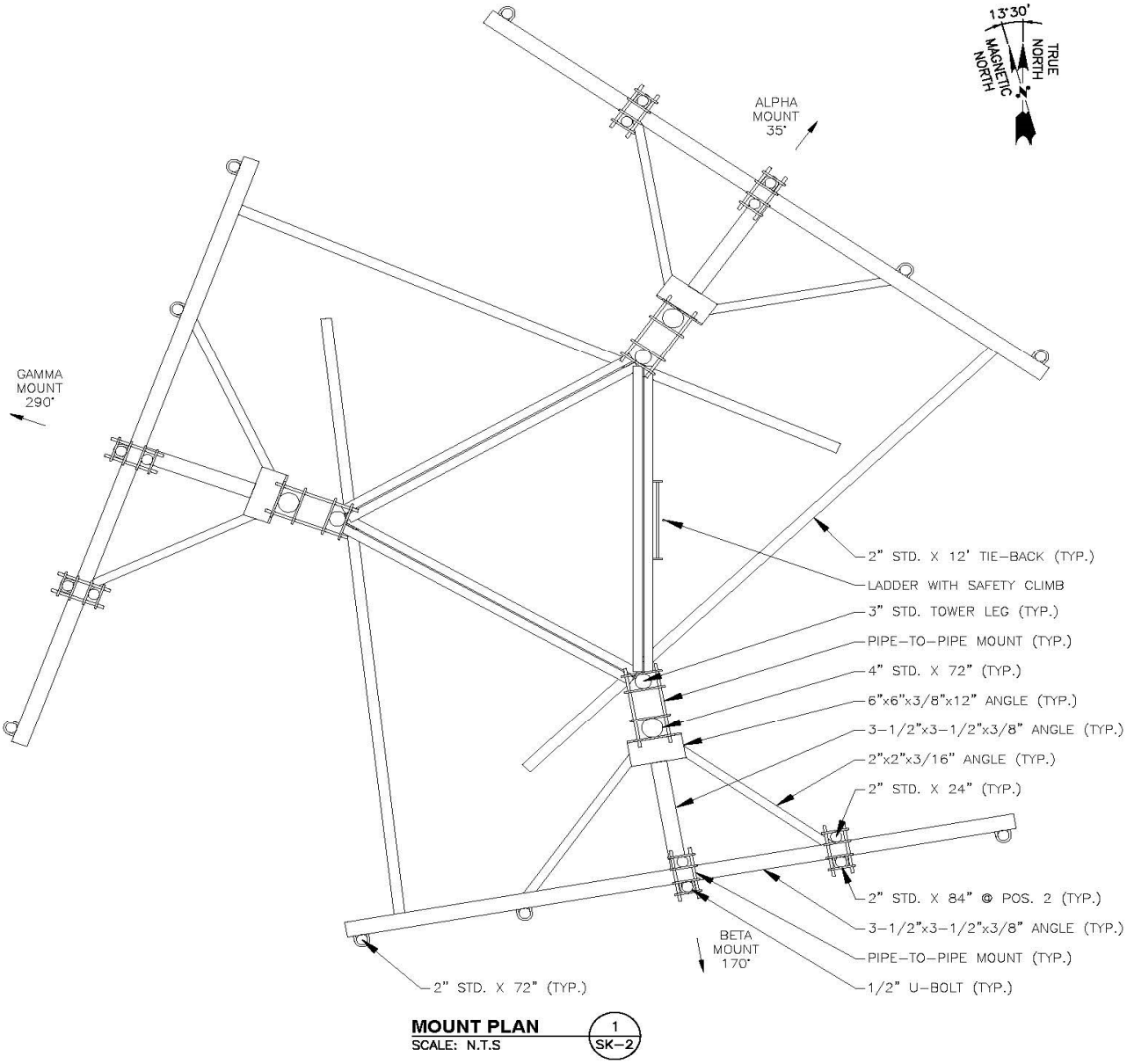
Tower Owner:	SBA TOWERS	**Mapping Date:**	02.09.21
Site Name:	CLINTON SOUTH ST	**Tower Type:**	Self Support
Site Number or ID:	469265	**Tower Height (Ft.):**	195
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	**Mount Elevation (Ft.):**	161.3

Please Insert Sketches of the Antenna Mount



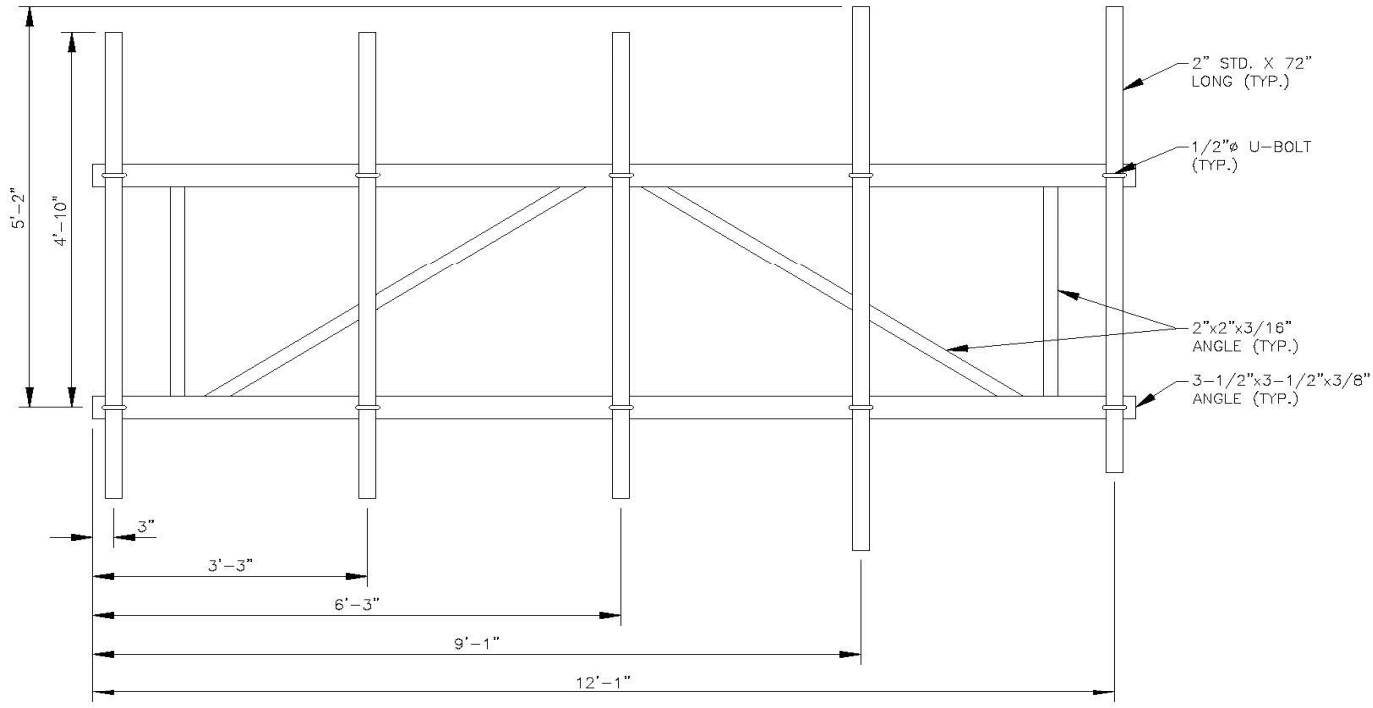
ANTENNA PLAN (1 / SK–1)
SCALE: N.T.S

Please Insert Sketches of the Antenna Mount, cont'd

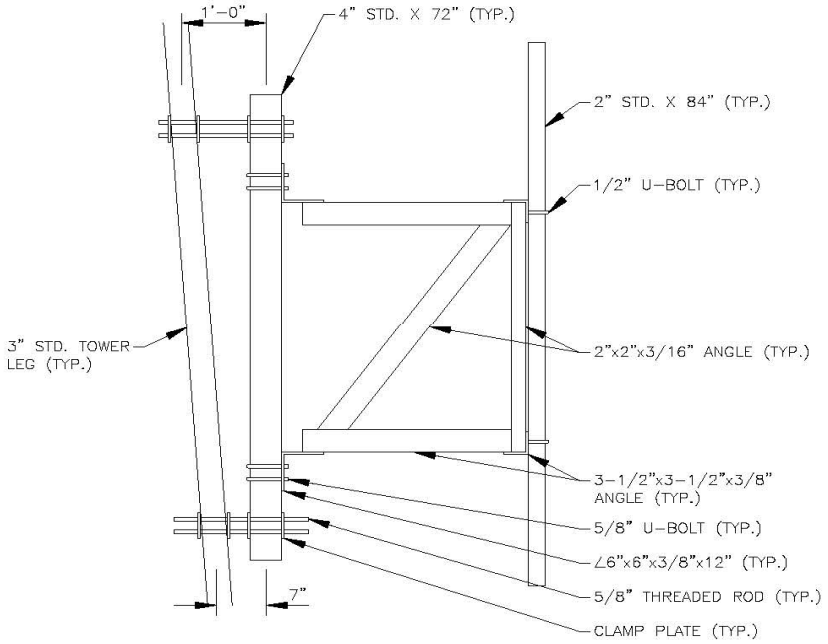


MOUNT PLAN 1/SK-2
SCALE: N.T.S

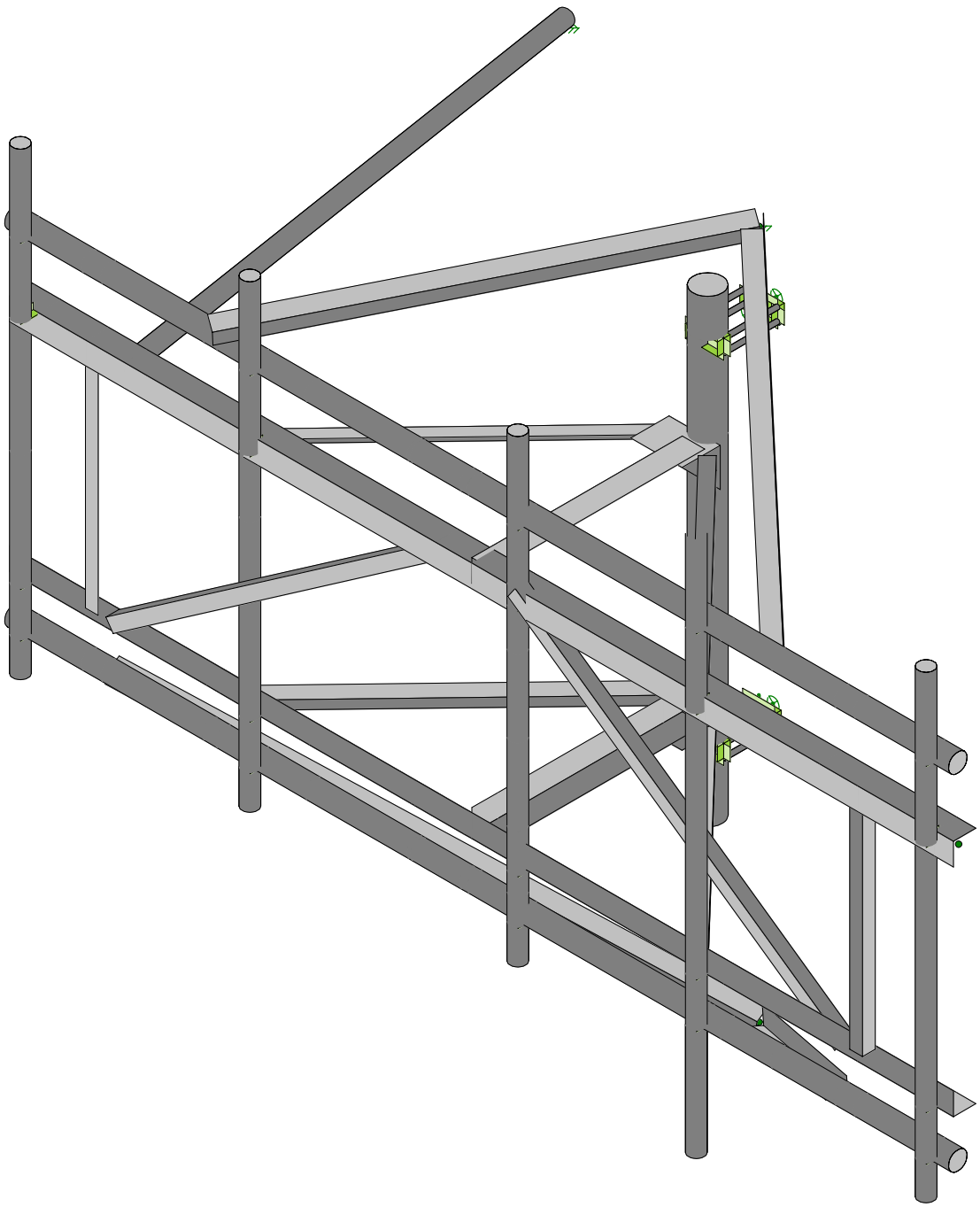
Please Insert Sketches of the Antenna Mount, cont'd



FRONT ELEVATION 1 SK-3
SCALE: N.T.S

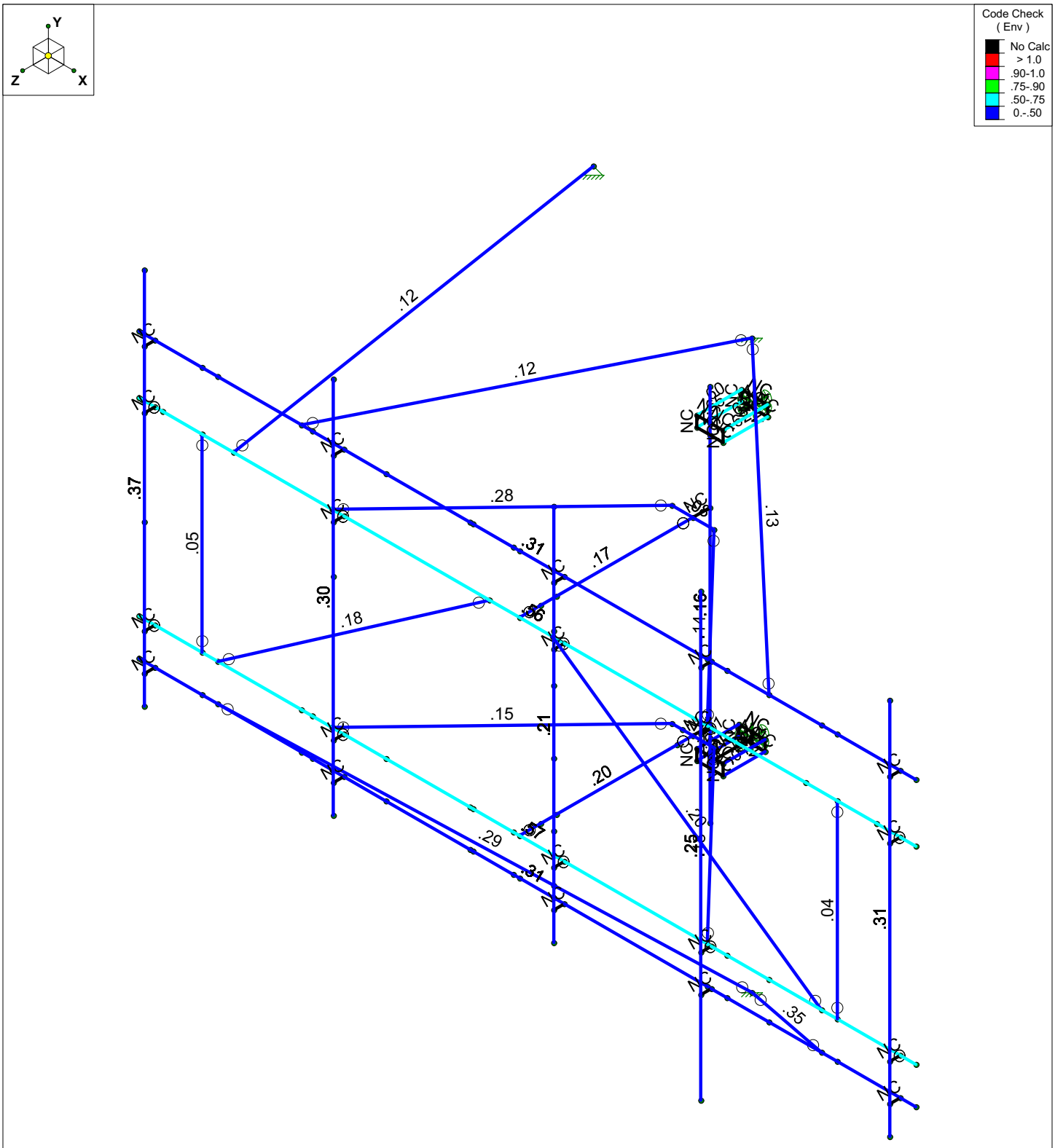


SIDE ELEVATION 2 SK-3
SCALE: N.T.S



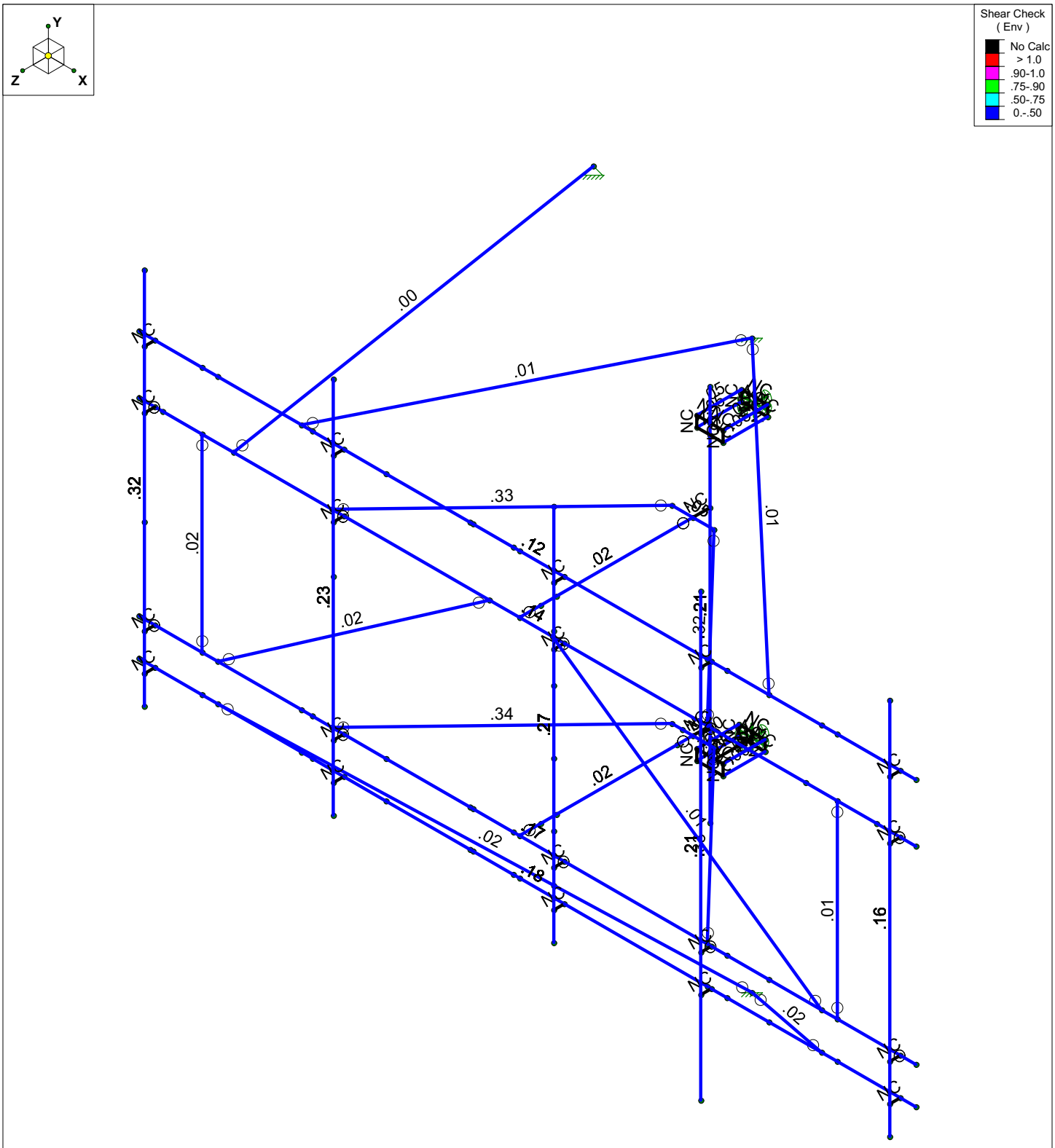
Envelope Only Solution

Maser Consulting	Mount Fix	SK - 1
NL		May 18, 2021 at 8:09 AM
20777640A		469265-VZW_MT_LOT_A_H_NL ...



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	Mount Fix	SK - 2
NL		May 18, 2021 at 8:10 AM
20777640A		469265-VZW_MT_LOT_A_H_NL ...



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	Mount Fix	SK - 3
NL		May 18, 2021 at 8:10 AM
20777640A		469265-VZW_MT_LOT_A_H_NL ...

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(...
1	Antenna D	None					36			
2	Antenna Di	None					36			
3	Antenna Wo (0 Deg)	None					36			
4	Antenna Wo (30 Deg)	None					36			
5	Antenna Wo (60 Deg)	None					36			
6	Antenna Wo (90 Deg)	None					36			
7	Antenna Wo (120 Deg)	None					36			
8	Antenna Wo (150 Deg)	None					36			
9	Antenna Wo (180 Deg)	None					36			
10	Antenna Wo (210 Deg)	None					36			
11	Antenna Wo (240 Deg)	None					36			
12	Antenna Wo (270 Deg)	None					36			
13	Antenna Wo (300 Deg)	None					36			
14	Antenna Wo (330 Deg)	None					36			
15	Antenna Wi (0 Deg)	None					36			
16	Antenna Wi (30 Deg)	None					36			
17	Antenna Wi (60 Deg)	None					36			
18	Antenna Wi (90 Deg)	None					36			
19	Antenna Wi (120 Deg)	None					36			
20	Antenna Wi (150 Deg)	None					36			
21	Antenna Wi (180 Deg)	None					36			
22	Antenna Wi (210 Deg)	None					36			
23	Antenna Wi (240 Deg)	None					36			
24	Antenna Wi (270 Deg)	None					36			
25	Antenna Wi (300 Deg)	None					36			
26	Antenna Wi (330 Deg)	None					36			
27	Antenna Wm (0 Deg)	None					36			
28	Antenna Wm (30 Deg)	None					36			
29	Antenna Wm (60 Deg)	None					36			
30	Antenna Wm (90 Deg)	None					36			
31	Antenna Wm (120 Deg)	None					36			
32	Antenna Wm (150 Deg)	None					36			
33	Antenna Wm (180 Deg)	None					36			
34	Antenna Wm (210 Deg)	None					36			
35	Antenna Wm (240 Deg)	None					36			
36	Antenna Wm (270 Deg)	None					36			
37	Antenna Wm (300 Deg)	None					36			
38	Antenna Wm (330 Deg)	None					36			
39	Structure D	None		-1						
40	Structure Di	None						35		
41	Structure Wo (0 Deg)	None						70		
42	Structure Wo (30 Deg)	None						70		
43	Structure Wo (60 Deg)	None						70		
44	Structure Wo (90 Deg)	None						70		
45	Structure Wo (120 Deg)	None						70		
46	Structure Wo (150 Deg)	None						70		
47	Structure Wo (180 Deg)	None						70		
48	Structure Wo (210 Deg)	None						70		
49	Structure Wo (240 Deg)	None						70		
50	Structure Wo (270 Deg)	None						70		
51	Structure Wo (300 Deg)	None						70		
52	Structure Wo (330 Deg)	None						70		
53	Structure Wi (0 Deg)	None						70		
54	Structure Wi (30 Deg)	None						70		
55	Structure Wi (60 Deg)	None						70		
56	Structure Wi (90 Deg)	None						70		

Basic Load Cases (Continued)

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

Load Combinations

	Description	Solve	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
1	1.2D+1.0Wo (0 De...	Yes	Y		1	1.2	39	1.2	3	1	41	1												
2	1.2D+1.0Wo (30 D...	Yes	Y		1	1.2	39	1.2	4	1	42	1												
3	1.2D+1.0Wo (60 D...	Yes	Y		1	1.2	39	1.2	5	1	43	1												
4	1.2D+1.0Wo (90 D...	Yes	Y		1	1.2	39	1.2	6	1	44	1												
5	1.2D+1.0Wo (120 ...	Yes	Y		1	1.2	39	1.2	7	1	45	1												
6	1.2D+1.0Wo (150 ...	Yes	Y		1	1.2	39	1.2	8	1	46	1												
7	1.2D+1.0Wo (180 ...	Yes	Y		1	1.2	39	1.2	9	1	47	1												
8	1.2D+1.0Wo (210 ...	Yes	Y		1	1.2	39	1.2	10	1	48	1												
9	1.2D+1.0Wo (240 ...	Yes	Y		1	1.2	39	1.2	11	1	49	1												
10	1.2D+1.0Wo (270 ...	Yes	Y		1	1.2	39	1.2	12	1	50	1												
11	1.2D+1.0Wo (300 ...	Yes	Y		1	1.2	39	1.2	13	1	51	1												
12	1.2D+1.0Wo (330 ...	Yes	Y		1	1.2	39	1.2	14	1	52	1												
13	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1								
14	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1								
15	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1								
16	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1								
17	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1								
18	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1								
19	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1								
20	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1								
21	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1								
22	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1								
23	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1										
27	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										

Load Combinations (Continued)

	Description	Solve	P...	S...	BLC	Fac..	BLC	Fac...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..
29	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1										
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5														
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5														
51	1.4D	Yes	Y		1	1.4	39	1.4																
52	Seismic Mass		Y		1	1	39	1																
53	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX		SY	1	SZ	-1										
54	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866										
55	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5										
56	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX	1	SY	1	SZ											
57	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5										
58	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866										
59	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX		SY	1	SZ	1										
60	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866										
61	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5										
62	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX	-1	SY	1	SZ											
63	1.2D + 1.0Ev + 1.0...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5										
64	1.2D + 1.0Ev + 1.0...		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	1.354167	0	0	0	
2	N2	13.6875	0	0	0	
3	N3	1.354167	3	0	0	
4	N4	13.6875	3	0	0	
5	N5	4.416667	0	0	0	
6	N6	4.416667	3	0	0	
7	N7	7.395833	0	0	0	
8	N8	7.395833	3	0	0	
9	N9	10.375	0	0	0	
10	N10	10.375	3	0	0	
11	N11	7.395833	0	-2.75	0	
12	N12	7.395833	3	-2.75	0	
13	N13	7.729167	0	-2.75	0	
14	N14	7.729167	3	-2.75	0	
15	N15	7.0625	0	-2.75	0	
16	N16	7.0625	3	-2.75	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
17	N17	7.229167	0	-2.75	0	
18	N18	7.395833	0	-3.020833	0	
19	N19	7.395833	3	-3.020833	0	
20	N20	7.395833	0	-0.333333	0	
21	N21	7.395833	3	-0.333333	0	
22	N22	7.395833	0	-0.583333	0	
23	N23	7.395833	3	-0.583333	0	
24	N24	7.395833	0	-2.5	0	
25	N25	1.395833	0	0	0	
26	N26	1.395833	3	0	0	
27	N33	13.4375	0	0	0	
28	N34	13.4375	3	0	0	
29	N43	13.4375	0	0.166667	0	
30	N44	13.4375	3	0.166667	0	
31	N48	13.4375	4.966667	0.166667	0	
32	N52	13.4375	-1.033333	0.166667	0	
33	N61	1.729167	3	0	0	
34	N62	6.916667	3	0	0	
35	N63	7.916667	3	0	0	
36	N64	13.0625	3	0	0	
37	N65	2.354167	0	0	0	
38	N66	12.4375	0	0	0	
39	N67	4.104167	0	0	0	
40	N68	11.354167	0	0	0	
41	N69	4.604167	0	0	0	
42	N70	10.6875	0	0	0	
43	N71	2.354167	3	0	0	
44	N72	12.4375	3	0	0	
45	N75	7.395833	-1.333333	-3.020833	0	
46	N76	7.395833	4.666667	-3.020833	0	
47	N82A	7.395833	4.166667	-3.020833	0	
48	N84	7.604167	4.166667	-3.020833	0	
49	N85	7.1875	4.166667	-3.020833	0	
50	N86	7.604167	4.166667	-3.729166	0	
51	N87	7.1875	4.166667	-3.729167	0	
52	N88	7.395833	-0.5	-3.020833	0	
53	N89	7.395833	-.5	-3.6875	0	
54	N71A	10.4375	0	0	0	
55	N72A	10.4375	3	0	0	
56	N73A	10.4375	0	0.166667	0	
57	N74A	10.4375	3	0.166667	0	
58	N75A	10.4375	4.966667	0.166667	0	
59	N76A	10.4375	-2.033333	0.166667	0	
60	N77	8.104167	0	0	0	
61	N78	8.104167	3	0	0	
62	N79	8.104167	0	0.166667	0	
63	N80	8.104167	3	0.166667	0	
64	N81	8.104167	4.966667	0.166667	0	
65	N82	8.104167	-1.033333	0.166667	0	
66	N84A	4.604167	3	0	0	
67	N85A	4.604167	0	0.166667	0	
68	N86A	4.604167	3	0.166667	0	
69	N87A	4.604167	4.966667	0.166667	0	
70	N88A	4.604167	-1.033333	0.166667	0	
71	N89A	1.604167	0	0	0	
72	N90A	1.604167	3	0	0	
73	N91A	1.604167	0	0.166667	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
74	N92A	1.604167	3	0.166667	0	
75	N93A	1.604167	4.966667	0.166667	0	
76	N94	1.604167	-1.033333	0.166667	0	
77	N84B	2.854167	3	0	0	
78	N113	2.604167	0	0	0	
79	N114	12.1875	0	0	0	
80	N115	8.104167	3.25	0.166667	0	
81	N116	8.104167	-0.25	0.166667	0	
82	N117	8.104167	1.5	0.166667	0	
83	N118	1.604167	1.5	0.166667	0	
84	N115A	7.395833	4.	-3.020833	0	
85	N116A	7.395833	4	-3.729167	0	
86	N117A	7.604167	4.	-3.020833	0	
87	N118A	7.1875	4.	-3.020833	0	
88	N119	7.604167	4.	-3.729167	0	
89	N120	7.1875	4.	-3.729167	0	
90	N122	8.104167	2.5	0.166667	0	
91	N123	8.104167	.5	0.166667	0	
92	N124	5.275	0	0	0	
93	N125	3.933333	0	0	0	
94	N126	6.608333	0	0	0	
95	N127	7.295833	0	0	0	
96	N128	6.654167	0	0	0	
97	N129	7.9375	0	0	0	
98	N130	1.774436	3	-6.791439	0	
99	N128A	7.395833	4.166667	-3.729167	0	
100	N129A	7.395833	4.083333	-3.729167	0	
101	N131	7.395833	-0.416667	-3.020833	0	
102	N132	7.604167	-0.416667	-3.020833	0	
103	N133	7.1875	-0.416667	-3.020833	0	
104	N134	7.604167	-0.416666	-3.6875	0	
105	N135	7.1875	-0.416667	-3.6875	0	
106	N136	7.395833	-0.583333	-3.020833	0	
107	N137	7.395833	-0.583333	-3.6875	0	
108	N138	7.604167	-0.583333	-3.020833	0	
109	N139	7.1875	-0.583333	-3.020833	0	
110	N140	7.604167	-0.583333	-3.6875	0	
111	N141	7.1875	-0.583333	-3.6875	0	
112	N142	7.395833	-0.416667	-3.6875	0	
113	N144	11.9375	3	0	0	
114	N145	1.354167	3.916667	0	0	
115	N146	13.6875	3.916667	0	0	
116	N147	4.416667	3.916667	0	0	
117	N148	7.395833	3.916667	0	0	
118	N149	10.375	3.916667	0	0	
119	N150	1.395833	3.916667	0	0	
120	N151	13.4375	3.916667	0	0	
121	N152	13.4375	3.916667	0.166667	0	
122	N153	2.354167	3.916667	0	0	
123	N154	12.4375	3.916667	0	0	
124	N155	4.104167	3.916667	0	0	
125	N156	11.354167	3.916667	0	0	
126	N157	4.604167	3.916667	0	0	
127	N158	10.6875	3.916667	0	0	
128	N159	10.4375	3.916667	0	0	
129	N160	10.4375	3.916667	0.166667	0	
130	N161	8.104167	3.916667	0	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
131	N162	8.104167	3.916667	0.166667	0	
132	N163	4.604167	3.916667	0.166667	0	
133	N164	1.604167	3.916667	0	0	
134	N165	1.604167	3.916667	0.166667	0	
135	N166	2.604167	3.916667	0	0	
136	N167	12.1875	3.916667	0	0	
137	N168	5.275	3.916667	0	0	
138	N169	3.933333	3.916667	0	0	
139	N170	6.608333	3.916667	0	0	
140	N171	7.295833	3.916667	0	0	
141	N172	6.654167	3.916667	0	0	
142	N173	7.9375	3.916667	0	0	
143	N174	7.395833	5	-3.6875	0	
144	N175	1.354167	-0.583333	0	0	
145	N176	13.6875	-0.583333	0	0	
146	N177	4.416667	-0.583333	0	0	
147	N178	7.395833	-0.583333	0	0	
148	N179	10.375	-0.583333	0	0	
149	N180	1.395833	-0.583333	0	0	
150	N181	13.4375	-0.583333	0	0	
151	N182	13.4375	-0.583333	0.166667	0	
152	N183	2.354167	-0.583333	0	0	
153	N184	12.4375	-0.583333	0	0	
154	N185	4.104167	-0.583333	0	0	
155	N186	11.354167	-0.583333	0	0	
156	N187	4.604167	-0.583333	0	0	
157	N188	10.6875	-0.583333	0	0	
158	N189	10.4375	-0.583333	0	0	
159	N190	10.4375	-0.583333	0.166667	0	
160	N191	8.104167	-0.583333	0	0	
161	N192	8.104167	-0.583333	0.166667	0	
162	N193	4.604167	-0.583333	0.166667	0	
163	N194	1.604167	-0.583333	0	0	
164	N195	1.604167	-0.583333	0.166667	0	
165	N196	2.604167	-0.583333	0	0	
166	N197	12.1875	-0.583333	0	0	
167	N198	5.275	-0.583333	0	0	
168	N199	3.933333	-0.583333	0	0	
169	N200	6.608333	-0.583333	0	0	
170	N201	7.295833	-0.583333	0	0	
171	N202	6.654167	-0.583333	0	0	
172	N203	7.9375	-0.583333	0	0	
173	N204	7.395833	-4	-3.6875	0	
174	N204A	4.604167	2.25	0.166667	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE_2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Mod Face Horizon...	PIPE_2.5	Beam	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
3	Mast Pipe	PIPE_4.0	Beam	Pipe	A53 Gr. B	Typical	2.96	6.82	6.82	13.6
4	Face Angle	L3.5X3.5X6	Beam	Single Angle	A36 Gr.36	Typical	2.5	2.86	2.86	.123
5	End Angle	L6X6X6	Beam	Single Angle	A36 Gr.36	Typical	4.38	15.4	15.4	.218
6	V-Frame	L2x2x3	Beam	Single Angle	A36 Gr.36	Typical	.722	.271	.271	.009
7	Mod V kit	L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical	1.19	.692	.692	.026
8	Standoff Arm	L3.5X3.5X6	Beam	Single Angle	A36 Gr.36	Typical	2.5	2.86	2.86	.123

Hot Rolled Steel Section Sets (Continued)

