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

June 18, 2021

Via Electronic Mail

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

Re: **Notice of Exempt Modification – Facility Modification**
58 Montano Road, Glastonbury, Connecticut

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains an existing wireless telecommunications facility at the above-referenced property address (the "Property"). The facility consists of antennas and remote radio heads attached to a tower and related equipment on the ground, near the base of the tower. The tower was approved by the Council in September 2008 (Docket No. 359). Cellco's shared use of the tower was approved by the Council in August of 2015 (PE1133-VER-20150706). A copy of the Council's Docket No. 359 Decision and Order and sub-petition approval are included in Attachment 1.

Cellco now intends to modify its facility by replacing nine (9) existing antennas with three (3) Samsung MT6407-77A antennas and six (6) NHH-65B-R2B antennas and replacing nine (9) remote radio heads ("RRHs") with six (6) new RRHs on Cellco's existing antenna platform. A set of project plans showing Cellco's proposed facility modifications and new antennas and RRHs specifications are included in Attachment 2.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Glastonbury's Town Manager 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 replacement antennas and RRHs will be installed on Cellco's existing antenna mounting structure.

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

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

4. The installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for the modified facility is included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation and antenna mounting structure, with certain modifications, can support Cellco's proposed facility modifications. Copies of the SA and MA are included in Attachment 4. Also included in Attachment 4 is a separate letter prepared by the consulting engineer responsible for the preparation of the SA and MA, verifying that the antenna model described in the SA and MA, respectively, as a nL-Sub6 Antenna or L-Sub6 Antenna, is the Samsung 64T64R model antenna.

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:
Richard J. Johnson, Glastonbury Town Manager
Rebecca Augur, Director of Planning and Land Use Services
Rose Marie Shaw, Property Owner
Aleksey Tyurin

ATTACHMENT 1

DOCKET NO. 359 - Optasite Towers LLC and Omnipoint Communications, Inc. application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located at 58 Montano Road or 618 Neipsic Road, Glastonbury, Connecticut.	}	Connecticut
	}	Siting
	}	Council

September 11, 2008

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate, either alone or cumulatively with other effects, when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application, and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Optasite Towers LLC, hereinafter referred to as the Certificate Holder, for a telecommunications facility at 58 Montano Road (Site A), Glastonbury, Connecticut. The Council denies certification of the proposed Site B at 618 Neipsic Road, Glastonbury, Connecticut.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of Omnipoint Communications, Inc. and other entities, both public and private, but such tower shall not exceed a height of 120 feet above ground level. The tower shall be designed and constructed to include a yield point at the height of 82 feet above ground level.

2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on the Town of Glastonbury for comment, and all parties and intervenors as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction and shall include:

    a) a final site plan(s) of site development to include specifications for the tower, tower foundation, antennas, equipment compound, radio equipment, access road, utility line, and landscaping; and

    b) construction plans for site clearing, grading, landscaping, water drainage, and erosion and sedimentation controls consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

3. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case modeling of the electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of the electromagnetic radio frequency power density be submitted to the Council if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.

4. Upon the establishment of any new state or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.

5. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.

6. The Certificate Holder shall provide reasonable space on the tower for no compensation for any Town of Glastonbury public safety services (police, fire and medical services), provided such use can be accommodated and is compatible with the structural integrity of the tower.

7. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed and providing wireless services within eighteen months from the date of the mailing of the Council's Findings of Fact, Opinion, and Decision and Order (collectively called "Final Decision"), this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's Final Decision shall not be counted in calculating this deadline.

8. Any request for extension of the time period referred to in Condition 7 shall be filed with the Council not later than 60 days prior to the expiration date of this Certificate and shall be served on all parties and intervenors, as listed in the service list, and the Town of Glastonbury. Any proposed modifications to this Decision and Order shall likewise be so served.

9. If the facility ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.

10. The Certificate Holder shall remove any nonfunctioning antenna, and associated antenna mounting equipment, within 60 days of the date the antenna ceased to function.

11. In accordance with Section 16-50j-77 of the Regulations of Connecticut State Agencies, the Certificate Holder shall provide the Council with written notice two weeks prior to the commencement of site construction activities. In addition, the Certificate Holder shall provide the Council with written notice of the completion of site construction and the commencement of site operation.

Pursuant to General Statutes § 16-50p, the Council hereby directs that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in the Hartford Courant and the Manchester Journal-Inquirer.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of Connecticut State Agencies.

The parties and intervenors to this proceeding are:

APPLICANT	**ITS REPRESENTATIVE**
Optasite Towers LLC One Research Drive, Suite 200C Westborough, MA 01581	Carrie L. Larson, Esq. Pullman and Comley, LLC 90 State House Square Hartford, CT 06103
Omnipoint Communications, Inc. 35 Griffin Road South Bloomfield, CT 06002-1351	Julie Kohler, Esq. Cohen and Wolf, P.C. 1115 Broad Street Bridgeport, CT 06604

PARTY	**ITS REPRESENTATIVE**
Town of Glastonbury P.O. Box 6523 Glastonbury, CT 06033	Richard J. Johnson Town Manager Town of Glastonbury P.O. Box 6523 Glastonbury, CT 06033

PARTY	**ITS REPRESENTATIVE**
Imtiaz N. Wahla 461 Wickham Road Glastonbury, CT 06033	Sarosh N. Wahla, Esq. Wahla & Associates, P.C. 429 Capitol Avenue Hartford, CT 06106

INTERVENOR	**ITS REPRESENTATIVE**
Karl Wagener 588 Neipsic Road Glastonbury, CT 06033	Eric Knapp Branse, Willis & Knapp, LLC 148 Eastern Boulevard, Suite 301 Glastonbury, CT 06033-6523

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@ct.gov
www.ct.gov/csc

August 17, 2015

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

RE: **PE1133-VER-20150706** – Cellco Partnership d/b/a Verizon Wireless sub-petition for a declaratory ruling for approval of an eligible facility request for modifications to an existing telecommunications facility located at 58 Montano Road, Glastonbury, Connecticut.

Dear Attorney Baldwin:

The Connecticut Siting Council (Council) hereby approves your Eligible Facilities Request (EFR) to install antennas and associated equipment at the above-referenced facility pursuant to the Federal Communications Commission Wireless Infrastructure Report and Order, with the following conditions:

- Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by the Petitioner shall be removed within 60 days of the date the antenna ceased to function;
- The validity of this action shall expire one year from the date of this letter; and
- The petitioner may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

This decision is under the exclusive jurisdiction of the Council and is not applicable to any other modification or construction. All work is to be implemented as specified in the EFR received on July 6, 2015.

Thank you for your attention and cooperation.

Very truly yours,

Melanie Bachman
Acting Executive Director

MB/MP

c: Honorable Stewart Beckett III, Chairman Town Council, Town of Glastonbury
Richard Johnson, Town Manager, Town of Glastonbury
Khara Dodds, Director of Planning and Land Use Services, Town of Glastonbury

ATTACHMENT 2

verizon

WIRELESS COMMUNICATIONS FACILITY UPGRADE

GLASTONBURY NEIPSIC CT
58A MONTANO ROAD
GLASTONBURY, CT 06033

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2018 CONNECTICUT SUPPLEMENT, INCLUDING THE TIA/EIA–222 REVISION "G" STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND SUPPORTING STRUCTURES, 2017 CONNECTICUT FIRE SAFETY CODE, NATIONAL ELECTRICAL CODE, AND LOCAL CODES.
2. SHOULD ANY FIELD CONDITIONS PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY AFFECTED WORK.
3. CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUBCONTRACTORS AND ALL RELATED PARTIES. THE SUBCONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
4. CONTRACTOR SHALL PROVIDE A COMPLETE BUILD–OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS AND PROVIDE ALL ITEMS AS SHOWN OR INDICATED ON THE DRAWINGS OR IN THE WRITTEN SPECIFICATIONS.
5. CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB ALL IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
6. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND ALL INSPECTIONS REQUIRED AND SHALL ALSO PAY FEES REQUIRED FOR THE GENERAL CONSTRUCTION, AND ALL TRADES AS APPLICABLE PERMITS SHALL BE PAID FOR BY THE RESPECTIVE SUBCONTRACTORS.
7. CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS AND SPECIFICATIONS ON SITE AT ALL TIMES AND INSURE DISTRIBUTION OF NEW DRAWINGS TO SUBCONTRACTORS AND OTHER RELEVANT PARTIES AS SOON AS THEY ARE MADE AVAILABLE. ALL OLD DRAWINGS SHALL BE MARKED VOID AND REMOVED FROM THE CONTRACT AREA. THE CONTRACTOR SHALL FURNISH AN "AS–BUILT" SET OF DRAWINGS TO OWNER UPON COMPLETION OF PROJECT.
8. LOCATION OF EQUIPMENT, AND WORK SUPPLIED BY OTHERS THAT IS DIAGRAMMATICALLY INDICATED ON THE DRAWINGS SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL DETERMINE LOCATIONS AND DIMENSIONS SUBJECT TO STRUCTURAL CONDITIONS AND WORK OF THE SUBCONTRACTORS.
9. THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURES AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY. MAINTAIN EXISTING BUILDING'S/PROPERTY'S OPERATIONS, COORDINATE WORK WITH BUILDING/PROPERTY OWNER.
10. DRAWINGS INDICATE THE MINIMUM STANDARDS, BUT IF ANY WORK SHOULD BE INDICATED TO BE SUBSTANDARD TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK, THE CONTRACTOR SHALL INCLUDE IN HIS WORK AND SHALL EXECUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES, RULES OR REGULATIONS WITH NO INCREASE IN COSTS.
11. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
12. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUBCONTRACTORS FOR ANY CONDITION PER MFR.'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
13. ANY AND ALL ERRORS, DISCREPANCIES, AND "MISSED" ITEMS ARE TO BE BROUGHT TO THE ATTENTION OF THE VERIZON WIRELESS CONSTRUCTION MANAGER DURING THE BIDDING PROCESS BY THE CONTRACTOR. ALL THESE ITEMS ARE TO BE INCLUDED IN THE BID. NO 'EXTRA' WILL BE ALLOWED FOR MISSED ITEMS.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON–SITE SAFETY FROM THE TIME THE JOB IS AWARDED UNTIL ALL WORK IS COMPLETE AND ACCEPTED BY THE OWNER.
15. CONTRACTOR TO REVIEW ALL SHOP DRAWINGS AND SUBMIT COPY TO ENGINEER FOR APPROVAL. DRAWINGS MUST BEAR THE CHECKER'S INITIALS BEFORE SUBMITTING TO THE CONSTRUCTION MANAGER FOR REVIEW.
16. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES, AND EXISTING CONDITIONS AT THE SITE, PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA.
17. COORDINATION, LAYOUT, FURNISHING AND INSTALLATION OF CONDUIT AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
18. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUB– CONTRACTORS FOR ANY CONDITION PER THE MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
19. ALL DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE HELD LIABLE FOR ALL REPAIRS REQUIRED FOR EXISTING STRUCTURES IF DAMAGED DURING CONSTRUCTION ACTIVITIES.
20. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT LEAST 48 HOURS PRIOR TO ANY EXCAVATIONS AT 1–800–922–4455. ALL UTILITIES SHALL BE IDENTIFIED AND CLEARLY MARKED PRIOR TO ANY EXCAVATION WORK. CONTRACTOR SHALL MAINTAIN AND PROTECT MARKED UTILITIES THROUGHOUT PROJECT COMPLETION.

SITE DIRECTIONS

FROM: 20 ALEXANDER DRIVE
WALLINGFORD, CONNECTICUT

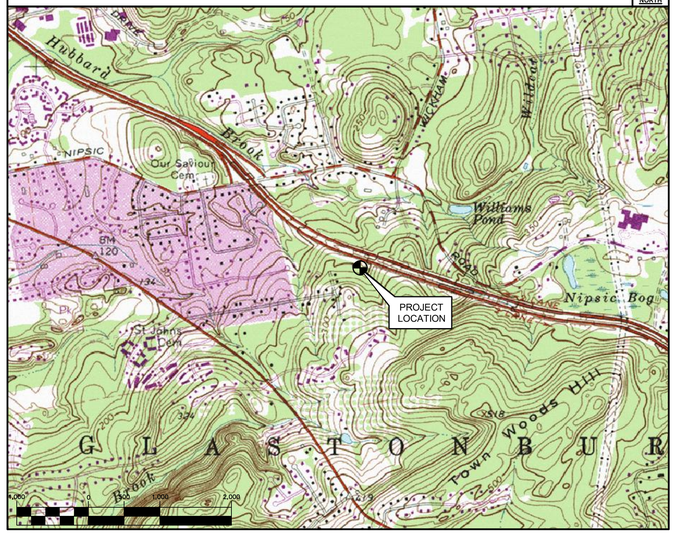
TO: 58A MONTANO ROAD
GLASTONBURY, CT 06033

1.	START OUT GOING NORTH ON ALEXANDER DR TOWARD BARNES INDUSTRIAL RD.	0.18 MI
2.	TURN RIGHT ONTO BARNES INDUSTRIAL RD.	0.11 MI
3.	TAKE FIRST LEFT ONTO CT–68	0.35 MI
4.	TURN RIGHT ONTO RAMP	0.17 MI
5.	TURN RIGHT ONTO N COLONY RD/ US–5 N	0.30 MI
6.	MERGE ONTO CT–15 N TOWARD HARTFORD	3.58 MI
7.	MERGE ONTO I–91 N VIA EXIT 68N–E TOWARD MIDDLETOWN/HARTFORD/CT–66 E.	13.95 MI
8.	MERGE ONTO CT–3 N VIA EXIT 25 TOWARD GLASTONBURY.	2.35 MI
9.	MERGE ONTO CT–2 E TOWARD NORWICH.	0.71 MI
10.	MERGE ONTO CT–17 S VIA EXIT 7 ON THE LEFT TOWARD PORTLAND.	0.77 MI
11.	TAKE THE NEW LONDON TPKE RAMP TOWARD E GLASTONBURY.	0.46 MI
12.	TURN LEFT ONTO WILLIAMS ST.	0.01 MI
13.	TAKE THE 1ST RIGHT ONTO NEW LONDON TURNPIKE.	1.25 MI
14.	TURN LEFT ONTO HALE RD.	0.47 MI
15.	TURN LEFT ONTO MONTANO RD.	0.05 MI
16.	58 MONTANO RD, #A, GLASTONBURY, CT 06033–3324, 58 MONTANO RD, #A IS ON THE RIGHT.	