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
9	Standoff Bracing	L2x2x3	Beam	Single Angle	A36 Gr.36	Typical	.722	.271	.271	.009
10	Face Bracing	L2x2x3	Beam	Single Angle	A36 Gr.36	Typical	.722	.271	.271	.009
11	Threaded Rods	SR_0.625	Beam	Single Angle	A36 Gr.36	Typical	.307	.007	.007	.015
12	Solid Rods	SR_0.5	Beam	Single Angle	A36 Gr.36	Typical	.196	.003	.003	.006
13	Tieback	PIPE_2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
14	Mod Tieback	PIPE_2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N2		270	Face Angle	Beam	Single Angle	A36 Gr.36	Typical
2	M2	N3	N4		180	Face Angle	Beam	Single Angle	A36 Gr.36	Typical
3	M3	N16	N14		90	End Angle	Beam	Single Angle	A36 Gr.36	Typical
4	M4	N15	N13			End Angle	Beam	Single Angle	A36 Gr.36	Typical
5	M5	N6	N16		90	V-Frame	Beam	Single Angle	A36 Gr.36	Typical
6	M6	N5	N15			V-Frame	Beam	Single Angle	A36 Gr.36	Typical
7	M7	N9	N13		270	V-Frame	Beam	Single Angle	A36 Gr.36	Typical
8	M8	N10	N14		180	V-Frame	Beam	Single Angle	A36 Gr.36	Typical
9	M9	N8	N12		90	Standoff Arm	Beam	Single Angle	A36 Gr.36	Typical
10	M10	N7	N11			Standoff Arm	Beam	Single Angle	A36 Gr.36	Typical
11	M11	N11	N18			RIGID	None	None	RIGID	Typical
12	M12	N12	N19			RIGID	None	None	RIGID	Typical
13	M21	N34	N44			RIGID	None	None	RIGID	Typical
14	M22	N33	N43			RIGID	None	None	RIGID	Typical
15	MP1A	N48	N52			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
16	M34	N65	N71		180	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
17	M35	N113	N62		180	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
18	M36	N63	N114		180	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
19	M37	N66	N72		270	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
20	M38A	N76	N75			Mast Pipe	Beam	Pipe	A53 Gr. B	Typical
21	M45	N85	N82A			RIGID	None	None	RIGID	Typical
22	M46	N84	N82A			RIGID	None	None	RIGID	Typical
23	M49	N84	N86			Threaded Rods	Beam	Single Angle	A36 Gr.36	Typical
24	M50	N85	N87			Threaded Rods	Beam	Single Angle	A36 Gr.36	Typical
25	M40	N72A	N74A			RIGID	None	None	RIGID	Typical
26	M41	N71A	N73A			RIGID	None	None	RIGID	Typical
27	MP2A	N75A	N76A			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
28	M43	N78	N80			RIGID	None	None	RIGID	Typical
29	M44	N77	N79			RIGID	None	None	RIGID	Typical
30	MP3A	N81	N82			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
31	M46A	N84A	N86A			RIGID	None	None	RIGID	Typical
32	M47A	N69	N85A			RIGID	None	None	RIGID	Typical
33	MP4A	N87A	N88A			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
34	M49A	N90A	N92A			RIGID	None	None	RIGID	Typical
35	M50A	N89A	N91A			RIGID	None	None	RIGID	Typical
36	MP5A	N93A	N94			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
37	M72	N88	N89			RIGID	None	None	RIGID	Typical
38	M67A	N118A	N115A			RIGID	None	None	RIGID	Typical
39	M68A	N117A	N115A			RIGID	None	None	RIGID	Typical
40	M69A	N120	N116A			RIGID	None	None	RIGID	Typical
41	M70A	N119	N116A			RIGID	None	None	RIGID	Typical
42	M71A	N117A	N119			Threaded Rods	Beam	Single Angle	A36 Gr.36	Typical
43	M72A	N118A	N120			Threaded Rods	Beam	Single Angle	A36 Gr.36	Typical
44	M74	N85	N118A			RIGID	None	None	RIGID	Typical
45	M75	N84	N117A			RIGID	None	None	RIGID	Typical
46	M76	N87	N120			RIGID	None	None	RIGID	Typical
47	M77	N86	N119			RIGID	None	None	RIGID	Typical
48	M78	N84B	N130			Tieback	Beam	Pipe	A53 Gr. B	Typical
49	M75A	N87	N86			RIGID	None	None	RIGID	Typical
50	M76A	N116A	N129A			RIGID	None	None	RIGID	Typical
51	M77A	N129A	N128A			RIGID	None	None	RIGID	Typical
52	M78A	N133	N131			RIGID	None	None	RIGID	Typical
53	M79	N132	N131			RIGID	None	None	RIGID	Typical
54	M80	N132	N134			Threaded Rods	Beam	Single Angle	A36 Gr.36	Typical
55	M81	N133	N135			Threaded Rods	Beam	Single Angle	A36 Gr.36	Typical
56	M82	N139	N136			RIGID	None	None	RIGID	Typical
57	M83	N138	N136			RIGID	None	None	RIGID	Typical
58	M84	N141	N137			RIGID	None	None	RIGID	Typical
59	M85	N140	N137			RIGID	None	None	RIGID	Typical
60	M86	N138	N140			Threaded Rods	Beam	Single Angle	A36 Gr.36	Typical
61	M87	N139	N141			Threaded Rods	Beam	Single Angle	A36 Gr.36	Typical
62	M88	N133	N139			RIGID	None	None	RIGID	Typical
63	M89	N132	N138			RIGID	None	None	RIGID	Typical
64	M90	N135	N141			RIGID	None	None	RIGID	Typical
65	M91	N134	N140			RIGID	None	None	RIGID	Typical
66	M92	N135	N134			RIGID	None	None	RIGID	Typical
67	M93	N137	N89			RIGID	None	None	RIGID	Typical
68	M94	N89	N142			RIGID	None	None	RIGID	Typical
69	M96	N145	N146		270	Mod Face Hori...	Beam	Pipe	A53 Gr. B	Typical
70	M97	N151	N152			RIGID	None	None	RIGID	Typical
71	M98	N159	N160			RIGID	None	None	RIGID	Typical
72	M99	N161	N162			RIGID	None	None	RIGID	Typical
73	M100	N157	N163			RIGID	None	None	RIGID	Typical
74	M101	N164	N165			RIGID	None	None	RIGID	Typical
75	M104	N169	N174			Mod V kit	Beam	Single Angle	A36 Gr.36	Typical
76	M105	N156	N174		270	Mod V kit	Beam	Single Angle	A36 Gr.36	Typical
77	M106	N175	N176		270	Mod Face Hori...	Beam	Pipe	A53 Gr. B	Typical
78	M107	N181	N182			RIGID	None	None	RIGID	Typical
79	M108	N189	N190			RIGID	None	None	RIGID	Typical
80	M109	N191	N192			RIGID	None	None	RIGID	Typical
81	M110	N187	N193			RIGID	None	None	RIGID	Typical
82	M111	N194	N195			RIGID	None	None	RIGID	Typical
83	M112	N196	N204			Mod V kit	Beam	Single Angle	A36 Gr.36	Typical
84	M113	N197	N204		270	Mod V kit	Beam	Single Angle	A36 Gr.36	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes				None
2	M2						Yes				None
3	M3						Yes				None
4	M4						Yes				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...
5	M5	BenPIN	BenPIN				Yes	Default			None
6	M6	BenPIN	BenPIN				Yes				None
7	M7	BenPIN	BenPIN				Yes				None
8	M8	BenPIN	BenPIN				Yes				None
9	M9	BenPIN	OOOOXX				Yes	Default			None
10	M10	BenPIN	OOOOXX				Yes	Default			None
11	M11						Yes	** NA **			None
12	M12						Yes	** NA **			None
13	M21		OOOXOO				Yes	** NA **			None
14	M22		OOOXOO				Yes	** NA **			None
15	MP1A						Yes				None
16	M34	BenPIN	BenPIN				Yes				None
17	M35	BenPIN	BenPIN				Yes				None
18	M36	BenPIN	BenPIN				Yes				None
19	M37	BenPIN	BenPIN				Yes				None
20	M38A						Yes				None
21	M45						Yes	** NA **			None
22	M46						Yes	** NA **			None
23	M49						Yes	Default			None
24	M50						Yes				None
25	M40		OOOXOO				Yes	** NA **			None
26	M41		OOOXOO				Yes	** NA **			None
27	MP2A						Yes				None
28	M43		OOOXOO				Yes	** NA **			None
29	M44		OOOXOO				Yes	** NA **			None
30	MP3A						Yes				None
31	M46A		OOOXOO				Yes	** NA **			None
32	M47A		OOOXOO				Yes	** NA **			None
33	MP4A						Yes				None
34	M49A		OOOXOO				Yes	** NA **			None
35	M50A		OOOXOO				Yes	** NA **			None
36	MP5A						Yes				None
37	M72						Yes	** NA **			None
38	M67A						Yes	** NA **			None
39	M68A						Yes	** NA **			None
40	M69A						Yes	** NA **			None
41	M70A						Yes	** NA **			None
42	M71A						Yes				None
43	M72A						Yes				None
44	M74						Yes	** NA **			None
45	M75						Yes	** NA **			None
46	M76						Yes	** NA **			None
47	M77						Yes	** NA **			None
48	M78	BenPIN					Yes	Default			None
49	M75A						Yes	** NA **			None
50	M76A						Yes	** NA **			None
51	M77A						Yes	** NA **			None
52	M78A						Yes	** NA **			None
53	M79						Yes	** NA **			None
54	M80						Yes	Default			None
55	M81						Yes				None
56	M82						Yes	** NA **			None
57	M83						Yes	** NA **			None
58	M84						Yes	** NA **			None
59	M85						Yes	** NA **			None
60	M86						Yes				None
61	M87						Yes				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...
62	M88						Yes	** NA **			None
63	M89						Yes	** NA **			None
64	M90						Yes	** NA **			None
65	M91						Yes	** NA **			None
66	M92						Yes	** NA **			None
67	M93						Yes	** NA **			None
68	M94						Yes	** NA **			None
69	M96						Yes	Default			None
70	M97						Yes	** NA **			None
71	M98						Yes	** NA **			None
72	M99						Yes	** NA **			None
73	M100						Yes	** NA **			None
74	M101						Yes	** NA **			None
75	M104	BenPIN	BenPIN				Yes				None
76	M105	BenPIN	BenPIN				Yes				None
77	M106						Yes	Default			None
78	M107						Yes	** NA **			None
79	M108						Yes	** NA **			None
80	M109						Yes	** NA **			None
81	M110						Yes	** NA **			None
82	M111						Yes	** NA **			None
83	M112	BenPIN	BenPIN				Yes				None
84	M113	BenPIN	BenPIN				Yes				None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	Y	-23	1.72
2	MP3A	My	-.021	1.72
3	MP3A	Mz	.019	1.72
4	MP3A	Y	-23	5.22
5	MP3A	My	-.021	5.22
6	MP3A	Mz	.019	5.22
7	MP3A	Y	-23	1.72
8	MP3A	My	-.021	1.72
9	MP3A	Mz	-.019	1.72
10	MP3A	Y	-23	5.22
11	MP3A	My	-.021	5.22
12	MP3A	Mz	-.019	5.22
13	MP4A	Y	-43.55	2.47
14	MP4A	My	-.022	2.47
15	MP4A	Mz	0	2.47
16	MP4A	Y	-43.55	4.47
17	MP4A	My	-.022	4.47
18	MP4A	Mz	0	4.47
19	MP1A	Y	-10	1.72
20	MP1A	My	-.012	1.72
21	MP1A	Mz	0	1.72
22	MP1A	Y	-10	5.22
23	MP1A	My	-.012	5.22
24	MP1A	Mz	0	5.22
25	MP5A	Y	-10	1.72
26	MP5A	My	-.012	1.72
27	MP5A	Mz	0	1.72
28	MP5A	Y	-10	5.22
29	MP5A	My	-.012	5.22

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP5A	Mz	0	5.22
31	MP2A	Y	-84.4	2.75
32	MP2A	My	.042	2.75
33	MP2A	Mz	0	2.75
34	MP4A	Y	-70.3	2.75
35	MP4A	My	.035	2.75
36	MP4A	Mz	0	2.75

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	Y	-83.895	1.72
2	MP3A	My	-.077	1.72
3	MP3A	Mz	.07	1.72
4	MP3A	Y	-83.895	5.22
5	MP3A	My	-.077	5.22
6	MP3A	Mz	.07	5.22
7	MP3A	Y	-83.895	1.72
8	MP3A	My	-.077	1.72
9	MP3A	Mz	-.07	1.72
10	MP3A	Y	-83.895	5.22
11	MP3A	My	-.077	5.22
12	MP3A	Mz	-.07	5.22
13	MP4A	Y	-36.249	2.47
14	MP4A	My	-.018	2.47
15	MP4A	Mz	0	2.47
16	MP4A	Y	-36.249	4.47
17	MP4A	My	-.018	4.47
18	MP4A	Mz	0	4.47
19	MP1A	Y	-63.942	1.72
20	MP1A	My	-.077	1.72
21	MP1A	Mz	0	1.72
22	MP1A	Y	-63.942	5.22
23	MP1A	My	-.077	5.22
24	MP1A	Mz	0	5.22
25	MP5A	Y	-63.942	1.72
26	MP5A	My	-.077	1.72
27	MP5A	Mz	0	1.72
28	MP5A	Y	-63.942	5.22
29	MP5A	My	-.077	5.22
30	MP5A	Mz	0	5.22
31	MP2A	Y	-45.713	2.75
32	MP2A	My	.023	2.75
33	MP2A	Mz	0	2.75
34	MP4A	Y	-41.116	2.75
35	MP4A	My	.021	2.75
36	MP4A	Mz	0	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1.72
2	MP3A	Z	-258.735	1.72
3	MP3A	Mx	-.216	1.72
4	MP3A	X	0	5.22
5	MP3A	Z	-258.735	5.22
6	MP3A	Mx	-.216	5.22
7	MP3A	X	0	1.72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP3A	Z	-258.735	1.72
9	MP3A	Mx	.216	1.72
10	MP3A	X	0	5.22
11	MP3A	Z	-258.735	5.22
12	MP3A	Mx	.216	5.22
13	MP4A	X	0	2.47
14	MP4A	Z	-123.207	2.47
15	MP4A	Mx	0	2.47
16	MP4A	X	0	4.47
17	MP4A	Z	-123.207	4.47
18	MP4A	Mx	0	4.47
19	MP1A	X	0	1.72
20	MP1A	Z	-161.218	1.72
21	MP1A	Mx	0	1.72
22	MP1A	X	0	5.22
23	MP1A	Z	-161.218	5.22
24	MP1A	Mx	0	5.22
25	MP5A	X	0	1.72
26	MP5A	Z	-161.218	1.72
27	MP5A	Mx	0	1.72
28	MP5A	X	0	5.22
29	MP5A	Z	-161.218	5.22
30	MP5A	Mx	0	5.22
31	MP2A	X	0	2.75
32	MP2A	Z	-98.041	2.75
33	MP2A	Mx	0	2.75
34	MP4A	X	0	2.75
35	MP4A	Z	-98.041	2.75
36	MP4A	Mx	0	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	121.071	1.72
2	MP3A	Z	-209.7	1.72
3	MP3A	Mx	-.286	1.72
4	MP3A	X	121.071	5.22
5	MP3A	Z	-209.7	5.22
6	MP3A	Mx	-.286	5.22
7	MP3A	X	121.071	1.72
8	MP3A	Z	-209.7	1.72
9	MP3A	Mx	.064	1.72
10	MP3A	X	121.071	5.22
11	MP3A	Z	-209.7	5.22
12	MP3A	Mx	.064	5.22
13	MP4A	X	52.232	2.47
14	MP4A	Z	-90.469	2.47
15	MP4A	Mx	-.026	2.47
16	MP4A	X	52.232	4.47
17	MP4A	Z	-90.469	4.47
18	MP4A	Mx	-.026	4.47
19	MP1A	X	78.115	1.72
20	MP1A	Z	-135.299	1.72
21	MP1A	Mx	-.094	1.72
22	MP1A	X	78.115	5.22
23	MP1A	Z	-135.299	5.22
24	MP1A	Mx	-.094	5.22

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP5A	X	78.115	1.72
26	MP5A	Z	-135.299	1.72
27	MP5A	Mx	-.094	1.72
28	MP5A	X	78.115	5.22
29	MP5A	Z	-135.299	5.22
30	MP5A	Mx	-.094	5.22
31	MP2A	X	44.958	2.75
32	MP2A	Z	-77.869	2.75
33	MP2A	Mx	.022	2.75
34	MP4A	X	43.401	2.75
35	MP4A	Z	-75.173	2.75
36	MP4A	Mx	.022	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	180.959	1.72
2	MP3A	Z	-104.477	1.72
3	MP3A	Mx	-.253	1.72
4	MP3A	X	180.959	5.22
5	MP3A	Z	-104.477	5.22
6	MP3A	Mx	-.253	5.22
7	MP3A	X	180.959	1.72
8	MP3A	Z	-104.477	1.72
9	MP3A	Mx	-.079	1.72
10	MP3A	X	180.959	5.22
11	MP3A	Z	-104.477	5.22
12	MP3A	Mx	-.079	5.22
13	MP4A	X	58.005	2.47
14	MP4A	Z	-33.489	2.47
15	MP4A	Mx	-.029	2.47
16	MP4A	X	58.005	4.47
17	MP4A	Z	-33.489	4.47
18	MP4A	Mx	-.029	4.47
19	MP1A	X	126.659	1.72
20	MP1A	Z	-73.126	1.72
21	MP1A	Mx	-.153	1.72
22	MP1A	X	126.659	5.22
23	MP1A	Z	-73.126	5.22
24	MP1A	Mx	-.153	5.22
25	MP5A	X	126.659	1.72
26	MP5A	Z	-73.126	1.72
27	MP5A	Mx	-.153	1.72
28	MP5A	X	126.659	5.22
29	MP5A	Z	-73.126	5.22
30	MP5A	Mx	-.153	5.22
31	MP2A	X	63.793	2.75
32	MP2A	Z	-36.831	2.75
33	MP2A	Mx	.032	2.75
34	MP4A	X	55.706	2.75
35	MP4A	Z	-32.162	2.75
36	MP4A	Mx	.028	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	192.359	1.72
2	MP3A	Z	0	1.72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP3A	Mx	-.176	1.72
4	MP3A	X	192.359	5.22
5	MP3A	Z	0	5.22
6	MP3A	Mx	-.176	5.22
7	MP3A	X	192.359	1.72
8	MP3A	Z	0	1.72
9	MP3A	Mx	-.176	1.72
10	MP3A	X	192.359	5.22
11	MP3A	Z	0	5.22
12	MP3A	Mx	-.176	5.22
13	MP4A	X	48.235	2.47
14	MP4A	Z	0	2.47
15	MP4A	Mx	-.024	2.47
16	MP4A	X	48.235	4.47
17	MP4A	Z	0	4.47
18	MP4A	Mx	-.024	4.47
19	MP1A	X	141.264	1.72
20	MP1A	Z	0	1.72
21	MP1A	Mx	-.171	1.72
22	MP1A	X	141.264	5.22
23	MP1A	Z	0	5.22
24	MP1A	Mx	-.171	5.22
25	MP5A	X	141.264	1.72
26	MP5A	Z	0	1.72
27	MP5A	Mx	-.171	1.72
28	MP5A	X	141.264	5.22
29	MP5A	Z	0	5.22
30	MP5A	Mx	-.171	5.22
31	MP2A	X	65.536	2.75
32	MP2A	Z	0	2.75
33	MP2A	Mx	.033	2.75
34	MP4A	X	53.084	2.75
35	MP4A	Z	0	2.75
36	MP4A	Mx	.027	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	180.959	1.72
2	MP3A	Z	104.477	1.72
3	MP3A	Mx	-.079	1.72
4	MP3A	X	180.959	5.22
5	MP3A	Z	104.477	5.22
6	MP3A	Mx	-.079	5.22
7	MP3A	X	180.959	1.72
8	MP3A	Z	104.477	1.72
9	MP3A	Mx	-.253	1.72
10	MP3A	X	180.959	5.22
11	MP3A	Z	104.477	5.22
12	MP3A	Mx	-.253	5.22
13	MP4A	X	58.005	2.47
14	MP4A	Z	33.489	2.47
15	MP4A	Mx	-.029	2.47
16	MP4A	X	58.005	4.47
17	MP4A	Z	33.489	4.47
18	MP4A	Mx	-.029	4.47
19	MP1A	X	126.659	1.72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP1A	Z	73.126	1.72
21	MP1A	Mx	-.153	1.72
22	MP1A	X	126.659	5.22
23	MP1A	Z	73.126	5.22
24	MP1A	Mx	-.153	5.22
25	MP5A	X	126.659	1.72
26	MP5A	Z	73.126	1.72
27	MP5A	Mx	-.153	1.72
28	MP5A	X	126.659	5.22
29	MP5A	Z	73.126	5.22
30	MP5A	Mx	-.153	5.22
31	MP2A	X	63.793	2.75
32	MP2A	Z	36.831	2.75
33	MP2A	Mx	.032	2.75
34	MP4A	X	55.706	2.75
35	MP4A	Z	32.162	2.75
36	MP4A	Mx	.028	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	121.071	1.72
2	MP3A	Z	209.7	1.72
3	MP3A	Mx	.064	1.72
4	MP3A	X	121.071	5.22
5	MP3A	Z	209.7	5.22
6	MP3A	Mx	.064	5.22
7	MP3A	X	121.071	1.72
8	MP3A	Z	209.7	1.72
9	MP3A	Mx	-.286	1.72
10	MP3A	X	121.071	5.22
11	MP3A	Z	209.7	5.22
12	MP3A	Mx	-.286	5.22
13	MP4A	X	52.232	2.47
14	MP4A	Z	90.469	2.47
15	MP4A	Mx	-.026	2.47
16	MP4A	X	52.232	4.47
17	MP4A	Z	90.469	4.47
18	MP4A	Mx	-.026	4.47
19	MP1A	X	78.115	1.72
20	MP1A	Z	135.299	1.72
21	MP1A	Mx	-.094	1.72
22	MP1A	X	78.115	5.22
23	MP1A	Z	135.299	5.22
24	MP1A	Mx	-.094	5.22
25	MP5A	X	78.115	1.72
26	MP5A	Z	135.299	1.72
27	MP5A	Mx	-.094	1.72
28	MP5A	X	78.115	5.22
29	MP5A	Z	135.299	5.22
30	MP5A	Mx	-.094	5.22
31	MP2A	X	44.958	2.75
32	MP2A	Z	77.869	2.75
33	MP2A	Mx	.022	2.75
34	MP4A	X	43.401	2.75
35	MP4A	Z	75.173	2.75
36	MP4A	Mx	.022	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1.72
2	MP3A	Z	258.735	1.72
3	MP3A	Mx	.216	1.72
4	MP3A	X	0	5.22
5	MP3A	Z	258.735	5.22
6	MP3A	Mx	.216	5.22
7	MP3A	X	0	1.72
8	MP3A	Z	258.735	1.72
9	MP3A	Mx	-.216	1.72
10	MP3A	X	0	5.22
11	MP3A	Z	258.735	5.22
12	MP3A	Mx	-.216	5.22
13	MP4A	X	0	2.47
14	MP4A	Z	123.207	2.47
15	MP4A	Mx	0	2.47
16	MP4A	X	0	4.47
17	MP4A	Z	123.207	4.47
18	MP4A	Mx	0	4.47
19	MP1A	X	0	1.72
20	MP1A	Z	161.218	1.72
21	MP1A	Mx	0	1.72
22	MP1A	X	0	5.22
23	MP1A	Z	161.218	5.22
24	MP1A	Mx	0	5.22
25	MP5A	X	0	1.72
26	MP5A	Z	161.218	1.72
27	MP5A	Mx	0	1.72
28	MP5A	X	0	5.22
29	MP5A	Z	161.218	5.22
30	MP5A	Mx	0	5.22
31	MP2A	X	0	2.75
32	MP2A	Z	98.041	2.75
33	MP2A	Mx	0	2.75
34	MP4A	X	0	2.75
35	MP4A	Z	98.041	2.75
36	MP4A	Mx	0	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-121.071	1.72
2	MP3A	Z	209.7	1.72
3	MP3A	Mx	.286	1.72
4	MP3A	X	-121.071	5.22
5	MP3A	Z	209.7	5.22
6	MP3A	Mx	.286	5.22
7	MP3A	X	-121.071	1.72
8	MP3A	Z	209.7	1.72
9	MP3A	Mx	-.064	1.72
10	MP3A	X	-121.071	5.22
11	MP3A	Z	209.7	5.22
12	MP3A	Mx	-.064	5.22
13	MP4A	X	-52.232	2.47
14	MP4A	Z	90.469	2.47
15	MP4A	Mx	.026	2.47
16	MP4A	X	-52.232	4.47
17	MP4A	Z	90.469	4.47

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP4A	Mx	.026	4.47
19	MP1A	X	-78.115	1.72
20	MP1A	Z	135.299	1.72
21	MP1A	Mx	.094	1.72
22	MP1A	X	-78.115	5.22
23	MP1A	Z	135.299	5.22
24	MP1A	Mx	.094	5.22
25	MP5A	X	-78.115	1.72
26	MP5A	Z	135.299	1.72
27	MP5A	Mx	.094	1.72
28	MP5A	X	-78.115	5.22
29	MP5A	Z	135.299	5.22
30	MP5A	Mx	.094	5.22
31	MP2A	X	-44.958	2.75
32	MP2A	Z	77.869	2.75
33	MP2A	Mx	-.022	2.75
34	MP4A	X	-43.401	2.75
35	MP4A	Z	75.173	2.75
36	MP4A	Mx	-.022	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-180.959	1.72
2	MP3A	Z	104.477	1.72
3	MP3A	Mx	.253	1.72
4	MP3A	X	-180.959	5.22
5	MP3A	Z	104.477	5.22
6	MP3A	Mx	.253	5.22
7	MP3A	X	-180.959	1.72
8	MP3A	Z	104.477	1.72
9	MP3A	Mx	.079	1.72
10	MP3A	X	-180.959	5.22
11	MP3A	Z	104.477	5.22
12	MP3A	Mx	.079	5.22
13	MP4A	X	-58.005	2.47
14	MP4A	Z	33.489	2.47
15	MP4A	Mx	.029	2.47
16	MP4A	X	-58.005	4.47
17	MP4A	Z	33.489	4.47
18	MP4A	Mx	.029	4.47
19	MP1A	X	-126.659	1.72
20	MP1A	Z	73.126	1.72
21	MP1A	Mx	.153	1.72
22	MP1A	X	-126.659	5.22
23	MP1A	Z	73.126	5.22
24	MP1A	Mx	.153	5.22
25	MP5A	X	-126.659	1.72
26	MP5A	Z	73.126	1.72
27	MP5A	Mx	.153	1.72
28	MP5A	X	-126.659	5.22
29	MP5A	Z	73.126	5.22
30	MP5A	Mx	.153	5.22
31	MP2A	X	-63.793	2.75
32	MP2A	Z	36.831	2.75
33	MP2A	Mx	-.032	2.75
34	MP4A	X	-55.706	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP4A	Z	32.162	2.75
36	MP4A	Mx	-.028	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-192.359	1.72
2	MP3A	Z	0	1.72
3	MP3A	Mx	.176	1.72
4	MP3A	X	-192.359	5.22
5	MP3A	Z	0	5.22
6	MP3A	Mx	.176	5.22
7	MP3A	X	-192.359	1.72
8	MP3A	Z	0	1.72
9	MP3A	Mx	.176	1.72
10	MP3A	X	-192.359	5.22
11	MP3A	Z	0	5.22
12	MP3A	Mx	.176	5.22
13	MP4A	X	-48.235	2.47
14	MP4A	Z	0	2.47
15	MP4A	Mx	.024	2.47
16	MP4A	X	-48.235	4.47
17	MP4A	Z	0	4.47
18	MP4A	Mx	.024	4.47
19	MP1A	X	-141.264	1.72
20	MP1A	Z	0	1.72
21	MP1A	Mx	.171	1.72
22	MP1A	X	-141.264	5.22
23	MP1A	Z	0	5.22
24	MP1A	Mx	.171	5.22
25	MP5A	X	-141.264	1.72
26	MP5A	Z	0	1.72
27	MP5A	Mx	.171	1.72
28	MP5A	X	-141.264	5.22
29	MP5A	Z	0	5.22
30	MP5A	Mx	.171	5.22
31	MP2A	X	-65.536	2.75
32	MP2A	Z	0	2.75
33	MP2A	Mx	-.033	2.75
34	MP4A	X	-53.084	2.75
35	MP4A	Z	0	2.75
36	MP4A	Mx	-.027	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-180.959	1.72
2	MP3A	Z	-104.477	1.72
3	MP3A	Mx	.079	1.72
4	MP3A	X	-180.959	5.22
5	MP3A	Z	-104.477	5.22
6	MP3A	Mx	.079	5.22
7	MP3A	X	-180.959	1.72
8	MP3A	Z	-104.477	1.72
9	MP3A	Mx	.253	1.72
10	MP3A	X	-180.959	5.22
11	MP3A	Z	-104.477	5.22
12	MP3A	Mx	.253	5.22

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP4A	X	-58.005	2.47
14	MP4A	Z	-33.489	2.47
15	MP4A	Mx	.029	2.47
16	MP4A	X	-58.005	4.47
17	MP4A	Z	-33.489	4.47
18	MP4A	Mx	.029	4.47
19	MP1A	X	-126.659	1.72
20	MP1A	Z	-73.126	1.72
21	MP1A	Mx	.153	1.72
22	MP1A	X	-126.659	5.22
23	MP1A	Z	-73.126	5.22
24	MP1A	Mx	.153	5.22
25	MP5A	X	-126.659	1.72
26	MP5A	Z	-73.126	1.72
27	MP5A	Mx	.153	1.72
28	MP5A	X	-126.659	5.22
29	MP5A	Z	-73.126	5.22
30	MP5A	Mx	.153	5.22
31	MP2A	X	-63.793	2.75
32	MP2A	Z	-36.831	2.75
33	MP2A	Mx	-.032	2.75
34	MP4A	X	-55.706	2.75
35	MP4A	Z	-32.162	2.75
36	MP4A	Mx	-.028	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-121.071	1.72
2	MP3A	Z	-209.7	1.72
3	MP3A	Mx	-.064	1.72
4	MP3A	X	-121.071	5.22
5	MP3A	Z	-209.7	5.22
6	MP3A	Mx	-.064	5.22
7	MP3A	X	-121.071	1.72
8	MP3A	Z	-209.7	1.72
9	MP3A	Mx	.286	1.72
10	MP3A	X	-121.071	5.22
11	MP3A	Z	-209.7	5.22
12	MP3A	Mx	.286	5.22
13	MP4A	X	-52.232	2.47
14	MP4A	Z	-90.469	2.47
15	MP4A	Mx	.026	2.47
16	MP4A	X	-52.232	4.47
17	MP4A	Z	-90.469	4.47
18	MP4A	Mx	.026	4.47
19	MP1A	X	-78.115	1.72
20	MP1A	Z	-135.299	1.72
21	MP1A	Mx	.094	1.72
22	MP1A	X	-78.115	5.22
23	MP1A	Z	-135.299	5.22
24	MP1A	Mx	.094	5.22
25	MP5A	X	-78.115	1.72
26	MP5A	Z	-135.299	1.72
27	MP5A	Mx	.094	1.72
28	MP5A	X	-78.115	5.22
29	MP5A	Z	-135.299	5.22

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP5A	Mx	.094	5.22
31	MP2A	X	-44.958	2.75
32	MP2A	Z	-77.869	2.75
33	MP2A	Mx	-.022	2.75
34	MP4A	X	-43.401	2.75
35	MP4A	Z	-75.173	2.75
36	MP4A	Mx	-.022	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1.72
2	MP3A	Z	-45.936	1.72
3	MP3A	Mx	-.038	1.72
4	MP3A	X	0	5.22
5	MP3A	Z	-45.936	5.22
6	MP3A	Mx	-.038	5.22
7	MP3A	X	0	1.72
8	MP3A	Z	-45.936	1.72
9	MP3A	Mx	.038	1.72
10	MP3A	X	0	5.22
11	MP3A	Z	-45.936	5.22
12	MP3A	Mx	.038	5.22
13	MP4A	X	0	2.47
14	MP4A	Z	-22.673	2.47
15	MP4A	Mx	0	2.47
16	MP4A	X	0	4.47
17	MP4A	Z	-22.673	4.47
18	MP4A	Mx	0	4.47
19	MP1A	X	0	1.72
20	MP1A	Z	-29.097	1.72
21	MP1A	Mx	0	1.72
22	MP1A	X	0	5.22
23	MP1A	Z	-29.097	5.22
24	MP1A	Mx	0	5.22
25	MP5A	X	0	1.72
26	MP5A	Z	-29.097	1.72
27	MP5A	Mx	0	1.72
28	MP5A	X	0	5.22
29	MP5A	Z	-29.097	5.22
30	MP5A	Mx	0	5.22
31	MP2A	X	0	2.75
32	MP2A	Z	-19.126	2.75
33	MP2A	Mx	0	2.75
34	MP4A	X	0	2.75
35	MP4A	Z	-19.126	2.75
36	MP4A	Mx	0	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	21.571	1.72
2	MP3A	Z	-37.363	1.72
3	MP3A	Mx	-.051	1.72
4	MP3A	X	21.571	5.22
5	MP3A	Z	-37.363	5.22
6	MP3A	Mx	-.051	5.22
7	MP3A	X	21.571	1.72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP3A	Z	-37.363	1.72
9	MP3A	Mx	.011	1.72
10	MP3A	X	21.571	5.22
11	MP3A	Z	-37.363	5.22
12	MP3A	Mx	.011	5.22
13	MP4A	X	9.711	2.47
14	MP4A	Z	-16.821	2.47
15	MP4A	Mx	-.005	2.47
16	MP4A	X	9.711	4.47
17	MP4A	Z	-16.821	4.47
18	MP4A	Mx	-.005	4.47
19	MP1A	X	14.132	1.72
20	MP1A	Z	-24.478	1.72
21	MP1A	Mx	-.017	1.72
22	MP1A	X	14.132	5.22
23	MP1A	Z	-24.478	5.22
24	MP1A	Mx	-.017	5.22
25	MP5A	X	14.132	1.72
26	MP5A	Z	-24.478	1.72
27	MP5A	Mx	-.017	1.72
28	MP5A	X	14.132	5.22
29	MP5A	Z	-24.478	5.22
30	MP5A	Mx	-.017	5.22
31	MP2A	X	8.836	2.75
32	MP2A	Z	-15.305	2.75
33	MP2A	Mx	.004	2.75
34	MP4A	X	8.56	2.75
35	MP4A	Z	-14.827	2.75
36	MP4A	Mx	.004	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	32.524	1.72
2	MP3A	Z	-18.778	1.72
3	MP3A	Mx	-.045	1.72
4	MP3A	X	32.524	5.22
5	MP3A	Z	-18.778	5.22
6	MP3A	Mx	-.045	5.22
7	MP3A	X	32.524	1.72
8	MP3A	Z	-18.778	1.72
9	MP3A	Mx	-.014	1.72
10	MP3A	X	32.524	5.22
11	MP3A	Z	-18.778	5.22
12	MP3A	Mx	-.014	5.22
13	MP4A	X	11.191	2.47
14	MP4A	Z	-6.461	2.47
15	MP4A	Mx	-.006	2.47
16	MP4A	X	11.191	4.47
17	MP4A	Z	-6.461	4.47
18	MP4A	Mx	-.006	4.47
19	MP1A	X	23.036	1.72
20	MP1A	Z	-13.3	1.72
21	MP1A	Mx	-.028	1.72
22	MP1A	X	23.036	5.22
23	MP1A	Z	-13.3	5.22
24	MP1A	Mx	-.028	5.22

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP5A	X	23.036	1.72
26	MP5A	Z	-13.3	1.72
27	MP5A	Mx	-.028	1.72
28	MP5A	X	23.036	5.22
29	MP5A	Z	-13.3	5.22
30	MP5A	Mx	-.028	5.22
31	MP2A	X	12.788	2.75
32	MP2A	Z	-7.383	2.75
33	MP2A	Mx	.006	2.75
34	MP4A	X	11.353	2.75
35	MP4A	Z	-6.555	2.75
36	MP4A	Mx	.006	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	34.761	1.72
2	MP3A	Z	0	1.72
3	MP3A	Mx	-.032	1.72
4	MP3A	X	34.761	5.22
5	MP3A	Z	0	5.22
6	MP3A	Mx	-.032	5.22
7	MP3A	X	34.761	1.72
8	MP3A	Z	0	1.72
9	MP3A	Mx	-.032	1.72
10	MP3A	X	34.761	5.22
11	MP3A	Z	0	5.22
12	MP3A	Mx	-.032	5.22
13	MP4A	X	9.671	2.47
14	MP4A	Z	0	2.47
15	MP4A	Mx	-.005	2.47
16	MP4A	X	9.671	4.47
17	MP4A	Z	0	4.47
18	MP4A	Mx	-.005	4.47
19	MP1A	X	25.767	1.72
20	MP1A	Z	0	1.72
21	MP1A	Mx	-.031	1.72
22	MP1A	X	25.767	5.22
23	MP1A	Z	0	5.22
24	MP1A	Mx	-.031	5.22
25	MP5A	X	25.767	1.72
26	MP5A	Z	0	1.72
27	MP5A	Mx	-.031	1.72
28	MP5A	X	25.767	5.22
29	MP5A	Z	0	5.22
30	MP5A	Mx	-.031	5.22
31	MP2A	X	13.313	2.75
32	MP2A	Z	0	2.75
33	MP2A	Mx	.007	2.75
34	MP4A	X	11.103	2.75
35	MP4A	Z	0	2.75
36	MP4A	Mx	.006	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	32.524	1.72
2	MP3A	Z	18.778	1.72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP3A	Mx	-.014	1.72
4	MP3A	X	32.524	5.22
5	MP3A	Z	18.778	5.22
6	MP3A	Mx	-.014	5.22
7	MP3A	X	32.524	1.72
8	MP3A	Z	18.778	1.72
9	MP3A	Mx	-.045	1.72
10	MP3A	X	32.524	5.22
11	MP3A	Z	18.778	5.22
12	MP3A	Mx	-.045	5.22
13	MP4A	X	11.191	2.47
14	MP4A	Z	6.461	2.47
15	MP4A	Mx	-.006	2.47
16	MP4A	X	11.191	4.47
17	MP4A	Z	6.461	4.47
18	MP4A	Mx	-.006	4.47
19	MP1A	X	23.036	1.72
20	MP1A	Z	13.3	1.72
21	MP1A	Mx	-.028	1.72
22	MP1A	X	23.036	5.22
23	MP1A	Z	13.3	5.22
24	MP1A	Mx	-.028	5.22
25	MP5A	X	23.036	1.72
26	MP5A	Z	13.3	1.72
27	MP5A	Mx	-.028	1.72
28	MP5A	X	23.036	5.22
29	MP5A	Z	13.3	5.22
30	MP5A	Mx	-.028	5.22
31	MP2A	X	12.788	2.75
32	MP2A	Z	7.383	2.75
33	MP2A	Mx	.006	2.75
34	MP4A	X	11.353	2.75
35	MP4A	Z	6.555	2.75
36	MP4A	Mx	.006	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	21.571	1.72
2	MP3A	Z	37.363	1.72
3	MP3A	Mx	.011	1.72
4	MP3A	X	21.571	5.22
5	MP3A	Z	37.363	5.22
6	MP3A	Mx	.011	5.22
7	MP3A	X	21.571	1.72
8	MP3A	Z	37.363	1.72
9	MP3A	Mx	-.051	1.72
10	MP3A	X	21.571	5.22
11	MP3A	Z	37.363	5.22
12	MP3A	Mx	-.051	5.22
13	MP4A	X	9.711	2.47
14	MP4A	Z	16.821	2.47
15	MP4A	Mx	-.005	2.47
16	MP4A	X	9.711	4.47
17	MP4A	Z	16.821	4.47
18	MP4A	Mx	-.005	4.47
19	MP1A	X	14.132	1.72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP1A	Z	24.478	1.72
21	MP1A	Mx	-.017	1.72
22	MP1A	X	14.132	5.22
23	MP1A	Z	24.478	5.22
24	MP1A	Mx	-.017	5.22
25	MP5A	X	14.132	1.72
26	MP5A	Z	24.478	1.72
27	MP5A	Mx	-.017	1.72
28	MP5A	X	14.132	5.22
29	MP5A	Z	24.478	5.22
30	MP5A	Mx	-.017	5.22
31	MP2A	X	8.836	2.75
32	MP2A	Z	15.305	2.75
33	MP2A	Mx	.004	2.75
34	MP4A	X	8.56	2.75
35	MP4A	Z	14.827	2.75
36	MP4A	Mx	.004	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1.72
2	MP3A	Z	45.936	1.72
3	MP3A	Mx	.038	1.72
4	MP3A	X	0	5.22
5	MP3A	Z	45.936	5.22
6	MP3A	Mx	.038	5.22
7	MP3A	X	0	1.72
8	MP3A	Z	45.936	1.72
9	MP3A	Mx	-.038	1.72
10	MP3A	X	0	5.22
11	MP3A	Z	45.936	5.22
12	MP3A	Mx	-.038	5.22
13	MP4A	X	0	2.47
14	MP4A	Z	22.673	2.47
15	MP4A	Mx	0	2.47
16	MP4A	X	0	4.47
17	MP4A	Z	22.673	4.47
18	MP4A	Mx	0	4.47
19	MP1A	X	0	1.72
20	MP1A	Z	29.097	1.72
21	MP1A	Mx	0	1.72
22	MP1A	X	0	5.22
23	MP1A	Z	29.097	5.22
24	MP1A	Mx	0	5.22
25	MP5A	X	0	1.72
26	MP5A	Z	29.097	1.72
27	MP5A	Mx	0	1.72
28	MP5A	X	0	5.22
29	MP5A	Z	29.097	5.22
30	MP5A	Mx	0	5.22
31	MP2A	X	0	2.75
32	MP2A	Z	19.126	2.75
33	MP2A	Mx	0	2.75
34	MP4A	X	0	2.75
35	MP4A	Z	19.126	2.75
36	MP4A	Mx	0	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-21.571	1.72
2	MP3A	Z	37.363	1.72
3	MP3A	Mx	.051	1.72
4	MP3A	X	-21.571	5.22
5	MP3A	Z	37.363	5.22
6	MP3A	Mx	.051	5.22
7	MP3A	X	-21.571	1.72
8	MP3A	Z	37.363	1.72
9	MP3A	Mx	-.011	1.72
10	MP3A	X	-21.571	5.22
11	MP3A	Z	37.363	5.22
12	MP3A	Mx	-.011	5.22
13	MP4A	X	-9.711	2.47
14	MP4A	Z	16.821	2.47
15	MP4A	Mx	.005	2.47
16	MP4A	X	-9.711	4.47
17	MP4A	Z	16.821	4.47
18	MP4A	Mx	.005	4.47
19	MP1A	X	-14.132	1.72
20	MP1A	Z	24.478	1.72
21	MP1A	Mx	.017	1.72
22	MP1A	X	-14.132	5.22
23	MP1A	Z	24.478	5.22
24	MP1A	Mx	.017	5.22
25	MP5A	X	-14.132	1.72
26	MP5A	Z	24.478	1.72
27	MP5A	Mx	.017	1.72
28	MP5A	X	-14.132	5.22
29	MP5A	Z	24.478	5.22
30	MP5A	Mx	.017	5.22
31	MP2A	X	-8.836	2.75
32	MP2A	Z	15.305	2.75
33	MP2A	Mx	-.004	2.75
34	MP4A	X	-8.56	2.75
35	MP4A	Z	14.827	2.75
36	MP4A	Mx	-.004	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-32.524	1.72
2	MP3A	Z	18.778	1.72
3	MP3A	Mx	.045	1.72
4	MP3A	X	-32.524	5.22
5	MP3A	Z	18.778	5.22
6	MP3A	Mx	.045	5.22
7	MP3A	X	-32.524	1.72
8	MP3A	Z	18.778	1.72
9	MP3A	Mx	.014	1.72
10	MP3A	X	-32.524	5.22
11	MP3A	Z	18.778	5.22
12	MP3A	Mx	.014	5.22
13	MP4A	X	-11.191	2.47
14	MP4A	Z	6.461	2.47
15	MP4A	Mx	.006	2.47
16	MP4A	X	-11.191	4.47
17	MP4A	Z	6.461	4.47

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP4A	Mx	.006	4.47
19	MP1A	X	-23.036	1.72
20	MP1A	Z	13.3	1.72
21	MP1A	Mx	.028	1.72
22	MP1A	X	-23.036	5.22
23	MP1A	Z	13.3	5.22
24	MP1A	Mx	.028	5.22
25	MP5A	X	-23.036	1.72
26	MP5A	Z	13.3	1.72
27	MP5A	Mx	.028	1.72
28	MP5A	X	-23.036	5.22
29	MP5A	Z	13.3	5.22
30	MP5A	Mx	.028	5.22
31	MP2A	X	-12.788	2.75
32	MP2A	Z	7.383	2.75
33	MP2A	Mx	-.006	2.75
34	MP4A	X	-11.353	2.75
35	MP4A	Z	6.555	2.75
36	MP4A	Mx	-.006	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-34.761	1.72
2	MP3A	Z	0	1.72
3	MP3A	Mx	.032	1.72
4	MP3A	X	-34.761	5.22
5	MP3A	Z	0	5.22
6	MP3A	Mx	.032	5.22
7	MP3A	X	-34.761	1.72
8	MP3A	Z	0	1.72
9	MP3A	Mx	.032	1.72
10	MP3A	X	-34.761	5.22
11	MP3A	Z	0	5.22
12	MP3A	Mx	.032	5.22
13	MP4A	X	-9.671	2.47
14	MP4A	Z	0	2.47
15	MP4A	Mx	.005	2.47
16	MP4A	X	-9.671	4.47
17	MP4A	Z	0	4.47
18	MP4A	Mx	.005	4.47
19	MP1A	X	-25.767	1.72
20	MP1A	Z	0	1.72
21	MP1A	Mx	.031	1.72
22	MP1A	X	-25.767	5.22
23	MP1A	Z	0	5.22
24	MP1A	Mx	.031	5.22
25	MP5A	X	-25.767	1.72
26	MP5A	Z	0	1.72
27	MP5A	Mx	.031	1.72
28	MP5A	X	-25.767	5.22
29	MP5A	Z	0	5.22
30	MP5A	Mx	.031	5.22
31	MP2A	X	-13.313	2.75
32	MP2A	Z	0	2.75
33	MP2A	Mx	-.007	2.75
34	MP4A	X	-11.103	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP4A	Z	0	2.75
36	MP4A	Mx	-.006	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-32.524	1.72
2	MP3A	Z	-18.778	1.72
3	MP3A	Mx	.014	1.72
4	MP3A	X	-32.524	5.22
5	MP3A	Z	-18.778	5.22
6	MP3A	Mx	.014	5.22
7	MP3A	X	-32.524	1.72
8	MP3A	Z	-18.778	1.72
9	MP3A	Mx	.045	1.72
10	MP3A	X	-32.524	5.22
11	MP3A	Z	-18.778	5.22
12	MP3A	Mx	.045	5.22
13	MP4A	X	-11.191	2.47
14	MP4A	Z	-6.461	2.47
15	MP4A	Mx	.006	2.47
16	MP4A	X	-11.191	4.47
17	MP4A	Z	-6.461	4.47
18	MP4A	Mx	.006	4.47
19	MP1A	X	-23.036	1.72
20	MP1A	Z	-13.3	1.72
21	MP1A	Mx	.028	1.72
22	MP1A	X	-23.036	5.22
23	MP1A	Z	-13.3	5.22
24	MP1A	Mx	.028	5.22
25	MP5A	X	-23.036	1.72
26	MP5A	Z	-13.3	1.72
27	MP5A	Mx	.028	1.72
28	MP5A	X	-23.036	5.22
29	MP5A	Z	-13.3	5.22
30	MP5A	Mx	.028	5.22
31	MP2A	X	-12.788	2.75
32	MP2A	Z	-7.383	2.75
33	MP2A	Mx	-.006	2.75
34	MP4A	X	-11.353	2.75
35	MP4A	Z	-6.555	2.75
36	MP4A	Mx	-.006	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-21.571	1.72
2	MP3A	Z	-37.363	1.72
3	MP3A	Mx	-.011	1.72
4	MP3A	X	-21.571	5.22
5	MP3A	Z	-37.363	5.22
6	MP3A	Mx	-.011	5.22
7	MP3A	X	-21.571	1.72
8	MP3A	Z	-37.363	1.72
9	MP3A	Mx	.051	1.72
10	MP3A	X	-21.571	5.22
11	MP3A	Z	-37.363	5.22
12	MP3A	Mx	.051	5.22

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP4A	X	-9.711	2.47
14	MP4A	Z	-16.821	2.47
15	MP4A	Mx	.005	2.47
16	MP4A	X	-9.711	4.47
17	MP4A	Z	-16.821	4.47
18	MP4A	Mx	.005	4.47
19	MP1A	X	-14.132	1.72
20	MP1A	Z	-24.478	1.72
21	MP1A	Mx	.017	1.72
22	MP1A	X	-14.132	5.22
23	MP1A	Z	-24.478	5.22
24	MP1A	Mx	.017	5.22
25	MP5A	X	-14.132	1.72
26	MP5A	Z	-24.478	1.72
27	MP5A	Mx	.017	1.72
28	MP5A	X	-14.132	5.22
29	MP5A	Z	-24.478	5.22
30	MP5A	Mx	.017	5.22
31	MP2A	X	-8.836	2.75
32	MP2A	Z	-15.305	2.75
33	MP2A	Mx	-.004	2.75
34	MP4A	X	-8.56	2.75
35	MP4A	Z	-14.827	2.75
36	MP4A	Mx	-.004	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1.72
2	MP3A	Z	-15.144	1.72
3	MP3A	Mx	-.013	1.72
4	MP3A	X	0	5.22
5	MP3A	Z	-15.144	5.22
6	MP3A	Mx	-.013	5.22
7	MP3A	X	0	1.72
8	MP3A	Z	-15.144	1.72
9	MP3A	Mx	.013	1.72
10	MP3A	X	0	5.22
11	MP3A	Z	-15.144	5.22
12	MP3A	Mx	.013	5.22
13	MP4A	X	0	2.47
14	MP4A	Z	-7.212	2.47
15	MP4A	Mx	0	2.47
16	MP4A	X	0	4.47
17	MP4A	Z	-7.212	4.47
18	MP4A	Mx	0	4.47
19	MP1A	X	0	1.72
20	MP1A	Z	-9.437	1.72
21	MP1A	Mx	0	1.72
22	MP1A	X	0	5.22
23	MP1A	Z	-9.437	5.22
24	MP1A	Mx	0	5.22
25	MP5A	X	0	1.72
26	MP5A	Z	-9.437	1.72
27	MP5A	Mx	0	1.72
28	MP5A	X	0	5.22
29	MP5A	Z	-9.437	5.22

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP5A	Mx	0	5.22
31	MP2A	X	0	2.75
32	MP2A	Z	-5.739	2.75
33	MP2A	Mx	0	2.75
34	MP4A	X	0	2.75
35	MP4A	Z	-5.739	2.75
36	MP4A	Mx	0	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	7.087	1.72
2	MP3A	Z	-12.274	1.72
3	MP3A	Mx	-.017	1.72
4	MP3A	X	7.087	5.22
5	MP3A	Z	-12.274	5.22
6	MP3A	Mx	-.017	5.22
7	MP3A	X	7.087	1.72
8	MP3A	Z	-12.274	1.72
9	MP3A	Mx	.004	1.72
10	MP3A	X	7.087	5.22
11	MP3A	Z	-12.274	5.22
12	MP3A	Mx	.004	5.22
13	MP4A	X	3.057	2.47
14	MP4A	Z	-5.295	2.47
15	MP4A	Mx	-.002	2.47
16	MP4A	X	3.057	4.47
17	MP4A	Z	-5.295	4.47
18	MP4A	Mx	-.002	4.47
19	MP1A	X	4.572	1.72
20	MP1A	Z	-7.919	1.72
21	MP1A	Mx	-.006	1.72
22	MP1A	X	4.572	5.22
23	MP1A	Z	-7.919	5.22
24	MP1A	Mx	-.006	5.22
25	MP5A	X	4.572	1.72
26	MP5A	Z	-7.919	1.72
27	MP5A	Mx	-.006	1.72
28	MP5A	X	4.572	5.22
29	MP5A	Z	-7.919	5.22
30	MP5A	Mx	-.006	5.22
31	MP2A	X	2.631	2.75
32	MP2A	Z	-4.558	2.75
33	MP2A	Mx	.001	2.75
34	MP4A	X	2.54	2.75
35	MP4A	Z	-4.4	2.75
36	MP4A	Mx	.001	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	10.592	1.72
2	MP3A	Z	-6.115	1.72
3	MP3A	Mx	-.015	1.72
4	MP3A	X	10.592	5.22
5	MP3A	Z	-6.115	5.22
6	MP3A	Mx	-.015	5.22
7	MP3A	X	10.592	1.72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP3A	Z	-6.115	1.72
9	MP3A	Mx	-.005	1.72
10	MP3A	X	10.592	5.22
11	MP3A	Z	-6.115	5.22
12	MP3A	Mx	-.005	5.22
13	MP4A	X	3.395	2.47
14	MP4A	Z	-1.96	2.47
15	MP4A	Mx	-.002	2.47
16	MP4A	X	3.395	4.47
17	MP4A	Z	-1.96	4.47
18	MP4A	Mx	-.002	4.47
19	MP1A	X	7.414	1.72
20	MP1A	Z	-4.28	1.72
21	MP1A	Mx	-.009	1.72
22	MP1A	X	7.414	5.22
23	MP1A	Z	-4.28	5.22
24	MP1A	Mx	-.009	5.22
25	MP5A	X	7.414	1.72
26	MP5A	Z	-4.28	1.72
27	MP5A	Mx	-.009	1.72
28	MP5A	X	7.414	5.22
29	MP5A	Z	-4.28	5.22
30	MP5A	Mx	-.009	5.22
31	MP2A	X	3.734	2.75
32	MP2A	Z	-2.156	2.75
33	MP2A	Mx	.002	2.75
34	MP4A	X	3.261	2.75
35	MP4A	Z	-1.883	2.75
36	MP4A	Mx	.002	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	11.259	1.72
2	MP3A	Z	0	1.72
3	MP3A	Mx	-.01	1.72
4	MP3A	X	11.259	5.22
5	MP3A	Z	0	5.22
6	MP3A	Mx	-.01	5.22
7	MP3A	X	11.259	1.72
8	MP3A	Z	0	1.72
9	MP3A	Mx	-.01	1.72
10	MP3A	X	11.259	5.22
11	MP3A	Z	0	5.22
12	MP3A	Mx	-.01	5.22
13	MP4A	X	2.823	2.47
14	MP4A	Z	0	2.47
15	MP4A	Mx	-.001	2.47
16	MP4A	X	2.823	4.47
17	MP4A	Z	0	4.47
18	MP4A	Mx	-.001	4.47
19	MP1A	X	8.269	1.72
20	MP1A	Z	0	1.72
21	MP1A	Mx	-.01	1.72
22	MP1A	X	8.269	5.22
23	MP1A	Z	0	5.22
24	MP1A	Mx	-.01	5.22

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP5A	X	8.269	1.72
26	MP5A	Z	0	1.72
27	MP5A	Mx	-.01	1.72
28	MP5A	X	8.269	5.22
29	MP5A	Z	0	5.22
30	MP5A	Mx	-.01	5.22
31	MP2A	X	3.836	2.75
32	MP2A	Z	0	2.75
33	MP2A	Mx	.002	2.75
34	MP4A	X	3.107	2.75
35	MP4A	Z	0	2.75
36	MP4A	Mx	.002	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	10.592	1.72
2	MP3A	Z	6.115	1.72
3	MP3A	Mx	-.005	1.72
4	MP3A	X	10.592	5.22
5	MP3A	Z	6.115	5.22
6	MP3A	Mx	-.005	5.22
7	MP3A	X	10.592	1.72
8	MP3A	Z	6.115	1.72
9	MP3A	Mx	-.015	1.72
10	MP3A	X	10.592	5.22
11	MP3A	Z	6.115	5.22
12	MP3A	Mx	-.015	5.22
13	MP4A	X	3.395	2.47
14	MP4A	Z	1.96	2.47
15	MP4A	Mx	-.002	2.47
16	MP4A	X	3.395	4.47
17	MP4A	Z	1.96	4.47
18	MP4A	Mx	-.002	4.47
19	MP1A	X	7.414	1.72
20	MP1A	Z	4.28	1.72
21	MP1A	Mx	-.009	1.72
22	MP1A	X	7.414	5.22
23	MP1A	Z	4.28	5.22
24	MP1A	Mx	-.009	5.22
25	MP5A	X	7.414	1.72
26	MP5A	Z	4.28	1.72
27	MP5A	Mx	-.009	1.72
28	MP5A	X	7.414	5.22
29	MP5A	Z	4.28	5.22
30	MP5A	Mx	-.009	5.22
31	MP2A	X	3.734	2.75
32	MP2A	Z	2.156	2.75
33	MP2A	Mx	.002	2.75
34	MP4A	X	3.261	2.75
35	MP4A	Z	1.883	2.75
36	MP4A	Mx	.002	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	7.087	1.72
2	MP3A	Z	12.274	1.72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP3A	Mx	.004	1.72
4	MP3A	X	7.087	5.22
5	MP3A	Z	12.274	5.22
6	MP3A	Mx	.004	5.22
7	MP3A	X	7.087	1.72
8	MP3A	Z	12.274	1.72
9	MP3A	Mx	-.017	1.72
10	MP3A	X	7.087	5.22
11	MP3A	Z	12.274	5.22
12	MP3A	Mx	-.017	5.22
13	MP4A	X	3.057	2.47
14	MP4A	Z	5.295	2.47
15	MP4A	Mx	-.002	2.47
16	MP4A	X	3.057	4.47
17	MP4A	Z	5.295	4.47
18	MP4A	Mx	-.002	4.47
19	MP1A	X	4.572	1.72
20	MP1A	Z	7.919	1.72
21	MP1A	Mx	-.006	1.72
22	MP1A	X	4.572	5.22
23	MP1A	Z	7.919	5.22
24	MP1A	Mx	-.006	5.22
25	MP5A	X	4.572	1.72
26	MP5A	Z	7.919	1.72
27	MP5A	Mx	-.006	1.72
28	MP5A	X	4.572	5.22
29	MP5A	Z	7.919	5.22
30	MP5A	Mx	-.006	5.22
31	MP2A	X	2.631	2.75
32	MP2A	Z	4.558	2.75
33	MP2A	Mx	.001	2.75
34	MP4A	X	2.54	2.75
35	MP4A	Z	4.4	2.75
36	MP4A	Mx	.001	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1.72
2	MP3A	Z	15.144	1.72
3	MP3A	Mx	.013	1.72
4	MP3A	X	0	5.22
5	MP3A	Z	15.144	5.22
6	MP3A	Mx	.013	5.22
7	MP3A	X	0	1.72
8	MP3A	Z	15.144	1.72
9	MP3A	Mx	-.013	1.72
10	MP3A	X	0	5.22
11	MP3A	Z	15.144	5.22
12	MP3A	Mx	-.013	5.22
13	MP4A	X	0	2.47
14	MP4A	Z	7.212	2.47
15	MP4A	Mx	0	2.47
16	MP4A	X	0	4.47
17	MP4A	Z	7.212	4.47
18	MP4A	Mx	0	4.47
19	MP1A	X	0	1.72

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP1A	Z	9.437	1.72
21	MP1A	Mx	0	1.72
22	MP1A	X	0	5.22
23	MP1A	Z	9.437	5.22
24	MP1A	Mx	0	5.22
25	MP5A	X	0	1.72
26	MP5A	Z	9.437	1.72
27	MP5A	Mx	0	1.72
28	MP5A	X	0	5.22
29	MP5A	Z	9.437	5.22
30	MP5A	Mx	0	5.22
31	MP2A	X	0	2.75
32	MP2A	Z	5.739	2.75
33	MP2A	Mx	0	2.75
34	MP4A	X	0	2.75
35	MP4A	Z	5.739	2.75
36	MP4A	Mx	0	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-7.087	1.72
2	MP3A	Z	12.274	1.72
3	MP3A	Mx	.017	1.72
4	MP3A	X	-7.087	5.22
5	MP3A	Z	12.274	5.22
6	MP3A	Mx	.017	5.22
7	MP3A	X	-7.087	1.72
8	MP3A	Z	12.274	1.72
9	MP3A	Mx	-.004	1.72
10	MP3A	X	-7.087	5.22
11	MP3A	Z	12.274	5.22
12	MP3A	Mx	-.004	5.22
13	MP4A	X	-3.057	2.47
14	MP4A	Z	5.295	2.47
15	MP4A	Mx	.002	2.47
16	MP4A	X	-3.057	4.47
17	MP4A	Z	5.295	4.47
18	MP4A	Mx	.002	4.47
19	MP1A	X	-4.572	1.72
20	MP1A	Z	7.919	1.72
21	MP1A	Mx	.006	1.72
22	MP1A	X	-4.572	5.22
23	MP1A	Z	7.919	5.22
24	MP1A	Mx	.006	5.22
25	MP5A	X	-4.572	1.72
26	MP5A	Z	7.919	1.72
27	MP5A	Mx	.006	1.72
28	MP5A	X	-4.572	5.22
29	MP5A	Z	7.919	5.22
30	MP5A	Mx	.006	5.22
31	MP2A	X	-2.631	2.75
32	MP2A	Z	4.558	2.75
33	MP2A	Mx	-.001	2.75
34	MP4A	X	-2.54	2.75
35	MP4A	Z	4.4	2.75
36	MP4A	Mx	-.001	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-10.592	1.72
2	MP3A	Z	6.115	1.72
3	MP3A	Mx	.015	1.72
4	MP3A	X	-10.592	5.22
5	MP3A	Z	6.115	5.22
6	MP3A	Mx	.015	5.22
7	MP3A	X	-10.592	1.72
8	MP3A	Z	6.115	1.72
9	MP3A	Mx	.005	1.72
10	MP3A	X	-10.592	5.22
11	MP3A	Z	6.115	5.22
12	MP3A	Mx	.005	5.22
13	MP4A	X	-3.395	2.47
14	MP4A	Z	1.96	2.47
15	MP4A	Mx	.002	2.47
16	MP4A	X	-3.395	4.47
17	MP4A	Z	1.96	4.47
18	MP4A	Mx	.002	4.47
19	MP1A	X	-7.414	1.72
20	MP1A	Z	4.28	1.72
21	MP1A	Mx	.009	1.72
22	MP1A	X	-7.414	5.22
23	MP1A	Z	4.28	5.22
24	MP1A	Mx	.009	5.22
25	MP5A	X	-7.414	1.72
26	MP5A	Z	4.28	1.72
27	MP5A	Mx	.009	1.72
28	MP5A	X	-7.414	5.22
29	MP5A	Z	4.28	5.22
30	MP5A	Mx	.009	5.22
31	MP2A	X	-3.734	2.75
32	MP2A	Z	2.156	2.75
33	MP2A	Mx	-.002	2.75
34	MP4A	X	-3.261	2.75
35	MP4A	Z	1.883	2.75
36	MP4A	Mx	-.002	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-11.259	1.72
2	MP3A	Z	0	1.72
3	MP3A	Mx	.01	1.72
4	MP3A	X	-11.259	5.22
5	MP3A	Z	0	5.22
6	MP3A	Mx	.01	5.22
7	MP3A	X	-11.259	1.72
8	MP3A	Z	0	1.72
9	MP3A	Mx	.01	1.72
10	MP3A	X	-11.259	5.22
11	MP3A	Z	0	5.22
12	MP3A	Mx	.01	5.22
13	MP4A	X	-2.823	2.47
14	MP4A	Z	0	2.47
15	MP4A	Mx	.001	2.47
16	MP4A	X	-2.823	4.47
17	MP4A	Z	0	4.47

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP4A	Mx	.001	4.47
19	MP1A	X	-8.269	1.72
20	MP1A	Z	0	1.72
21	MP1A	Mx	.01	1.72
22	MP1A	X	-8.269	5.22
23	MP1A	Z	0	5.22
24	MP1A	Mx	.01	5.22
25	MP5A	X	-8.269	1.72
26	MP5A	Z	0	1.72
27	MP5A	Mx	.01	1.72
28	MP5A	X	-8.269	5.22
29	MP5A	Z	0	5.22
30	MP5A	Mx	.01	5.22
31	MP2A	X	-3.836	2.75
32	MP2A	Z	0	2.75
33	MP2A	Mx	-.002	2.75
34	MP4A	X	-3.107	2.75
35	MP4A	Z	0	2.75
36	MP4A	Mx	-.002	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-10.592	1.72
2	MP3A	Z	-6.115	1.72
3	MP3A	Mx	.005	1.72
4	MP3A	X	-10.592	5.22
5	MP3A	Z	-6.115	5.22
6	MP3A	Mx	.005	5.22
7	MP3A	X	-10.592	1.72
8	MP3A	Z	-6.115	1.72
9	MP3A	Mx	.015	1.72
10	MP3A	X	-10.592	5.22
11	MP3A	Z	-6.115	5.22
12	MP3A	Mx	.015	5.22
13	MP4A	X	-3.395	2.47
14	MP4A	Z	-1.96	2.47
15	MP4A	Mx	.002	2.47
16	MP4A	X	-3.395	4.47
17	MP4A	Z	-1.96	4.47
18	MP4A	Mx	.002	4.47
19	MP1A	X	-7.414	1.72
20	MP1A	Z	-4.28	1.72
21	MP1A	Mx	.009	1.72
22	MP1A	X	-7.414	5.22
23	MP1A	Z	-4.28	5.22
24	MP1A	Mx	.009	5.22
25	MP5A	X	-7.414	1.72
26	MP5A	Z	-4.28	1.72
27	MP5A	Mx	.009	1.72
28	MP5A	X	-7.414	5.22
29	MP5A	Z	-4.28	5.22
30	MP5A	Mx	.009	5.22
31	MP2A	X	-3.734	2.75
32	MP2A	Z	-2.156	2.75
33	MP2A	Mx	-.002	2.75
34	MP4A	X	-3.261	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP4A	Z	-1.883	2.75
36	MP4A	Mx	-.002	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-7.087	1.72
2	MP3A	Z	-12.274	1.72
3	MP3A	Mx	-.004	1.72
4	MP3A	X	-7.087	5.22
5	MP3A	Z	-12.274	5.22
6	MP3A	Mx	-.004	5.22
7	MP3A	X	-7.087	1.72
8	MP3A	Z	-12.274	1.72
9	MP3A	Mx	.017	1.72
10	MP3A	X	-7.087	5.22
11	MP3A	Z	-12.274	5.22
12	MP3A	Mx	.017	5.22
13	MP4A	X	-3.057	2.47
14	MP4A	Z	-5.295	2.47
15	MP4A	Mx	.002	2.47
16	MP4A	X	-3.057	4.47
17	MP4A	Z	-5.295	4.47
18	MP4A	Mx	.002	4.47
19	MP1A	X	-4.572	1.72
20	MP1A	Z	-7.919	1.72
21	MP1A	Mx	.006	1.72
22	MP1A	X	-4.572	5.22
23	MP1A	Z	-7.919	5.22
24	MP1A	Mx	.006	5.22
25	MP5A	X	-4.572	1.72
26	MP5A	Z	-7.919	1.72
27	MP5A	Mx	.006	1.72
28	MP5A	X	-4.572	5.22
29	MP5A	Z	-7.919	5.22
30	MP5A	Mx	.006	5.22
31	MP2A	X	-2.631	2.75
32	MP2A	Z	-4.558	2.75
33	MP2A	Mx	-.001	2.75
34	MP4A	X	-2.54	2.75
35	MP4A	Z	-4.4	2.75
36	MP4A	Mx	-.001	2.75