VICINITY MAP

SCALE: 1" = 1000'

NORTH



PROJECT SUMMARY

1. THE PROPOSED UPGRADE SCOPE OF WORK AT THE EXISTING UNMANNED TELECOMMUNICATIONS FACILITY GENERALLY INCLUDES THE FOLLOWING:

A. AT THE EXISTING MONOPOLE MOUNTED ANTENNA SECTORS:

- REMOVE (3) EXISTING ANTENNAS PER SECTOR (TOTAL OF 9)
- REMOVE (2) EXISTING REMOTE RADIO HEADS PER SECTOR (TOTAL OF 6)
- REMOVE (2) OVP BOXES
- REMOVE (2) 6X12 HYBRID CALBES
- INSTALL (3) ANTENNAS PER SECTOR (TOTAL OF 9)
- INSTALL (2) REMOTE RADIO HEADS PER SECTOR (TOTAL OF 6)
- INSTALL (1) OVP BOX
- INSTALL (1) DUAL ANTENNA MOUNT PER SECTOR, TOTAL (3)
- INSTALL (1) HYBRID CABLE
- INSTALLATION OF A HAND RAIL KIT ONTO THE EXISTING ANTENNA MOUNTING PLATFORM AS PART OF A MOUNT MODIFICATION DESIGN BY OTHERS.

PROJECT INFORMATION

SITE NAME:	GLASTONBURY NEIPSIC CT
SITE ADDRESS:	58A MONTANO ROAD GLASTONBURY, CT 06033
LESSEE/TENANT:	CELLCO PARTNERSHIP d.b.a. VERIZON WIRELESS 20 ALEXANDER DRIVE WALLINGFORD, CT 06492
CONTACT PERSON:	WALTER CHARCZNSKI (CONSTRUCTION MANAGER) VERIZON WIRELESS (860) 306–1806
ENGINEER:	CENTEK ENGINEERING, INC. 63–2 NORTH BRANFORD RD. BRANFORD, CT. 06405 (203) 488–0580
PROJECT COORDINATES:	LATITUDE: 41°–41'–58.0"N LONGITUDE: 72°–33'–50.4"W GROUND ELEVATION: 260'± AMSL SITE COORDINATES AND GROUND ELEVATION REFERENCED FROM THE CONNECTICUT SITING COUNCIL DATABASE.

SHEET INDEX

SHT. NO.	DESCRIPTION	REV.
T–1	TITLE SHEET	0
N–1	NOTES AND SPECIFICATIONS	0
B–1	RF BILL OF MATERIALS	0
C–1	PARTIAL SITE PLAN AND ELEVATION	0
C–2	ANTENNA SECTOR CONFIGURATION DETAILS	0
C–3	RF DETAILS	0
E–1	ELECTRICAL DETAILS AND SPECIFICATIONS	0

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
A	02/03/21	ASC	DMD	PRELIMINARY CONSTRUCTION DRAWINGS – ISSUED FOR CLIENT REVIEW
B	02/22/21	DMD	TJL	PRELIMINARY CONSTRUCTION DRAWINGS – REVISED PER PASSING M.A.
0	05/26/21	DMD	TJL	CONSTRUCTION DRAWINGS – ISSUED FOR CONSTRUCTION

PROFESSIONAL ENGINEER SEAL

verizon

CENTEK engineering
Centered on Solutions℠
(203) 488-0580
(203) 488-8587 Fax
63-2 North Branford Road
Branford, CT 06405
www.CentekEng.com

Cellco Partnership d/b/a Verizon Wireless

GLASTONBURY
NEIPSIC CT
58A MONTANO ROAD
GLASTONBURY, CT 06033

DATE:	02/03/21
SCALE:	AS NOTED
JOB NO.	20150.15

TITLE SHEET

T–1

Sheet No. 1 of 7

NOTES AND Specifications

DESIGN BASIS:

GOVERNING CODE: 2015 INTERNATIONAL BUILDING (IBC) AS MODIFIED BY THE 2018 CT STATE BUILDING CODE AND AMENDMENTS.

1. DESIGN CRITERIA:

- RISK CATEGORY: II (BASED ON TABLE 1604.5 OF THE 2015 IBC)
- NOMINAL DESIGN SPEED (BUILDING): 97 MPH (Vult) (EXPOSURE B/IMPORTANCE FACTOR 1.0 BASED ON ASCE 7-10) PER 2015 INTERNATIONAL BUILDING CODE (IBC) AS MODIFIED BY THE 2018 CONNECTICUT STATE BUILDING CODE.
- SEISMIC LOAD (DOES NOT CONTROL): PER ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES.

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE GOVERNING BUILDING CODE.
2. DRAWINGS INDICATE THE MINIMUM STANDARDS, BUT IF ANY WORK SHOULD BE INDICATED TO BE SUBSTANDARD TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK, THE CONTRACTOR SHALL INCLUDE IN HIS WORK AND SHALL EXECUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES, RULES OR REGULATIONS WITH NO INCREASE IN COSTS.
3. BEFORE BEGINNING THE WORK, THE CONTRACTOR IS RESPONSIBLE FOR MAKING SUCH INVESTIGATIONS CONCERNING PHYSICAL CONDITIONS (SURFACE AND SUBSURFACE) AT OR CONTIGUOUS TO THE SITE WHICH MAY AFFECT PERFORMANCE AND COST OF THE WORK.
4. DIMENSIONS AND DETAILS SHALL BE CHECKED AGAINST EXISTING FIELD CONDITIONS.
5. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES AND ANCHOR BOLTS AS REQUIRED BY ALL TRADES.
6. ALL DIMENSIONS, ELEVATIONS, AND OTHER REFERENCES TO EXISTING STRUCTURES, SURFACE, AND SUBSURFACE CONDITIONS ARE APPROXIMATE. NO GUARANTEE IS MADE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS, ELEVATIONS, ANGLES WITH EXISTING CONDITIONS AND WITH ARCHITECTURAL AND SITE DRAWINGS BEFORE PROCEEDING WITH ANY WORK.
7. AS THE WORK PROGRESSES, THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CONDITIONS WHICH ARE IN CONFLICT OR OTHERWISE NOT CONSISTENT WITH THE CONSTRUCTION DOCUMENTS AND SHALL NOT PROCEED WITH SUCH WORK UNTIL THE CONFLICT IS SATISFACTORILY RESOLVED.
8. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING AND MAINTAINING ADEQUATE SHORING, BRACING, AND BARRICADES AS MAY BE REQUIRED FOR THE PROTECTION OF EXISTING PROPERTY, CONSTRUCTION WORKERS, AND FOR PUBLIC SAFETY.
9. THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURES AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY. MAINTAIN EXISTING SITE OPERATIONS, COORDINATE WORK WITH NORTHEAST UTILITIES
10. ALL DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE HELD LIABLE FOR ALL REPAIRS REQUIRED FOR EXISTING STRUCTURES IF DAMAGED DURING CONSTRUCTION ACTIVITIES.
11. REFER TO DRAWING T1 FOR ADDITIONAL NOTES AND REQUIREMENTS.

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
A	02/03/21	ASC	DMD	PRELIMINARY CONSTRUCTION DRAWINGS – ISSUED FOR CLIENT REVIEW
B	02/22/21	DMD	TJL	PRELIMINARY CONSTRUCTION DRAWINGS – REVISED PER PASSING M.A.
0	05/26/21	DMD	TJL	CONSTRUCTION DRAWINGS – ISSUED FOR CONSTRUCTION

PROFESSIONAL ENGINEER SEAL

verizon

CENTEK engineering
Centered on Solutions℠
(203) 488-0580
(203) 488-8587 Fax
63-2 North Branford Road
Branford, CT 06405
www.CentekEng.com

Cellco Partnership d/b/a Verizon Wireless

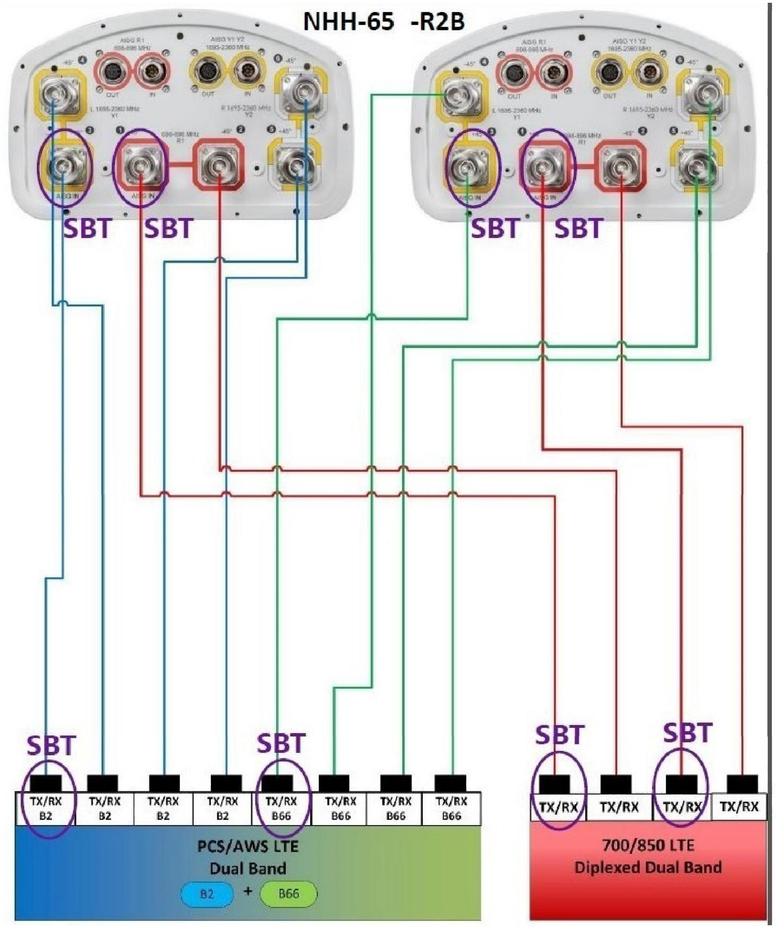
GLASTONBURY
NEIPSIC CT

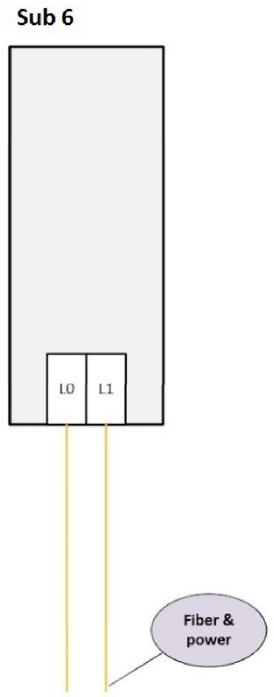
58A MONTANO ROAD
GLASTONBURY, CT 06033

DATE: 02/03/21
SCALE: AS NOTED
JOB NO. 20150.15

NOTES AND SPECIFICATIONS

N-1





NOTES:

1. INFORMATION SHOWN HEREIN IS FOR USE BY VERIZON WIRELESS EQUIPMENT OPERATIONS.
2. THIS B.O.M. DRAWING IS BASED ON FACILITY UPGRADE DESIGN DRAWINGS PREPARED BY CENTEK ENGINEERING (REV.0 DATED: 05.26.21), & VERIZON WIRELESS RF ANTENNA EQUIPMENT RECOMMENDATION (DATED 12.15.20).

BILL OF MATERIALS		
TECHNOLOGY	QUANTITY	ANTENNA
LTE 700 LTE 850 LTE PCS 1900 LTE AWS 2100	6	COMMSCOPE ANTENNA MODEL: NHH-65B-R2B
5G	3	SAMSUNG ANTENNA MODEL: MT6407-77A

CABLES	QUANTITY	LENGTH	COMMENTS
HYBRID CABLE	1	±130 FT	12x24 HYBRID CABLE

RADIOS	QUANTITY	COMMENTS
LTE 700 LTE 850 LTE PCS 1900 LTE AWS 2100	3	SAMSUNG MODEL: B5/B13 RRH-BR04C
	3	SAMSUNG MODEL: B2/B66A RRH-BR049
5G	3	INTEGRATED INTO MT6407-77A ANTENNA

DIPLEXERS	QUANTITY	COMMENTS
–	0	–

OVP BOXES	QUANTITY	COMMENTS
OVP	1	OVP 12 BOX

ANTENNA MOUNT	QUANTITY	COMMENTS
SIDE-BY-SIDE MOUNTING KIT	3	COMMSCOPE BASMNT-SBS-1-2

MOUNT MODIFICATION NOTE:
REFER TO VERIZON WIRELESS MOUNT MODIFICATION DESIGN PREPARED BY MASER CONSULTING CONNECTICUT DATED 02/17/2021 FOR ANTENNA MOUNT MODIFICATIONS AND ASSOCIATED BILL OF MATERIALS.

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
A	02/03/21	ASC	DMD	PRELIMINARY CONSTRUCTION DRAWINGS – ISSUED FOR CLIENT REVIEW
B	02/22/21	DMD	TJL	PRELIMINARY CONSTRUCTION DRAWINGS – REVISED PER PASSING M.A.
0	05/26/21	DMD	TJL	CONSTRUCTION DRAWINGS – ISSUED FOR CONSTRUCTION

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DATE: 02/03/21
SCALE: AS NOTED
JOB NO. 20150.15

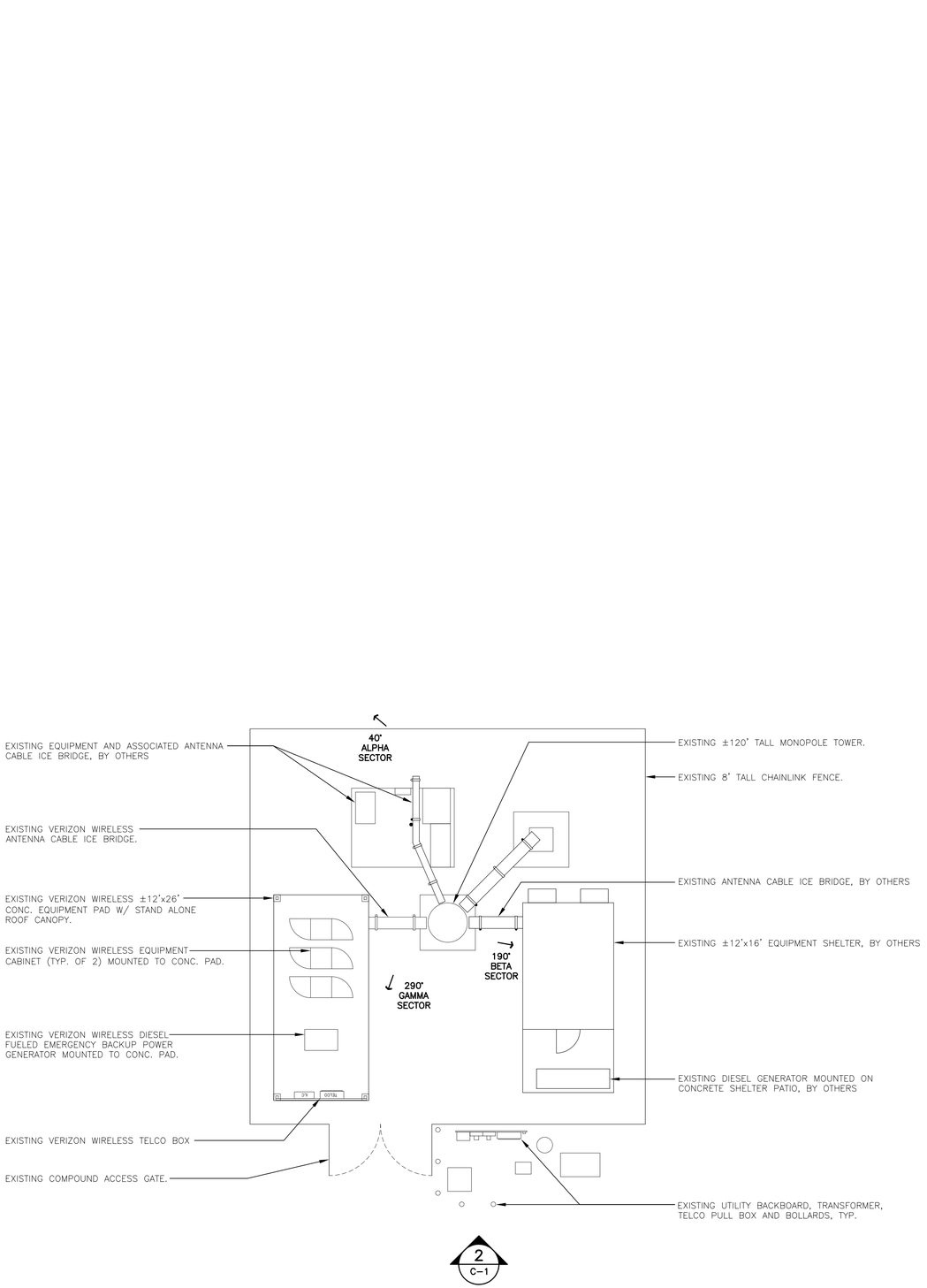
RF BILL OF MATERIALS

B-1

Sheet No. 3 of 7

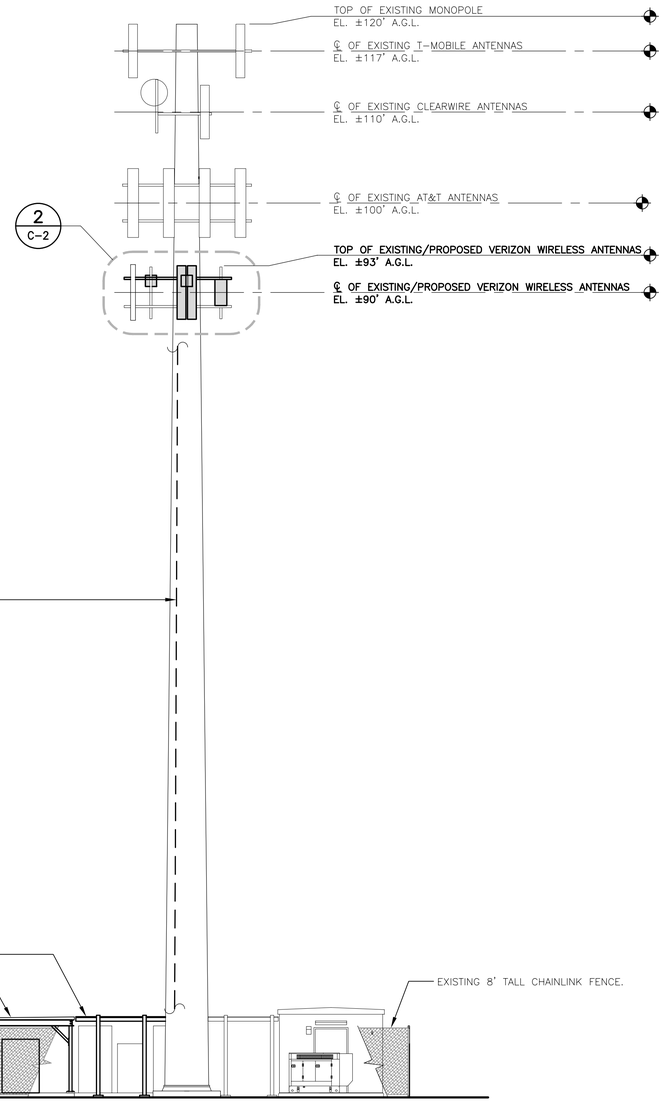
TOWER STRUCTURAL NOTES:

1. REFER TO PASSING STRUCTURAL ANALYSIS REPORT PREPARED BY TOWER ENGINEERING SOLUTIONS, FOR SBA COMMUNICATIONS CORP., DATED 04/20/2021.
2. ALL ANTENNAS, CABLES AND APPURTENANCES TO BE INSTALLED IN ACCORDANCE WITH SAID STRUCTURAL ANALYSIS.



1 C-1 **COMPOUND PLAN - PROPOSED**
SCALE: 1" = 8'

APPROXIMATE NORTH



2 C-1 **WEST ELEVATION - PROPOSED**
SCALE: 1" = 8'

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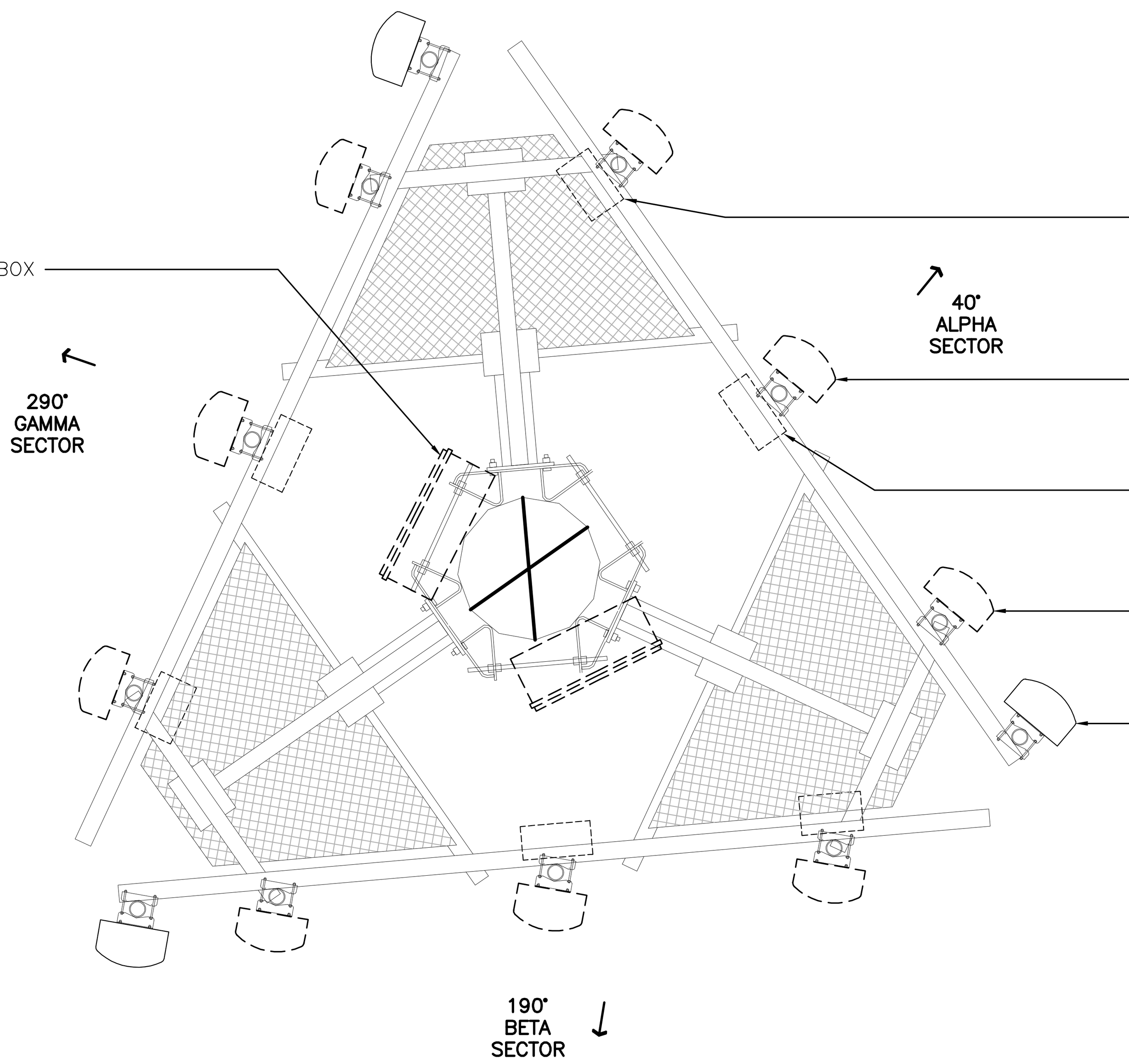
PARTIAL SITE PLAN AND ELEVATION

C-1

Sheet No. 4 of 7

EXISTING ANTENNA CONFIGURATIONS



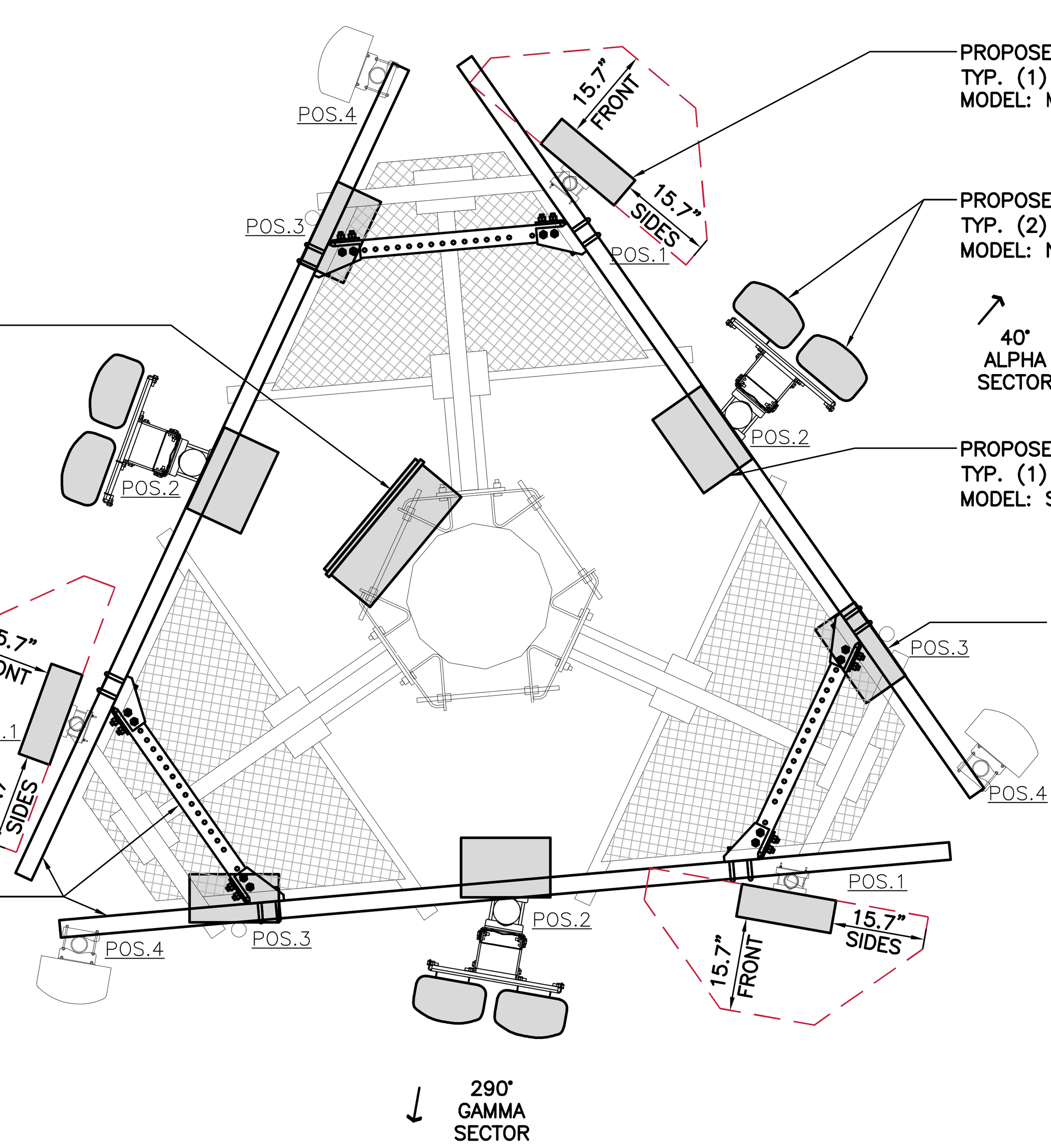
1 / C-2 EXISTING SECTOR CONFIGURATION PLAN
SCALE: 1/2" = 1'-0"
APPROXIMATE NORTH