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%54.73

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%97.973

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-250	0

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-8.77	-8.77	0	%100
2	M2	Y	-8.77	-8.77	0	%100
3	M3	Y	-13.834	-13.834	0	%100
4	M4	Y	-13.834	-13.834	0	%100
5	M5	Y	-5.731	-5.731	0	%100
6	M6	Y	-5.731	-5.731	0	%100
7	M7	Y	-5.731	-5.731	0	%100
8	M8	Y	-5.731	-5.731	0	%100
9	M9	Y	-8.77	-8.77	0	%100
10	M10	Y	-8.77	-8.77	0	%100
11	MP1A	Y	-5.082	-5.082	0	%100
12	M34	Y	-5.731	-5.731	0	%100
13	M35	Y	-5.731	-5.731	0	%100
14	M36	Y	-5.731	-5.731	0	%100
15	M37	Y	-5.731	-5.731	0	%100
16	M38A	Y	-8.125	-8.125	0	%100
17	M49	Y	-2.575	-2.575	0	%100
18	M50	Y	-2.575	-2.575	0	%100
19	MP2A	Y	-5.082	-5.082	0	%100
20	MP3A	Y	-5.082	-5.082	0	%100
21	MP4A	Y	-5.082	-5.082	0	%100
22	MP5A	Y	-5.082	-5.082	0	%100
23	M71A	Y	-2.575	-2.575	0	%100
24	M72A	Y	-2.575	-2.575	0	%100
25	M78	Y	-5.082	-5.082	0	%100
26	M80	Y	-2.575	-2.575	0	%100
27	M81	Y	-2.575	-2.575	0	%100
28	M86	Y	-2.575	-2.575	0	%100
29	M87	Y	-2.575	-2.575	0	%100
30	M96	Y	-5.798	-5.798	0	%100
31	M104	Y	-6.744	-6.744	0	%100
32	M105	Y	-6.744	-6.744	0	%100
33	M106	Y	-5.798	-5.798	0	%100
34	M112	Y	-6.744	-6.744	0	%100
35	M113	Y	-6.744	-6.744	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-30.583	-30.583	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-30.583	-30.583	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-31.457	-31.457	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	-31.457	-31.457	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	-8.106	-8.106	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	-8.106	-8.106	0	%100
13	M7	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
14	M7	Z	-8.106	-8.106	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	-8.106	-8.106	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	MP1A	X	0	0	0	%100
22	MP1A	Z	-12.452	-12.452	0	%100
23	M34	X	0	0	0	%100
24	M34	Z	-15.437	-15.437	0	%100
25	M35	X	0	0	0	%100
26	M35	Z	-17.476	-17.476	0	%100
27	M36	X	0	0	0	%100
28	M36	Z	-17.476	-17.476	0	%100
29	M37	X	0	0	0	%100
30	M37	Z	-15.437	-15.437	0	%100
31	M38A	X	0	0	0	%100
32	M38A	Z	-14.597	-14.597	0	%100
33	M49	X	0	0	0	%100
34	M49	Z	0	0	0	%100
35	M50	X	0	0	0	%100
36	M50	Z	0	0	0	%100
37	MP2A	X	0	0	0	%100
38	MP2A	Z	-12.452	-12.452	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-12.452	-12.452	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	-12.452	-12.452	0	%100
43	MP5A	X	0	0	0	%100
44	MP5A	Z	-12.452	-12.452	0	%100
45	M71A	X	0	0	0	%100
46	M71A	Z	0	0	0	%100
47	M72A	X	0	0	0	%100
48	M72A	Z	0	0	0	%100
49	M78	X	0	0	0	%100
50	M78	Z	-.307	-.307	0	%100
51	M80	X	0	0	0	%100
52	M80	Z	0	0	0	%100
53	M81	X	0	0	0	%100
54	M81	Z	0	0	0	%100
55	M86	X	0	0	0	%100
56	M86	Z	0	0	0	%100
57	M87	X	0	0	0	%100
58	M87	Z	0	0	0	%100
59	M96	X	0	0	0	%100
60	M96	Z	-15.073	-15.073	0	%100
61	M104	X	0	0	0	%100
62	M104	Z	-15.777	-15.777	0	%100
63	M105	X	0	0	0	%100
64	M105	Z	-16.201	-16.201	0	%100
65	M106	X	0	0	0	%100
66	M106	Z	-15.073	-15.073	0	%100
67	M112	X	0	0	0	%100
68	M112	Z	-15.905	-15.905	0	%100
69	M113	X	0	0	0	%100
70	M113	Z	-15.905	-15.905	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	11.469	11.469	0	%100
2	M1	Z	-19.864	-19.864	0	%100
3	M2	X	11.469	11.469	0	%100
4	M2	Z	-19.864	-19.864	0	%100
5	M3	X	11.796	11.796	0	%100
6	M3	Z	-20.432	-20.432	0	%100
7	M4	X	11.796	11.796	0	%100
8	M4	Z	-20.432	-20.432	0	%100
9	M5	X	.486	.486	0	%100
10	M5	Z	-.842	-.842	0	%100
11	M6	X	.486	.486	0	%100
12	M6	Z	-.842	-.842	0	%100
13	M7	X	7.783	7.783	0	%100
14	M7	Z	-13.48	-13.48	0	%100
15	M8	X	7.783	7.783	0	%100
16	M8	Z	-13.48	-13.48	0	%100
17	M9	X	2.831	2.831	0	%100
18	M9	Z	-4.903	-4.903	0	%100
19	M10	X	2.831	2.831	0	%100
20	M10	Z	-4.903	-4.903	0	%100
21	MP1A	X	6.226	6.226	0	%100
22	MP1A	Z	-10.784	-10.784	0	%100
23	M34	X	7.719	7.719	0	%100
24	M34	Z	-13.369	-13.369	0	%100
25	M35	X	7.266	7.266	0	%100
26	M35	Z	-12.585	-12.585	0	%100
27	M36	X	7.275	7.275	0	%100
28	M36	Z	-12.601	-12.601	0	%100
29	M37	X	7.719	7.719	0	%100
30	M37	Z	-13.369	-13.369	0	%100
31	M38A	X	7.298	7.298	0	%100
32	M38A	Z	-12.641	-12.641	0	%100
33	M49	X	.323	.323	0	%100
34	M49	Z	-.56	-.56	0	%100
35	M50	X	.323	.323	0	%100
36	M50	Z	-.56	-.56	0	%100
37	MP2A	X	6.226	6.226	0	%100
38	MP2A	Z	-10.784	-10.784	0	%100
39	MP3A	X	6.226	6.226	0	%100
40	MP3A	Z	-10.784	-10.784	0	%100
41	MP4A	X	6.226	6.226	0	%100
42	MP4A	Z	-10.784	-10.784	0	%100
43	MP5A	X	6.226	6.226	0	%100
44	MP5A	Z	-10.784	-10.784	0	%100
45	M71A	X	.323	.323	0	%100
46	M71A	Z	-.56	-.56	0	%100
47	M72A	X	.323	.323	0	%100
48	M72A	Z	-.56	-.56	0	%100
49	M78	X	2.469	2.469	0	%100
50	M78	Z	-4.277	-4.277	0	%100
51	M80	X	.317	.317	0	%100
52	M80	Z	-.549	-.549	0	%100
53	M81	X	.317	.317	0	%100
54	M81	Z	-.549	-.549	0	%100
55	M86	X	.317	.317	0	%100
56	M86	Z	-.549	-.549	0	%100
57	M87	X	.317	.317	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,%]
58	M87	Z	-.549	-.549	0	%100
59	M96	X	5.652	5.652	0	%100
60	M96	Z	-9.79	-9.79	0	%100
61	M104	X	5.511	5.511	0	%100
62	M104	Z	-9.545	-9.545	0	%100
63	M105	X	10.617	10.617	0	%100
64	M105	Z	-18.388	-18.388	0	%100
65	M106	X	5.652	5.652	0	%100
66	M106	Z	-9.79	-9.79	0	%100
67	M112	X	4.098	4.098	0	%100
68	M112	Z	-7.099	-7.099	0	%100
69	M113	X	10.784	10.784	0	%100
70	M113	Z	-18.678	-18.678	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	6.621	6.621	0	%100
2	M1	Z	-3.823	-3.823	0	%100
3	M2	X	6.621	6.621	0	%100
4	M2	Z	-3.823	-3.823	0	%100
5	M3	X	6.811	6.811	0	%100
6	M3	Z	-3.932	-3.932	0	%100
7	M4	X	6.811	6.811	0	%100
8	M4	Z	-3.932	-3.932	0	%100
9	M5	X	1.124	1.124	0	%100
10	M5	Z	-.649	-.649	0	%100
11	M6	X	1.124	1.124	0	%100
12	M6	Z	-.649	-.649	0	%100
13	M7	X	13.762	13.762	0	%100
14	M7	Z	-7.946	-7.946	0	%100
15	M8	X	13.762	13.762	0	%100
16	M8	Z	-7.946	-7.946	0	%100
17	M9	X	14.709	14.709	0	%100
18	M9	Z	-8.492	-8.492	0	%100
19	M10	X	14.709	14.709	0	%100
20	M10	Z	-8.492	-8.492	0	%100
21	MP1A	X	10.784	10.784	0	%100
22	MP1A	Z	-6.226	-6.226	0	%100
23	M34	X	13.369	13.369	0	%100
24	M34	Z	-7.719	-7.719	0	%100
25	M35	X	7.485	7.485	0	%100
26	M35	Z	-4.322	-4.322	0	%100
27	M36	X	7.534	7.534	0	%100
28	M36	Z	-4.35	-4.35	0	%100
29	M37	X	13.369	13.369	0	%100
30	M37	Z	-7.719	-7.719	0	%100
31	M38A	X	12.641	12.641	0	%100
32	M38A	Z	-7.298	-7.298	0	%100
33	M49	X	1.679	1.679	0	%100
34	M49	Z	-.969	-.969	0	%100
35	M50	X	1.679	1.679	0	%100
36	M50	Z	-.969	-.969	0	%100
37	MP2A	X	10.784	10.784	0	%100
38	MP2A	Z	-6.226	-6.226	0	%100
39	MP3A	X	10.784	10.784	0	%100
40	MP3A	Z	-6.226	-6.226	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,%]
41	MP4A	X	10.784	10.784	0	%100
42	MP4A	Z	-6.226	-6.226	0	%100
43	MP5A	X	10.784	10.784	0	%100
44	MP5A	Z	-6.226	-6.226	0	%100
45	M71A	X	1.679	1.679	0	%100
46	M71A	Z	-.969	-.969	0	%100
47	M72A	X	1.679	1.679	0	%100
48	M72A	Z	-.969	-.969	0	%100
49	M78	X	9.403	9.403	0	%100
50	M78	Z	-5.429	-5.429	0	%100
51	M80	X	1.647	1.647	0	%100
52	M80	Z	-.951	-.951	0	%100
53	M81	X	1.647	1.647	0	%100
54	M81	Z	-.951	-.951	0	%100
55	M86	X	1.647	1.647	0	%100
56	M86	Z	-.951	-.951	0	%100
57	M87	X	1.647	1.647	0	%100
58	M87	Z	-.951	-.951	0	%100
59	M96	X	3.263	3.263	0	%100
60	M96	Z	-1.884	-1.884	0	%100
61	M104	X	9.856	9.856	0	%100
62	M104	Z	-5.69	-5.69	0	%100
63	M105	X	18.016	18.016	0	%100
64	M105	Z	-10.402	-10.402	0	%100
65	M106	X	3.263	3.263	0	%100
66	M106	Z	-1.884	-1.884	0	%100
67	M112	X	5.327	5.327	0	%100
68	M112	Z	-3.076	-3.076	0	%100
69	M113	X	16.907	16.907	0	%100
70	M113	Z	-9.761	-9.761	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	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	8.757	8.757	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	8.757	8.757	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	8.757	8.757	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	8.757	8.757	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	22.646	22.646	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	22.646	22.646	0	%100
20	M10	Z	0	0	0	%100
21	MP1A	X	12.452	12.452	0	%100
22	MP1A	Z	0	0	0	%100
23	M34	X	15.437	15.437	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
24	M34	Z	0	0	0	%100
25	M35	X	5.699	5.699	0	%100
26	M35	Z	0	0	0	%100
27	M36	X	5.774	5.774	0	%100
28	M36	Z	0	0	0	%100
29	M37	X	15.437	15.437	0	%100
30	M37	Z	0	0	0	%100
31	M38A	X	14.597	14.597	0	%100
32	M38A	Z	0	0	0	%100
33	M49	X	2.585	2.585	0	%100
34	M49	Z	0	0	0	%100
35	M50	X	2.585	2.585	0	%100
36	M50	Z	0	0	0	%100
37	MP2A	X	12.452	12.452	0	%100
38	MP2A	Z	0	0	0	%100
39	MP3A	X	12.452	12.452	0	%100
40	MP3A	Z	0	0	0	%100
41	MP4A	X	12.452	12.452	0	%100
42	MP4A	Z	0	0	0	%100
43	MP5A	X	12.452	12.452	0	%100
44	MP5A	Z	0	0	0	%100
45	M71A	X	2.585	2.585	0	%100
46	M71A	Z	0	0	0	%100
47	M72A	X	2.585	2.585	0	%100
48	M72A	Z	0	0	0	%100
49	M78	X	12.145	12.145	0	%100
50	M78	Z	0	0	0	%100
51	M80	X	2.536	2.536	0	%100
52	M80	Z	0	0	0	%100
53	M81	X	2.536	2.536	0	%100
54	M81	Z	0	0	0	%100
55	M86	X	2.536	2.536	0	%100
56	M86	Z	0	0	0	%100
57	M87	X	2.536	2.536	0	%100
58	M87	Z	0	0	0	%100
59	M96	X	0	0	0	%100
60	M96	Z	0	0	0	%100
61	M104	X	16.495	16.495	0	%100
62	M104	Z	0	0	0	%100
63	M105	X	15.341	15.341	0	%100
64	M105	Z	0	0	0	%100
65	M106	X	0	0	0	%100
66	M106	Z	0	0	0	%100
67	M112	X	11.814	11.814	0	%100
68	M112	Z	0	0	0	%100
69	M113	X	11.814	11.814	0	%100
70	M113	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	6.621	6.621	0	%100
2	M1	Z	3.823	3.823	0	%100
3	M2	X	6.621	6.621	0	%100
4	M2	Z	3.823	3.823	0	%100
5	M3	X	6.811	6.811	0	%100
6	M3	Z	3.932	3.932	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,%]
7	M4	X	6.811	6.811	0	%100
8	M4	Z	3.932	3.932	0	%100
9	M5	X	13.762	13.762	0	%100
10	M5	Z	7.946	7.946	0	%100
11	M6	X	13.762	13.762	0	%100
12	M6	Z	7.946	7.946	0	%100
13	M7	X	1.124	1.124	0	%100
14	M7	Z	.649	.649	0	%100
15	M8	X	1.124	1.124	0	%100
16	M8	Z	.649	.649	0	%100
17	M9	X	14.709	14.709	0	%100
18	M9	Z	8.492	8.492	0	%100
19	M10	X	14.709	14.709	0	%100
20	M10	Z	8.492	8.492	0	%100
21	MP1A	X	10.784	10.784	0	%100
22	MP1A	Z	6.226	6.226	0	%100
23	M34	X	13.369	13.369	0	%100
24	M34	Z	7.719	7.719	0	%100
25	M35	X	7.485	7.485	0	%100
26	M35	Z	4.322	4.322	0	%100
27	M36	X	7.534	7.534	0	%100
28	M36	Z	4.35	4.35	0	%100
29	M37	X	13.369	13.369	0	%100
30	M37	Z	7.719	7.719	0	%100
31	M38A	X	12.641	12.641	0	%100
32	M38A	Z	7.298	7.298	0	%100
33	M49	X	1.679	1.679	0	%100
34	M49	Z	.969	.969	0	%100
35	M50	X	1.679	1.679	0	%100
36	M50	Z	.969	.969	0	%100
37	MP2A	X	10.784	10.784	0	%100
38	MP2A	Z	6.226	6.226	0	%100
39	MP3A	X	10.784	10.784	0	%100
40	MP3A	Z	6.226	6.226	0	%100
41	MP4A	X	10.784	10.784	0	%100
42	MP4A	Z	6.226	6.226	0	%100
43	MP5A	X	10.784	10.784	0	%100
44	MP5A	Z	6.226	6.226	0	%100
45	M71A	X	1.679	1.679	0	%100
46	M71A	Z	.969	.969	0	%100
47	M72A	X	1.679	1.679	0	%100
48	M72A	Z	.969	.969	0	%100
49	M78	X	6.507	6.507	0	%100
50	M78	Z	3.757	3.757	0	%100
51	M80	X	1.647	1.647	0	%100
52	M80	Z	.951	.951	0	%100
53	M81	X	1.647	1.647	0	%100
54	M81	Z	.951	.951	0	%100
55	M86	X	1.647	1.647	0	%100
56	M86	Z	.951	.951	0	%100
57	M87	X	1.647	1.647	0	%100
58	M87	Z	.951	.951	0	%100
59	M96	X	3.263	3.263	0	%100
60	M96	Z	1.884	1.884	0	%100
61	M104	X	18.403	18.403	0	%100
62	M104	Z	10.625	10.625	0	%100
63	M105	X	8.928	8.928	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,%]
64	M105	Z	5.155	5.155	0	%100
65	M106	X	3.263	3.263	0	%100
66	M106	Z	1.884	1.884	0	%100
67	M112	X	16.907	16.907	0	%100
68	M112	Z	9.761	9.761	0	%100
69	M113	X	5.327	5.327	0	%100
70	M113	Z	3.076	3.076	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	11.469	11.469	0	%100
2	M1	Z	19.864	19.864	0	%100
3	M2	X	11.469	11.469	0	%100
4	M2	Z	19.864	19.864	0	%100
5	M3	X	11.796	11.796	0	%100
6	M3	Z	20.432	20.432	0	%100
7	M4	X	11.796	11.796	0	%100
8	M4	Z	20.432	20.432	0	%100
9	M5	X	7.783	7.783	0	%100
10	M5	Z	13.48	13.48	0	%100
11	M6	X	7.783	7.783	0	%100
12	M6	Z	13.48	13.48	0	%100
13	M7	X	.486	.486	0	%100
14	M7	Z	.842	.842	0	%100
15	M8	X	.486	.486	0	%100
16	M8	Z	.842	.842	0	%100
17	M9	X	2.831	2.831	0	%100
18	M9	Z	4.903	4.903	0	%100
19	M10	X	2.831	2.831	0	%100
20	M10	Z	4.903	4.903	0	%100
21	MP1A	X	6.226	6.226	0	%100
22	MP1A	Z	10.784	10.784	0	%100
23	M34	X	7.719	7.719	0	%100
24	M34	Z	13.369	13.369	0	%100
25	M35	X	7.266	7.266	0	%100
26	M35	Z	12.585	12.585	0	%100
27	M36	X	7.275	7.275	0	%100
28	M36	Z	12.601	12.601	0	%100
29	M37	X	7.719	7.719	0	%100
30	M37	Z	13.369	13.369	0	%100
31	M38A	X	7.298	7.298	0	%100
32	M38A	Z	12.641	12.641	0	%100
33	M49	X	.323	.323	0	%100
34	M49	Z	.56	.56	0	%100
35	M50	X	.323	.323	0	%100
36	M50	Z	.56	.56	0	%100
37	MP2A	X	6.226	6.226	0	%100
38	MP2A	Z	10.784	10.784	0	%100
39	MP3A	X	6.226	6.226	0	%100
40	MP3A	Z	10.784	10.784	0	%100
41	MP4A	X	6.226	6.226	0	%100
42	MP4A	Z	10.784	10.784	0	%100
43	MP5A	X	6.226	6.226	0	%100
44	MP5A	Z	10.784	10.784	0	%100
45	M71A	X	.323	.323	0	%100
46	M71A	Z	.56	.56	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,%]
47	M72A	X	.323	.323	0	%100
48	M72A	Z	.56	.56	0	%100
49	M78	X	.797	.797	0	%100
50	M78	Z	1.381	1.381	0	%100
51	M80	X	.317	.317	0	%100
52	M80	Z	.549	.549	0	%100
53	M81	X	.317	.317	0	%100
54	M81	Z	.549	.549	0	%100
55	M86	X	.317	.317	0	%100
56	M86	Z	.549	.549	0	%100
57	M87	X	.317	.317	0	%100
58	M87	Z	.549	.549	0	%100
59	M96	X	5.652	5.652	0	%100
60	M96	Z	9.79	9.79	0	%100
61	M104	X	10.446	10.446	0	%100
62	M104	Z	18.092	18.092	0	%100
63	M105	X	5.369	5.369	0	%100
64	M105	Z	9.3	9.3	0	%100
65	M106	X	5.652	5.652	0	%100
66	M106	Z	9.79	9.79	0	%100
67	M112	X	10.784	10.784	0	%100
68	M112	Z	18.678	18.678	0	%100
69	M113	X	4.098	4.098	0	%100
70	M113	Z	7.099	7.099	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	30.583	30.583	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	30.583	30.583	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	31.457	31.457	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	31.457	31.457	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	8.106	8.106	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	8.106	8.106	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	8.106	8.106	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	8.106	8.106	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	MP1A	X	0	0	0	%100
22	MP1A	Z	12.452	12.452	0	%100
23	M34	X	0	0	0	%100
24	M34	Z	15.437	15.437	0	%100
25	M35	X	0	0	0	%100
26	M35	Z	17.476	17.476	0	%100
27	M36	X	0	0	0	%100
28	M36	Z	17.476	17.476	0	%100
29	M37	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,%]
30	M37	Z	15.437	15.437	0	%100
31	M38A	X	0	0	0	%100
32	M38A	Z	14.597	14.597	0	%100
33	M49	X	0	0	0	%100
34	M49	Z	0	0	0	%100
35	M50	X	0	0	0	%100
36	M50	Z	0	0	0	%100
37	MP2A	X	0	0	0	%100
38	MP2A	Z	12.452	12.452	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	12.452	12.452	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	12.452	12.452	0	%100
43	MP5A	X	0	0	0	%100
44	MP5A	Z	12.452	12.452	0	%100
45	M71A	X	0	0	0	%100
46	M71A	Z	0	0	0	%100
47	M72A	X	0	0	0	%100
48	M72A	Z	0	0	0	%100
49	M78	X	0	0	0	%100
50	M78	Z	.307	.307	0	%100
51	M80	X	0	0	0	%100
52	M80	Z	0	0	0	%100
53	M81	X	0	0	0	%100
54	M81	Z	0	0	0	%100
55	M86	X	0	0	0	%100
56	M86	Z	0	0	0	%100
57	M87	X	0	0	0	%100
58	M87	Z	0	0	0	%100
59	M96	X	0	0	0	%100
60	M96	Z	15.073	15.073	0	%100
61	M104	X	0	0	0	%100
62	M104	Z	15.777	15.777	0	%100
63	M105	X	0	0	0	%100
64	M105	Z	16.201	16.201	0	%100
65	M106	X	0	0	0	%100
66	M106	Z	15.073	15.073	0	%100
67	M112	X	0	0	0	%100
68	M112	Z	15.905	15.905	0	%100
69	M113	X	0	0	0	%100
70	M113	Z	15.905	15.905	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	-11.469	-11.469	0	%100
2	M1	Z	19.864	19.864	0	%100
3	M2	X	-11.469	-11.469	0	%100
4	M2	Z	19.864	19.864	0	%100
5	M3	X	-11.796	-11.796	0	%100
6	M3	Z	20.432	20.432	0	%100
7	M4	X	-11.796	-11.796	0	%100
8	M4	Z	20.432	20.432	0	%100
9	M5	X	-.486	-.486	0	%100
10	M5	Z	.842	.842	0	%100
11	M6	X	-.486	-.486	0	%100
12	M6	Z	.842	.842	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,%]
13	M7	X	-7.783	-7.783	0	%100
14	M7	Z	13.48	13.48	0	%100
15	M8	X	-7.783	-7.783	0	%100
16	M8	Z	13.48	13.48	0	%100
17	M9	X	-2.831	-2.831	0	%100
18	M9	Z	4.903	4.903	0	%100
19	M10	X	-2.831	-2.831	0	%100
20	M10	Z	4.903	4.903	0	%100
21	MP1A	X	-6.226	-6.226	0	%100
22	MP1A	Z	10.784	10.784	0	%100
23	M34	X	-7.719	-7.719	0	%100
24	M34	Z	13.369	13.369	0	%100
25	M35	X	-7.266	-7.266	0	%100
26	M35	Z	12.585	12.585	0	%100
27	M36	X	-7.275	-7.275	0	%100
28	M36	Z	12.601	12.601	0	%100
29	M37	X	-7.719	-7.719	0	%100
30	M37	Z	13.369	13.369	0	%100
31	M38A	X	-7.298	-7.298	0	%100
32	M38A	Z	12.641	12.641	0	%100
33	M49	X	-.323	-.323	0	%100
34	M49	Z	.56	.56	0	%100
35	M50	X	-.323	-.323	0	%100
36	M50	Z	.56	.56	0	%100
37	MP2A	X	-6.226	-6.226	0	%100
38	MP2A	Z	10.784	10.784	0	%100
39	MP3A	X	-6.226	-6.226	0	%100
40	MP3A	Z	10.784	10.784	0	%100
41	MP4A	X	-6.226	-6.226	0	%100
42	MP4A	Z	10.784	10.784	0	%100
43	MP5A	X	-6.226	-6.226	0	%100
44	MP5A	Z	10.784	10.784	0	%100
45	M71A	X	-.323	-.323	0	%100
46	M71A	Z	.56	.56	0	%100
47	M72A	X	-.323	-.323	0	%100
48	M72A	Z	.56	.56	0	%100
49	M78	X	-2.469	-2.469	0	%100
50	M78	Z	4.277	4.277	0	%100
51	M80	X	-.317	-.317	0	%100
52	M80	Z	.549	.549	0	%100
53	M81	X	-.317	-.317	0	%100
54	M81	Z	.549	.549	0	%100
55	M86	X	-.317	-.317	0	%100
56	M86	Z	.549	.549	0	%100
57	M87	X	-.317	-.317	0	%100
58	M87	Z	.549	.549	0	%100
59	M96	X	-5.652	-5.652	0	%100
60	M96	Z	9.79	9.79	0	%100
61	M104	X	-5.511	-5.511	0	%100
62	M104	Z	9.545	9.545	0	%100
63	M105	X	-10.617	-10.617	0	%100
64	M105	Z	18.388	18.388	0	%100
65	M106	X	-5.652	-5.652	0	%100
66	M106	Z	9.79	9.79	0	%100
67	M112	X	-4.098	-4.098	0	%100
68	M112	Z	7.099	7.099	0	%100
69	M113	X	-10.784	-10.784	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,%]
70	M113	Z	18.678	18.678	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-6.621	-6.621	0	%100
2	M1	Z	3.823	3.823	0	%100
3	M2	X	-6.621	-6.621	0	%100
4	M2	Z	3.823	3.823	0	%100
5	M3	X	-6.811	-6.811	0	%100
6	M3	Z	3.932	3.932	0	%100
7	M4	X	-6.811	-6.811	0	%100
8	M4	Z	3.932	3.932	0	%100
9	M5	X	-1.124	-1.124	0	%100
10	M5	Z	.649	.649	0	%100
11	M6	X	-1.124	-1.124	0	%100
12	M6	Z	.649	.649	0	%100
13	M7	X	-13.762	-13.762	0	%100
14	M7	Z	7.946	7.946	0	%100
15	M8	X	-13.762	-13.762	0	%100
16	M8	Z	7.946	7.946	0	%100
17	M9	X	-14.709	-14.709	0	%100
18	M9	Z	8.492	8.492	0	%100
19	M10	X	-14.709	-14.709	0	%100
20	M10	Z	8.492	8.492	0	%100
21	MP1A	X	-10.784	-10.784	0	%100
22	MP1A	Z	6.226	6.226	0	%100
23	M34	X	-13.369	-13.369	0	%100
24	M34	Z	7.719	7.719	0	%100
25	M35	X	-7.485	-7.485	0	%100
26	M35	Z	4.322	4.322	0	%100
27	M36	X	-7.534	-7.534	0	%100
28	M36	Z	4.35	4.35	0	%100
29	M37	X	-13.369	-13.369	0	%100
30	M37	Z	7.719	7.719	0	%100
31	M38A	X	-12.641	-12.641	0	%100
32	M38A	Z	7.298	7.298	0	%100
33	M49	X	-1.679	-1.679	0	%100
34	M49	Z	.969	.969	0	%100
35	M50	X	-1.679	-1.679	0	%100
36	M50	Z	.969	.969	0	%100
37	MP2A	X	-10.784	-10.784	0	%100
38	MP2A	Z	6.226	6.226	0	%100
39	MP3A	X	-10.784	-10.784	0	%100
40	MP3A	Z	6.226	6.226	0	%100
41	MP4A	X	-10.784	-10.784	0	%100
42	MP4A	Z	6.226	6.226	0	%100
43	MP5A	X	-10.784	-10.784	0	%100
44	MP5A	Z	6.226	6.226	0	%100
45	M71A	X	-1.679	-1.679	0	%100
46	M71A	Z	.969	.969	0	%100
47	M72A	X	-1.679	-1.679	0	%100
48	M72A	Z	.969	.969	0	%100
49	M78	X	-9.403	-9.403	0	%100
50	M78	Z	5.429	5.429	0	%100
51	M80	X	-1.647	-1.647	0	%100
52	M80	Z	.951	.951	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	M81	X	-1.647	-1.647	0	%100
54	M81	Z	.951	.951	0	%100
55	M86	X	-1.647	-1.647	0	%100
56	M86	Z	.951	.951	0	%100
57	M87	X	-1.647	-1.647	0	%100
58	M87	Z	.951	.951	0	%100
59	M96	X	-3.263	-3.263	0	%100
60	M96	Z	1.884	1.884	0	%100
61	M104	X	-9.856	-9.856	0	%100
62	M104	Z	5.69	5.69	0	%100
63	M105	X	-18.016	-18.016	0	%100
64	M105	Z	10.402	10.402	0	%100
65	M106	X	-3.263	-3.263	0	%100
66	M106	Z	1.884	1.884	0	%100
67	M112	X	-5.327	-5.327	0	%100
68	M112	Z	3.076	3.076	0	%100
69	M113	X	-16.907	-16.907	0	%100
70	M113	Z	9.761	9.761	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	-8.757	-8.757	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	-8.757	-8.757	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	-8.757	-8.757	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	-8.757	-8.757	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	-22.646	-22.646	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	-22.646	-22.646	0	%100
20	M10	Z	0	0	0	%100
21	MP1A	X	-12.452	-12.452	0	%100
22	MP1A	Z	0	0	0	%100
23	M34	X	-15.437	-15.437	0	%100
24	M34	Z	0	0	0	%100
25	M35	X	-5.699	-5.699	0	%100
26	M35	Z	0	0	0	%100
27	M36	X	-5.774	-5.774	0	%100
28	M36	Z	0	0	0	%100
29	M37	X	-15.437	-15.437	0	%100
30	M37	Z	0	0	0	%100
31	M38A	X	-14.597	-14.597	0	%100
32	M38A	Z	0	0	0	%100
33	M49	X	-2.585	-2.585	0	%100
34	M49	Z	0	0	0	%100
35	M50	X	-2.585	-2.585	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,%]
36	M50	Z	0	0	0	%100
37	MP2A	X	-12.452	-12.452	0	%100
38	MP2A	Z	0	0	0	%100
39	MP3A	X	-12.452	-12.452	0	%100
40	MP3A	Z	0	0	0	%100
41	MP4A	X	-12.452	-12.452	0	%100
42	MP4A	Z	0	0	0	%100
43	MP5A	X	-12.452	-12.452	0	%100
44	MP5A	Z	0	0	0	%100
45	M71A	X	-2.585	-2.585	0	%100
46	M71A	Z	0	0	0	%100
47	M72A	X	-2.585	-2.585	0	%100
48	M72A	Z	0	0	0	%100
49	M78	X	-12.145	-12.145	0	%100
50	M78	Z	0	0	0	%100
51	M80	X	-2.536	-2.536	0	%100
52	M80	Z	0	0	0	%100
53	M81	X	-2.536	-2.536	0	%100
54	M81	Z	0	0	0	%100
55	M86	X	-2.536	-2.536	0	%100
56	M86	Z	0	0	0	%100
57	M87	X	-2.536	-2.536	0	%100
58	M87	Z	0	0	0	%100
59	M96	X	0	0	0	%100
60	M96	Z	0	0	0	%100
61	M104	X	-16.495	-16.495	0	%100
62	M104	Z	0	0	0	%100
63	M105	X	-15.341	-15.341	0	%100
64	M105	Z	0	0	0	%100
65	M106	X	0	0	0	%100
66	M106	Z	0	0	0	%100
67	M112	X	-11.814	-11.814	0	%100
68	M112	Z	0	0	0	%100
69	M113	X	-11.814	-11.814	0	%100
70	M113	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	-6.621	-6.621	0	%100
2	M1	Z	-3.823	-3.823	0	%100
3	M2	X	-6.621	-6.621	0	%100
4	M2	Z	-3.823	-3.823	0	%100
5	M3	X	-6.811	-6.811	0	%100
6	M3	Z	-3.932	-3.932	0	%100
7	M4	X	-6.811	-6.811	0	%100
8	M4	Z	-3.932	-3.932	0	%100
9	M5	X	-13.762	-13.762	0	%100
10	M5	Z	-7.946	-7.946	0	%100
11	M6	X	-13.762	-13.762	0	%100
12	M6	Z	-7.946	-7.946	0	%100