PROPOSED ANTENNA CONFIGURATIONS

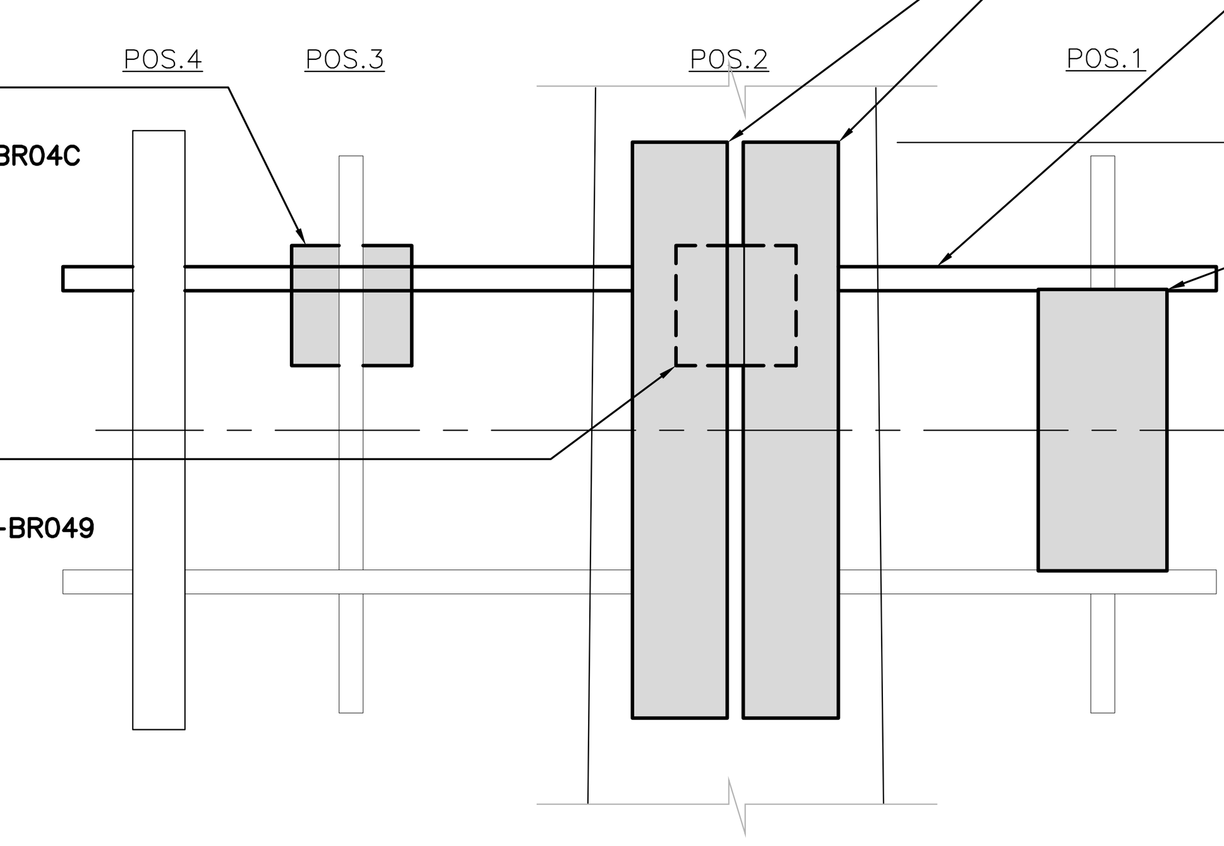
MOUNT MODIFICATION DESIGN NOTE:
REFER TO MOUNT MODIFICATION DESIGN PREPARED BY MASER CONSULTING CONNECTICUT DATED 02/17/2021 AND POST-MODIFICATION PASSING MOUNT ANALYSIS DATED 02/19/2021AS PREPARED FOR VERIZON WIRELESS BY MASER CONSULTING CONNECTICUT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

LEGEND

– – – –	VERIZON WIRELESS SAMSUNG SUB6 REQUIRED ANTENNA CLEARANCE LIMITS (PER DETAIL 1/C-3)	
CLEARANCE STATUS	ALPHA SECTOR:	COMPLIANT
	BETA SECTOR:	COMPLIANT
	GAMMA SECTOR:	COMPLIANT



1A / C-2 PROPOSED SECTOR CONFIGURATION PLAN
SCALE: 1/2" = 1'-0"
APPROXIMATE NORTH



TYPICAL SECTOR

2 / C-2 PROPOSED SECTOR CONFIGURATION ELEVATION
SCALE: 1/2" = 1'-0"

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
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ANTENNA SECTOR CONFIGURATION DETAILS

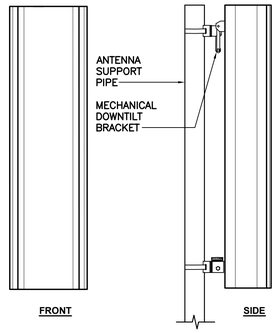
C-2

Sheet No. 5 of 7

ANTENNA FRONT

SECTOR ANTENNA		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: MT6407-77A	35.1"h x 16.1"W x 5.5"D (NOT TO EXCEED)	87 LBS. (NOT TO EXCEED)
CLEARANCES AND SERVICE AREA		
TOP: 31.5"	HORIZONTAL DISTANCE: 31.5" (ANT. TO ANT.)	
FRONT, SIDES & BOTTOM: 15.7"	VERTICAL DISTANCE: 63.0" (ANT. TO ANT.)	
NOTES: 1. THIS ANTENNA HAS ITS OWN BUILT-IN RRH.		

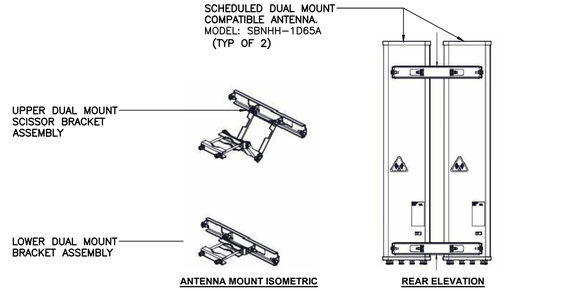
1 C-3 **SECTOR ANTENNA DETAIL**
NOT TO SCALE



NHH-65C-R2B (BOTTOM VIEW)

ALPHA/BETA/GAMMA ANTENNA		
EQUIPMENT	DIMENSIONS	WEIGHT (WITH MOUNTING KIT)
MAKE: COMMSCOPE MODEL: NHH-65B-R2B	76.0"L x 16.1"W x 11.8"D	43.7 LBS.

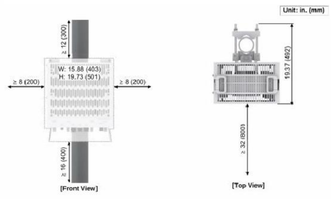
2 C-3 **PROPOSED ANTENNA DETAIL**
NOT TO SCALE



DUAL ANTENNA MOUNTING KIT	
EQUIPMENT	DESCRIPTION
MOUNT MAKE: COMMSCOPE MODEL: BASMNT-SBS-1-2	• SIDE-BY-SIDE MOUNTING KIT, ACCOMMODATES (2) COMPATABLE ANTENNAS • ACCOMMODATES MAST DIAMETERS FROM 2.375" TO 4.5" (O.D.)

3 C-3 **DUAL ANTENNA MOUNT DETAIL**
NOT TO SCALE

RRH ISOMETRIC

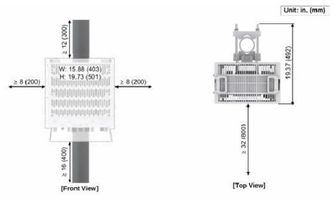


RRH CLEARANCES

DUAL BAND RRU (REMOTE RADIO UNIT)			
EQUIPMENT	BANDS	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: B2/B66A RRH-BR049 (RFV01U-D1A)	B2: PCS (1900 MHz) B66: AWS (2100 MHz)	15.0"H x 15.0"W x 10.0"D	84.4 LBS.
NOTES: 1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.			

4 C-3 **DUAL-BAND AWS/PCS RADIO UNIT DETAIL**
NOT TO SCALE

RRH ISOMETRIC



RRH CLEARANCES

DUAL BAND RRU (REMOTE RADIO UNIT)			
EQUIPMENT	BANDS	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: B5/B13 RRH-BR04C (RFV01U-D2A)	B5: 850 MHz B13: 700 MHz	15.0"H x 15.0"W x 8.1"D	70.3 LBS.
NOTES: 1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.			

5 C-3 **DUAL-BAND 700/850 MHZ RADIO UNIT DETAIL**
NOT TO SCALE

OVP BOX		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: RAYCAP MODEL: DB-C1-12C-24AB-0Z	29.5"H x 16.5"W x 12.6"D	32 LBS.
NOTES: 1. CONTRACTOR TO CONFIRM OVP BOX MAKE/MODEL AND QUANTITY WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.		

6 C-3 **PROPOSED OVER-VOLTAGE PROTECTION BOX**
NOT TO SCALE

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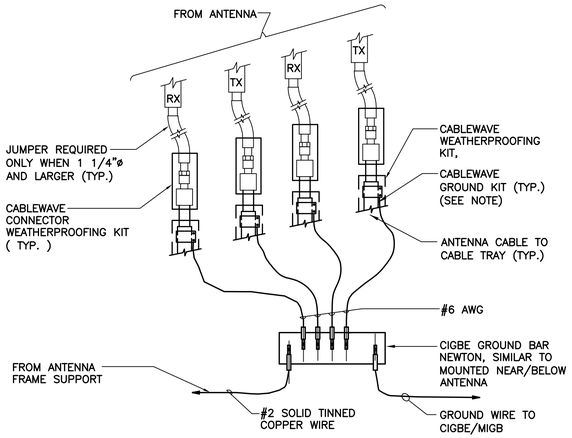
RF DETAILS

C-3

Sheet No. 6 of 7

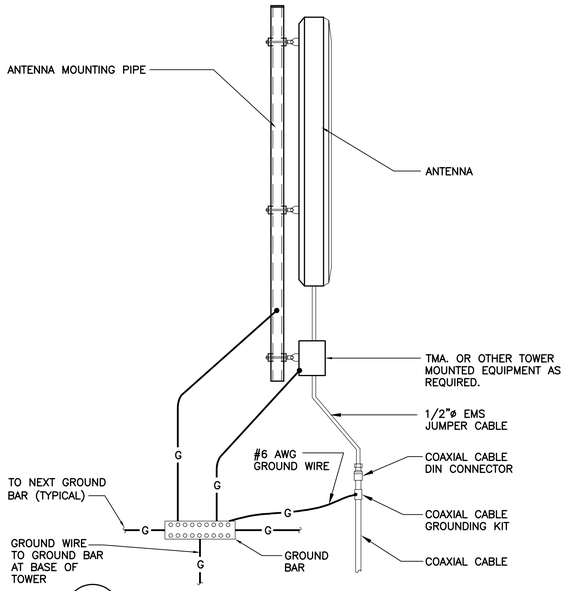


NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE

1 E-1 CONNECTION OF GROUND WIRES TO GROUND BAR

NOT TO SCALE

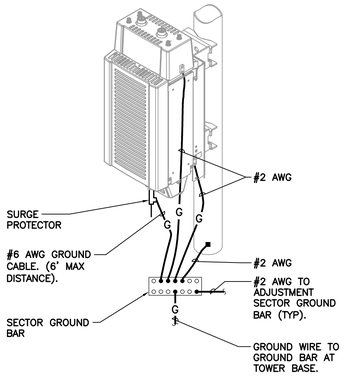


4 E-1 TYPICAL ANTENNA GROUNDING DETAIL

NOT TO SCALE

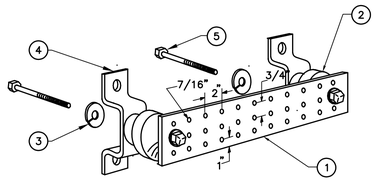
EACH RRH CABINET SHALL BE GROUNDED IN THE FOLLOWING MANNER:

1. AT TOP OF THE CABINET
2. AT RIGHT SIDE OF THE CABINET.



2 E-1 RRH POLE MOUNT GROUNDING

NOT TO SCALE

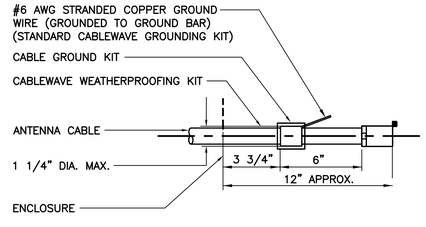


NOTES

1. TINNED COPPER GROUND BAR, 1/4" x 4" x 20", NEWTON INSTRUMENT CO. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4.
3. 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8.
4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056.
5. 5/8-11 x 1" STAINLESS STEEL TRUSS SPANNER MACHINE SCREWS.

5 E-1 GROUND BAR DETAIL

NOT TO SCALE



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.

3 E-1 ANTENNA CABLE GROUNDING DETAIL

NOT TO SCALE

ELECTRICAL SPECIFICATIONS

SECTION 16010

1.01. SCOPE OF WORK

A. WORK SHALL INCLUDE ALL LABOR, EQUIPMENT AND SERVICES REQUIRED TO COMPLETE (MAKE READY FOR OPERATION) ALL THE ELECTRICAL WORK INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

1. CELLULAR GROUNDING SYSTEMS CONSISTING OF ANTENNA GROUNDING, GROUND BARS, ETC.

1.02. GENERAL REQUIREMENTS

A. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE MADE IN STRICT ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL CODES AND REGULATIONS WHICH MAY APPLY AND NOTHING IN THE DRAWINGS OR SPECIFICATIONS SHALL BE INTERPRETED AS AN INFRINGEMENT OF SUCH CODES OR REGULATIONS.

B. THE ELECTRICAL CONTRACTOR IS TO BE RESPONSIBLE FOR THE COMPLETE INSTALLATION AND COORDINATION OF THE ENTIRE ELECTRICAL SERVICE. ALL ACTIVITIES TO BE COORDINATED THROUGH OWNERS REPRESENTATIVE, DESIGN ENGINEER AND OTHER AUTHORITIES HAVING JURISDICTION OF TRADES.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND PAY ALL FEES THAT MAY BE REQUIRED FOR THE ELECTRICAL WORK AND FOR SCHEDULING OF ALL INSPECTIONS THAT MAY BE REQUIRED BY THE LOCAL AUTHORITY.

D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE BUILDING OWNER FOR NEW AND/OR DEMOLITION WORK INVOLVED.

E. NO MATERIAL OTHER THAN THAT CONTAINED IN THE "LATEST LIST OF ELECTRICAL FITTINGS" APPROVED BY THE UNDERWRITERS' LABORATORIES, SHALL BE USED IN ANY PART OF THE WORK. ALL MATERIAL FOR WHICH LABEL SERVICE HAS BEEN ESTABLISHED SHALL BEAR THE U.L. LABEL.

F. THE CONTRACTOR SHALL GUARANTEE ALL NEW WORK FOR A PERIOD OF ONE YEAR FROM THE ACCEPTANCE DATE BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WARRANTIES FROM ALL EQUIPMENT MANUFACTURERS FOR SUBMISSION TO THE OWNER.

G. DRAWINGS INDICATE GENERAL ARRANGEMENT OF WORK INCLUDED IN CONTRACT. CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE MODIFICATIONS TO THE LAYOUT OF THE WORK TO PREVENT CONFLICT WITH WORK OF OTHER TRADES AND FOR THE PROPER INSTALLATION OF WORK. CHECK ALL DRAWINGS AND VISIT JOB SITE TO VERIFY SPACE AND TYPE OF EXISTING CONDITIONS IN WHICH WORK WILL BE DONE, PRIOR TO SUBMITTAL OF BID.

H. THE ELECTRICAL CONTRACTOR SHALL SUPPLY THREE (3) COMPLETE SETS OF APPROVED DRAWINGS, ENGINEERING DATA SHEETS, MAINTENANCE AND OPERATING INSTRUCTION MANUALS FOR ALL SYSTEMS AND THEIR RESPECTIVE EQUIPMENT. THESE MANUALS SHALL BE INSERTED IN VINYL COVERED 3-RING BINDERS AND TURNED OVER TO OWNER'S REPRESENTATIVE ONE (1) WEEK PRIOR TO FINAL PUNCH LIST.

I. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER AND WILL BE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE.

J. ALL EQUIPMENT AND MATERIALS TO BE INSTALLED SHALL BE NEW, UNLESS OTHERWISE NOTED.

K. BEFORE FINAL PAYMENT, THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF PRINTS (AS-BUILTS), LEGIBLY MARKED IN RED PENCIL TO SHOW ALL CHANGES FROM THE ORIGINAL PLANS.

L. ENTIRE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH OWNER'S SPECIFICATIONS, AND REQUIREMENTS OF ALL LOCAL AUTHORITIES HAVING JURISDICTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH APPROPRIATE INDIVIDUALS TO OBTAIN ALL SUCH SPECIFICATIONS AND REQUIREMENTS. NOTHING CONTAINED IN, OR OMITTED FROM, THESE DOCUMENTS SHALL RELIEVE CONTRACTOR FROM THIS OBLIGATION.

SECTION 16450

1.01. GROUNDING

A. ALL NON-CURRENT CARRYING PARTS OF THE ELECTRICAL AND TELEPHONE CONDUIT SYSTEMS SHALL BE MECHANICALLY AND ELECTRICALLY CONNECTED TO PROVIDE AN INDEPENDENT RETURN PATH TO THE EQUIPMENT GROUNDING SOURCES.

B. GROUNDING SYSTEM WILL BE IN ACCORDANCE WITH THE LATEST ACCEPTABLE EDITION OF THE NATIONAL ELECTRICAL CODE AND REQUIREMENTS PER LOCAL INSPECTOR HAVING JURISDICTION.

C. EQUIPMENT GROUNDING CONDUCTOR:

1. EACH EQUIPMENT GROUND CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. ARTICLE 250-122.

2. THE MINIMUM SIZE OF EQUIPMENT GROUND CONDUCTOR SHALL BE #12 AWG COPPER.

D. CELLULAR GROUNDING SYSTEM:

PROVIDE THE CELLULAR GROUNDING SYSTEM AS SPECIFIED ON DRAWINGS, INCLUDING, BUT NOT LIMITED TO:

1. GROUND BARS
2. ANTENNA GROUND CONNECTIONS AND PLATES.

E. ALL EQUIPMENT SHALL BE BONDED TO GROUND AS REQUIRED BY N.E.C., MFG. SPECIFICATIONS, AND OWNER'S SPECIFICATIONS.

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ELECTRICAL DETAILS AND SPECIFICATIONS

E-1

Sheet No. 7 of 7

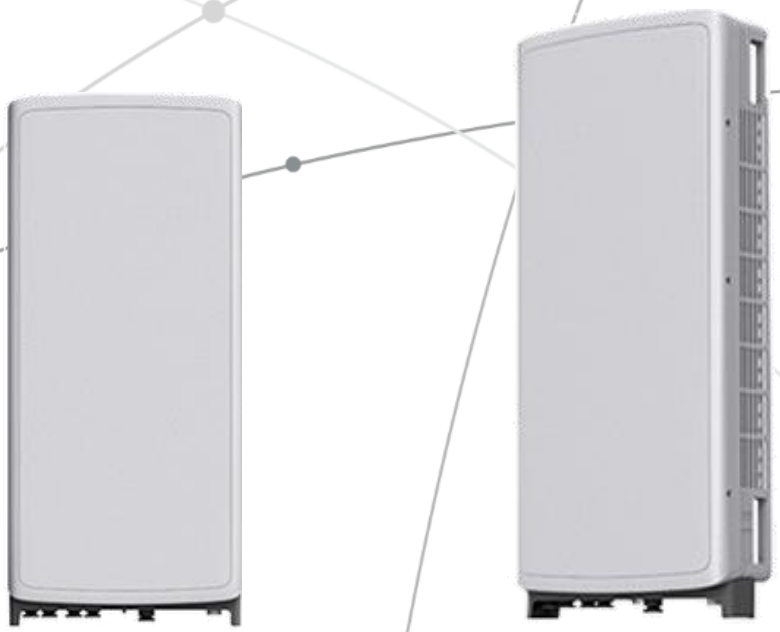
SAMSUNG

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

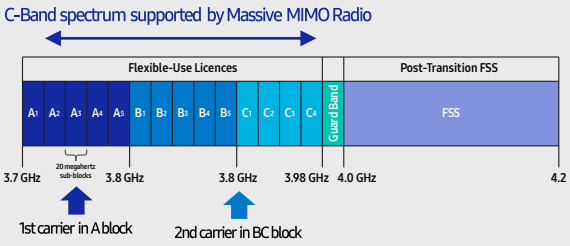


Points of Differentiation

Wide Bandwidth

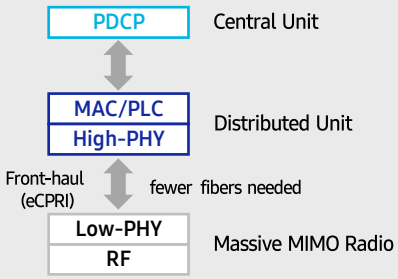
With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

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.

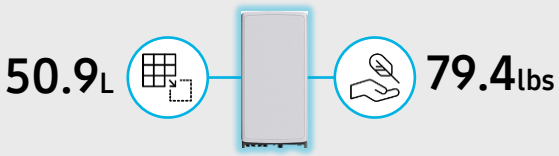
This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

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

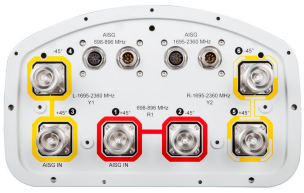
SAMSUNG

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

NHH-65B-R2B



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

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

General Specifications

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

Remote Electrical Tilt (RET) Information, General

RET Interface	8-pin DIN Female | 8-pin DIN Male
RET Interface, quantity	2 female | 2 male

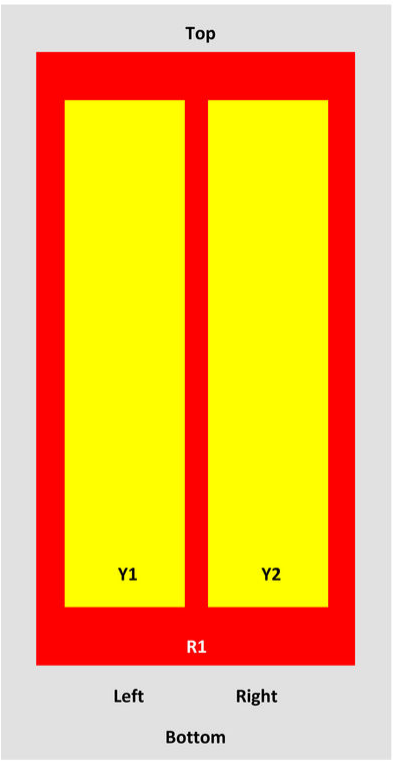
Dimensions

Width	301 mm | 11.85 in
Length	1828 mm | 71.969 in
Depth	180 mm | 7.087 in

Array Layout

NHH-65B-R2B

NHH



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-896	1-2	1	ANxxxxxxxxxxxxxxx1
Y1	1695-2360	3-4	2	ANxxxxxxxxxxxxxxx2
Y2	1695-2360	5-6		

View from the front of the antenna

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

Electrical Specifications

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

Remote Electrical Tilt (RET) Information, Electrical

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

NHH-65B-R2B

Electrical Specifications

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

Electrical Specifications, BASTA

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

Material Specifications

Radiator Material	Low loss circuit board

NHH-65B-R2B

Reflector Material	Aluminum

Mechanical Specifications

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

Packaging and Weights

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

Regulatory Compliance/Certifications

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

Included Products

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

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance

SAMSUNG

Dual-Band Radio Unit
AWS/PCS (B66/B2)
RFV01U-D1A

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

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

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

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

Features and Benefits

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

Key Technical Specifications

Duplex Type: FDD
Operating Frequencies:
    B66: DL(2,110-2,180MHz)/UL(1,710-1,780MHz)
    B2: DL(1,930-1,990MHz)/UL(1,850-1,910MHz)
Instantaneous Bandwidth:
    70MHz(B66) + 60MHz(B2)
RF Chain: 4T4R/2T4R/2T2R
Output Power: Total 320W
DU-RU Interface: CPRI (10Gbps)
Dimensions: 380 x 380 x 255mm (36.8L)
Weight: 38.3kg
Input Power: -48V DC
Operating Temp.: -40 - 55°(w/o solar load)
Cooling: Natural convection

SAMSUNG

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

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

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

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

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

Features and Benefits

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

Key Technical Specifications

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

ATTACHMENT 3

	General	Power	Density					
Site Name: Glastonbury Neipsic								
Tower Height: Verizon @ 90ft								
CARRIER	**# OF CHAN.**	**WATTS ERP**	**HEIGHT**	**CALC. POWER DENS**	**FREQ.**	**MAX. PERMISS. EXP.**	**FRACTION MPE**	**Total**
*T-Mobile	4	1538	117	1900	0.1796	1.0000	1.80%	
*T-Mobile	2	2308	117	2100	0.1347	1.0000	1.35%	
*T-Mobile	1	584	117	1900	0.0170	1.0000	0.17%	
*T-Mobile	1	840	117	2100	0.0245	1.0000	0.25%	
*T-Mobile	2	789	117	600	0.0461	0.4000	1.15%	
*T-Mobile	2	433	117	700	0.0253	0.4667	0.54%	
*Sprint	8	640	110	2500	0.1702	1.0000	1.70%	
*Sprint	1	4842	110	18000	0.1610	1.0000	1.61%	
*AT&T	1	488	96.2	850	0.0216	0.5667	0.38%	
*AT&T	1	804	96.2	1900	0.0355	1.0000	0.36%	
*AT&T	1	637	96.2	737	0.0282	0.4913	0.57%	
*AT&T	1	784	96.2	2300	0.0346	1.0000	0.35%	
*AT&T	1	610	96.2	850	0.0270	0.5667	0.48%	
*AT&T	1	637	96.2	737	0.0282	0.4913	0.57%	
*AT&T	1	2061	96.2	1900	0.0911	1.0000	0.91%	
VZW 700	**4**	689	**90**	0.0122	**751**	**0.5007**	2.44%	
VZW Cellular	**4**	697	**90**	0.0124	**874**	**0.5827**	2.12%	
VZW PCS	**4**	1500	**90**	0.0266	**1975**	**1.0000**	2.66%	

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 119 ft SABRE Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT13555-S

Customer Site Name: Montano

Carrier Name: Verizon (App#: 150197, V1)

Carrier Site ID / Name: 469043 / Glastonbury Neipsic CT

Site Location: 58A Montano Road

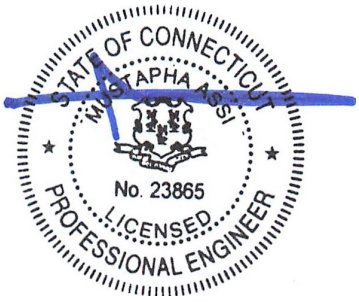
Glastonbury, Connecticut

Hartford County

Latitude: 41.699444

Longitude: -72.564000

Exp.10/31/2021



04/20/2021

Analysis Result:

Max Structural Usage: 35.2% [Pass]

Max Foundation Usage: 33.0% [Pass]

Additional Usage Caused by Mount Modification : +1.0%

Report Prepared By : Linfeng Chen

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

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Site Location: 58A Montano Road

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Latitude: 41.699444

Longitude: -72.564000

Analysis Result:

Max Structural Usage: 35.2% [Pass]

Max Foundation Usage: 33.0% [Pass]

Additional Usage Caused by Mount Modification : +1.0%

Report Prepared By : Linfeng Chen

Introduction

The purpose of this report is to summarize the analysis results on the 119 ft SABRE Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Tower Drawings	Tower Drawing prepared by Sabre, Job #09-11137 dated 11/19/08
Foundation Drawing	Foundation Drawing prepared by Sabre, Job #09-11137 dated 11/19/08
Geotechnical Report	Geotechnical Report prepared by TES, Project #082695.01 dated 10/27/08
Modification Drawings	N/A
Mount Analysis	Maser Consulting Connecticut Project #: 20777627A, Dated 02/19/21

Analysis Criteria

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

Wind Speed Used in the Analysis:	Ultimate Design Wind Speed V_{ult} = 125.0 mph (3-Sec. Gust)/ Nominal Design Wind Speed V_{asd} = 97.0 mph (3-Sec. Gust)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 1" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-G-2 / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Structure Class:	II
Topographic Category:	1
Crest Height:	0 ft
Seismic Parameters:	S_S = 0.18, S_1 = 0.063

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

Existing Antennas, Mounts and Transmission Lines

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

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	117.0	3	Ericsson Air 21 B2A/B4P	Low Profile Platform	(9) 1 5/8" (4) 1 5/8" Fiber	T-Mobile
2		3	Ericsson Air32 KRD901146-1_B66A_B2A			
3		3	Ericsson KRY 112 144/1			
4		3	Ericsson Radio 4449 B71+B12			
5	115.0	3	RFS APXVAARR24_43-U-NA20			
6	110.0	2	Andrew - VHLP2-18 - Dish	(3) dual sector mounts	(2) 1/2" (3) 1.619" Hybrid	Sprint Nextel
7		3	Nokia - AAHC - Panel			
8	100.0	3	ALU IBC700-1 – Filter	Platform w/ Hand Rail and kickers	(2) 1/2" Fiber (8) 3/4" DC (3) 3/8" RET	AT&T
9		12	CCI - HPA-65R-BUU-H8 - Panel			
10		12	Ericsson - RRU-11			
11		6	Ericsson - RRU-12			
12		6	Ericsson - RRUS-A2 Module			
13		3	Ericsson - RRU-32			
14		4	Raycap DC6-48-60-18-8F			
-	90.0	6	Andrew - LNX-6514DS-A1M - Panel	Low Profile Platform	(2) 1 5/8" Hybrid Cable	Verizon
-		6	Andrew - HBXX-6517DS-A2M - Panel			
-		3	ALU RRH2X60-AWS - RRH			
-		3	ALU RRH2x60-PCS - RRH			
-		3	ALU B13 RRH4x30 - RRH			
-		2	RFS DB-T1-6Z-8AB-0Z			

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
15	90.0	3	Samsung VZS01 - Panel	Modified Low Profile Platform w/ Handrail	(2) 1 5/8" Hybrid	Verizon
16		6	Commscope NHH-65B-R2B - Panel			
17		1	RFS DB-C1-12C-24AB-0Z			
18		3	Andrew LNX-6514DS-A1M - Panel			
19		3	Samsung B2-B66A RRH-BR049 (RFV01U-D1A)			
20		3	Samsung B5-B13 RRH-BR04C (RFV01U-D2A)			
21		1	RFS DB-T1-6Z-8AB-0Z			

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

Analysis Results

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

	Pole shafts	Anchor Bolts	Base Plate	Flange
Max. Usage:	**35.2%**	**34.0%**	**27.0%**	**20.0%**
Pass/Fail	**Pass**	**Pass**	**Pass**	**Pass**

Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions	2262.4	25.7	82.1

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

Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 0.3732 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

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

Standard Conditions

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

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

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

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

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

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

Usage Diagram - Max Ratio 35.17% at 0.0ft

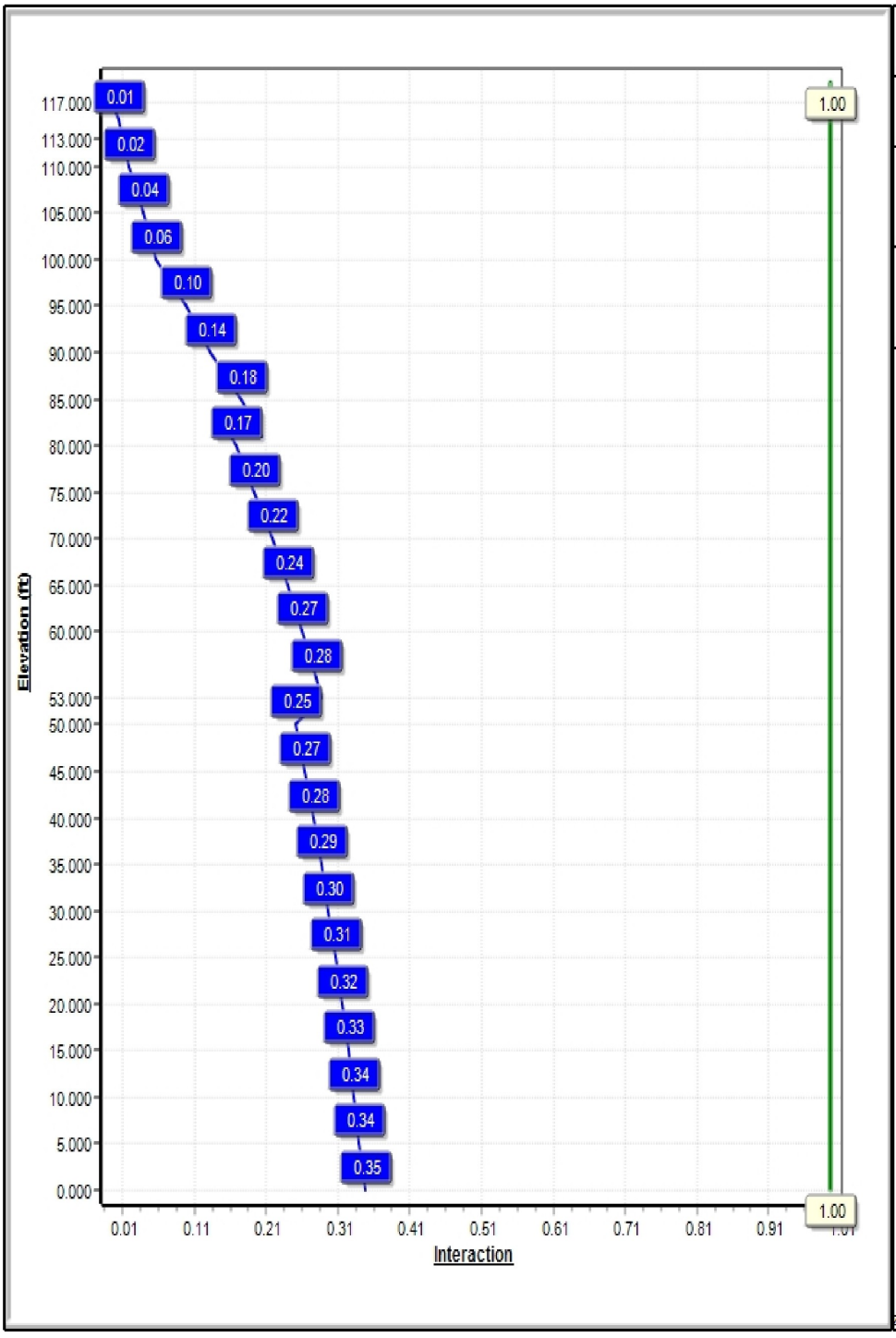
Structure:	CT13555-S-SBA	**Code:**	EIA/TIA-222-G	4/20/2021
Site Name:	Montano	**Exposure:**	B	
Height:	119.00 (ft)	**Gh:**	1.1	
Base Elev:	0.000 (ft)			Page: 1

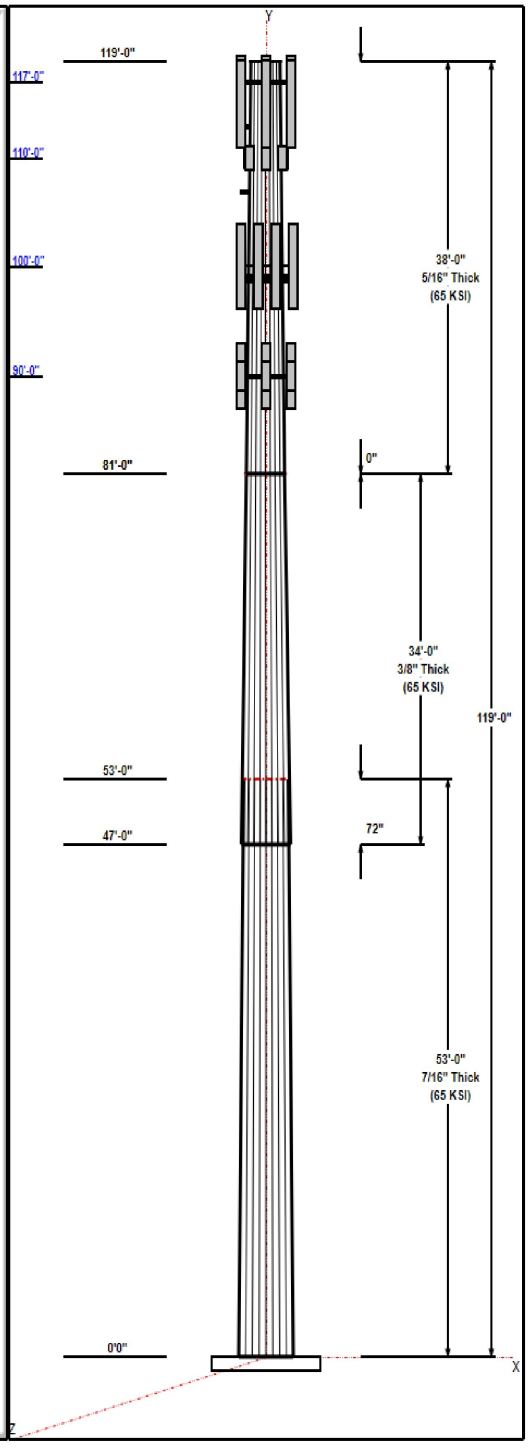
Tower Engineering Solutions

Dead Load Factor:	1.20
Wind Load Factor:	1.60

Load Case : 1.2D + 1.6W 97 mph Wind

Iterations: 18





Structure: CT13555-S-SBA

Type: Tapered
Site Name: Montano
Height: 119.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.26403

4/20/2021

Tower Engineering Solutions

Shaft Properties

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	53.00	44.82	58.81	0.438		0.26403	65
2	34.00	38.17	47.15	0.375	Slip	0.26403	65
3	38.00	28.14	38.17	0.313	Butt	0.26403	65

Discrete Appurtenances

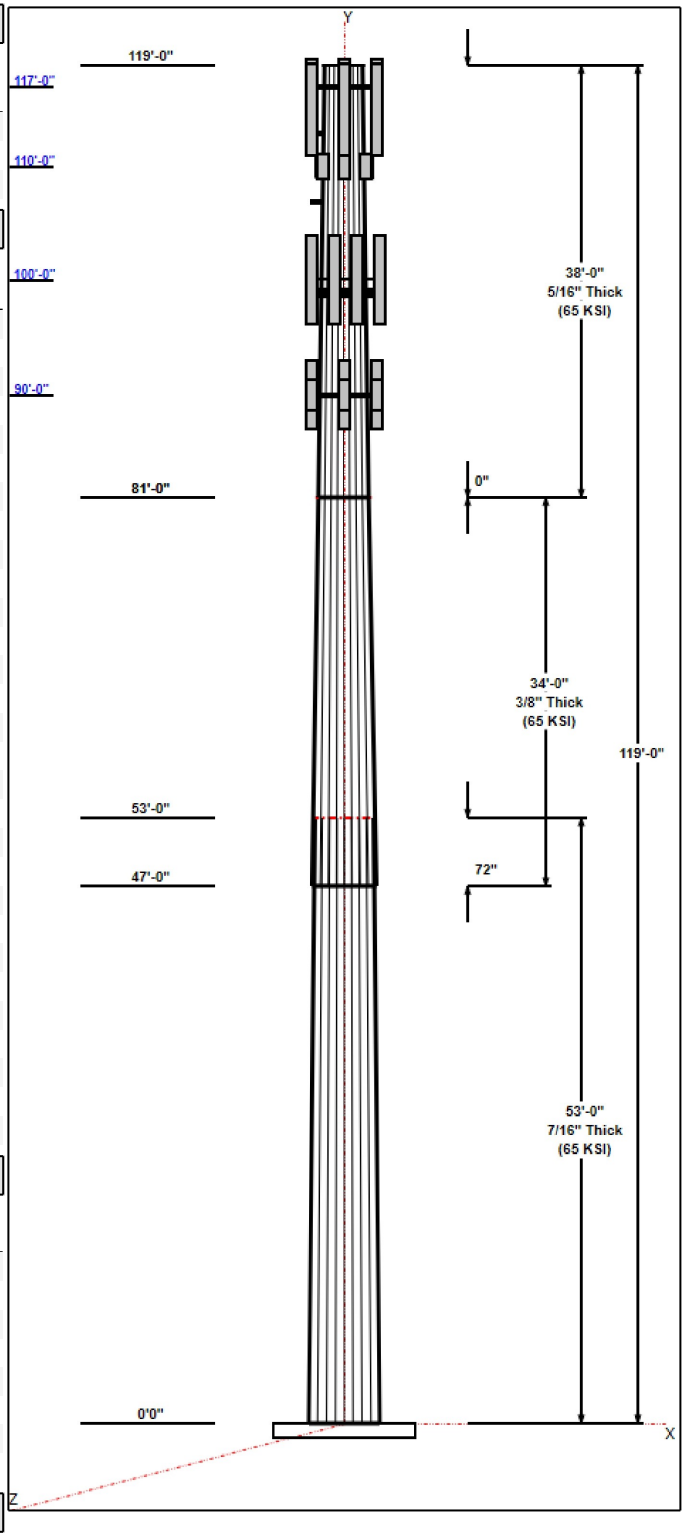
Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
119.00	119.00	1	6' Lightning rod	
117.00	117.00	3	Air32	T-Mobile
117.00	115.00	3	RFS	T-Mobile
117.00	117.00	3	Radio 4449 B71+B12	T-Mobile
117.00	117.00	3	AIR 21 B2A B4P	T-Mobile
117.00	117.00	3	KRY 112 144/1	T-Mobile
117.00	117.00	1	Low Profile Platform	T-Mobile
113.00	113.00	1	3 ft Standoff	Sprint Nextel
110.00	110.00	3	dual sector mounts	Sprint Nextel
110.00	110.00	2	VHLP2-18	Sprint Nextel
110.00	110.00	3	AAHC	Sprint Nextel
107.00	107.00	1	Ring Mount	Sprint Nextel
100.00	100.00	3	IBC700-1	AT&T
100.00	100.00	12	HPA-65R-BUU-H8	AT&T
100.00	100.00	12	RRU-11	AT&T
100.00	100.00	6	RRU-12	AT&T
100.00	100.00	6	RRUS-A2	AT&T
100.00	100.00	3	RRU-32	AT&T
100.00	100.00	4	DC6-48-60-18-8F	AT&T
100.00	100.00	1	Platform w/ Hand Rail	AT&T
90.00	90.00	3	Samsung VZS01	Verizon
90.00	90.00	6	Commscope	Verizon
90.00	90.00	1	RFS DB-C1-12C-24AB-0Z	Verizon
90.00	90.00	1	Modified Low Profile	Verizon
90.00	90.00	3	Andrew LNX-6514DS-A1M	Verizon
90.00	90.00	3	Samsung B2-B66A	Verizon
90.00	90.00	3	Samsung B5-B13	Verizon
90.00	90.00	1	RFS DB-T1-6Z-8AB-0Z	Verizon
90.00	90.00	1	Mod	Verizon

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	117.00	Inside	1 5/8" Coax	T-Mobile
0.00	117.00	Inside	1 5/8" Fiber	T-Mobile
0.00	110.00	Inside	1.619" Hybrid	Sprint Nextel
0.00	110.00	Inside	1/2" Coax	Sprint Nextel
0.00	100.00	Inside	1/2" Fiber	AT&T
0.00	100.00	Inside	3/4" DC	AT&T
0.00	100.00	Inside	3/8" RET	AT&T
0.00	90.00	Inside	1 5/8" Hybrid	Verizon