13	M7	X	-1.124	-1.124	0	%100
14	M7	Z	-.649	-.649	0	%100
15	M8	X	-1.124	-1.124	0	%100
16	M8	Z	-.649	-.649	0	%100
17	M9	X	-14.709	-14.709	0	%100
18	M9	Z	-8.492	-8.492	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
19	M10	X	-14.709	-14.709	0	%100
20	M10	Z	-8.492	-8.492	0	%100
21	MP1A	X	-10.784	-10.784	0	%100
22	MP1A	Z	-6.226	-6.226	0	%100
23	M34	X	-13.369	-13.369	0	%100
24	M34	Z	-7.719	-7.719	0	%100
25	M35	X	-7.485	-7.485	0	%100
26	M35	Z	-4.322	-4.322	0	%100
27	M36	X	-7.534	-7.534	0	%100
28	M36	Z	-4.35	-4.35	0	%100
29	M37	X	-13.369	-13.369	0	%100
30	M37	Z	-7.719	-7.719	0	%100
31	M38A	X	-12.641	-12.641	0	%100
32	M38A	Z	-7.298	-7.298	0	%100
33	M49	X	-1.679	-1.679	0	%100
34	M49	Z	-.969	-.969	0	%100
35	M50	X	-1.679	-1.679	0	%100
36	M50	Z	-.969	-.969	0	%100
37	MP2A	X	-10.784	-10.784	0	%100
38	MP2A	Z	-6.226	-6.226	0	%100
39	MP3A	X	-10.784	-10.784	0	%100
40	MP3A	Z	-6.226	-6.226	0	%100
41	MP4A	X	-10.784	-10.784	0	%100
42	MP4A	Z	-6.226	-6.226	0	%100
43	MP5A	X	-10.784	-10.784	0	%100
44	MP5A	Z	-6.226	-6.226	0	%100
45	M71A	X	-1.679	-1.679	0	%100
46	M71A	Z	-.969	-.969	0	%100
47	M72A	X	-1.679	-1.679	0	%100
48	M72A	Z	-.969	-.969	0	%100
49	M78	X	-6.507	-6.507	0	%100
50	M78	Z	-3.757	-3.757	0	%100
51	M80	X	-1.647	-1.647	0	%100
52	M80	Z	-.951	-.951	0	%100
53	M81	X	-1.647	-1.647	0	%100
54	M81	Z	-.951	-.951	0	%100
55	M86	X	-1.647	-1.647	0	%100
56	M86	Z	-.951	-.951	0	%100
57	M87	X	-1.647	-1.647	0	%100
58	M87	Z	-.951	-.951	0	%100
59	M96	X	-3.263	-3.263	0	%100
60	M96	Z	-1.884	-1.884	0	%100
61	M104	X	-18.403	-18.403	0	%100
62	M104	Z	-10.625	-10.625	0	%100
63	M105	X	-8.928	-8.928	0	%100
64	M105	Z	-5.155	-5.155	0	%100
65	M106	X	-3.263	-3.263	0	%100
66	M106	Z	-1.884	-1.884	0	%100
67	M112	X	-16.907	-16.907	0	%100
68	M112	Z	-9.761	-9.761	0	%100
69	M113	X	-5.327	-5.327	0	%100
70	M113	Z	-3.076	-3.076	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	-11.469	-11.469	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,%]
2	M1	Z	-19.864	-19.864	0	%100
3	M2	X	-11.469	-11.469	0	%100
4	M2	Z	-19.864	-19.864	0	%100
5	M3	X	-11.796	-11.796	0	%100
6	M3	Z	-20.432	-20.432	0	%100
7	M4	X	-11.796	-11.796	0	%100
8	M4	Z	-20.432	-20.432	0	%100
9	M5	X	-7.783	-7.783	0	%100
10	M5	Z	-13.48	-13.48	0	%100
11	M6	X	-7.783	-7.783	0	%100
12	M6	Z	-13.48	-13.48	0	%100
13	M7	X	-.486	-.486	0	%100
14	M7	Z	-.842	-.842	0	%100
15	M8	X	-.486	-.486	0	%100
16	M8	Z	-.842	-.842	0	%100
17	M9	X	-2.831	-2.831	0	%100
18	M9	Z	-4.903	-4.903	0	%100
19	M10	X	-2.831	-2.831	0	%100
20	M10	Z	-4.903	-4.903	0	%100
21	MP1A	X	-6.226	-6.226	0	%100
22	MP1A	Z	-10.784	-10.784	0	%100
23	M34	X	-7.719	-7.719	0	%100
24	M34	Z	-13.369	-13.369	0	%100
25	M35	X	-7.266	-7.266	0	%100
26	M35	Z	-12.585	-12.585	0	%100
27	M36	X	-7.275	-7.275	0	%100
28	M36	Z	-12.601	-12.601	0	%100
29	M37	X	-7.719	-7.719	0	%100
30	M37	Z	-13.369	-13.369	0	%100
31	M38A	X	-7.298	-7.298	0	%100
32	M38A	Z	-12.641	-12.641	0	%100
33	M49	X	-.323	-.323	0	%100
34	M49	Z	-.56	-.56	0	%100
35	M50	X	-.323	-.323	0	%100
36	M50	Z	-.56	-.56	0	%100
37	MP2A	X	-6.226	-6.226	0	%100
38	MP2A	Z	-10.784	-10.784	0	%100
39	MP3A	X	-6.226	-6.226	0	%100
40	MP3A	Z	-10.784	-10.784	0	%100
41	MP4A	X	-6.226	-6.226	0	%100
42	MP4A	Z	-10.784	-10.784	0	%100
43	MP5A	X	-6.226	-6.226	0	%100
44	MP5A	Z	-10.784	-10.784	0	%100
45	M71A	X	-.323	-.323	0	%100
46	M71A	Z	-.56	-.56	0	%100
47	M72A	X	-.323	-.323	0	%100
48	M72A	Z	-.56	-.56	0	%100
49	M78	X	-.797	-.797	0	%100
50	M78	Z	-1.381	-1.381	0	%100
51	M80	X	-.317	-.317	0	%100
52	M80	Z	-.549	-.549	0	%100
53	M81	X	-.317	-.317	0	%100
54	M81	Z	-.549	-.549	0	%100
55	M86	X	-.317	-.317	0	%100
56	M86	Z	-.549	-.549	0	%100
57	M87	X	-.317	-.317	0	%100
58	M87	Z	-.549	-.549	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,%]
59	M96	X	-5.652	-5.652	0	%100
60	M96	Z	-9.79	-9.79	0	%100
61	M104	X	-10.446	-10.446	0	%100
62	M104	Z	-18.092	-18.092	0	%100
63	M105	X	-5.369	-5.369	0	%100
64	M105	Z	-9.3	-9.3	0	%100
65	M106	X	-5.652	-5.652	0	%100
66	M106	Z	-9.79	-9.79	0	%100
67	M112	X	-10.784	-10.784	0	%100
68	M112	Z	-18.678	-18.678	0	%100
69	M113	X	-4.098	-4.098	0	%100
70	M113	Z	-7.099	-7.099	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	-6.971	-6.971	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-6.971	-6.971	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-6.314	-6.314	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	-6.314	-6.314	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	-2.182	-2.182	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	-2.182	-2.182	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	-2.182	-2.182	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	-2.182	-2.182	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	MP1A	X	0	0	0	%100
22	MP1A	Z	-4.023	-4.023	0	%100
23	M34	X	0	0	0	%100
24	M34	Z	-4.152	-4.152	0	%100
25	M35	X	0	0	0	%100
26	M35	Z	-4.84	-4.84	0	%100
27	M36	X	0	0	0	%100
28	M36	Z	-4.84	-4.84	0	%100
29	M37	X	0	0	0	%100
30	M37	Z	-4.152	-4.152	0	%100
31	M38A	X	0	0	0	%100
32	M38A	Z	-5.196	-5.196	0	%100
33	M49	X	0	0	0	%100
34	M49	Z	0	0	0	%100
35	M50	X	0	0	0	%100
36	M50	Z	0	0	0	%100
37	MP2A	X	0	0	0	%100
38	MP2A	Z	-4.023	-4.023	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-4.023	-4.023	0	%100
41	MP4A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP4A	Z	-4.023	-4.023	0	%100
43	MP5A	X	0	0	0	%100
44	MP5A	Z	-4.023	-4.023	0	%100
45	M71A	X	0	0	0	%100
46	M71A	Z	0	0	0	%100
47	M72A	X	0	0	0	%100
48	M72A	Z	0	0	0	%100
49	M78	X	0	0	0	%100
50	M78	Z	-.099	-.099	0	%100
51	M80	X	0	0	0	%100
52	M80	Z	0	0	0	%100
53	M81	X	0	0	0	%100
54	M81	Z	0	0	0	%100
55	M86	X	0	0	0	%100
56	M86	Z	0	0	0	%100
57	M87	X	0	0	0	%100
58	M87	Z	0	0	0	%100
59	M96	X	0	0	0	%100
60	M96	Z	-4.45	-4.45	0	%100
61	M104	X	0	0	0	%100
62	M104	Z	-4.009	-4.009	0	%100
63	M105	X	0	0	0	%100
64	M105	Z	-4.117	-4.117	0	%100
65	M106	X	0	0	0	%100
66	M106	Z	-4.45	-4.45	0	%100
67	M112	X	0	0	0	%100
68	M112	Z	-4.041	-4.041	0	%100
69	M113	X	0	0	0	%100
70	M113	Z	-4.041	-4.041	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.614	2.614	0	%100
2	M1	Z	-4.528	-4.528	0	%100
3	M2	X	2.614	2.614	0	%100
4	M2	Z	-4.528	-4.528	0	%100
5	M3	X	2.368	2.368	0	%100
6	M3	Z	-4.101	-4.101	0	%100
7	M4	X	2.368	2.368	0	%100
8	M4	Z	-4.101	-4.101	0	%100
9	M5	X	.131	.131	0	%100
10	M5	Z	-.227	-.227	0	%100
11	M6	X	.131	.131	0	%100
12	M6	Z	-.227	-.227	0	%100
13	M7	X	2.095	2.095	0	%100
14	M7	Z	-3.628	-3.628	0	%100
15	M8	X	2.095	2.095	0	%100
16	M8	Z	-3.628	-3.628	0	%100
17	M9	X	.66	.66	0	%100
18	M9	Z	-1.142	-1.142	0	%100
19	M10	X	.66	.66	0	%100
20	M10	Z	-1.142	-1.142	0	%100
21	MP1A	X	2.012	2.012	0	%100
22	MP1A	Z	-3.484	-3.484	0	%100
23	M34	X	2.076	2.076	0	%100
24	M34	Z	-3.596	-3.596	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
25	M35	X	2.012	2.012	0	%100
26	M35	Z	-3.486	-3.486	0	%100
27	M36	X	2.015	2.015	0	%100
28	M36	Z	-3.49	-3.49	0	%100
29	M37	X	2.076	2.076	0	%100
30	M37	Z	-3.596	-3.596	0	%100
31	M38A	X	2.598	2.598	0	%100
32	M38A	Z	-4.5	-4.5	0	%100
33	M49	X	.203	.203	0	%100
34	M49	Z	-.352	-.352	0	%100
35	M50	X	.203	.203	0	%100
36	M50	Z	-.352	-.352	0	%100
37	MP2A	X	2.012	2.012	0	%100
38	MP2A	Z	-3.484	-3.484	0	%100
39	MP3A	X	2.012	2.012	0	%100
40	MP3A	Z	-3.484	-3.484	0	%100
41	MP4A	X	2.012	2.012	0	%100
42	MP4A	Z	-3.484	-3.484	0	%100
43	MP5A	X	2.012	2.012	0	%100
44	MP5A	Z	-3.484	-3.484	0	%100
45	M71A	X	.203	.203	0	%100
46	M71A	Z	-.352	-.352	0	%100
47	M72A	X	.203	.203	0	%100
48	M72A	Z	-.352	-.352	0	%100
49	M78	X	.798	.798	0	%100
50	M78	Z	-1.382	-1.382	0	%100
51	M80	X	.202	.202	0	%100
52	M80	Z	-.349	-.349	0	%100
53	M81	X	.202	.202	0	%100
54	M81	Z	-.349	-.349	0	%100
55	M86	X	.202	.202	0	%100
56	M86	Z	-.349	-.349	0	%100
57	M87	X	.202	.202	0	%100
58	M87	Z	-.349	-.349	0	%100
59	M96	X	1.669	1.669	0	%100
60	M96	Z	-2.89	-2.89	0	%100
61	M104	X	1.4	1.4	0	%100
62	M104	Z	-2.425	-2.425	0	%100
63	M105	X	2.698	2.698	0	%100
64	M105	Z	-4.672	-4.672	0	%100
65	M106	X	1.669	1.669	0	%100
66	M106	Z	-2.89	-2.89	0	%100
67	M112	X	1.041	1.041	0	%100
68	M112	Z	-1.804	-1.804	0	%100
69	M113	X	2.74	2.74	0	%100
70	M113	Z	-4.746	-4.746	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.509	1.509	0	%100
2	M1	Z	-.871	-.871	0	%100
3	M2	X	1.509	1.509	0	%100
4	M2	Z	-.871	-.871	0	%100
5	M3	X	1.367	1.367	0	%100
6	M3	Z	-.789	-.789	0	%100
7	M4	X	1.367	1.367	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,%]
8	M4	Z	-.789	-.789	0	%100
9	M5	X	.302	.302	0	%100
10	M5	Z	-.175	-.175	0	%100
11	M6	X	.302	.302	0	%100
12	M6	Z	-.175	-.175	0	%100
13	M7	X	3.704	3.704	0	%100
14	M7	Z	-2.138	-2.138	0	%100
15	M8	X	3.704	3.704	0	%100
16	M8	Z	-2.138	-2.138	0	%100
17	M9	X	3.427	3.427	0	%100
18	M9	Z	-1.979	-1.979	0	%100
19	M10	X	3.427	3.427	0	%100
20	M10	Z	-1.979	-1.979	0	%100
21	MP1A	X	3.484	3.484	0	%100
22	MP1A	Z	-2.012	-2.012	0	%100
23	M34	X	3.596	3.596	0	%100
24	M34	Z	-2.076	-2.076	0	%100
25	M35	X	2.073	2.073	0	%100
26	M35	Z	-1.197	-1.197	0	%100
27	M36	X	2.087	2.087	0	%100
28	M36	Z	-1.205	-1.205	0	%100
29	M37	X	3.596	3.596	0	%100
30	M37	Z	-2.076	-2.076	0	%100
31	M38A	X	4.5	4.5	0	%100
32	M38A	Z	-2.598	-2.598	0	%100
33	M49	X	1.057	1.057	0	%100
34	M49	Z	-.61	-.61	0	%100
35	M50	X	1.057	1.057	0	%100
36	M50	Z	-.61	-.61	0	%100
37	MP2A	X	3.484	3.484	0	%100
38	MP2A	Z	-2.012	-2.012	0	%100
39	MP3A	X	3.484	3.484	0	%100
40	MP3A	Z	-2.012	-2.012	0	%100
41	MP4A	X	3.484	3.484	0	%100
42	MP4A	Z	-2.012	-2.012	0	%100
43	MP5A	X	3.484	3.484	0	%100
44	MP5A	Z	-2.012	-2.012	0	%100
45	M71A	X	1.057	1.057	0	%100
46	M71A	Z	-.61	-.61	0	%100
47	M72A	X	1.057	1.057	0	%100
48	M72A	Z	-.61	-.61	0	%100
49	M78	X	3.038	3.038	0	%100
50	M78	Z	-1.754	-1.754	0	%100
51	M80	X	1.047	1.047	0	%100
52	M80	Z	-.605	-.605	0	%100
53	M81	X	1.047	1.047	0	%100
54	M81	Z	-.605	-.605	0	%100
55	M86	X	1.047	1.047	0	%100
56	M86	Z	-.605	-.605	0	%100
57	M87	X	1.047	1.047	0	%100
58	M87	Z	-.605	-.605	0	%100
59	M96	X	.963	.963	0	%100
60	M96	Z	-.556	-.556	0	%100
61	M104	X	2.504	2.504	0	%100
62	M104	Z	-1.446	-1.446	0	%100
63	M105	X	4.578	4.578	0	%100
64	M105	Z	-2.643	-2.643	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,%]
65	M106	X	.963	.963	0	%100
66	M106	Z	-.556	-.556	0	%100
67	M112	X	1.354	1.354	0	%100
68	M112	Z	-.782	-.782	0	%100
69	M113	X	4.296	4.296	0	%100
70	M113	Z	-2.48	-2.48	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	2.357	2.357	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	2.357	2.357	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	2.357	2.357	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	2.357	2.357	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	5.277	5.277	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	5.277	5.277	0	%100
20	M10	Z	0	0	0	%100
21	MP1A	X	4.023	4.023	0	%100
22	MP1A	Z	0	0	0	%100
23	M34	X	4.152	4.152	0	%100
24	M34	Z	0	0	0	%100
25	M35	X	1.579	1.579	0	%100
26	M35	Z	0	0	0	%100
27	M36	X	1.599	1.599	0	%100
28	M36	Z	0	0	0	%100
29	M37	X	4.152	4.152	0	%100
30	M37	Z	0	0	0	%100
31	M38A	X	5.196	5.196	0	%100
32	M38A	Z	0	0	0	%100
33	M49	X	1.628	1.628	0	%100
34	M49	Z	0	0	0	%100
35	M50	X	1.628	1.628	0	%100
36	M50	Z	0	0	0	%100
37	MP2A	X	4.023	4.023	0	%100
38	MP2A	Z	0	0	0	%100
39	MP3A	X	4.023	4.023	0	%100
40	MP3A	Z	0	0	0	%100
41	MP4A	X	4.023	4.023	0	%100
42	MP4A	Z	0	0	0	%100
43	MP5A	X	4.023	4.023	0	%100
44	MP5A	Z	0	0	0	%100
45	M71A	X	1.628	1.628	0	%100
46	M71A	Z	0	0	0	%100
47	M72A	X	1.628	1.628	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,%]
48	M72A	Z	0	0	0	%100
49	M78	X	3.924	3.924	0	%100
50	M78	Z	0	0	0	%100
51	M80	X	1.612	1.612	0	%100
52	M80	Z	0	0	0	%100
53	M81	X	1.612	1.612	0	%100
54	M81	Z	0	0	0	%100
55	M86	X	1.612	1.612	0	%100
56	M86	Z	0	0	0	%100
57	M87	X	1.612	1.612	0	%100
58	M87	Z	0	0	0	%100
59	M96	X	0	0	0	%100
60	M96	Z	0	0	0	%100
61	M104	X	4.191	4.191	0	%100
62	M104	Z	0	0	0	%100
63	M105	X	3.898	3.898	0	%100
64	M105	Z	0	0	0	%100
65	M106	X	0	0	0	%100
66	M106	Z	0	0	0	%100
67	M112	X	3.002	3.002	0	%100
68	M112	Z	0	0	0	%100
69	M113	X	3.002	3.002	0	%100
70	M113	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	1.509	1.509	0	%100
2	M1	Z	.871	.871	0	%100
3	M2	X	1.509	1.509	0	%100
4	M2	Z	.871	.871	0	%100
5	M3	X	1.367	1.367	0	%100
6	M3	Z	.789	.789	0	%100
7	M4	X	1.367	1.367	0	%100
8	M4	Z	.789	.789	0	%100
9	M5	X	3.704	3.704	0	%100
10	M5	Z	2.138	2.138	0	%100
11	M6	X	3.704	3.704	0	%100
12	M6	Z	2.138	2.138	0	%100
13	M7	X	.302	.302	0	%100
14	M7	Z	.175	.175	0	%100
15	M8	X	.302	.302	0	%100
16	M8	Z	.175	.175	0	%100
17	M9	X	3.427	3.427	0	%100
18	M9	Z	1.979	1.979	0	%100
19	M10	X	3.427	3.427	0	%100
20	M10	Z	1.979	1.979	0	%100
21	MP1A	X	3.484	3.484	0	%100
22	MP1A	Z	2.012	2.012	0	%100
23	M34	X	3.596	3.596	0	%100
24	M34	Z	2.076	2.076	0	%100
25	M35	X	2.073	2.073	0	%100
26	M35	Z	1.197	1.197	0	%100
27	M36	X	2.087	2.087	0	%100
28	M36	Z	1.205	1.205	0	%100
29	M37	X	3.596	3.596	0	%100
30	M37	Z	2.076	2.076	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,%]
31	M38A	X	4.5	4.5	0	%100
32	M38A	Z	2.598	2.598	0	%100
33	M49	X	1.057	1.057	0	%100
34	M49	Z	.61	.61	0	%100
35	M50	X	1.057	1.057	0	%100
36	M50	Z	.61	.61	0	%100
37	MP2A	X	3.484	3.484	0	%100
38	MP2A	Z	2.012	2.012	0	%100
39	MP3A	X	3.484	3.484	0	%100
40	MP3A	Z	2.012	2.012	0	%100
41	MP4A	X	3.484	3.484	0	%100
42	MP4A	Z	2.012	2.012	0	%100
43	MP5A	X	3.484	3.484	0	%100
44	MP5A	Z	2.012	2.012	0	%100
45	M71A	X	1.057	1.057	0	%100
46	M71A	Z	.61	.61	0	%100
47	M72A	X	1.057	1.057	0	%100
48	M72A	Z	.61	.61	0	%100
49	M78	X	2.102	2.102	0	%100
50	M78	Z	1.214	1.214	0	%100
51	M80	X	1.047	1.047	0	%100
52	M80	Z	.605	.605	0	%100
53	M81	X	1.047	1.047	0	%100
54	M81	Z	.605	.605	0	%100
55	M86	X	1.047	1.047	0	%100
56	M86	Z	.605	.605	0	%100
57	M87	X	1.047	1.047	0	%100
58	M87	Z	.605	.605	0	%100
59	M96	X	.963	.963	0	%100
60	M96	Z	.556	.556	0	%100
61	M104	X	4.676	4.676	0	%100
62	M104	Z	2.7	2.7	0	%100
63	M105	X	2.269	2.269	0	%100
64	M105	Z	1.31	1.31	0	%100
65	M106	X	.963	.963	0	%100
66	M106	Z	.556	.556	0	%100
67	M112	X	4.296	4.296	0	%100
68	M112	Z	2.48	2.48	0	%100
69	M113	X	1.354	1.354	0	%100
70	M113	Z	.782	.782	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.614	2.614	0	%100
2	M1	Z	4.528	4.528	0	%100
3	M2	X	2.614	2.614	0	%100
4	M2	Z	4.528	4.528	0	%100
5	M3	X	2.368	2.368	0	%100
6	M3	Z	4.101	4.101	0	%100
7	M4	X	2.368	2.368	0	%100
8	M4	Z	4.101	4.101	0	%100
9	M5	X	2.095	2.095	0	%100
10	M5	Z	3.628	3.628	0	%100
11	M6	X	2.095	2.095	0	%100
12	M6	Z	3.628	3.628	0	%100
13	M7	X	.131	.131	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,%]
14	M7	Z	.227	.227	0	%100
15	M8	X	.131	.131	0	%100
16	M8	Z	.227	.227	0	%100
17	M9	X	.66	.66	0	%100
18	M9	Z	1.142	1.142	0	%100
19	M10	X	.66	.66	0	%100
20	M10	Z	1.142	1.142	0	%100
21	MP1A	X	2.012	2.012	0	%100
22	MP1A	Z	3.484	3.484	0	%100
23	M34	X	2.076	2.076	0	%100
24	M34	Z	3.596	3.596	0	%100
25	M35	X	2.012	2.012	0	%100
26	M35	Z	3.486	3.486	0	%100
27	M36	X	2.015	2.015	0	%100
28	M36	Z	3.49	3.49	0	%100
29	M37	X	2.076	2.076	0	%100
30	M37	Z	3.596	3.596	0	%100
31	M38A	X	2.598	2.598	0	%100
32	M38A	Z	4.5	4.5	0	%100
33	M49	X	.203	.203	0	%100
34	M49	Z	.352	.352	0	%100
35	M50	X	.203	.203	0	%100
36	M50	Z	.352	.352	0	%100
37	MP2A	X	2.012	2.012	0	%100
38	MP2A	Z	3.484	3.484	0	%100
39	MP3A	X	2.012	2.012	0	%100
40	MP3A	Z	3.484	3.484	0	%100
41	MP4A	X	2.012	2.012	0	%100
42	MP4A	Z	3.484	3.484	0	%100
43	MP5A	X	2.012	2.012	0	%100
44	MP5A	Z	3.484	3.484	0	%100
45	M71A	X	.203	.203	0	%100
46	M71A	Z	.352	.352	0	%100
47	M72A	X	.203	.203	0	%100
48	M72A	Z	.352	.352	0	%100
49	M78	X	.258	.258	0	%100
50	M78	Z	.446	.446	0	%100
51	M80	X	.202	.202	0	%100
52	M80	Z	.349	.349	0	%100
53	M81	X	.202	.202	0	%100
54	M81	Z	.349	.349	0	%100
55	M86	X	.202	.202	0	%100
56	M86	Z	.349	.349	0	%100
57	M87	X	.202	.202	0	%100
58	M87	Z	.349	.349	0	%100
59	M96	X	1.669	1.669	0	%100
60	M96	Z	2.89	2.89	0	%100
61	M104	X	2.654	2.654	0	%100
62	M104	Z	4.597	4.597	0	%100
63	M105	X	1.364	1.364	0	%100
64	M105	Z	2.363	2.363	0	%100
65	M106	X	1.669	1.669	0	%100
66	M106	Z	2.89	2.89	0	%100
67	M112	X	2.74	2.74	0	%100
68	M112	Z	4.746	4.746	0	%100
69	M113	X	1.041	1.041	0	%100
70	M113	Z	1.804	1.804	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	6.971	6.971	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	6.971	6.971	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	6.314	6.314	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	6.314	6.314	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	2.182	2.182	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	2.182	2.182	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	2.182	2.182	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	2.182	2.182	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	MP1A	X	0	0	0	%100
22	MP1A	Z	4.023	4.023	0	%100
23	M34	X	0	0	0	%100
24	M34	Z	4.152	4.152	0	%100
25	M35	X	0	0	0	%100
26	M35	Z	4.84	4.84	0	%100
27	M36	X	0	0	0	%100
28	M36	Z	4.84	4.84	0	%100
29	M37	X	0	0	0	%100
30	M37	Z	4.152	4.152	0	%100
31	M38A	X	0	0	0	%100
32	M38A	Z	5.196	5.196	0	%100
33	M49	X	0	0	0	%100
34	M49	Z	0	0	0	%100
35	M50	X	0	0	0	%100
36	M50	Z	0	0	0	%100
37	MP2A	X	0	0	0	%100
38	MP2A	Z	4.023	4.023	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	4.023	4.023	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	4.023	4.023	0	%100
43	MP5A	X	0	0	0	%100
44	MP5A	Z	4.023	4.023	0	%100
45	M71A	X	0	0	0	%100
46	M71A	Z	0	0	0	%100
47	M72A	X	0	0	0	%100
48	M72A	Z	0	0	0	%100
49	M78	X	0	0	0	%100
50	M78	Z	.099	.099	0	%100
51	M80	X	0	0	0	%100
52	M80	Z	0	0	0	%100
53	M81	X	0	0	0	%100
54	M81	Z	0	0	0	%100
55	M86	X	0	0	0	%100
56	M86	Z	0	0	0	%100
57	M87	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M87	Z	0	0	0	%100
59	M96	X	0	0	0	%100
60	M96	Z	4.45	4.45	0	%100
61	M104	X	0	0	0	%100
62	M104	Z	4.009	4.009	0	%100
63	M105	X	0	0	0	%100
64	M105	Z	4.117	4.117	0	%100
65	M106	X	0	0	0	%100
66	M106	Z	4.45	4.45	0	%100
67	M112	X	0	0	0	%100
68	M112	Z	4.041	4.041	0	%100
69	M113	X	0	0	0	%100
70	M113	Z	4.041	4.041	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.614	-2.614	0	%100
2	M1	Z	4.528	4.528	0	%100
3	M2	X	-2.614	-2.614	0	%100
4	M2	Z	4.528	4.528	0	%100
5	M3	X	-2.368	-2.368	0	%100
6	M3	Z	4.101	4.101	0	%100
7	M4	X	-2.368	-2.368	0	%100
8	M4	Z	4.101	4.101	0	%100
9	M5	X	-.131	-.131	0	%100
10	M5	Z	.227	.227	0	%100
11	M6	X	-.131	-.131	0	%100
12	M6	Z	.227	.227	0	%100
13	M7	X	-2.095	-2.095	0	%100
14	M7	Z	3.628	3.628	0	%100
15	M8	X	-2.095	-2.095	0	%100
16	M8	Z	3.628	3.628	0	%100
17	M9	X	-.66	-.66	0	%100
18	M9	Z	1.142	1.142	0	%100
19	M10	X	-.66	-.66	0	%100
20	M10	Z	1.142	1.142	0	%100
21	MP1A	X	-2.012	-2.012	0	%100
22	MP1A	Z	3.484	3.484	0	%100
23	M34	X	-2.076	-2.076	0	%100
24	M34	Z	3.596	3.596	0	%100
25	M35	X	-2.012	-2.012	0	%100
26	M35	Z	3.486	3.486	0	%100
27	M36	X	-2.015	-2.015	0	%100
28	M36	Z	3.49	3.49	0	%100
29	M37	X	-2.076	-2.076	0	%100
30	M37	Z	3.596	3.596	0	%100
31	M38A	X	-2.598	-2.598	0	%100
32	M38A	Z	4.5	4.5	0	%100
33	M49	X	-.203	-.203	0	%100
34	M49	Z	.352	.352	0	%100
35	M50	X	-.203	-.203	0	%100
36	M50	Z	.352	.352	0	%100
37	MP2A	X	-2.012	-2.012	0	%100
38	MP2A	Z	3.484	3.484	0	%100
39	MP3A	X	-2.012	-2.012	0	%100
40	MP3A	Z	3.484	3.484	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
41	MP4A	X	-2.012	-2.012	0	%100
42	MP4A	Z	3.484	3.484	0	%100
43	MP5A	X	-2.012	-2.012	0	%100
44	MP5A	Z	3.484	3.484	0	%100
45	M71A	X	-.203	-.203	0	%100
46	M71A	Z	.352	.352	0	%100
47	M72A	X	-.203	-.203	0	%100
48	M72A	Z	.352	.352	0	%100
49	M78	X	-.798	-.798	0	%100
50	M78	Z	1.382	1.382	0	%100
51	M80	X	-.202	-.202	0	%100
52	M80	Z	.349	.349	0	%100
53	M81	X	-.202	-.202	0	%100
54	M81	Z	.349	.349	0	%100
55	M86	X	-.202	-.202	0	%100
56	M86	Z	.349	.349	0	%100
57	M87	X	-.202	-.202	0	%100
58	M87	Z	.349	.349	0	%100
59	M96	X	-1.669	-1.669	0	%100
60	M96	Z	2.89	2.89	0	%100
61	M104	X	-1.4	-1.4	0	%100
62	M104	Z	2.425	2.425	0	%100
63	M105	X	-2.698	-2.698	0	%100
64	M105	Z	4.672	4.672	0	%100
65	M106	X	-1.669	-1.669	0	%100
66	M106	Z	2.89	2.89	0	%100
67	M112	X	-1.041	-1.041	0	%100
68	M112	Z	1.804	1.804	0	%100
69	M113	X	-2.74	-2.74	0	%100
70	M113	Z	4.746	4.746	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.509	-1.509	0	%100
2	M1	Z	.871	.871	0	%100
3	M2	X	-1.509	-1.509	0	%100
4	M2	Z	.871	.871	0	%100
5	M3	X	-1.367	-1.367	0	%100
6	M3	Z	.789	.789	0	%100
7	M4	X	-1.367	-1.367	0	%100
8	M4	Z	.789	.789	0	%100
9	M5	X	-.302	-.302	0	%100
10	M5	Z	.175	.175	0	%100
11	M6	X	-.302	-.302	0	%100
12	M6	Z	.175	.175	0	%100
13	M7	X	-3.704	-3.704	0	%100
14	M7	Z	2.138	2.138	0	%100
15	M8	X	-3.704	-3.704	0	%100
16	M8	Z	2.138	2.138	0	%100
17	M9	X	-3.427	-3.427	0	%100
18	M9	Z	1.979	1.979	0	%100
19	M10	X	-3.427	-3.427	0	%100
20	M10	Z	1.979	1.979	0	%100
21	MP1A	X	-3.484	-3.484	0	%100
22	MP1A	Z	2.012	2.012	0	%100
23	M34	X	-3.596	-3.596	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
24	M34	Z	2.076	2.076	0	%100
25	M35	X	-2.073	-2.073	0	%100
26	M35	Z	1.197	1.197	0	%100
27	M36	X	-2.087	-2.087	0	%100
28	M36	Z	1.205	1.205	0	%100
29	M37	X	-3.596	-3.596	0	%100
30	M37	Z	2.076	2.076	0	%100
31	M38A	X	-4.5	-4.5	0	%100
32	M38A	Z	2.598	2.598	0	%100
33	M49	X	-1.057	-1.057	0	%100
34	M49	Z	.61	.61	0	%100
35	M50	X	-1.057	-1.057	0	%100
36	M50	Z	.61	.61	0	%100
37	MP2A	X	-3.484	-3.484	0	%100
38	MP2A	Z	2.012	2.012	0	%100
39	MP3A	X	-3.484	-3.484	0	%100
40	MP3A	Z	2.012	2.012	0	%100
41	MP4A	X	-3.484	-3.484	0	%100
42	MP4A	Z	2.012	2.012	0	%100
43	MP5A	X	-3.484	-3.484	0	%100
44	MP5A	Z	2.012	2.012	0	%100
45	M71A	X	-1.057	-1.057	0	%100
46	M71A	Z	.61	.61	0	%100
47	M72A	X	-1.057	-1.057	0	%100
48	M72A	Z	.61	.61	0	%100
49	M78	X	-3.038	-3.038	0	%100
50	M78	Z	1.754	1.754	0	%100
51	M80	X	-1.047	-1.047	0	%100
52	M80	Z	.605	.605	0	%100
53	M81	X	-1.047	-1.047	0	%100
54	M81	Z	.605	.605	0	%100
55	M86	X	-1.047	-1.047	0	%100
56	M86	Z	.605	.605	0	%100
57	M87	X	-1.047	-1.047	0	%100
58	M87	Z	.605	.605	0	%100
59	M96	X	-.963	-.963	0	%100
60	M96	Z	.556	.556	0	%100
61	M104	X	-2.504	-2.504	0	%100
62	M104	Z	1.446	1.446	0	%100
63	M105	X	-4.578	-4.578	0	%100
64	M105	Z	2.643	2.643	0	%100
65	M106	X	-.963	-.963	0	%100
66	M106	Z	.556	.556	0	%100
67	M112	X	-1.354	-1.354	0	%100
68	M112	Z	.782	.782	0	%100
69	M113	X	-4.296	-4.296	0	%100
70	M113	Z	2.48	2.48	0	%100