Anchor Bolts

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



Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
3.2500	66.0	50.0	Clipped

Reactions

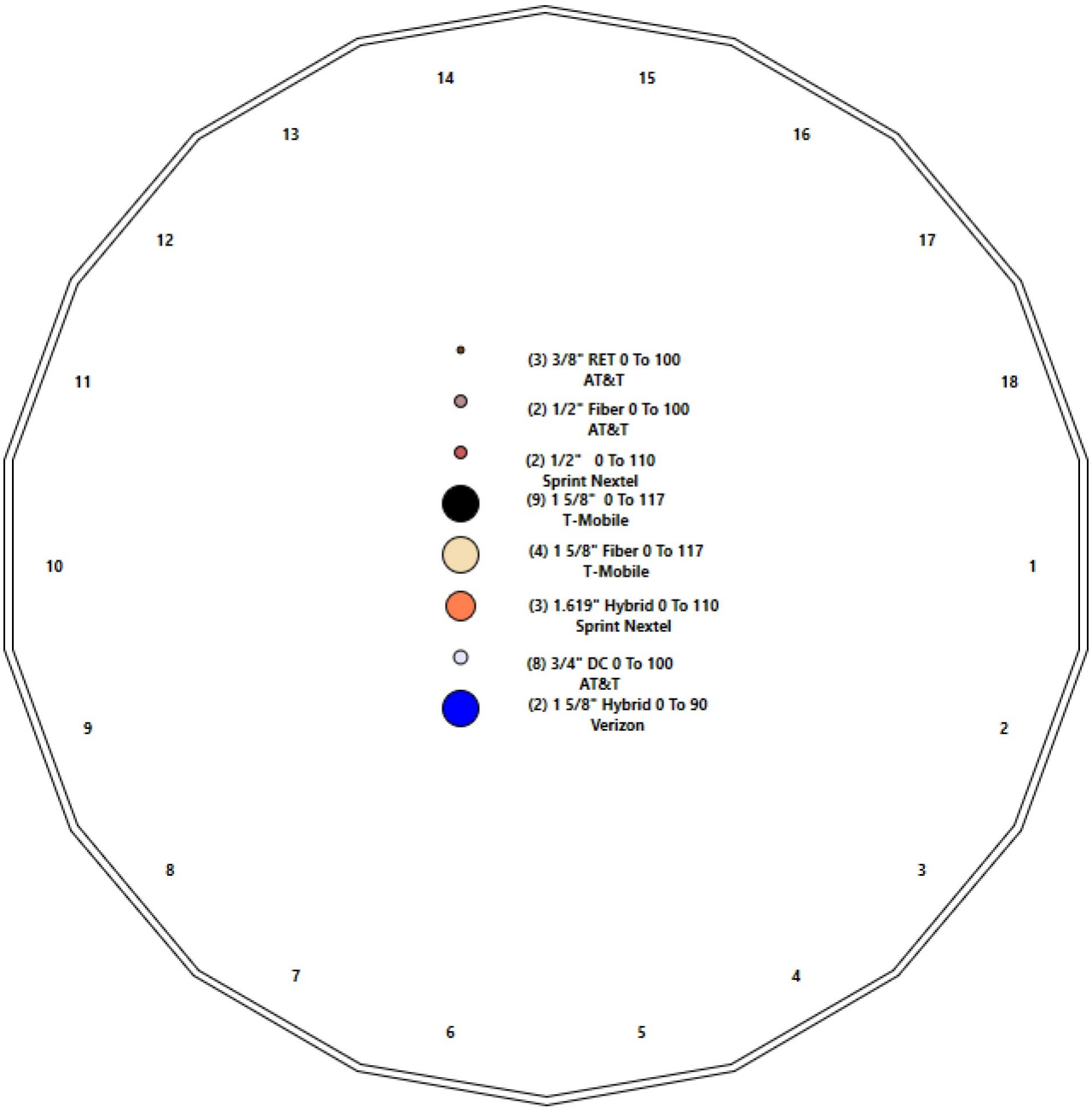
Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W 97 mph Wind	2262.4	25.7	45.1
0.9D + 1.6W 97 mph Wind	2251.9	25.7	33.8
1.2D + 1.0Di + 1.0Wi 50 mph Wind	629.9	7.3	82.1
1.2D + 1.0E	179.6	1.9	45.1
0.9D + 1.0E	178.6	1.9	33.8
1.0D + 1.0W 60 mph Wind	539.4	6.2	37.6

Structure: CT13555-S-SBA - Coax Line Placement

Type: Monopole
Site Name: Montano
Height: 119.00 (ft)

4/20/2021

Tower Engineering Solutions



Shaft Properties

Structure:	CT13555-S-SBA		**Code:**	EIA/TIA-222-G	4/20/2021
Site Name:	Montano		**Exposure:**	B	
Height:	119.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 5

Tower Engineering Solutions

Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	53.000	0.4375	65		0.00	12,866
2	18	34.000	0.3750	65	Slip	72.00	5,823
3	18	38.000	0.3125	65	Flange	0.00	4,212
					Total Shaft Weight:		**22,901**

	Bottom						Top						
Sec. No.	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Taper
1	58.81	0.00	81.05	34893.72	22.29	134.42	44.82	53.00	61.62	15333.6	16.65	102.4	0.264034
2	47.15	47.00	55.67	15389.65	20.76	125.73	38.17	81.00	44.99	8120.67	16.54	101.8	0.264034
3	38.17	81.00	37.55	6800.85	20.13	122.15	28.14	119.00	27.60	2700.33	14.47	90.05	0.264034

Load Summary

Structure:	CT13555-S-SBA	**Code:**	EIA/TIA-222-G	4/20/2021	
Site Name:	Montano	**Exposure:**	B		
Height:	119.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 6	

Tower Engineering Solutions

Discrete Appurtenances

				No Ice			Ice				
No.	Elev (ft)	Description	Qty	Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor	Hor. Ecc. (ft)	Vert Ecc (ft)
1	119.00	6' Lightning rod	1	6.50	0.38	1.00	53.79	1.797	1.00	0.00	0.00
2	117.00	Air32 KRD901146-1_B66A_B2A	3	132.20	6.51	0.87	385.37	8.057	0.87	0.00	0.00
3	117.00	RFS APXVAARR24_43-U-NA20	3	128.00	20.24	0.70	692.52	22.739	0.70	0.00	-2.00
4	117.00	Radio 4449 B71+B12	3	70.00	1.65	0.67	165.79	2.373	0.67	0.00	0.00
5	117.00	AIR 21 B2A B4P	3	91.50	6.09	0.83	324.13	7.546	0.83	0.00	0.00
6	117.00	KRY 112 144/1	3	11.00	0.41	0.72	25.02	1.028	0.75	0.00	0.00
7	117.00	Low Profile Platform	1	1500.00	22.00	1.00	3202.39	44.971	1.00	0.00	0.00
8	113.00	3 ft Standoff	1	120.00	4.50	1.00	228.57	8.572	1.00	0.00	0.00
9	110.00	dual sector mounts	3	350.00	4.00	1.00	728.99	7.609	1.00	0.00	0.00
10	110.00	VHLP2-18	2	27.00	4.68	1.00	153.50	6.327	1.00	1.00	0.00
11	110.00	AAHC	3	104.00	4.20	0.75	280.52	5.295	0.75	0.00	0.00
12	107.00	Ring Mount	1	350.00	5.00	1.00	664.95	9.499	1.00	0.00	0.00
13	100.00	IBC700-1	3	63.30	1.31	0.91	127.63	2.459	0.91	0.00	0.00
14	100.00	HPA-65R-BUU-H8	12	60.80	12.98	0.78	450.81	15.083	0.78	0.00	0.00
15	100.00	RRU-11	12	54.00	2.52	0.71	175.56	3.375	0.72	0.00	0.00
16	100.00	RRU-12	6	58.00	2.81	0.70	176.94	3.700	0.71	0.00	0.00
17	100.00	RRUS-A2	6	22.00	1.86	0.61	69.98	3.107	0.63	0.00	0.00
18	100.00	RRU-32	3	77.00	3.87	0.85	231.03	4.350	0.85	0.00	0.00
19	100.00	DC6-48-60-18-8F	4	32.80	1.47	1.00	114.45	2.366	1.00	0.00	0.00
20	100.00	Platform w/ Hand Rail	1	1875.00	43.80	1.00	5025.63	92.735	1.00	0.00	0.00
21	90.00	Samsung VZS01	3	87.10	4.30	0.69	235.99	5.438	0.69	0.00	0.00
22	90.00	Commscope NHH-65B-R2B	6	43.70	8.08	0.83	312.33	9.747	0.83	0.00	0.00
23	90.00	RFS DB-C1-12C-24AB-0Z	1	30.00	4.06	0.88	222.76	5.140	0.88	0.00	0.00
24	90.00	Modified Low Profile Platform w/	1	1500.00	25.00	1.00	3158.30	50.427	1.00	0.00	0.00
25	90.00	Andrew LNX-6514DS-A1M	3	38.80	8.17	0.83	262.16	11.747	0.83	0.00	0.00
26	90.00	Samsung B2-B66A RRH-BR049	3	84.40	1.88	0.83	149.34	2.578	0.83	0.00	0.00
27	90.00	Samsung B5-B13 RRH-BR04C	3	70.30	1.88	0.78	131.92	2.578	0.78	0.00	0.00
28	90.00	RFS DB-T1-6Z-8AB-0Z	1	20.00	5.60	0.67	165.75	7.705	0.67	0.00	0.00
29	90.00	Mod	1	514.00	12.25	1.00	1286.81	27.418	1.00	0.00	0.00
		Totals:	**96**	**12,143.30**			**36,866.94**				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	117.00	(9) 1 5/8" Coax	0.00	Inside
0.00	117.00	(4) 1 5/8" Fiber	0.00	Inside
0.00	110.00	(3) 1.619" Hybrid	0.00	Inside
0.00	110.00	(2) 1/2" Coax	0.00	Inside
0.00	100.00	(2) 1/2" Fiber	0.00	Inside
0.00	100.00	(8) 3/4" DC	0.00	Inside
0.00	100.00	(3) 3/8" RET	0.00	Inside
0.00	90.00	(2) 1 5/8" Hybrid	0.00	Inside

Shaft Section Properties

Structure:	CT13555-S-SBA	**Code:**	EIA/TIA-222-G	4/20/2021	
Site Name:	Montano	**Exposure:**	B		
Height:	119.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 7	

Increment Length: **5 (ft)**

Elev (ft)	Description	Thick (in)	Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fpy (ksi)	S (in^3)	Weight (lb)
0.00		0.4375	58.810	81.055	34893.7	22.29	134.42	75.2	1168.	0.0
5.00		0.4375	57.490	79.221	32579.4	21.76	131.41	75.8	1116.	1363.5
10.00		0.4375	56.170	77.388	30369.7	21.23	128.39	76.4	1064.	1332.3
15.00		0.4375	54.849	75.555	28262.2	20.70	125.37	77.1	1014.	1301.1
20.00		0.4375	53.529	73.722	26254.6	20.16	122.35	77.7	966.0	1269.9
25.00		0.4375	52.209	71.889	24344.4	19.63	119.34	78.3	918.4	1238.7
30.00		0.4375	50.889	70.056	22529.1	19.10	116.32	78.9	872.0	1207.5
35.00		0.4375	49.569	68.223	20806.4	18.57	113.30	79.6	826.7	1176.3
40.00		0.4375	48.249	66.389	19173.9	18.04	110.28	80.2	782.7	1145.1
45.00		0.4375	46.928	64.556	17629.0	17.50	107.27	80.8	739.9	1113.9
47.00	Bot - Section 2	0.4375	46.400	63.823	17035.1	17.29	106.06	81.1	723.1	436.8
50.00		0.4375	45.608	62.723	16169.5	16.97	104.25	81.4	698.3	1209.4
53.00	Top - Section 1	0.3750	45.566	53.787	13878.3	20.01	121.51	0.0	0.0	1188.6
55.00		0.3750	45.038	53.158	13397.5	19.77	120.10	78.2	585.9	363.9
60.00		0.3750	43.718	51.587	12244.2	19.15	116.58	78.9	551.6	891.1
65.00		0.3750	42.398	50.016	11159.1	18.53	113.06	79.6	518.4	864.3
70.00		0.3750	41.078	48.445	10140.1	17.90	109.54	80.3	486.2	837.6
75.00		0.3750	39.757	46.873	9185.1	17.28	106.02	81.1	455.0	810.9
80.00		0.3750	38.437	45.302	8292.0	16.66	102.50	81.8	424.9	784.1
81.00	Top - Section 2	0.3750	38.173	44.988	8120.7	16.54	101.80	81.9	419.0	153.6
81.00	Bot - Section 3	0.3125	38.173	37.552	6800.8	19.85	122.15	77.7	350.9	
85.00		0.3125	37.117	36.504	6247.4	19.53	118.77	78.4	331.5	504.0
90.00		0.3125	35.797	35.195	5599.0	18.79	114.55	79.3	308.1	609.9
95.00		0.3125	34.477	33.886	4997.0	18.04	110.33	80.2	285.5	587.7
100.00		0.3125	33.157	32.576	4439.8	17.30	106.10	81.1	263.7	565.4
105.00		0.3125	31.836	31.267	3925.7	16.55	101.88	81.9	242.9	543.1
107.00		0.3125	31.308	30.743	3731.7	16.26	100.19	82.3	234.8	211.0
110.00		0.3125	30.516	29.957	3452.9	15.81	97.65	82.6	222.9	309.8
113.00		0.3125	29.724	29.172	3188.3	15.36	95.12	82.6	211.3	301.8
115.00		0.3125	29.196	28.648	3019.6	15.06	93.43	82.6	203.7	196.7
117.00		0.3125	28.668	28.124	2857.0	14.77	91.74	82.6	196.3	193.2
119.00		0.3125	28.140	27.600	2700.3	14.47	90.05	82.6	189.0	189.6
										22901.0

Wind Loading - Shaft

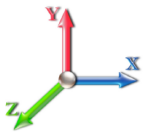
Structure:	CT13555-S-SBA	**Code:**	EIA/TIA-222-G	4/20/2021	
Site Name:	Montano	**Exposure:**	B		
Height:	119.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 8	