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

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

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,%]
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	-2.357	-2.357	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	-2.357	-2.357	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	-2.357	-2.357	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	-2.357	-2.357	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	-5.277	-5.277	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	-5.277	-5.277	0	%100
20	M10	Z	0	0	0	%100
21	MP1A	X	-4.023	-4.023	0	%100
22	MP1A	Z	0	0	0	%100
23	M34	X	-4.152	-4.152	0	%100
24	M34	Z	0	0	0	%100
25	M35	X	-1.579	-1.579	0	%100
26	M35	Z	0	0	0	%100
27	M36	X	-1.599	-1.599	0	%100
28	M36	Z	0	0	0	%100
29	M37	X	-4.152	-4.152	0	%100
30	M37	Z	0	0	0	%100
31	M38A	X	-5.196	-5.196	0	%100
32	M38A	Z	0	0	0	%100
33	M49	X	-1.628	-1.628	0	%100
34	M49	Z	0	0	0	%100
35	M50	X	-1.628	-1.628	0	%100
36	M50	Z	0	0	0	%100
37	MP2A	X	-4.023	-4.023	0	%100
38	MP2A	Z	0	0	0	%100
39	MP3A	X	-4.023	-4.023	0	%100
40	MP3A	Z	0	0	0	%100
41	MP4A	X	-4.023	-4.023	0	%100
42	MP4A	Z	0	0	0	%100
43	MP5A	X	-4.023	-4.023	0	%100
44	MP5A	Z	0	0	0	%100
45	M71A	X	-1.628	-1.628	0	%100
46	M71A	Z	0	0	0	%100
47	M72A	X	-1.628	-1.628	0	%100
48	M72A	Z	0	0	0	%100
49	M78	X	-3.924	-3.924	0	%100
50	M78	Z	0	0	0	%100
51	M80	X	-1.612	-1.612	0	%100
52	M80	Z	0	0	0	%100
53	M81	X	-1.612	-1.612	0	%100
54	M81	Z	0	0	0	%100
55	M86	X	-1.612	-1.612	0	%100
56	M86	Z	0	0	0	%100
57	M87	X	-1.612	-1.612	0	%100
58	M87	Z	0	0	0	%100
59	M96	X	0	0	0	%100
60	M96	Z	0	0	0	%100
61	M104	X	-4.191	-4.191	0	%100
62	M104	Z	0	0	0	%100
63	M105	X	-3.898	-3.898	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,%]
64	M105	Z	0	0	0	%100
65	M106	X	0	0	0	%100
66	M106	Z	0	0	0	%100
67	M112	X	-3.002	-3.002	0	%100
68	M112	Z	0	0	0	%100
69	M113	X	-3.002	-3.002	0	%100
70	M113	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.509	-1.509	0	%100
2	M1	Z	-.871	-.871	0	%100
3	M2	X	-1.509	-1.509	0	%100
4	M2	Z	-.871	-.871	0	%100
5	M3	X	-1.367	-1.367	0	%100
6	M3	Z	-.789	-.789	0	%100
7	M4	X	-1.367	-1.367	0	%100
8	M4	Z	-.789	-.789	0	%100
9	M5	X	-3.704	-3.704	0	%100
10	M5	Z	-2.138	-2.138	0	%100
11	M6	X	-3.704	-3.704	0	%100
12	M6	Z	-2.138	-2.138	0	%100
13	M7	X	-.302	-.302	0	%100
14	M7	Z	-.175	-.175	0	%100
15	M8	X	-.302	-.302	0	%100
16	M8	Z	-.175	-.175	0	%100
17	M9	X	-3.427	-3.427	0	%100
18	M9	Z	-1.979	-1.979	0	%100
19	M10	X	-3.427	-3.427	0	%100
20	M10	Z	-1.979	-1.979	0	%100
21	MP1A	X	-3.484	-3.484	0	%100
22	MP1A	Z	-2.012	-2.012	0	%100
23	M34	X	-3.596	-3.596	0	%100
24	M34	Z	-2.076	-2.076	0	%100
25	M35	X	-2.073	-2.073	0	%100
26	M35	Z	-1.197	-1.197	0	%100
27	M36	X	-2.087	-2.087	0	%100
28	M36	Z	-1.205	-1.205	0	%100
29	M37	X	-3.596	-3.596	0	%100
30	M37	Z	-2.076	-2.076	0	%100
31	M38A	X	-4.5	-4.5	0	%100
32	M38A	Z	-2.598	-2.598	0	%100
33	M49	X	-1.057	-1.057	0	%100
34	M49	Z	-.61	-.61	0	%100
35	M50	X	-1.057	-1.057	0	%100
36	M50	Z	-.61	-.61	0	%100
37	MP2A	X	-3.484	-3.484	0	%100
38	MP2A	Z	-2.012	-2.012	0	%100
39	MP3A	X	-3.484	-3.484	0	%100
40	MP3A	Z	-2.012	-2.012	0	%100
41	MP4A	X	-3.484	-3.484	0	%100
42	MP4A	Z	-2.012	-2.012	0	%100
43	MP5A	X	-3.484	-3.484	0	%100
44	MP5A	Z	-2.012	-2.012	0	%100
45	M71A	X	-1.057	-1.057	0	%100
46	M71A	Z	-.61	-.61	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,%]
47	M72A	X	-1.057	-1.057	0	%100
48	M72A	Z	-.61	-.61	0	%100
49	M78	X	-2.102	-2.102	0	%100
50	M78	Z	-1.214	-1.214	0	%100
51	M80	X	-1.047	-1.047	0	%100
52	M80	Z	-.605	-.605	0	%100
53	M81	X	-1.047	-1.047	0	%100
54	M81	Z	-.605	-.605	0	%100
55	M86	X	-1.047	-1.047	0	%100
56	M86	Z	-.605	-.605	0	%100
57	M87	X	-1.047	-1.047	0	%100
58	M87	Z	-.605	-.605	0	%100
59	M96	X	-.963	-.963	0	%100
60	M96	Z	-.556	-.556	0	%100
61	M104	X	-4.676	-4.676	0	%100
62	M104	Z	-2.7	-2.7	0	%100
63	M105	X	-2.269	-2.269	0	%100
64	M105	Z	-1.31	-1.31	0	%100
65	M106	X	-.963	-.963	0	%100
66	M106	Z	-.556	-.556	0	%100
67	M112	X	-4.296	-4.296	0	%100
68	M112	Z	-2.48	-2.48	0	%100
69	M113	X	-1.354	-1.354	0	%100
70	M113	Z	-.782	-.782	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.614	-2.614	0	%100
2	M1	Z	-4.528	-4.528	0	%100
3	M2	X	-2.614	-2.614	0	%100
4	M2	Z	-4.528	-4.528	0	%100
5	M3	X	-2.368	-2.368	0	%100
6	M3	Z	-4.101	-4.101	0	%100
7	M4	X	-2.368	-2.368	0	%100
8	M4	Z	-4.101	-4.101	0	%100
9	M5	X	-2.095	-2.095	0	%100
10	M5	Z	-3.628	-3.628	0	%100
11	M6	X	-2.095	-2.095	0	%100
12	M6	Z	-3.628	-3.628	0	%100
13	M7	X	-.131	-.131	0	%100
14	M7	Z	-.227	-.227	0	%100
15	M8	X	-.131	-.131	0	%100
16	M8	Z	-.227	-.227	0	%100
17	M9	X	-.66	-.66	0	%100
18	M9	Z	-1.142	-1.142	0	%100
19	M10	X	-.66	-.66	0	%100
20	M10	Z	-1.142	-1.142	0	%100
21	MP1A	X	-2.012	-2.012	0	%100
22	MP1A	Z	-3.484	-3.484	0	%100
23	M34	X	-2.076	-2.076	0	%100
24	M34	Z	-3.596	-3.596	0	%100
25	M35	X	-2.012	-2.012	0	%100
26	M35	Z	-3.486	-3.486	0	%100
27	M36	X	-2.015	-2.015	0	%100
28	M36	Z	-3.49	-3.49	0	%100
29	M37	X	-2.076	-2.076	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,%]
30	M37	Z	-3.596	-3.596	0	%100
31	M38A	X	-2.598	-2.598	0	%100
32	M38A	Z	-4.5	-4.5	0	%100
33	M49	X	-.203	-.203	0	%100
34	M49	Z	-.352	-.352	0	%100
35	M50	X	-.203	-.203	0	%100
36	M50	Z	-.352	-.352	0	%100
37	MP2A	X	-2.012	-2.012	0	%100
38	MP2A	Z	-3.484	-3.484	0	%100
39	MP3A	X	-2.012	-2.012	0	%100
40	MP3A	Z	-3.484	-3.484	0	%100
41	MP4A	X	-2.012	-2.012	0	%100
42	MP4A	Z	-3.484	-3.484	0	%100
43	MP5A	X	-2.012	-2.012	0	%100
44	MP5A	Z	-3.484	-3.484	0	%100
45	M71A	X	-.203	-.203	0	%100
46	M71A	Z	-.352	-.352	0	%100
47	M72A	X	-.203	-.203	0	%100
48	M72A	Z	-.352	-.352	0	%100
49	M78	X	-.258	-.258	0	%100
50	M78	Z	-.446	-.446	0	%100
51	M80	X	-.202	-.202	0	%100
52	M80	Z	-.349	-.349	0	%100
53	M81	X	-.202	-.202	0	%100
54	M81	Z	-.349	-.349	0	%100
55	M86	X	-.202	-.202	0	%100
56	M86	Z	-.349	-.349	0	%100
57	M87	X	-.202	-.202	0	%100
58	M87	Z	-.349	-.349	0	%100
59	M96	X	-1.669	-1.669	0	%100
60	M96	Z	-2.89	-2.89	0	%100
61	M104	X	-2.654	-2.654	0	%100
62	M104	Z	-4.597	-4.597	0	%100
63	M105	X	-1.364	-1.364	0	%100
64	M105	Z	-2.363	-2.363	0	%100
65	M106	X	-1.669	-1.669	0	%100
66	M106	Z	-2.89	-2.89	0	%100
67	M112	X	-2.74	-2.74	0	%100
68	M112	Z	-4.746	-4.746	0	%100
69	M113	X	-1.041	-1.041	0	%100
70	M113	Z	-1.804	-1.804	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	-1.79	-1.79	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-1.79	-1.79	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-1.841	-1.841	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	-1.841	-1.841	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	-.474	-.474	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	-.474	-.474	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
13	M7	X	0	0	0	%100
14	M7	Z	-.474	-.474	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	-.474	-.474	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	MP1A	X	0	0	0	%100
22	MP1A	Z	-.729	-.729	0	%100
23	M34	X	0	0	0	%100
24	M34	Z	-.904	-.904	0	%100
25	M35	X	0	0	0	%100
26	M35	Z	-1.023	-1.023	0	%100
27	M36	X	0	0	0	%100
28	M36	Z	-1.023	-1.023	0	%100
29	M37	X	0	0	0	%100
30	M37	Z	-.904	-.904	0	%100
31	M38A	X	0	0	0	%100
32	M38A	Z	-.854	-.854	0	%100
33	M49	X	0	0	0	%100
34	M49	Z	0	0	0	%100
35	M50	X	0	0	0	%100
36	M50	Z	0	0	0	%100
37	MP2A	X	0	0	0	%100
38	MP2A	Z	-.729	-.729	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-.729	-.729	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	-.729	-.729	0	%100
43	MP5A	X	0	0	0	%100
44	MP5A	Z	-.729	-.729	0	%100
45	M71A	X	0	0	0	%100
46	M71A	Z	0	0	0	%100
47	M72A	X	0	0	0	%100
48	M72A	Z	0	0	0	%100
49	M78	X	0	0	0	%100
50	M78	Z	-.018	-.018	0	%100
51	M80	X	0	0	0	%100
52	M80	Z	0	0	0	%100
53	M81	X	0	0	0	%100
54	M81	Z	0	0	0	%100
55	M86	X	0	0	0	%100
56	M86	Z	0	0	0	%100
57	M87	X	0	0	0	%100
58	M87	Z	0	0	0	%100
59	M96	X	0	0	0	%100
60	M96	Z	-.882	-.882	0	%100
61	M104	X	0	0	0	%100
62	M104	Z	-.923	-.923	0	%100
63	M105	X	0	0	0	%100
64	M105	Z	-.948	-.948	0	%100
65	M106	X	0	0	0	%100
66	M106	Z	-.882	-.882	0	%100
67	M112	X	0	0	0	%100
68	M112	Z	-.931	-.931	0	%100
69	M113	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
70	M113	Z	-.931	-.931	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.671	.671	0	%100
2	M1	Z	-1.163	-1.163	0	%100
3	M2	X	.671	.671	0	%100
4	M2	Z	-1.163	-1.163	0	%100
5	M3	X	.69	.69	0	%100
6	M3	Z	-1.196	-1.196	0	%100
7	M4	X	.69	.69	0	%100
8	M4	Z	-1.196	-1.196	0	%100
9	M5	X	.028	.028	0	%100
10	M5	Z	-.049	-.049	0	%100
11	M6	X	.028	.028	0	%100
12	M6	Z	-.049	-.049	0	%100
13	M7	X	.456	.456	0	%100
14	M7	Z	-.789	-.789	0	%100
15	M8	X	.456	.456	0	%100
16	M8	Z	-.789	-.789	0	%100
17	M9	X	.166	.166	0	%100
18	M9	Z	-.287	-.287	0	%100
19	M10	X	.166	.166	0	%100
20	M10	Z	-.287	-.287	0	%100
21	MP1A	X	.364	.364	0	%100
22	MP1A	Z	-.631	-.631	0	%100
23	M34	X	.452	.452	0	%100
24	M34	Z	-.783	-.783	0	%100
25	M35	X	.425	.425	0	%100
26	M35	Z	-.737	-.737	0	%100
27	M36	X	.426	.426	0	%100
28	M36	Z	-.738	-.738	0	%100
29	M37	X	.452	.452	0	%100
30	M37	Z	-.783	-.783	0	%100
31	M38A	X	.427	.427	0	%100
32	M38A	Z	-.74	-.74	0	%100
33	M49	X	.019	.019	0	%100
34	M49	Z	-.033	-.033	0	%100
35	M50	X	.019	.019	0	%100
36	M50	Z	-.033	-.033	0	%100
37	MP2A	X	.364	.364	0	%100
38	MP2A	Z	-.631	-.631	0	%100
39	MP3A	X	.364	.364	0	%100
40	MP3A	Z	-.631	-.631	0	%100
41	MP4A	X	.364	.364	0	%100
42	MP4A	Z	-.631	-.631	0	%100
43	MP5A	X	.364	.364	0	%100
44	MP5A	Z	-.631	-.631	0	%100
45	M71A	X	.019	.019	0	%100
46	M71A	Z	-.033	-.033	0	%100
47	M72A	X	.019	.019	0	%100
48	M72A	Z	-.033	-.033	0	%100
49	M78	X	.145	.145	0	%100
50	M78	Z	-.25	-.25	0	%100
51	M80	X	.019	.019	0	%100
52	M80	Z	-.032	-.032	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,%]
53	M81	X	.019	.019	0	%100
54	M81	Z	-.032	-.032	0	%100
55	M86	X	.019	.019	0	%100
56	M86	Z	-.032	-.032	0	%100
57	M87	X	.019	.019	0	%100
58	M87	Z	-.032	-.032	0	%100
59	M96	X	.331	.331	0	%100
60	M96	Z	-.573	-.573	0	%100
61	M104	X	.323	.323	0	%100
62	M104	Z	-.559	-.559	0	%100
63	M105	X	.621	.621	0	%100
64	M105	Z	-1.076	-1.076	0	%100
65	M106	X	.331	.331	0	%100
66	M106	Z	-.573	-.573	0	%100
67	M112	X	.24	.24	0	%100
68	M112	Z	-.416	-.416	0	%100
69	M113	X	.631	.631	0	%100
70	M113	Z	-1.093	-1.093	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	.388	.388	0	%100
2	M1	Z	-.224	-.224	0	%100
3	M2	X	.388	.388	0	%100
4	M2	Z	-.224	-.224	0	%100
5	M3	X	.399	.399	0	%100
6	M3	Z	-.23	-.23	0	%100
7	M4	X	.399	.399	0	%100
8	M4	Z	-.23	-.23	0	%100
9	M5	X	.066	.066	0	%100
10	M5	Z	-.038	-.038	0	%100
11	M6	X	.066	.066	0	%100
12	M6	Z	-.038	-.038	0	%100
13	M7	X	.806	.806	0	%100
14	M7	Z	-.465	-.465	0	%100
15	M8	X	.806	.806	0	%100
16	M8	Z	-.465	-.465	0	%100
17	M9	X	.861	.861	0	%100
18	M9	Z	-.497	-.497	0	%100
19	M10	X	.861	.861	0	%100
20	M10	Z	-.497	-.497	0	%100
21	MP1A	X	.631	.631	0	%100
22	MP1A	Z	-.364	-.364	0	%100
23	M34	X	.783	.783	0	%100
24	M34	Z	-.452	-.452	0	%100
25	M35	X	.438	.438	0	%100
26	M35	Z	-.253	-.253	0	%100
27	M36	X	.441	.441	0	%100
28	M36	Z	-.255	-.255	0	%100
29	M37	X	.783	.783	0	%100
30	M37	Z	-.452	-.452	0	%100
31	M38A	X	.74	.74	0	%100
32	M38A	Z	-.427	-.427	0	%100
33	M49	X	.098	.098	0	%100
34	M49	Z	-.057	-.057	0	%100
35	M50	X	.098	.098	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,%]
36	M50	Z	-.057	-.057	0	%100
37	MP2A	X	.631	.631	0	%100
38	MP2A	Z	-.364	-.364	0	%100
39	MP3A	X	.631	.631	0	%100
40	MP3A	Z	-.364	-.364	0	%100
41	MP4A	X	.631	.631	0	%100
42	MP4A	Z	-.364	-.364	0	%100
43	MP5A	X	.631	.631	0	%100
44	MP5A	Z	-.364	-.364	0	%100
45	M71A	X	.098	.098	0	%100
46	M71A	Z	-.057	-.057	0	%100
47	M72A	X	.098	.098	0	%100
48	M72A	Z	-.057	-.057	0	%100
49	M78	X	.55	.55	0	%100
50	M78	Z	-.318	-.318	0	%100
51	M80	X	.096	.096	0	%100
52	M80	Z	-.056	-.056	0	%100
53	M81	X	.096	.096	0	%100
54	M81	Z	-.056	-.056	0	%100
55	M86	X	.096	.096	0	%100
56	M86	Z	-.056	-.056	0	%100
57	M87	X	.096	.096	0	%100
58	M87	Z	-.056	-.056	0	%100
59	M96	X	.191	.191	0	%100
60	M96	Z	-.11	-.11	0	%100
61	M104	X	.577	.577	0	%100
62	M104	Z	-.333	-.333	0	%100
63	M105	X	1.055	1.055	0	%100
64	M105	Z	-.609	-.609	0	%100
65	M106	X	.191	.191	0	%100
66	M106	Z	-.11	-.11	0	%100
67	M112	X	.312	.312	0	%100
68	M112	Z	-.18	-.18	0	%100
69	M113	X	.99	.99	0	%100
70	M113	Z	-.571	-.571	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	.513	.513	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	.513	.513	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	.513	.513	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	.513	.513	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	1.326	1.326	0	%100
18	M9	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
19	M10	X	1.326	1.326	0	%100
20	M10	Z	0	0	0	%100
21	MP1A	X	.729	.729	0	%100
22	MP1A	Z	0	0	0	%100
23	M34	X	.904	.904	0	%100
24	M34	Z	0	0	0	%100
25	M35	X	.334	.334	0	%100
26	M35	Z	0	0	0	%100
27	M36	X	.338	.338	0	%100
28	M36	Z	0	0	0	%100
29	M37	X	.904	.904	0	%100
30	M37	Z	0	0	0	%100
31	M38A	X	.854	.854	0	%100
32	M38A	Z	0	0	0	%100
33	M49	X	.151	.151	0	%100
34	M49	Z	0	0	0	%100
35	M50	X	.151	.151	0	%100
36	M50	Z	0	0	0	%100
37	MP2A	X	.729	.729	0	%100
38	MP2A	Z	0	0	0	%100
39	MP3A	X	.729	.729	0	%100
40	MP3A	Z	0	0	0	%100
41	MP4A	X	.729	.729	0	%100
42	MP4A	Z	0	0	0	%100
43	MP5A	X	.729	.729	0	%100
44	MP5A	Z	0	0	0	%100
45	M71A	X	.151	.151	0	%100
46	M71A	Z	0	0	0	%100
47	M72A	X	.151	.151	0	%100
48	M72A	Z	0	0	0	%100
49	M78	X	.711	.711	0	%100
50	M78	Z	0	0	0	%100
51	M80	X	.148	.148	0	%100
52	M80	Z	0	0	0	%100
53	M81	X	.148	.148	0	%100
54	M81	Z	0	0	0	%100
55	M86	X	.148	.148	0	%100
56	M86	Z	0	0	0	%100
57	M87	X	.148	.148	0	%100
58	M87	Z	0	0	0	%100
59	M96	X	0	0	0	%100
60	M96	Z	0	0	0	%100
61	M104	X	.965	.965	0	%100
62	M104	Z	0	0	0	%100
63	M105	X	.898	.898	0	%100
64	M105	Z	0	0	0	%100
65	M106	X	0	0	0	%100
66	M106	Z	0	0	0	%100
67	M112	X	.692	.692	0	%100
68	M112	Z	0	0	0	%100
69	M113	X	.692	.692	0	%100
70	M113	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.388	.388	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,%]
2	M1	Z	.224	.224	0	%100
3	M2	X	.388	.388	0	%100
4	M2	Z	.224	.224	0	%100
5	M3	X	.399	.399	0	%100
6	M3	Z	.23	.23	0	%100
7	M4	X	.399	.399	0	%100
8	M4	Z	.23	.23	0	%100
9	M5	X	.806	.806	0	%100
10	M5	Z	.465	.465	0	%100
11	M6	X	.806	.806	0	%100
12	M6	Z	.465	.465	0	%100
13	M7	X	.066	.066	0	%100
14	M7	Z	.038	.038	0	%100
15	M8	X	.066	.066	0	%100
16	M8	Z	.038	.038	0	%100
17	M9	X	.861	.861	0	%100
18	M9	Z	.497	.497	0	%100
19	M10	X	.861	.861	0	%100
20	M10	Z	.497	.497	0	%100
21	MP1A	X	.631	.631	0	%100
22	MP1A	Z	.364	.364	0	%100
23	M34	X	.783	.783	0	%100
24	M34	Z	.452	.452	0	%100
25	M35	X	.438	.438	0	%100
26	M35	Z	.253	.253	0	%100
27	M36	X	.441	.441	0	%100
28	M36	Z	.255	.255	0	%100
29	M37	X	.783	.783	0	%100
30	M37	Z	.452	.452	0	%100
31	M38A	X	.74	.74	0	%100
32	M38A	Z	.427	.427	0	%100
33	M49	X	.098	.098	0	%100
34	M49	Z	.057	.057	0	%100
35	M50	X	.098	.098	0	%100
36	M50	Z	.057	.057	0	%100
37	MP2A	X	.631	.631	0	%100
38	MP2A	Z	.364	.364	0	%100
39	MP3A	X	.631	.631	0	%100
40	MP3A	Z	.364	.364	0	%100
41	MP4A	X	.631	.631	0	%100
42	MP4A	Z	.364	.364	0	%100
43	MP5A	X	.631	.631	0	%100
44	MP5A	Z	.364	.364	0	%100
45	M71A	X	.098	.098	0	%100
46	M71A	Z	.057	.057	0	%100
47	M72A	X	.098	.098	0	%100
48	M72A	Z	.057	.057	0	%100
49	M78	X	.381	.381	0	%100
50	M78	Z	.22	.22	0	%100
51	M80	X	.096	.096	0	%100
52	M80	Z	.056	.056	0	%100
53	M81	X	.096	.096	0	%100
54	M81	Z	.056	.056	0	%100
55	M86	X	.096	.096	0	%100
56	M86	Z	.056	.056	0	%100
57	M87	X	.096	.096	0	%100
58	M87	Z	.056	.056	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,%]
59	M96	X	.191	.191	0	%100
60	M96	Z	.11	.11	0	%100
61	M104	X	1.077	1.077	0	%100
62	M104	Z	.622	.622	0	%100
63	M105	X	.523	.523	0	%100
64	M105	Z	.302	.302	0	%100
65	M106	X	.191	.191	0	%100
66	M106	Z	.11	.11	0	%100
67	M112	X	.99	.99	0	%100
68	M112	Z	.571	.571	0	%100
69	M113	X	.312	.312	0	%100
70	M113	Z	.18	.18	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	.671	.671	0	%100
2	M1	Z	1.163	1.163	0	%100
3	M2	X	.671	.671	0	%100
4	M2	Z	1.163	1.163	0	%100
5	M3	X	.69	.69	0	%100
6	M3	Z	1.196	1.196	0	%100
7	M4	X	.69	.69	0	%100
8	M4	Z	1.196	1.196	0	%100
9	M5	X	.456	.456	0	%100
10	M5	Z	.789	.789	0	%100
11	M6	X	.456	.456	0	%100
12	M6	Z	.789	.789	0	%100
13	M7	X	.028	.028	0	%100
14	M7	Z	.049	.049	0	%100
15	M8	X	.028	.028	0	%100
16	M8	Z	.049	.049	0	%100
17	M9	X	.166	.166	0	%100
18	M9	Z	.287	.287	0	%100
19	M10	X	.166	.166	0	%100
20	M10	Z	.287	.287	0	%100
21	MP1A	X	.364	.364	0	%100
22	MP1A	Z	.631	.631	0	%100
23	M34	X	.452	.452	0	%100
24	M34	Z	.783	.783	0	%100
25	M35	X	.425	.425	0	%100
26	M35	Z	.737	.737	0	%100
27	M36	X	.426	.426	0	%100
28	M36	Z	.738	.738	0	%100
29	M37	X	.452	.452	0	%100
30	M37	Z	.783	.783	0	%100
31	M38A	X	.427	.427	0	%100
32	M38A	Z	.74	.74	0	%100
33	M49	X	.019	.019	0	%100
34	M49	Z	.033	.033	0	%100
35	M50	X	.019	.019	0	%100
36	M50	Z	.033	.033	0	%100
37	MP2A	X	.364	.364	0	%100
38	MP2A	Z	.631	.631	0	%100
39	MP3A	X	.364	.364	0	%100
40	MP3A	Z	.631	.631	0	%100
41	MP4A	X	.364	.364	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,%]
42	MP4A	Z	.631	.631	0	%100
43	MP5A	X	.364	.364	0	%100
44	MP5A	Z	.631	.631	0	%100
45	M71A	X	.019	.019	0	%100
46	M71A	Z	.033	.033	0	%100
47	M72A	X	.019	.019	0	%100
48	M72A	Z	.033	.033	0	%100
49	M78	X	.047	.047	0	%100
50	M78	Z	.081	.081	0	%100
51	M80	X	.019	.019	0	%100
52	M80	Z	.032	.032	0	%100
53	M81	X	.019	.019	0	%100
54	M81	Z	.032	.032	0	%100
55	M86	X	.019	.019	0	%100
56	M86	Z	.032	.032	0	%100
57	M87	X	.019	.019	0	%100
58	M87	Z	.032	.032	0	%100
59	M96	X	.331	.331	0	%100
60	M96	Z	.573	.573	0	%100
61	M104	X	.611	.611	0	%100
62	M104	Z	1.059	1.059	0	%100
63	M105	X	.314	.314	0	%100
64	M105	Z	.544	.544	0	%100
65	M106	X	.331	.331	0	%100
66	M106	Z	.573	.573	0	%100
67	M112	X	.631	.631	0	%100
68	M112	Z	1.093	1.093	0	%100
69	M113	X	.24	.24	0	%100
70	M113	Z	.416	.416	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	1.79	1.79	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	1.79	1.79	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	1.841	1.841	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	1.841	1.841	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	.474	.474	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	.474	.474	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	.474	.474	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	.474	.474	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	MP1A	X	0	0	0	%100
22	MP1A	Z	.729	.729	0	%100
23	M34	X	0	0	0	%100
24	M34	Z	.904	.904	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
25	M35	X	0	0	0	%100
26	M35	Z	1.023	1.023	0	%100
27	M36	X	0	0	0	%100
28	M36	Z	1.023	1.023	0	%100
29	M37	X	0	0	0	%100
30	M37	Z	.904	.904	0	%100
31	M38A	X	0	0	0	%100
32	M38A	Z	.854	.854	0	%100
33	M49	X	0	0	0	%100
34	M49	Z	0	0	0	%100
35	M50	X	0	0	0	%100
36	M50	Z	0	0	0	%100
37	MP2A	X	0	0	0	%100
38	MP2A	Z	.729	.729	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	.729	.729	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	.729	.729	0	%100
43	MP5A	X	0	0	0	%100
44	MP5A	Z	.729	.729	0	%100
45	M71A	X	0	0	0	%100
46	M71A	Z	0	0	0	%100
47	M72A	X	0	0	0	%100
48	M72A	Z	0	0	0	%100
49	M78	X	0	0	0	%100
50	M78	Z	.018	.018	0	%100
51	M80	X	0	0	0	%100
52	M80	Z	0	0	0	%100
53	M81	X	0	0	0	%100
54	M81	Z	0	0	0	%100
55	M86	X	0	0	0	%100
56	M86	Z	0	0	0	%100
57	M87	X	0	0	0	%100
58	M87	Z	0	0	0	%100
59	M96	X	0	0	0	%100
60	M96	Z	.882	.882	0	%100
61	M104	X	0	0	0	%100
62	M104	Z	.923	.923	0	%100
63	M105	X	0	0	0	%100
64	M105	Z	.948	.948	0	%100
65	M106	X	0	0	0	%100
66	M106	Z	.882	.882	0	%100
67	M112	X	0	0	0	%100
68	M112	Z	.931	.931	0	%100
69	M113	X	0	0	0	%100
70	M113	Z	.931	.931	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.671	-.671	0	%100
2	M1	Z	1.163	1.163	0	%100
3	M2	X	-.671	-.671	0	%100
4	M2	Z	1.163	1.163	0	%100
5	M3	X	-.69	-.69	0	%100
6	M3	Z	1.196	1.196	0	%100
7	M4	X	-.69	-.69	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
8	M4	Z	1.196	1.196	0	%100
9	M5	X	-.028	-.028	0	%100
10	M5	Z	.049	.049	0	%100
11	M6	X	-.028	-.028	0	%100
12	M6	Z	.049	.049	0	%100
13	M7	X	-.456	-.456	0	%100
14	M7	Z	.789	.789	0	%100
15	M8	X	-.456	-.456	0	%100
16	M8	Z	.789	.789	0	%100
17	M9	X	-.166	-.166	0	%100
18	M9	Z	.287	.287	0	%100
19	M10	X	-.166	-.166	0	%100
20	M10	Z	.287	.287	0	%100
21	MP1A	X	-.364	-.364	0	%100
22	MP1A	Z	.631	.631	0	%100
23	M34	X	-.452	-.452	0	%100
24	M34	Z	.783	.783	0	%100
25	M35	X	-.425	-.425	0	%100
26	M35	Z	.737	.737	0	%100
27	M36	X	-.426	-.426	0	%100
28	M36	Z	.738	.738	0	%100
29	M37	X	-.452	-.452	0	%100
30	M37	Z	.783	.783	0	%100
31	M38A	X	-.427	-.427	0	%100
32	M38A	Z	.74	.74	0	%100
33	M49	X	-.019	-.019	0	%100
34	M49	Z	.033	.033	0	%100
35	M50	X	-.019	-.019	0	%100
36	M50	Z	.033	.033	0	%100
37	MP2A	X	-.364	-.364	0	%100
38	MP2A	Z	.631	.631	0	%100
39	MP3A	X	-.364	-.364	0	%100
40	MP3A	Z	.631	.631	0	%100
41	MP4A	X	-.364	-.364	0	%100
42	MP4A	Z	.631	.631	0	%100
43	MP5A	X	-.364	-.364	0	%100
44	MP5A	Z	.631	.631	0	%100
45	M71A	X	-.019	-.019	0	%100
46	M71A	Z	.033	.033	0	%100
47	M72A	X	-.019	-.019	0	%100
48	M72A	Z	.033	.033	0	%100
49	M78	X	-.145	-.145	0	%100
50	M78	Z	.25	.25	0	%100
51	M80	X	-.019	-.019	0	%100
52	M80	Z	.032	.032	0	%100
53	M81	X	-.019	-.019	0	%100
54	M81	Z	.032	.032	0	%100
55	M86	X	-.019	-.019	0	%100
56	M86	Z	.032	.032	0	%100
57	M87	X	-.019	-.019	0	%100
58	M87	Z	.032	.032	0	%100
59	M96	X	-.331	-.331	0	%100
60	M96	Z	.573	.573	0	%100
61	M104	X	-.323	-.323	0	%100
62	M104	Z	.559	.559	0	%100
63	M105	X	-.621	-.621	0	%100
64	M105	Z	1.076	1.076	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
65	M106	X	-.331	-.331	0	%100
66	M106	Z	.573	.573	0	%100
67	M112	X	-.24	-.24	0	%100
68	M112	Z	.416	.416	0	%100
69	M113	X	-.631	-.631	0	%100
70	M113	Z	1.093	1.093	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.388	-.388	0	%100
2	M1	Z	.224	.224	0	%100
3	M2	X	-.388	-.388	0	%100
4	M2	Z	.224	.224	0	%100
5	M3	X	-.399	-.399	0	%100
6	M3	Z	.23	.23	0	%100
7	M4	X	-.399	-.399	0	%100
8	M4	Z	.23	.23	0	%100
9	M5	X	-.066	-.066	0	%100
10	M5	Z	.038	.038	0	%100
11	M6	X	-.066	-.066	0	%100
12	M6	Z	.038	.038	0	%100
13	M7	X	-.806	-.806	0	%100
14	M7	Z	.465	.465	0	%100
15	M8	X	-.806	-.806	0	%100
16	M8	Z	.465	.465	0	%100
17	M9	X	-.861	-.861	0	%100
18	M9	Z	.497	.497	0	%100
19	M10	X	-.861	-.861	0	%100
20	M10	Z	.497	.497	0	%100
21	MP1A	X	-.631	-.631	0	%100
22	MP1A	Z	.364	.364	0	%100
23	M34	X	-.783	-.783	0	%100
24	M34	Z	.452	.452	0	%100
25	M35	X	-.438	-.438	0	%100
26	M35	Z	.253	.253	0	%100
27	M36	X	-.441	-.441	0	%100
28	M36	Z	.255	.255	0	%100
29	M37	X	-.783	-.783	0	%100
30	M37	Z	.452	.452	0	%100
31	M38A	X	-.74	-.74	0	%100
32	M38A	Z	.427	.427	0	%100
33	M49	X	-.098	-.098	0	%100
34	M49	Z	.057	.057	0	%100
35	M50	X	-.098	-.098	0	%100
36	M50	Z	.057	.057	0	%100
37	MP2A	X	-.631	-.631	0	%100
38	MP2A	Z	.364	.364	0	%100
39	MP3A	X	-.631	-.631	0	%100
40	MP3A	Z	.364	.364	0	%100
41	MP4A	X	-.631	-.631	0	%100
42	MP4A	Z	.364	.364	0	%100
43	MP5A	X	-.631	-.631	0	%100
44	MP5A	Z	.364	.364	0	%100
45	M71A	X	-.098	-.098	0	%100
46	M71A	Z	.057	.057	0	%100
47	M72A	X	-.098	-.098	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,%]
48	M72A	Z	.057	.057	0	%100
49	M78	X	-.55	-.55	0	%100
50	M78	Z	.318	.318	0	%100
51	M80	X	-.096	-.096	0	%100
52	M80	Z	.056	.056	0	%100
53	M81	X	-.096	-.096	0	%100
54	M81	Z	.056	.056	0	%100
55	M86	X	-.096	-.096	0	%100
56	M86	Z	.056	.056	0	%100
57	M87	X	-.096	-.096	0	%100
58	M87	Z	.056	.056	0	%100
59	M96	X	-.191	-.191	0	%100
60	M96	Z	.11	.11	0	%100
61	M104	X	-.577	-.577	0	%100
62	M104	Z	.333	.333	0	%100
63	M105	X	-1.055	-1.055	0	%100
64	M105	Z	.609	.609	0	%100
65	M106	X	-.191	-.191	0	%100
66	M106	Z	.11	.11	0	%100
67	M112	X	-.312	-.312	0	%100
68	M112	Z	.18	.18	0	%100
69	M113	X	-.99	-.99	0	%100
70	M113	Z	.571	.571	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	-.513	-.513	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	-.513	-.513	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	-.513	-.513	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	-.513	-.513	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	-1.326	-1.326	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	-1.326	-1.326	0	%100
20	M10	Z	0	0	0	%100
21	MP1A	X	-.729	-.729	0	%100
22	MP1A	Z	0	0	0	%100
23	M34	X	-.904	-.904	0	%100
24	M34	Z	0	0	0	%100
25	M35	X	-.334	-.334	0	%100
26	M35	Z	0	0	0	%100
27	M36	X	-.338	-.338	0	%100
28	M36	Z	0	0	0	%100
29	M37	X	-.904	-.904	0	%100
30	M37	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,%]
31	M38A	X	-.854	-.854	0	%100
32	M38A	Z	0	0	0	%100
33	M49	X	-.151	-.151	0	%100
34	M49	Z	0	0	0	%100
35	M50	X	-.151	-.151	0	%100
36	M50	Z	0	0	0	%100
37	MP2A	X	-.729	-.729	0	%100
38	MP2A	Z	0	0	0	%100
39	MP3A	X	-.729	-.729	0	%100
40	MP3A	Z	0	0	0	%100
41	MP4A	X	-.729	-.729	0	%100
42	MP4A	Z	0	0	0	%100
43	MP5A	X	-.729	-.729	0	%100
44	MP5A	Z	0	0	0	%100
45	M71A	X	-.151	-.151	0	%100
46	M71A	Z	0	0	0	%100
47	M72A	X	-.151	-.151	0	%100
48	M72A	Z	0	0	0	%100
49	M78	X	-.711	-.711	0	%100
50	M78	Z	0	0	0	%100
51	M80	X	-.148	-.148	0	%100
52	M80	Z	0	0	0	%100
53	M81	X	-.148	-.148	0	%100
54	M81	Z	0	0	0	%100
55	M86	X	-.148	-.148	0	%100
56	M86	Z	0	0	0	%100
57	M87	X	-.148	-.148	0	%100
58	M87	Z	0	0	0	%100
59	M96	X	0	0	0	%100
60	M96	Z	0	0	0	%100
61	M104	X	-.965	-.965	0	%100
62	M104	Z	0	0	0	%100
63	M105	X	-.898	-.898	0	%100
64	M105	Z	0	0	0	%100
65	M106	X	0	0	0	%100
66	M106	Z	0	0	0	%100
67	M112	X	-.692	-.692	0	%100
68	M112	Z	0	0	0	%100
69	M113	X	-.692	-.692	0	%100
70	M113	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	-.388	-.388	0	%100
2	M1	Z	-.224	-.224	0	%100
3	M2	X	-.388	-.388	0	%100
4	M2	Z	-.224	-.224	0	%100
5	M3	X	-.399	-.399	0	%100
6	M3	Z	-.23	-.23	0	%100
7	M4	X	-.399	-.399	0	%100
8	M4	Z	-.23	-.23	0	%100
9	M5	X	-.806	-.806	0	%100
10	M5	Z	-.465	-.465	0	%100
11	M6	X	-.806	-.806	0	%100
12	M6	Z	-.465	-.465	0	%100
13	M7	X	-.066	-.066	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,%]
14	M7	Z	-.038	-.038	0	%100
15	M8	X	-.066	-.066	0	%100
16	M8	Z	-.038	-.038	0	%100
17	M9	X	-.861	-.861	0	%100
18	M9	Z	-.497	-.497	0	%100
19	M10	X	-.861	-.861	0	%100
20	M10	Z	-.497	-.497	0	%100
21	MP1A	X	-.631	-.631	0	%100
22	MP1A	Z	-.364	-.364	0	%100
23	M34	X	-.783	-.783	0	%100
24	M34	Z	-.452	-.452	0	%100
25	M35	X	-.438	-.438	0	%100
26	M35	Z	-.253	-.253	0	%100
27	M36	X	-.441	-.441	0	%100
28	M36	Z	-.255	-.255	0	%100
29	M37	X	-.783	-.783	0	%100
30	M37	Z	-.452	-.452	0	%100
31	M38A	X	-.74	-.74	0	%100
32	M38A	Z	-.427	-.427	0	%100
33	M49	X	-.098	-.098	0	%100
34	M49	Z	-.057	-.057	0	%100
35	M50	X	-.098	-.098	0	%100
36	M50	Z	-.057	-.057	0	%100
37	MP2A	X	-.631	-.631	0	%100
38	MP2A	Z	-.364	-.364	0	%100
39	MP3A	X	-.631	-.631	0	%100
40	MP3A	Z	-.364	-.364	0	%100
41	MP4A	X	-.631	-.631	0	%100
42	MP4A	Z	-.364	-.364	0	%100
43	MP5A	X	-.631	-.631	0	%100
44	MP5A	Z	-.364	-.364	0	%100
45	M71A	X	-.098	-.098	0	%100
46	M71A	Z	-.057	-.057	0	%100
47	M72A	X	-.098	-.098	0	%100
48	M72A	Z	-.057	-.057	0	%100
49	M78	X	-.381	-.381	0	%100
50	M78	Z	-.22	-.22	0	%100
51	M80	X	-.096	-.096	0	%100
52	M80	Z	-.056	-.056	0	%100
53	M81	X	-.096	-.096	0	%100
54	M81	Z	-.056	-.056	0	%100
55	M86	X	-.096	-.096	0	%100
56	M86	Z	-.056	-.056	0	%100
57	M87	X	-.096	-.096	0	%100
58	M87	Z	-.056	-.056	0	%100
59	M96	X	-.191	-.191	0	%100
60	M96	Z	-.11	-.11	0	%100
61	M104	X	-1.077	-1.077	0	%100
62	M104	Z	-.622	-.622	0	%100
63	M105	X	-.523	-.523	0	%100
64	M105	Z	-.302	-.302	0	%100
65	M106	X	-.191	-.191	0	%100
66	M106	Z	-.11	-.11	0	%100
67	M112	X	-.99	-.99	0	%100
68	M112	Z	-.571	-.571	0	%100
69	M113	X	-.312	-.312	0	%100
70	M113	Z	-.18	-.18	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	-.671	-.671	0	%100
2	M1	Z	-1.163	-1.163	0	%100
3	M2	X	-.671	-.671	0	%100
4	M2	Z	-1.163	-1.163	0	%100
5	M3	X	-.69	-.69	0	%100
6	M3	Z	-1.196	-1.196	0	%100
7	M4	X	-.69	-.69	0	%100
8	M4	Z	-1.196	-1.196	0	%100
9	M5	X	-.456	-.456	0	%100
10	M5	Z	-.789	-.789	0	%100
11	M6	X	-.456	-.456	0	%100
12	M6	Z	-.789	-.789	0	%100
13	M7	X	-.028	-.028	0	%100
14	M7	Z	-.049	-.049	0	%100
15	M8	X	-.028	-.028	0	%100
16	M8	Z	-.049	-.049	0	%100
17	M9	X	-.166	-.166	0	%100
18	M9	Z	-.287	-.287	0	%100
19	M10	X	-.166	-.166	0	%100
20	M10	Z	-.287	-.287	0	%100
21	MP1A	X	-.364	-.364	0	%100
22	MP1A	Z	-.631	-.631	0	%100
23	M34	X	-.452	-.452	0	%100
24	M34	Z	-.783	-.783	0	%100
25	M35	X	-.425	-.425	0	%100
26	M35	Z	-.737	-.737	0	%100
27	M36	X	-.426	-.426	0	%100
28	M36	Z	-.738	-.738	0	%100
29	M37	X	-.452	-.452	0	%100
30	M37	Z	-.783	-.783	0	%100
31	M38A	X	-.427	-.427	0	%100
32	M38A	Z	-.74	-.74	0	%100
33	M49	X	-.019	-.019	0	%100
34	M49	Z	-.033	-.033	0	%100
35	M50	X	-.019	-.019	0	%100
36	M50	Z	-.033	-.033	0	%100
37	MP2A	X	-.364	-.364	0	%100
38	MP2A	Z	-.631	-.631	0	%100
39	MP3A	X	-.364	-.364	0	%100
40	MP3A	Z	-.631	-.631	0	%100
41	MP4A	X	-.364	-.364	0	%100
42	MP4A	Z	-.631	-.631	0	%100
43	MP5A	X	-.364	-.364	0	%100
44	MP5A	Z	-.631	-.631	0	%100
45	M71A	X	-.019	-.019	0	%100
46	M71A	Z	-.033	-.033	0	%100
47	M72A	X	-.019	-.019	0	%100
48	M72A	Z	-.033	-.033	0	%100
49	M78	X	-.047	-.047	0	%100
50	M78	Z	-.081	-.081	0	%100
51	M80	X	-.019	-.019	0	%100
52	M80	Z	-.032	-.032	0	%100
53	M81	X	-.019	-.019	0	%100
54	M81	Z	-.032	-.032	0	%100
55	M86	X	-.019	-.019	0	%100
56	M86	Z	-.032	-.032	0	%100
57	M87	X	-.019	-.019	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,%]
58	M87	Z	-.032	-.032	0	%100
59	M96	X	-.331	-.331	0	%100
60	M96	Z	-.573	-.573	0	%100
61	M104	X	-.611	-.611	0	%100
62	M104	Z	-1.059	-1.059	0	%100
63	M105	X	-.314	-.314	0	%100
64	M105	Z	-.544	-.544	0	%100
65	M106	X	-.331	-.331	0	%100
66	M106	Z	-.573	-.573	0	%100
67	M112	X	-.631	-.631	0	%100
68	M112	Z	-1.093	-1.093	0	%100
69	M113	X	-.24	-.24	0	%100
70	M113	Z	-.416	-.416	0	%100

Member Area Loads

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

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N89	max	-92.883	3	667.277	24	1421.758	1	.948	2	0	51	1.496	26
2		min	-1908.093	48	296.2	8	-3054.472	7	-1.744	8	0	1	.08	9
3	N130	max	379.081	9	34.86	15	2185.181	9	0	51	0	51	0	51
4		min	-388.074	3	4.168	11	-2198.524	3	0	1	0	1	0	1
5	N129A	max	108.659	9	30.203	8	1312.615	2	.126	8	0	51	.009	3
6		min	-699.346	26	-59.87	2	-676.03	8	-.3	2	0	1	-.006	11
7	N174	max	2079.29	11	647.405	8	1367.112	2	.001	20	0	50	0	9
8		min	-734.884	4	-355.965	2	-2170.574	8	0	2	0	9	-.002	50
9	N204	max	1711.109	11	2265.594	14	2397.512	14	.002	18	.002	9	.002	9
10		min	-1008.966	3	408.769	8	322.388	8	0	12	-.002	3	-.003	3
11	Totals:	max	2865.754	10	3172.428	18	4557.427	1						
12		min	-2865.75	4	1392.695	12	-4557.468	7						

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

	Member	Shape	Code Check	Loc[...	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc...	phi*Pnt ...	phi*Mn ...	phi*Mn ...	Cb	Eqn
1	M1	L3.5X3.5X6	.569	8.993	20	.175	10.92	y	44	12028.1...	81000	3.34	6.566	1...	H2-1
2	M2	L3.5X3.5X6	.563	3.212	9	.136	2.955	z	3	12028.1...	81000	3.34	6.559	1...	H2-1
3	M3	L6X6X6	.083	.333	3	.052	.333	y	3	114761....	141912	10.965	23.481	1...	H2-1
4	M4	L6X6X6	.097	.333	20	.068	.333	z	20	114761....	141912	10.965	22.86	1...	H2-1
5	M5	L2x2x3	.279	1.908	5	.331	3.816	z	36	11278.0...	23392.8	.558	1.096	1...	H2-1
6	M6	L2x2x3	.148	1.908	6	.342	3.816	y	36	11278.0...	23392.8	.558	1.096	1...	H2-1
7	M7	L2x2x3	.178	1.908	19	.326	3.816	z	36	11278.0...	23392.8	.558	1.096	1...	H2-1
8	M8	L2x2x3	.136	1.908	3	.318	3.816	y	36	11278.0...	23392.8	.558	1.096	1...	H2-1
9	M9	L3.5X3.5X6	.167	2.75	48	.021	2.75	z	50	71632.7...	81000	3.34	7.452	1...	H2-1
10	M10	L3.5X3.5X6	.199	2.75	48	.016	2.75	y	26	71632.7...	81000	3.34	7.452	1...	H2-1
11	MP1A	PIPE_2.0	.307	5.5	47	.156	5.5		47	20866.7...	32130	1.872	1.872	3...	H1-1b
12	M34	L2x2x3	.047	1.5	9	.024	0	y	5	14902.8...	23392.8	.558	1.151	1...	H2-1
13	M35	L2x2x3	.176	2.627	2	.020	5.253	z	2	6210.714	23392.8	.558	1.011	1...	H2-1
14	M36	L2x2x3	.202	2.61	12	.014	5.219	y	29	6292.256	23392.8	.558	1.012	1...	H2-1
15	M37	L2x2x3	.042	1.5	12	.013	0	y	44	14902.8...	23392.8	.558	1.151	1...	H2-1
16	M38A	PIPE_4.0	.156	1.688	2	.213	4.688		45	83097.9...	93240	10.631	10.631	1...	H1-1b
17	M49	SR_0.625	.634	0	26	.049	.708		3	8506.152	9940.19	.104	.104	2...	H1-1b

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

	Member	Shape	Code Check	Loc[...	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc...	phi*Pnt ...	phi*Mn ...	phi*Mn ...	Cb	Eqn
18	M50	SR_0.625	.605	0	26	.049	.708		3	8506.151	9940.19	.104	.104	2.2	H1-1b
19	MP2A	PIPE_2.0	.245	4.958	19	.214	5.031		45	17855.0...	32130	1.872	1.872	2...	H1-1b
20	MP3A	PIPE_2.0	.209	5.5	18	.273	1.938		11	20866.7...	32130	1.872	1.872	2...	H1-1b
21	MP4A	PIPE_2.0	.296	2	9	.235	5		17	20866.7...	32130	1.872	1.872	1...	H1-1b
22	MP5A	PIPE_2.0	.371	1.688	9	.320	1.063		9	20866.7...	32130	1.872	1.872	2...	H3-6
23	M71A	SR_0.625	.615	0	26	.048	.708		3	8506.151	9940.19	.104	.104	2...	H1-1b
24	M72A	SR_0.625	.650	0	26	.048	.708		3	8506.151	9940.19	.104	.104	2.2	H1-1b
25	M78	PIPE_2.0	.123	0	9	.005	0		10	18225.0...	32130	1.872	1.872	1...	H1-1b*
26	M80	SR_0.625	.013	0	8	.002	.667		26	8658.83	9940.19	.104	.104	2...	H1-1b
27	M81	SR_0.625	.013	.667	12	.002	0		25	8658.828	9940.19	.104	.104	1...	H1-1b*
28	M86	SR_0.625	.009	0	47	.001	.667		26	8658.828	9940.19	.104	.104	2...	H1-1b
29	M87	SR_0.625	.010	.667	48	.001	0		26	8658.828	9940.19	.104	.104	2...	H1-1b*
30	M96	PIPE_2.5	.305	2.698	9	.118	2.826		9	14954.9...	50715	3.596	3.596	2...	H1-1b
31	M104	L2.5x2.5x4	.124	2.587	11	.013	0	y	18	16101.6...	38556	1.114	2.232	1...	H2-1
32	M105	L2.5x2.5x4	.131	2.759	2	.011	5.517	y	2	14248.8...	38556	1.114	2.199	1...	H2-1
33	M106	PIPE_2.5	.308	9.122	20	.176	1.156		3	14954.9...	50715	3.596	3.596	1...	H1-1b
34	M112	L2.5x2.5x4	.295	3.545	5	.023	6.945	z	5	8992.68	38556	1.114	2.071	1...	H2-1
35	M113	L2.5x2.5x4	.354	3.545	24	.017	0	y	8	8992.678	38556	1.114	2.071	1...	H2-1

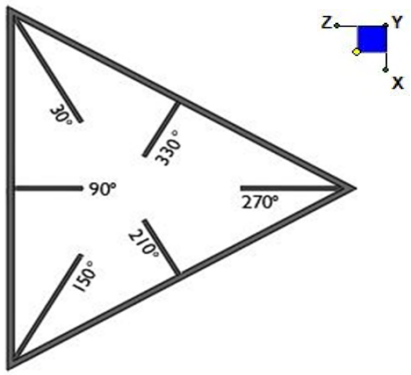
Client:	Verizon Wireless	Date:	5/18/2021
Site Name:	Clinton S CT		
Project No.	20777640A		
Title:	Antenna Mount Fix	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

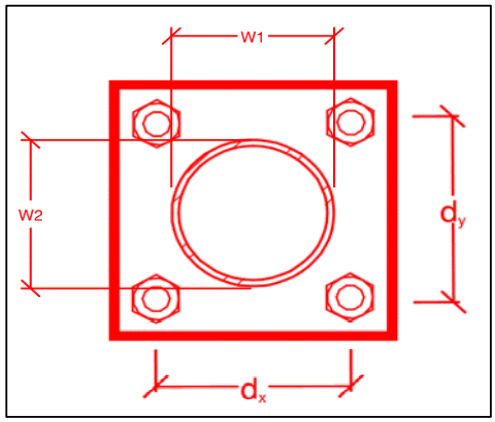
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N129A	90
N89	90



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:	yes
Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)* :	6
d_y (in) *(Delta Y of typ. bolt config. sketch)* :	2
Bolt Type:	A307
Bolt Diameter (in):	0.625
Required Tensile Strength (kips):	23.7
Required Shear Strength (kips):	7.6
Tensile Strength / bolt (kips):	10.0
Shear Strength / bolt (kips):	6.0
Tensile Capacity Overall:	**59.2%***
Shear Capacity Overall:	**31.5%**



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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

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

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

Base Requirements:

- Any special photos outside of the standard requirements will be indicated on the drawings
- Provide "as built drawings" showing contractor's name, preparer's signature, and date. Any deviations from the drawings (proposed modification) must be shown.
- Notation that all hardware was properly installed, and the existing hardware was inspected for any issues.
- Verification that loading is as communicated in the modification drawings. NOTE If loading is different than what is conveyed in the modification drawing contact Maser Consulting Connecticut immediately.
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope.
- The photos in the file structure should be uploaded to **https://pmi.vzwsmart.com** as depicted on the drawings

Photo Requirements:

- *Base and "During Installation Photos"*
  - Base pictures include
    - Photo of Gate Signs showing the tower owner, site name, and number
    - Photo of carrier shelter showing the carrier site name and number if available
    - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
  - "During Installation Photos if provided - must be placed only in this folder
- *Photos taken at ground level*
  - Overall tower structure before and after installation of the modifications
  - Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed

- *Photos taken at Mount Elevation*
    - Photos showing each individual sector before and also after installation of modifications. Each entire sector must be in one photo to show in the inter-connection of members.
        These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
    - Close-up photos of each installed modification per the modification drawings; pictures should also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
    - Photos showing the measurements of the installed modification member sizes (i.e. lengths, widths, depths, diameters, thicknesses)
    - Photos showing the elevation or distances of the installed modifications from the appropriate reference locations shown in the modification drawings
    - Photos showing the installed modifications onto the tower with tape drop measurements (if applicable) (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, a tape drop measurement shall be provided before the elevation change
    - Photos showing the safety climb wire rope above and below the mount prior to modification.
    - Photos showing the climbing facility and safety climb if present.

Material Certification:

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

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

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

Certifying Individual: Company _____

Name _____

Signature _____

Antenna & equipment placement and Geometry Confirmation:

- The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.

☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the antenna placement diagrams as included in this mount analysis.

☐ The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.

Certifying Individual: Company _____

Name _____

Signature _____

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

Issue:

Response:

Schedule A – Photo & Document File Structure

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

Structure: 469265-VZW - Clinton South CT

Sector: **A**

Structure Type: Self Support

Mount Elev: 162.00

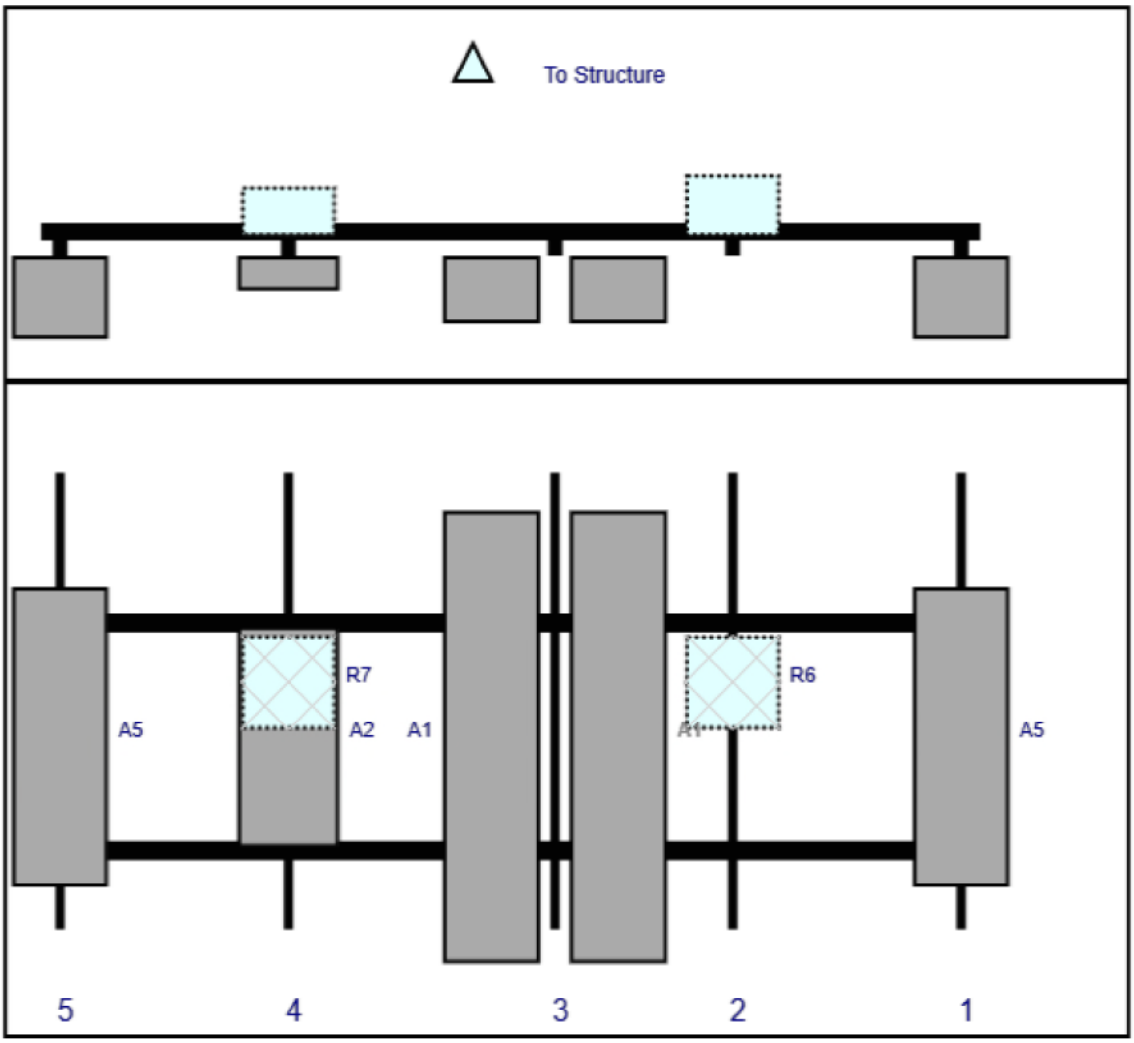
5/18/2021

Page: 1

MASER CONSULTING CONNECTICUT

Plan View

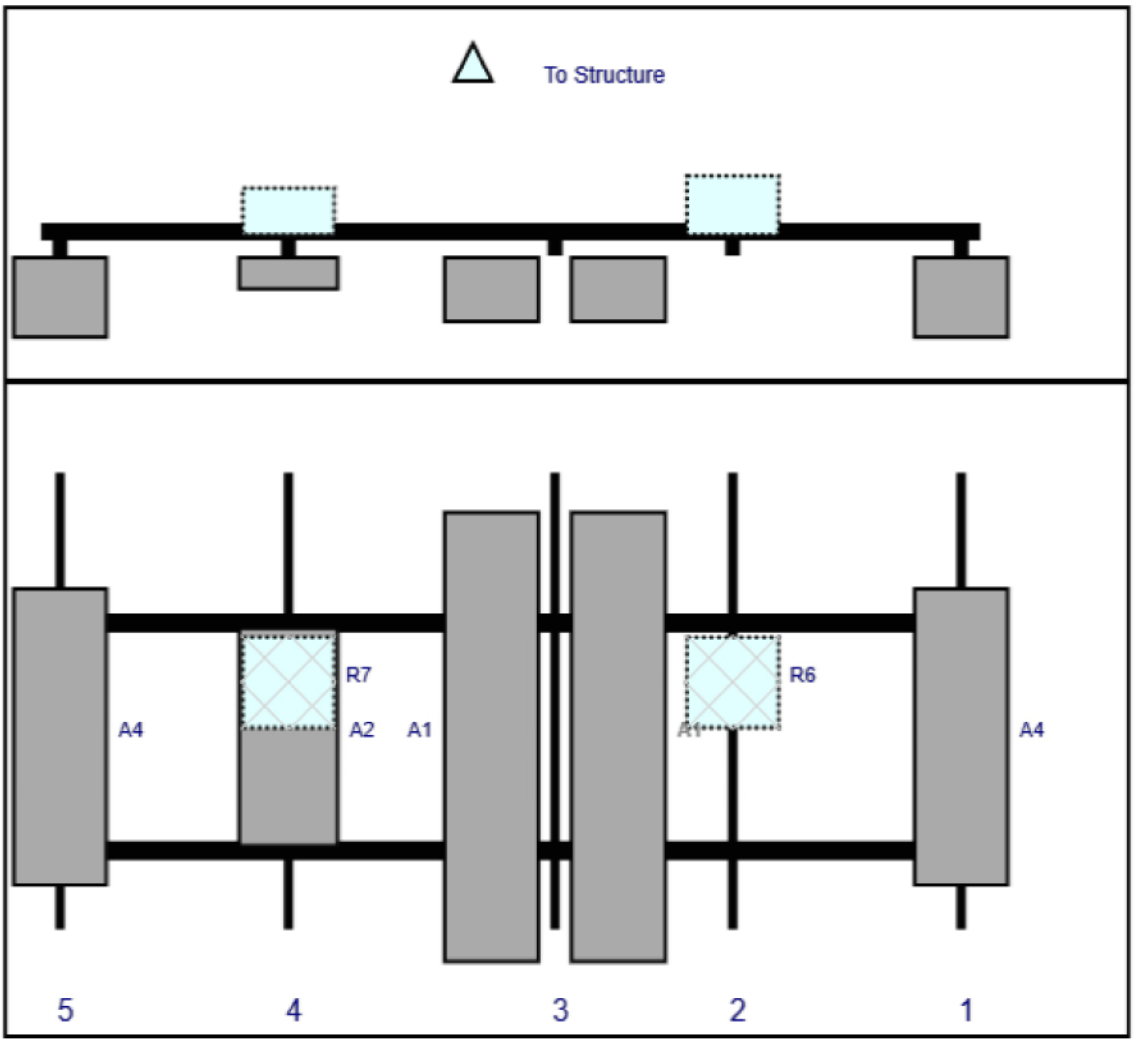
Front View
Looking at Structure



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
A5	LPA-80063	47.4	15.2	145	1	a	Front	41.64	0	Retained	02/09/2021
R6	B2/B66A RRH-BR049	15	15	109	2	a	Behind	33	0	Added	
A1	MX06FRO660-03	71.3	15.4	81	3	a	Front	41.64	10	Added	
A1	MX06FRO660-03	71.3	15.4	81	3	b	Front	41.64	-10	Added	
A2	MT6407-77A	35.1	16.1	39	4	a	Front	41.64	0	Added	
R7	B5/B13 RRH-BR04C	15	15	39	4	a	Behind	33	0	Added	
A5	LPA-80063	47.4	15.2	3	5	a	Front	41.64	0	Retained	02/09/2021

Plan View

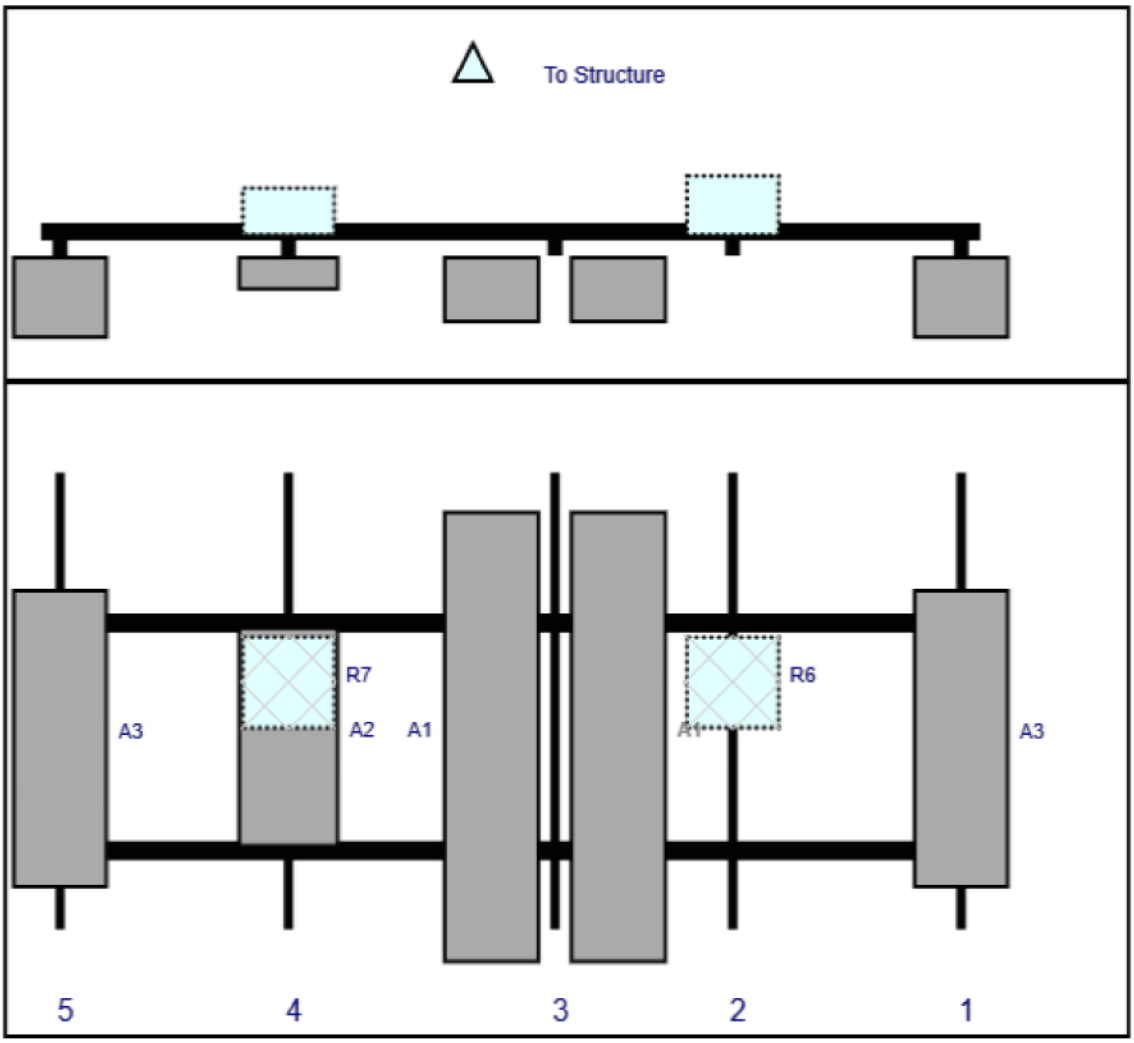
Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A4	LPA-80063-4CF-EDIN-6	47.4	15.2	145	1	a	Front	41.64	0	Retained	02/09/2021
R6	B2/B66A RRH-BR049	15	15	109	2	a	Behind	33	0	Added	
A1	MX06FRO660-03	71.3	15.4	81	3	a	Front	41.64	10	Added	
A1	MX06FRO660-03	71.3	15.4	81	3	b	Front	41.64	-10	Added	
A2	MT6407-77A	35.1	16.1	39	4	a	Front	41.64	0	Added	
R7	B5/B13 RRH-BR04C	15	15	39	4	a	Behind	33	0	Added	
A4	LPA-80063-4CF-EDIN-6	47.4	15.2	3	5	a	Front	41.64	0	Retained	02/09/2021

Plan View

Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A3	LPA-80063-4CF-EDIN-4	47.4	15.2	145	1	a	Front	41.94	0	Retained	02/09/2021
R6	B2/B66A RRH-BR049	15	15	109	2	a	Behind	33	0	Added	
A1	MX06FRO660-03	71.3	15.4	81	3	a	Front	41.64	10	Added	
A1	MX06FRO660-03	71.3	15.4	81	3	b	Front	41.64	-10	Added	
A2	MT6407-77A	35.1	16.1	39	4	a	Front	41.64	0	Added	
R7	B5/B13 RRH-BR04C	15	15	39	4	a	Behind	33	0	Added	
A3	LPA-80063-4CF-EDIN-4	47.4	15.2	3	5	a	Front	41.94	0	Retained	02/09/2021

Maser Consulting Connecticut

Subject	TIA-222-H Usage	
Site Information	*Site ID:*	*469265-VZW / Clinton S CT*
	Site Name:	*Clinton S CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*46 Meadow Rd.* *Clinton, Connecticut 06413* *Middlesex County*
	Latitude:	*41.275206°*
	Longitude:	*-72.497711°*
Structure Information	*Tower Type:*	*195.00-Ft Self Support*
	Mount Type:	*12.33-Ft Sector Mount*
	FUZE ID # 16244734	

To Whom It May Concern,

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

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

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

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

Sincerely,

Derek Hartzell, PE
Technical Specialist

05/21/2021

PROJECT NOTES

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

verizon

MOUNT MODIFICATION DRAWINGS
EXISTING 12.33' SECTOR FRAME

SITE NAME: CLINTON S CT
SITE NUMBER: 469265

46 MEADOW RD.
CLINTON, CT 06413
MIDDLESEX COUNTY

PROJECT INFORMATION

SITE INFORMATION

LATITUDE: 41.275206° N
LONGITUDE: 72.497711° W
JURISDICTION: MIDDLESEX COUNTY

APPLICANT/LESSEE

COMPANY: VERIZON WIRELESS

CLIENT REPRESENTATIVE

COMPANY: VERIZON WIRELESS
ADDRESS: 118 FLANDERS ROAD, THIRD FLOOR
CITY, STATE, ZIP: WESTBOROUGH, MA 01581
CONTACT: ANDREW CANDIELLO
EMAIL: ANDREW.CANDIELLO@VERIZONWIRELESS.COM

PROJECT MANAGER

COMPANY: MASER CONSULTING CONNECTICUT
CONTACT: GREG DULNIK
PHONE: (615) 686-2575
E-MAIL: GREG.DULNIK@COLLIERSENGINEERING.COM

SHEET INDEX

CONTRACTOR PMI REQUIREMENTS

PMI LOCATION:	HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #:	10063412
VZW LOCATION CODE (PSLC):	469265
FUZE ID:	16244734

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

REFERENCED DOCUMENTS

FAILING MOUNT ANALYSIS REPORT

SMART TOOL PROJECT #:	10032624
MASER CONSULTING PROJECT #:	20777640A
ANALYSIS DATE:	4/13/2021

MASER CONSULTING CONNECTICUT
WILL BE KNOWN AS COLLIERS ENGINEERING & DESIGN IN 2021
Customer Loyalty *through* Client Satisfaction
www.maserconsulting.com
Office Locations:

- NEW JERSEY
- NEW YORK
- PENNSYLVANIA
- VIRGINIA
- FLORIDA
- NORTH CAROLINA
- SOUTH CAROLINA
- NEW MEXICO
- MARYLAND
- GEORGIA
- TEXAS
- TENNESSEE
- COLORADO

verizon

PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE
811 Know what's below. Call before you dig.
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE: AS SHOWN
JOB NUMBER: 20777640A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
0	5/21/2021	ISSUED FOR CONSTRUCTION	MSG	DRH

STATE OF CONNECTICUT
DEREK R. HARTZELL
32710
LICENSED PROFESSIONAL ENGINEER
Derek R. Hartzell
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: 32710
MASER CONSULTING
C.T. C.O.A #: [illegible]00131
Digitally signed by Derek R. Hartzell
Date: 2021.05.21 15:41:28-04'00'

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

SITE NAME:
CLINTON S CT
469265
46 MEADOW RD.
CLINTON, CT 06413
MIDDLESEX COUNTY

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

SHEET TITLE: TITLE SHEET

SHEET NUMBER: T-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

05/21/2021

BILL OF MATERIALS

VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
6	VZWSMART	VZWSMART-SFK3	V-BRACING KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2
30		VZWSMART-MSK1	CROSSOVER PLATE	

OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
6	-	-	150" LONG, P2.5 STD PIPE	GALVANIZED

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

VZWSMART KITS - APPROVED VENDORS

COMMSCOPE

CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM

METROSITE FABRICATORS, LLC

CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM

PERFECTVISION

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

SABRE INDUSTRIES, INC.

CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM

SITE PRO 1

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

NOTE: WHEN SPECIFIED, VZWSMART KITS SHALL BE REQUIRED AND WILL BE VERIFIED DURING THE DESKTOP PMI

MASER CONSULTING CONNECTICUT
WILL BE KNOWN AS COLLIERS ENGINEERING & DESIGN IN 2021
Customer Loyalty *through* Client Satisfaction
www.maserconsulting.com
Office Locations:
- NEW JERSEY
- NEW YORK
- PENNSYLVANIA
- VIRGINIA
- FLORIDA
- NORTH CAROLINA
- SOUTH CAROLINA
- NEW MEXICO
- MARYLAND
- GEORGIA
- TEXAS
- TENNESSEE
- COLORADO

verizon

811 Know what's below. Call before you dig.

PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTHS SURFACE ANYWHERE IN ANY STATE

FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE : AS SHOWN

JOB NUMBER : 20777640A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	5/21/2021	ISSUED FOR CONSTRUCTION	MSG	DRH

STATE OF CONNECTICUT · DEREK R. HARTZELL · 32710 · LICENSED PROFESSIONAL ENGINEER

Derek R. Hartzell
CONNECTICUT LICENSED PROFESSIONAL ENGINEER
LICENSE NO. 32710
MASER CONSULTING
CT. C.O.A. # PEC.0030131

Digitally signed by Derek R. Hartzell
Date: 2021.05.21 15:41:39-04'00'

SITE NAME:

CLINTON S CT
469265

46 MEADOW RD.
CLINTON, CT 06413
MIDDLESEX COUNTY

MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054

Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE : BILL OF MATERIALS

SHEET NUMBER : S-1

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 SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
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 ANSI/TIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
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 OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
9. ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSI/TIA-322.
10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
11. CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
12. DO NOT SCALE DRAWINGS.
13. DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
14. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
15. THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

DESIGN LOADS

WIND LOADS

a. BASIC WIND SPEED (3 SECOND GUST), V = 124 MPH

b. EXPOSURE CATEGORY D

c. TOPOGRAPHIC CATEGORY 1

d. MEAN BASE ELEVATION (AMSL) = 8.98'

ICE LOADS

a. ICE WIND SPEED (3 SECOND GUST), V = 50 MPH

b. ICE THICKNESS = 1.00 IN

SEISMIC LOADS

a. SEISMIC DESIGN CATEGORY B

b. SHORT TERM MCER GROUND MOTION, S_S = .203

c. LONG TERM MCER GROUND MOTION, S_1 = .053

STRUCTURAL STEEL

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

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

3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
   a. SUBMIT SHOP DRAWINGS TO GREG.DULNIK@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 BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
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 NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
11. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
12. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
13. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING 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.

MASER CONSULTING
—CONNECTICUT—
WILL BE KNOWN AS COLLIERS ENGINEERING & DESIGN IN 2021
Customer Loyalty *through* Client Satisfaction
www.maserconsulting.com
Office Locations:

- NEW JERSEY
- NEW YORK
- PENNSYLVANIA
- VIRGINIA
- FLORIDA
- NORTH CAROLINA
- SOUTH CAROLINA
- NEW MEXICO
- MARYLAND
- GEORGIA
- TEXAS
- TENNESSEE
- COLORADO

verizon

PROTECT YOURSELF

ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE

811 Know what's below. Call before you dig.

FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE :	JOB NUMBER :
AS SHOWN	20777640A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
0	5/21/2021	ISSUED FOR CONSTRUCTION	MSG	DRH

STATE OF CONNECTICUT
DEREK R. HARTZELL
32710
LICENSED PROFESSIONAL ENGINEER

Derek R. Hartzell
MASER CONSULTING
C.T. C.O.A #: ...00131

Digitally signed by Derek R. Hartzell
Date: 2021.05.21 15:41:39-04'00'

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

SITE NAME:

CLINTON S CT
469265

46 MEADOW RD.
CLINTON, CT 06413
MIDDLESEX COUNTY

MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054

Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE :
MODIFICATION NOTES

SHEET NUMBER :
S-2

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

05/21/2021

MODIFICATION INSPECTION NOTES

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

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

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

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

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

MI INSPECTOR

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

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

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

GENERAL CONTRACTOR

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

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

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

RECOMMENDATIONS

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

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

CORRECTION OF FAILING MI'S

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

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

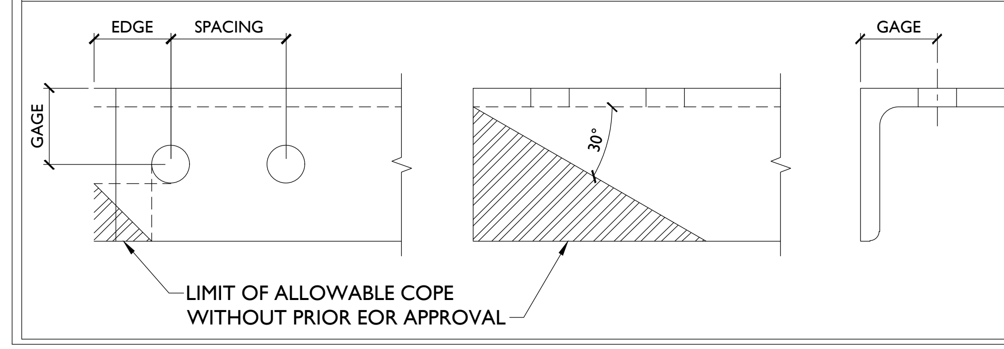
REQUIRED PHOTOS

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

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

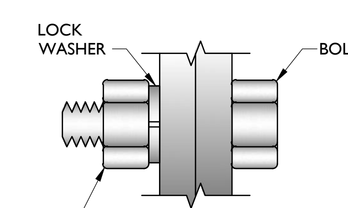
PHOTOS OF ELEVATED MODIFICATIONS TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.

ALLOWABLE COPING



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

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



TYP. BOLT ASSEMBLY

NOTES:

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

MASER CONSULTING
—CONNECTICUT—
WILL BE KNOWN AS COLLIERS ENGINEERING & DESIGN IN 2021
Customer Loyalty *through* Client Satisfaction
www.maserconsulting.com
Office Locations:
- NEW JERSEY
- NEW YORK
- PENNSYLVANIA
- VIRGINIA
- FLORIDA
- NORTH CAROLINA
- SOUTH CAROLINA
- NEW MEXICO
- MARYLAND
- GEORGIA
- TEXAS
- TENNESSEE
- COLORADO

verizon✓

PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE
811. Know what's below. Call before you dig.
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE :	JOB NUMBER :
AS SHOWN	20777640A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
0	5/21/2021	ISSUED FOR CONSTRUCTION	MSG	DRH

STATE OF CONNECTICUT
DEREK R. HARTZELL
32710
LICENSED PROFESSIONAL ENGINEER
Derek R. Hartzell
CONNECTICUT PROFESSIONAL ENGINEER
MASER CONSULTING
Digitally signed by Derek R. Hartzell
Date: 2021.05.21 15:41:40-04'00'

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

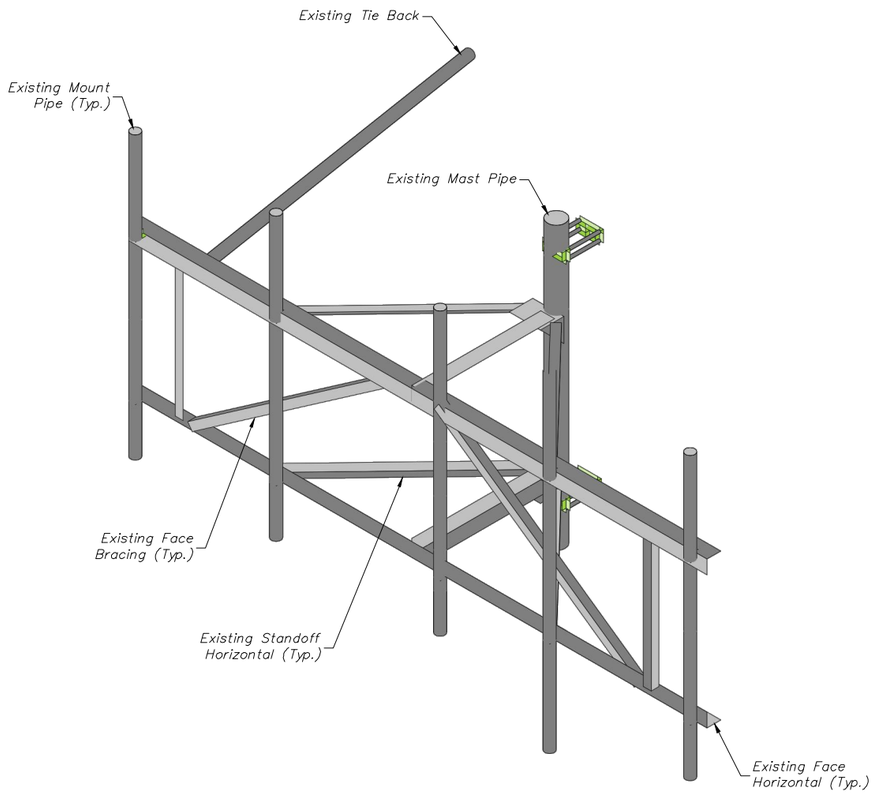
SITE NAME:
CLINTON S CT
469265
46 MEADOW RD.
CLINTON, CT 06413
MIDDLESEX COUNTY

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

SHEET TITLE :
MODIFICATION NOTES

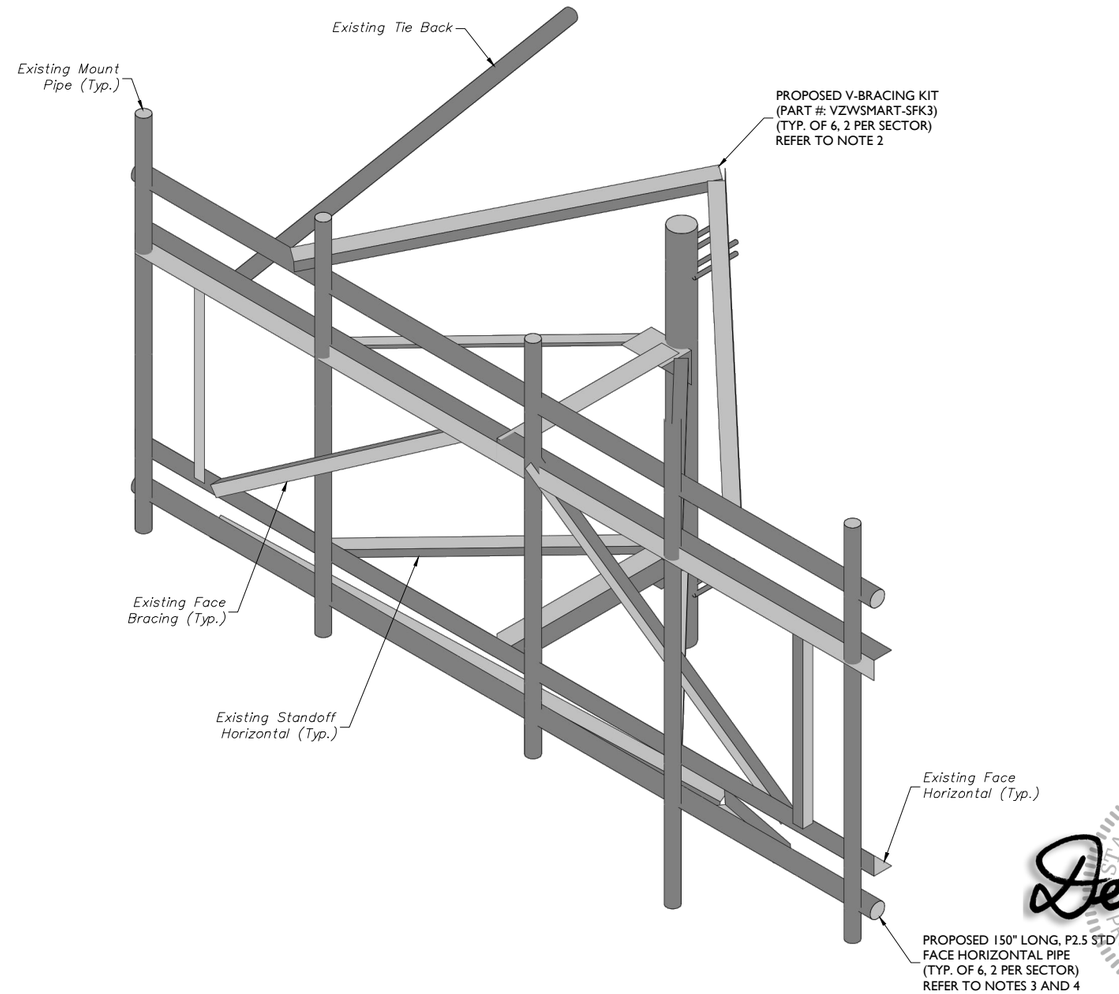
SHEET NUMBER :
S-3

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



1 EXISTING SECTOR FRAME ISOMETRIC VIEW (TYP. ALL SECTORS)

SCALE : N.T.S.



2 PROPOSED SECTOR FRAME ISOMETRIC VIEW (TYP. ALL SECTORS)

SCALE : N.T.S.

STRUCTURAL NOTES:

1. PER THE MOUNT MAPPING COMPLETED BY HUDSON DESIGN GROUP, LLC ON 2/9/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (162'-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.

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 TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
4. CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).

MASER CONSULTING CONNECTICUT
WILL BE KNOWN AS COLLIERS ENGINEERING & DESIGN IN 2021
Customer Loyalty *through* Client Satisfaction
www.maserconsulting.com
Office Locations:
- NEW JERSEY
- NEW YORK
- PENNSYLVANIA
- VIRGINIA
- FLORIDA
- NORTH CAROLINA
- SOUTH CAROLINA
- NEW MEXICO
- MARYLAND
- GEORGIA
- TEXAS
- TENNESSEE
- COLORADO

verizon

811 PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE
Know what's below. Call before you dig.
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE : AS SHOWN
JOB NUMBER : 20777640A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	5/21/2021	ISSUED FOR CONSTRUCTION	MSG	DRH

STATE OF CONNECTICUT — DEREK R. HARTZELL — 32710 — LICENSED PROFESSIONAL ENGINEER
Derek R. Hartzell
CONNECTICUT LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER 32710
MASER CONSULTING
CT. C.O.A. #PEC.0000131
Digitally signed by Derek R. Hartzell
Date: 2021.05.21 15:41:40-04'00'

SITE NAME:

CLINTON S CT
469265

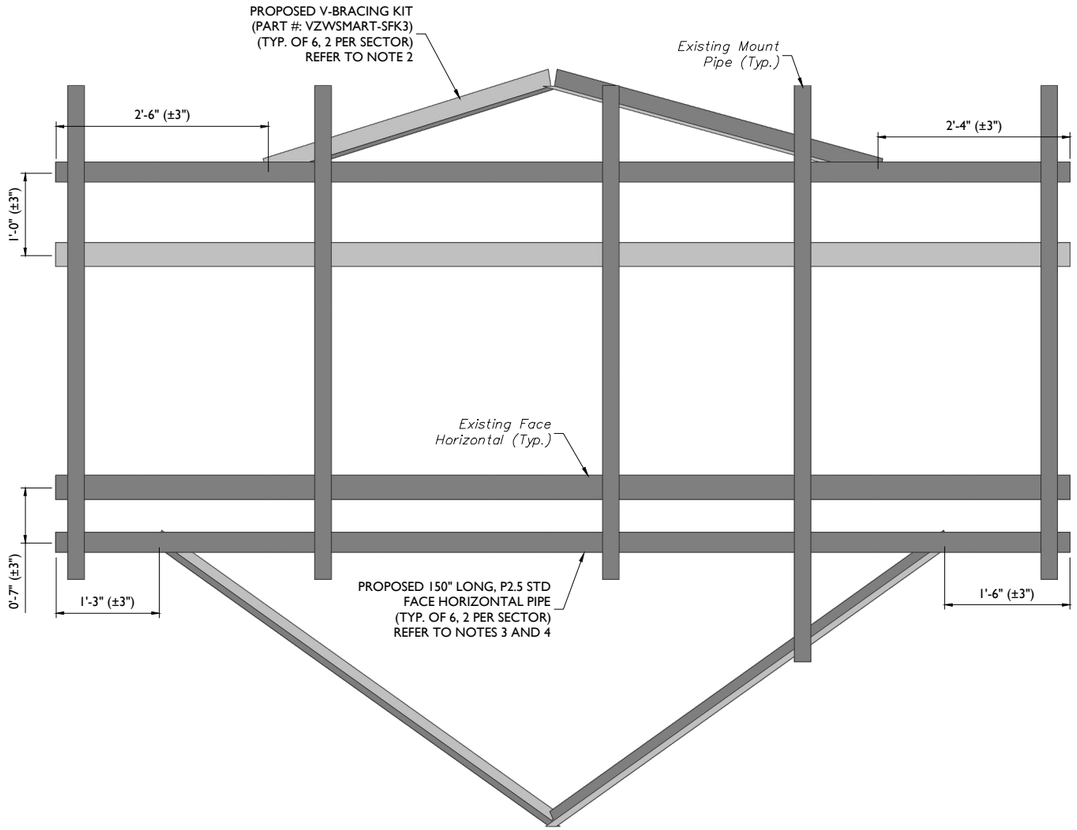
46 MEADOW RD.
CLINTON, CT 06413
MIDDLESEX COUNTY

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

SHEET TITLE :
MODIFICATION DETAILS

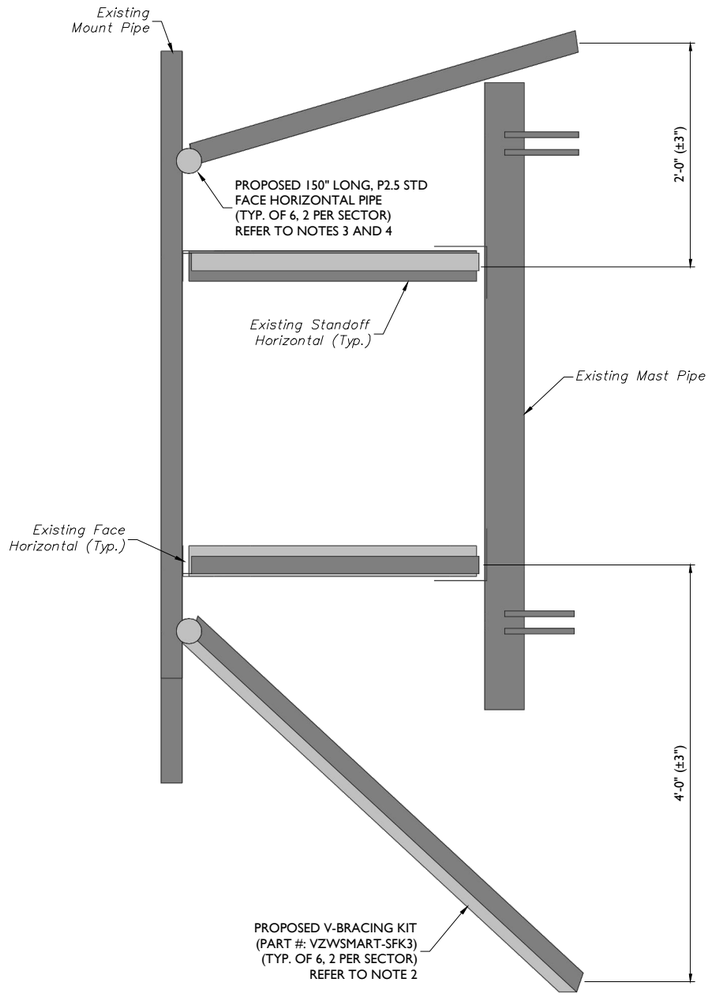
SHEET NUMBER :
S-4

05/21/2021



1 PROPOSED FRONT ELEVATION (TYP. ALL SECTORS)

SCALE : N.T.S.



2 PROPOSED SIDE ELEVATION (TYP. ALL SECTORS)

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 TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
4. CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).

MASER CONSULTING CONNECTICUT
WILL BE KNOWN AS COLLIERS ENGINEERING & DESIGN IN 2021
Customer Loyalty *through* Client Satisfaction
www.maserconsulting.com
Office Locations:
- NEW JERSEY
- NEW YORK
- PENNSYLVANIA
- VIRGINIA
- FLORIDA
- NORTH CAROLINA
- SOUTH CAROLINA
- NEW MEXICO
- MARYLAND
- GEORGIA
- TEXAS
- TENNESSEE
- COLORADO

verizon

811 PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE
Know what's below. Call before you dig.
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE :	JOB NUMBER :
AS SHOWN	20777640A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	5/21/2021	ISSUED FOR CONSTRUCTION	MSG	DRH

Derek R. Hartzell
CONNECTICUT LICENSED PROFESSIONAL ENGINEER
LICENSE NO. 32710
MASER CONSULTING
CT. C.O.A. # PEC.0000131
Digitally signed by Derek R. Hartzell
Date: 2021.05.21 15:41:40-04'00'

SITE NAME:

CLINTON S CT
469265

46 MEADOW RD.
CLINTON, CT 06413
MIDDLESEX COUNTY

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

SHEET TITLE :
MODIFICATION DETAILS

SHEET NUMBER :
S-5

MOUNT PHOTO 1

MOUNT PHOTO 2

MOUNT PHOTO 3

MOUNT PHOTO 4

MASER CONSULTING
CONNECTICUT
WILL BE KNOWN AS COLLIERS ENGINEERING & DESIGN IN 2021
Customer Loyalty *through* Client Satisfaction
www.maserconsulting.com
Office Locations:
- NEW JERSEY
- NEW YORK
- PENNSYLVANIA
- VIRGINIA
- FLORIDA
- NORTH CAROLINA
- SOUTH CAROLINA
- NEW MEXICO
- MARYLAND
- GEORGIA
- TEXAS
- TENNESSEE
- COLORADO

verizon

811 Know what's below. Call before you dig.

PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE

FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE : AS SHOWN

JOB NUMBER : 20777640A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	5/21/2021	ISSUED FOR CONSTRUCTION	MSG	DRH

STATE OF CONNECTICUT · DEREK R. HARTZELL · 32710 · LICENSED PROFESSIONAL ENGINEER

Derek R. Hartzell
CONNECTICUT LICENSED PROFESSIONAL ENGINEER
LICENSE NO. 32710
MASER CONSULTING
CT. C.O.A. # PEC.0000131

Digitally signed by Derek R. Hartzell
Date: 2021.05.21 15:41:41-04'00'

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

SITE NAME:

CLINTON S CT
469265

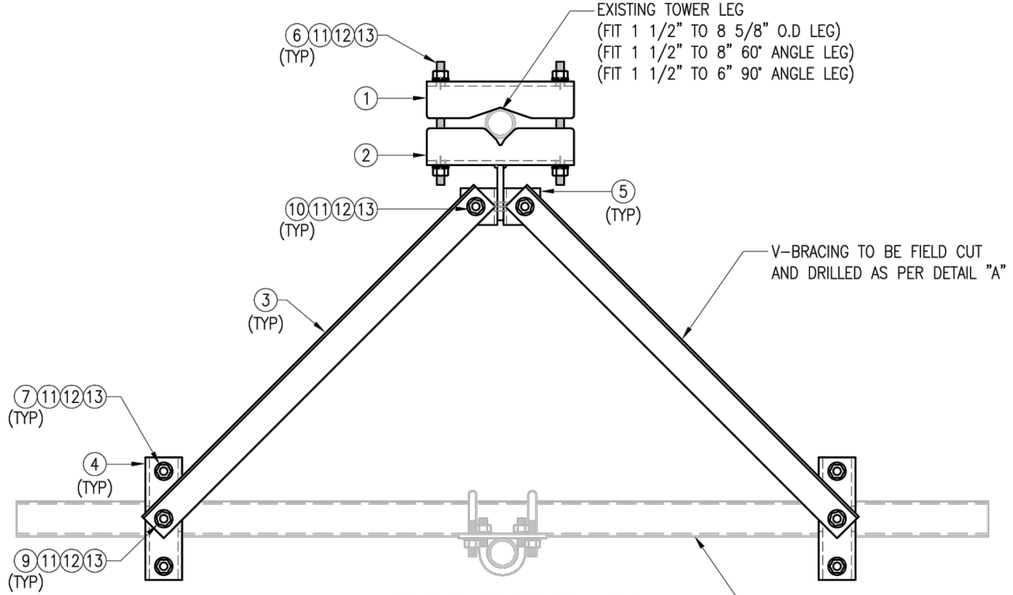
46 MEADOW RD.
CLINTON, CT 06413
MIDDLESEX COUNTY

MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054

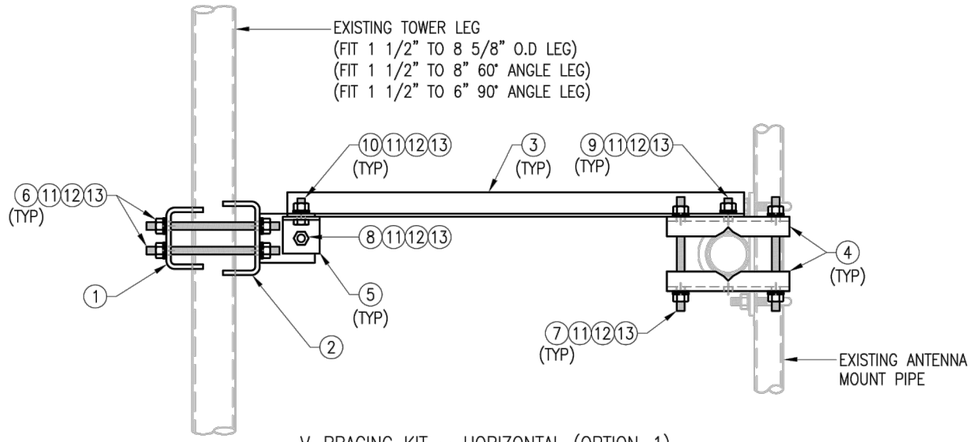
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE : MOUNT PHOTOS

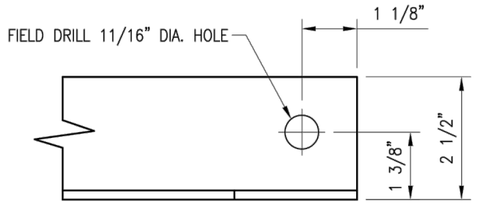
SHEET NUMBER : S-6



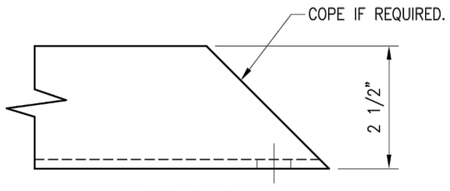
V-BRACING FOR SECTOR MOUNT
PLAN VIEW



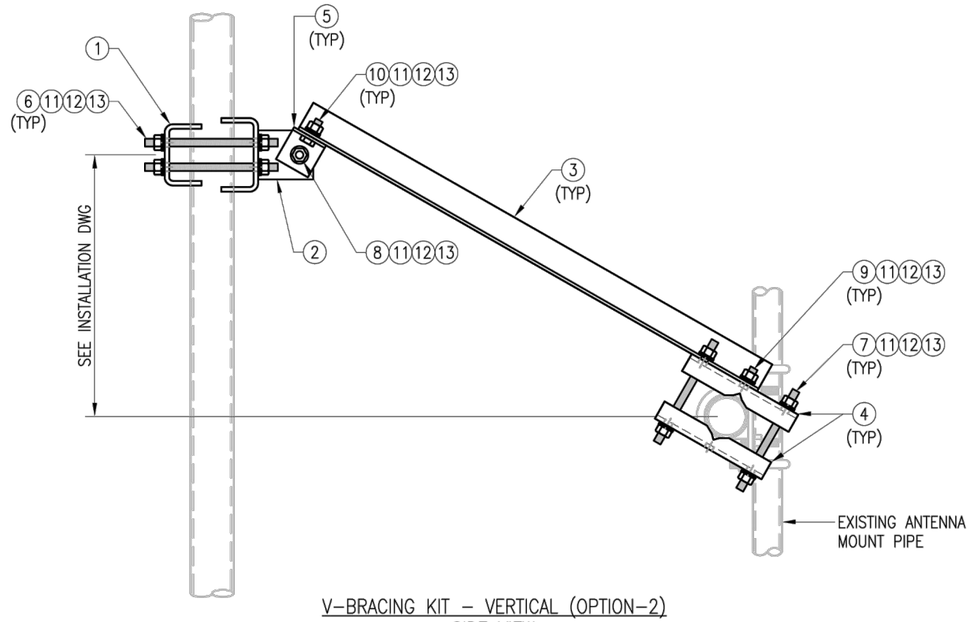
V-BRACING KIT – HORIZONTAL (OPTION-1)
SIDE VIEW



PLAN VIEW



FRONT VIEW
DETAIL "A"



V-BRACING KIT – VERTICAL (OPTION-2)
SIDE VIEW

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

VZWSMART-SFK3 (V-BRACING KIT)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	BP9625-12	PL 3/8" X 9 5/8" X 1'-0" A36 BENT PLATE	VBSM-F1	12
2	1	BRKW-VBSM	WELDMENT BRACKET	VBSM-F3	16
3	2	L252525-8	L 2 1/2" X 2 1/2" X 1/4" X 8'-0" A36	VBSM-F5	67
4	4	BP6875-10	PL 3/8" X 6 7/8" X 10" A36 BENT PLATE	VBSM-F2	20
5	2	AL-333	L 3" X 3" X 1/4" X 3" A36	VBSM-F2	3
6	4	---	THREADED ROD 5/8" DIA. X 1'-6" F1554-36 HDG	---	--
7	4	---	THREADED ROD 5/8" DIA. X 10" F1554-36 HDG	---	--
8	1	---	BOLT 5/8" X 2 1/4" A325	---	--
9	2	---	BOLT 5/8" X 2" A325	---	--
10	2	---	BOLT 5/8" X 1 3/4" A325	---	--
11	21	FW-625	5/8" HDG USS FLAT WASHER	---	2
12	21	LW-625	5/8" HDG LOCK WASHER	---	0
13	21	NUT-625	5/8" HDG HEX NUT	---	2
				GALVANIZED WT	122

VzW
SMART Tool©
Vendor

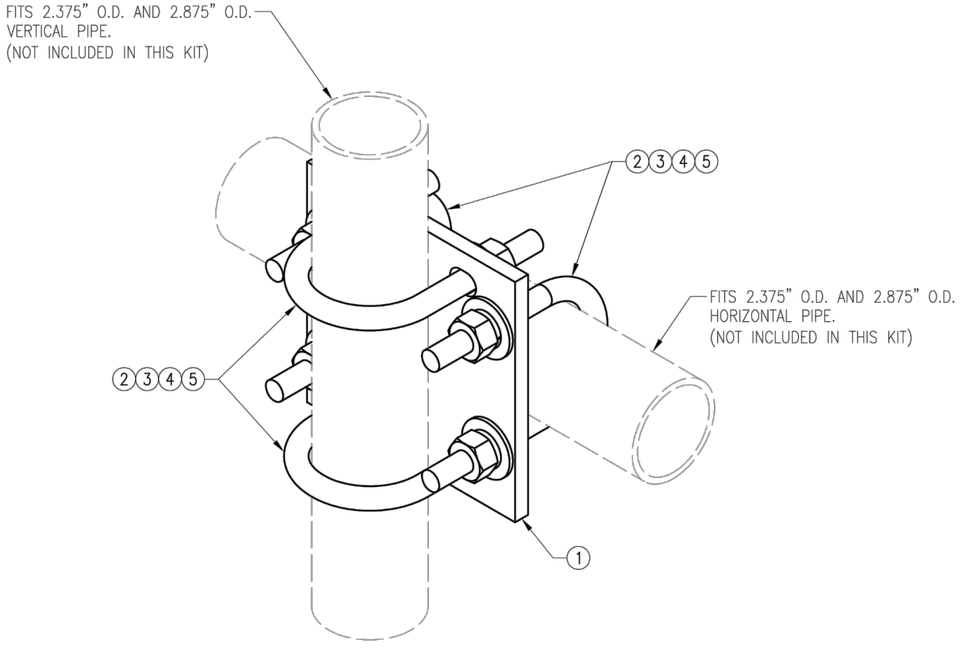
verizon

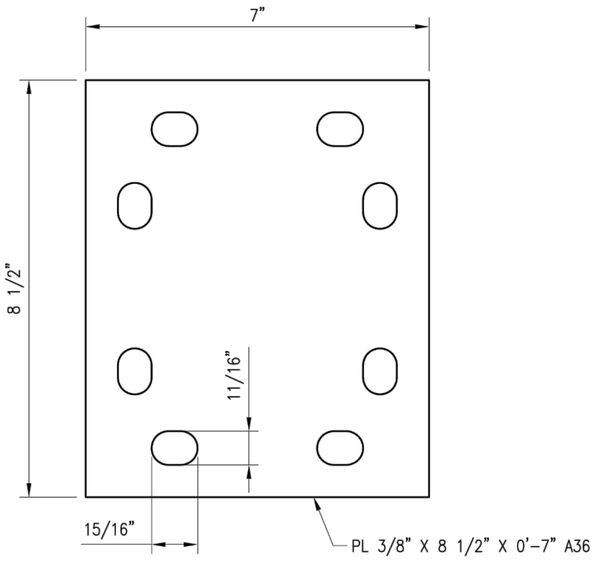
DRAWN BY: H.R. | CHECKED BY: HMA

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

SHEET TITLE:
VZWSMART-SFK3
V-BRACING KIT

SHEET NUMBER: VZWSMART-SFK3
REV #: 0





PL375-857

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

VZWSMART-MSK1 (CROSSOVER PLATE)

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

VzW
SMART Tool©
Vendor

verizon

DRAWN BY: H.R | CHECKED BY: HMA

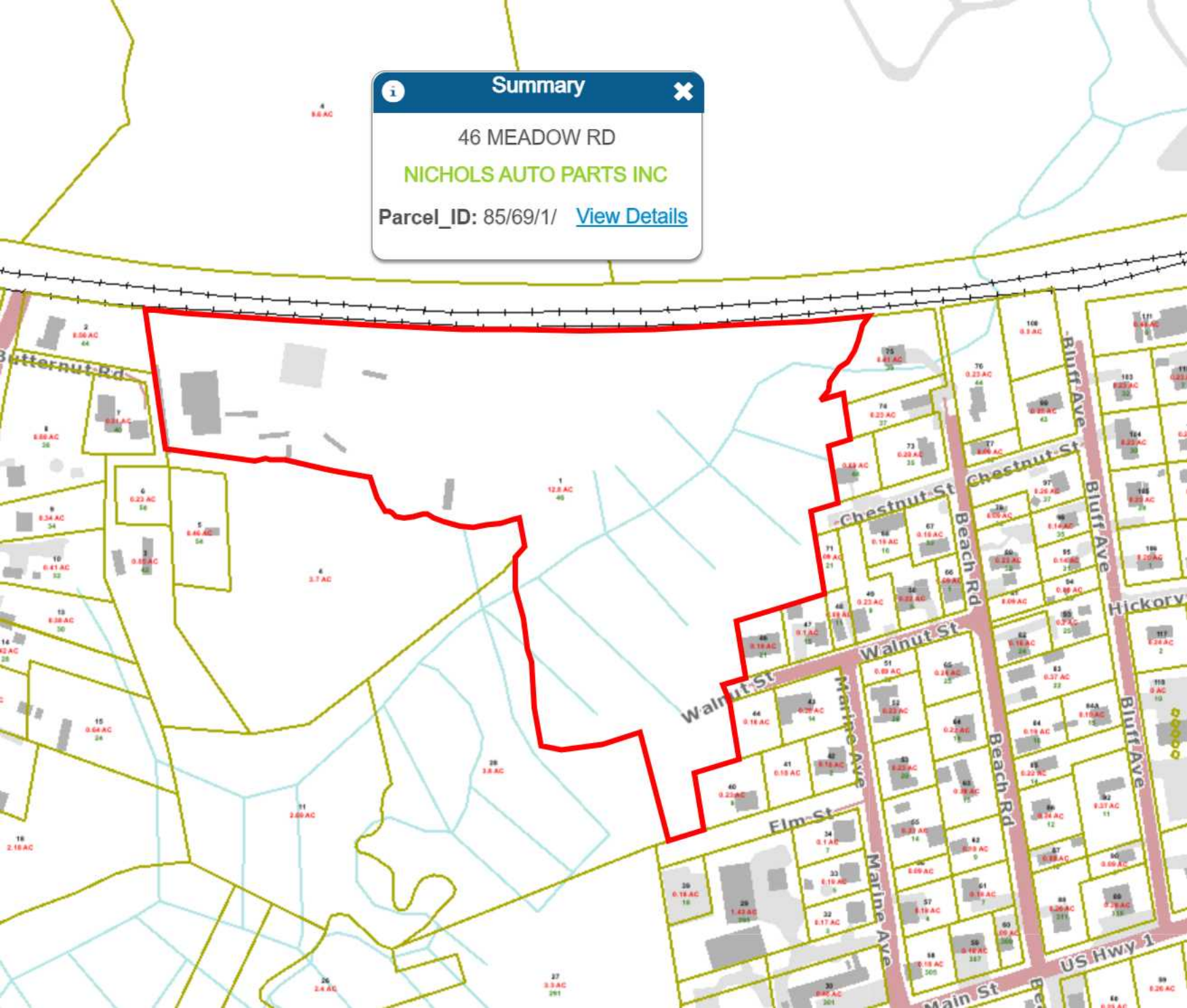
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	H.R	05/08/20

SHEET TITLE:
VZWSMART-MSK1
CROSSOVER PLATE

SHEET NUMBER: VZWSMART-MSK1

REV #: 0

ATTACHMENT 5


Summary
46 MEADOW RD
NICHOLS AUTO PARTS INC
Parcel_ID: 85/69/1/ View Details
Butternut Rd
Chestnut St
Chestnut St
Beach Rd
Bluff Ave
Bluff Ave
Hickory
Walnut St
Walnut St
Marine Ave
Beach Rd
Bluff Ave
Elm St
Marine Ave
US Hwy 1
Main St

46 MEADOW RD

Sales Print Map It

Location	46 MEADOW RD	**Mblu**	85/ 69/ 1/ /
Acct#	C0092100	**Owner**	NICHOLS AUTO PARTS INC
Assessment	$886,100	**Appraisal**	$1,265,800
PID	6361	**Building Count**	1

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2020	$756,800	$509,000	$1,265,800

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2020	$529,800	$356,300	$886,100

Owner of Record

Owner	NICHOLS AUTO PARTS INC	**Sale Price**	$0
Co-Owner		**Certificate**	
Address	46 MEADOW RD CLINTON, CT 06413	**Book & Page**	0452/0683
		Sale Date	06/21/2011

Ownership History

ATTACHMENT 6

UNITED STATES POSTAL SERVICE®

CLINTON SOUTH

Certificate of Mailing — Firm

Name and Address of Sender	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here *Postmark with Date of Receipt.*
Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	3	3	neopost 02/10/2022 US POSTAGE $002.99⁰ ZIP 06103 041L12203937
	Postmaster, per *(name of receiving employee)*		

USPS® Tracking Number / Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Karl Kilduff, Town Manager Town of Clinton 54 East Main Street Clinton, CT 06413				
2.	Kathleen King, Zoning Enforcement Officer Town of Clinton 54 East Main Street Clinton, CT 06413				
3.	Nichols Auto Parts Inc. 46 Meadow Road Clinton, CT 06413				
4.					
5.					
6.					

OLD STATE HOUSE STATION 06103 FEB 10 2022 USPS