Tower Engineering Solutions

Load Case: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 18

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	16.018	17.62	403.87	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	16.018	17.62	394.80	0.650	0.000	5.00	24.603	15.99	450.8	0.0	1636.2
10.00		1.00	0.70	16.018	17.62	385.74	0.650	0.000	5.00	24.044	15.63	440.6	0.0	1598.7
15.00		1.00	0.70	16.018	17.62	376.67	0.650	0.000	5.00	23.486	15.27	430.4	0.0	1561.3
20.00		1.00	0.70	16.018	17.62	367.60	0.650	0.000	5.00	22.927	14.90	420.1	0.0	1523.9
25.00		1.00	0.70	16.018	17.62	358.54	0.650	0.000	5.00	22.369	14.54	409.9	0.0	1486.4
30.00		1.00	0.70	16.031	17.63	349.62	0.650	0.000	5.00	21.810	14.18	400.0	0.0	1449.0
35.00		1.00	0.73	16.753	18.43	348.13	0.650	0.000	5.00	21.252	13.81	407.3	0.0	1411.6
40.00		1.00	0.76	17.405	19.15	345.39	0.650	0.000	5.00	20.693	13.45	412.0	0.0	1374.2
45.00		1.00	0.79	18.000	19.80	341.64	0.650	0.000	5.00	20.134	13.09	414.6	0.0	1336.7
47.00	Bot - Section 2	1.00	0.80	18.225	20.05	339.90	0.650	0.000	2.00	7.897	5.13	164.7	0.0	524.2
50.00		1.00	0.81	18.551	20.41	337.06	0.650	0.000	3.00	11.869	7.71	251.9	0.0	1451.3
53.00	Top - Section 1	1.00	0.82	18.862	20.75	333.98	0.650	0.000	3.00	11.668	7.58	251.8	0.0	1426.3
55.00		1.00	0.83	19.063	20.97	337.41	0.650	0.000	2.00	7.667	4.98	167.2	0.0	436.7
60.00		1.00	0.85	19.543	21.50	331.62	0.650	0.000	5.00	18.776	12.20	419.8	0.0	1069.3
65.00		1.00	0.87	19.995	21.99	325.30	0.650	0.000	5.00	18.218	11.84	416.7	0.0	1037.2
70.00		1.00	0.89	20.422	22.46	318.53	0.650	0.000	5.00	17.659	11.48	412.6	0.0	1005.1
75.00		1.00	0.91	20.829	22.91	311.34	0.650	0.000	5.00	17.100	11.12	407.5	0.0	973.0
80.00		1.00	0.93	21.217	23.34	303.79	0.650	0.000	5.00	16.542	10.75	401.5	0.0	941.0
81.00	Top - Section 2	1.00	0.93	21.292	23.42	302.24	0.650	0.000	1.00	3.241	2.11	79.0	0.0	184.3
85.00		1.00	0.94	21.587	23.75	295.91	0.650	0.000	4.00	12.742	8.28	314.7	0.0	604.8
90.00	Appurtenance(s)	1.00	0.96	21.943	24.14	287.73	0.650	0.000	5.00	15.425	10.03	387.2	0.0	731.9
95.00		1.00	0.97	22.284	24.51	279.26	0.650	0.000	5.00	14.866	9.66	379.0	0.0	705.2
100.00	Appurtenance(s)	1.00	0.99	22.613	24.87	270.54	0.650	0.000	5.00	14.308	9.30	370.1	0.0	678.5
105.00		1.00	1.00	22.931	25.22	261.59	0.650	0.000	5.00	13.749	8.94	360.7	0.0	651.7
107.00	Appurtenance(s)	1.00	1.01	23.055	25.36	257.94	0.650	0.000	2.00	5.343	3.47	140.9	0.0	253.2
110.00	Appurtenance(s)	1.00	1.02	23.238	25.56	252.41	0.650	0.000	3.00	7.847	5.10	208.6	0.0	371.8
113.00	Appurtenance(s)	1.00	1.02	23.417	25.76	246.81	0.650	0.000	3.00	7.646	4.97	204.8	0.0	362.2
115.00		1.00	1.03	23.535	25.89	243.03	0.650	0.000	2.00	4.986	3.24	134.2	0.0	236.1
117.00	Appurtenance(s)	1.00	1.03	23.651	26.02	239.23	0.650	0.000	2.00	4.896	3.18	132.5	0.0	231.8
119.00	Appurtenance(s)	1.00	1.04	23.766	26.14	235.39	0.650	0.000	2.00	4.807	3.12	130.7	0.0	227.5
								Totals:	**119.00**			**9,521.7**		**27,481.1**

Discrete Appurtenance Forces

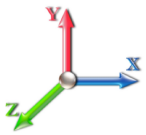
Structure:	CT13555-S-SBA	**Code:**	EIA/TIA-222-G	4/20/2021	
Site Name:	Montano	**Exposure:**	B		
Height:	119.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 9	

Tower Engineering Solutions

Load Case: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 18

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	119.00	6' Lightning rod	1	23.766	26.142	1.00	1.00	0.38	7.80	0.000	0.000	15.89	0.00	0.00
2	117.00	Low Profile Platform	1	23.651	26.016	1.00	1.00	22.00	1800.00	0.000	0.000	915.76	0.00	0.00
3	117.00	KRY 112 144/1	3	23.651	26.016	0.58	0.80	0.71	39.60	0.000	0.000	29.53	0.00	0.00
4	117.00	AIR 21 B2A B4P	3	23.651	26.016	0.66	0.80	12.07	329.40	0.000	0.000	502.54	0.00	0.00
5	117.00	Air32	3	23.651	26.016	0.70	0.80	13.59	475.92	0.000	0.000	565.81	0.00	0.00
6	117.00	RFS	3	23.535	25.888	0.56	0.80	34.00	460.80	0.000	-2.000	1408.45	0.00	-2816.89
7	117.00	Radio 4449 B71+B12	3	23.651	26.016	0.54	0.80	2.65	252.00	0.000	0.000	110.44	0.00	0.00
8	113.00	3 ft Standoff	1	23.417	25.759	1.00	1.00	4.50	144.00	0.000	0.000	185.46	0.00	0.00
9	110.00	AAHC	3	23.238	25.561	0.60	0.80	7.56	374.40	0.000	0.000	309.19	0.00	0.00
10	110.00	VHLP2-18	2	23.238	25.561	1.00	1.00	9.36	64.80	2.291	0.000	382.81	548.16	0.00
11	110.00	dual sector mounts	3	23.238	25.561	1.00	1.00	12.00	1260.00	0.000	0.000	490.78	0.00	0.00
12	107.00	Ring Mount	1	23.055	25.360	1.00	1.00	5.00	420.00	0.000	0.000	202.88	0.00	0.00
13	100.00	Platform w/ Hand Rail	1	22.613	24.875	1.00	1.00	43.80	2250.00	0.000	0.000	1743.22	0.00	0.00
14	100.00	DC6-48-60-18-8F	4	22.613	24.875	0.75	0.75	4.41	157.44	0.000	0.000	175.52	0.00	0.00
15	100.00	RRU-32	3	22.613	24.875	0.64	0.75	7.38	277.20	0.000	0.000	293.88	0.00	0.00
16	100.00	RRU-12	6	22.613	24.875	0.53	0.75	8.89	417.60	0.000	0.000	353.80	0.00	0.00
17	100.00	RRU-11	12	22.613	24.875	0.53	0.75	15.99	777.60	0.000	0.000	636.37	0.00	0.00
18	100.00	HPA-65R-BUU-H8	12	22.613	24.875	0.58	0.75	91.00	875.52	0.000	0.000	3621.87	0.00	0.00
19	100.00	IBC700-1	3	22.613	24.875	0.68	0.75	2.68	227.88	0.000	0.000	106.63	0.00	0.00
20	100.00	RRUS-A2	6	22.613	24.875	0.46	0.75	5.12	158.40	0.000	0.000	203.87	0.00	0.00
21	90.00	Modified Low Profile	1	21.943	24.137	1.00	1.00	25.00	1800.00	0.000	0.000	965.48	0.00	0.00
22	90.00	Samsung VZS01	3	21.943	24.137	0.52	0.75	6.68	313.56	0.000	0.000	257.81	0.00	0.00
23	90.00	Commscope	6	21.943	24.137	0.62	0.75	30.18	314.64	0.000	0.000	1165.48	0.00	0.00
24	90.00	RFS DB-C1-12C-24AB-0Z	1	21.943	24.137	0.66	0.75	2.68	36.00	0.000	0.000	103.48	0.00	0.00
25	90.00	RFS DB-T1-6Z-8AB-0Z	1	21.943	24.137	0.50	0.75	2.81	24.00	0.000	0.000	108.67	0.00	0.00
26	90.00	Andrew LNX-6514DS-A1M	3	21.943	24.137	0.62	0.75	15.26	139.68	0.000	0.000	589.23	0.00	0.00
27	90.00	Samsung B2-B66A	3	21.943	24.137	0.62	0.75	3.51	303.84	0.000	0.000	135.59	0.00	0.00
28	90.00	Samsung B5-B13	3	21.943	24.137	0.59	0.75	3.30	253.08	0.000	0.000	127.42	0.00	0.00
29	90.00	Mod	1	21.943	24.137	1.00	1.00	12.25	616.80	0.000	0.000	473.09	0.00	0.00
							Totals:		**14,571.96**			**16,180.97**		

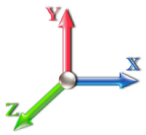
Total Applied Force Summary

Structure:	CT13555-S-SBA		**Code:**	EIA/TIA-222-G	4/20/2021
Site Name:	Montano		**Exposure:**	B	
Height:	119.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 10

Load Case: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 18

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		450.83	1774.03	0.00	0.00
10.00		440.60	1736.60	0.00	0.00
15.00		430.36	1699.18	0.00	0.00
20.00		420.13	1661.75	0.00	0.00
25.00		409.89	1624.32	0.00	0.00
30.00		400.00	1586.90	0.00	0.00
35.00		407.30	1549.47	0.00	0.00
40.00		412.02	1512.04	0.00	0.00
45.00		414.62	1474.62	0.00	0.00
47.00		164.66	579.37	0.00	0.00
50.00		251.88	1534.04	0.00	0.00
53.00		251.77	1509.01	0.00	0.00
55.00		167.20	491.85	0.00	0.00
60.00		419.77	1207.16	0.00	0.00
65.00		416.70	1175.08	0.00	0.00
70.00		412.57	1143.00	0.00	0.00
75.00		407.48	1110.92	0.00	0.00
80.00		401.50	1078.84	0.00	0.00
81.00		78.95	211.92	0.00	0.00
85.00		314.68	715.10	0.00	0.00
90.00	(22) attachments	4313.47	4671.41	0.00	0.00
95.00		378.99	829.88	0.00	0.00
100.00	(47) attachments	7505.29	5944.78	0.00	0.00
105.00		360.68	754.21	0.00	0.00
107.00	(1) attachments	343.81	714.20	0.00	0.00
110.00	(8) attachments	1391.39	2132.48	548.16	0.00
113.00	(1) attachments	390.30	555.70	0.00	0.00
115.00		134.24	269.12	0.00	0.00
117.00	(16) attachments	3665.01	3622.56	0.00	-2816.89
119.00	(1) attachments	146.59	235.34	0.00	0.00
	Totals:	**25,702.68**	**45,104.85**	**548.16**	**-2,816.89**

Calculated Forces

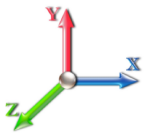
Structure:	CT13555-S-SBA	**Code:**	EIA/TIA-222-G	4/20/2021	
Site Name:	Montano	**Exposure:**	B		
Height:	119.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 11	

Tower Engineering Solutions

Load Case: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 18

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-45.08	-25.74	-0.55	-2262.4	0.00	2262.44	5484.43	2742.22	13159.3	6589.47	0.00	0.000	0.000	0.352
5.00	-43.27	-25.35	-0.55	-2133.7	0.00	2133.75	5405.01	2702.51	12673.3	6346.09	0.05	-0.090	0.000	0.344
10.00	-41.50	-24.98	-0.55	-2006.9	0.00	2006.98	5323.53	2661.77	12191.2	6104.68	0.19	-0.180	0.000	0.337
15.00	-39.76	-24.60	-0.55	-1882.1	0.00	1882.11	5239.98	2619.99	11713.4	5865.43	0.43	-0.271	0.000	0.329
20.00	-38.06	-24.23	-0.55	-1759.1	0.00	1759.10	5154.37	2577.18	11240.2	5628.50	0.76	-0.363	0.000	0.320
25.00	-36.40	-23.87	-0.55	-1637.9	0.00	1637.93	5066.69	2533.35	10772.0	5394.05	1.19	-0.455	0.000	0.311
30.00	-34.78	-23.51	-0.55	-1518.5	0.00	1518.58	4976.95	2488.47	10309.2	5162.27	1.72	-0.547	0.000	0.301
35.00	-33.20	-23.14	-0.55	-1401.0	0.00	1401.02	4885.14	2442.57	9851.98	4933.31	2.34	-0.639	0.000	0.291
40.00	-31.65	-22.76	-0.55	-1285.3	0.00	1285.31	4791.27	2395.63	9400.73	4707.35	3.06	-0.731	0.000	0.280
45.00	-30.16	-22.36	-0.55	-1171.5	0.00	1171.50	4695.33	2347.66	8955.81	4484.56	3.88	-0.822	0.000	0.268
47.00	-29.57	-22.21	-0.55	-1126.7	0.00	1126.77	4656.37	2328.19	8779.69	4396.37	4.23	-0.859	0.000	0.263
50.00	-28.01	-21.96	-0.55	-1060.1	0.00	1060.14	4597.32	2298.66	8517.56	4265.11	4.79	-0.914	0.000	0.255
53.00	-26.49	-21.71	-0.55	-994.25	0.00	994.25	3769.04	1884.52	6995.75	3503.08	5.38	-0.968	0.000	0.291
55.00	-25.98	-21.56	-0.55	-950.83	0.00	950.83	3738.97	1869.49	6858.18	3434.19	5.79	-1.004	0.000	0.284
60.00	-24.75	-21.16	-0.55	-843.02	-0.01	843.02	3662.35	1831.18	6517.42	3263.55	6.90	-1.100	0.000	0.265
65.00	-23.55	-20.76	-0.55	-737.22	-0.01	737.22	3583.67	1791.83	6181.48	3095.34	8.10	-1.191	0.000	0.245
70.00	-22.38	-20.35	-0.55	-633.43	-0.01	633.43	3502.92	1751.46	5850.70	2929.70	9.40	-1.279	-0.001	0.223
75.00	-21.25	-19.95	-0.55	-531.66	-0.01	531.66	3420.10	1710.05	5525.41	2766.81	10.78	-1.360	-0.001	0.199
80.00	-20.17	-19.54	-0.55	-431.91	-0.01	431.91	3335.22	1667.61	5205.95	2606.84	12.25	-1.435	-0.001	0.172
81.00	-19.95	-19.47	-0.55	-412.38	-0.01	412.38	3318.00	1659.00	5142.79	2575.22	12.55	-1.450	-0.001	0.166
81.00	-19.95	-19.47	-0.55	-412.38	-0.01	412.38	2626.87	1313.44	4085.05	2045.56	12.55	-1.450	-0.001	0.209
85.00	-19.22	-19.15	-0.55	-334.52	-0.01	334.52	2576.62	1288.31	3894.21	1950.00	13.79	-1.502	-0.001	0.179
90.00	-14.65	-14.73	-0.55	-238.76	-0.01	238.76	2511.95	1255.98	3659.15	1832.29	15.40	-1.567	-0.001	0.136
95.00	-13.82	-14.34	-0.55	-165.11	-0.01	165.11	2445.22	1222.61	3428.26	1716.68	17.07	-1.618	-0.001	0.102
100.00	-8.09	-6.67	-0.55	-93.42	-0.01	93.42	2376.41	1188.21	3201.88	1603.32	18.79	-1.655	-0.001	0.062
105.00	-7.35	-6.29	-0.55	-60.07	-0.01	60.07	2305.55	1152.77	2980.36	1492.40	20.54	-1.680	-0.001	0.043
107.00	-6.64	-5.93	-0.55	-47.49	-0.02	47.49	2276.62	1138.31	2893.19	1448.75	21.24	-1.688	-0.001	0.036
110.00	-4.55	-4.47	0.00	-29.71	0.00	29.71	2225.68	1112.84	2755.45	1379.77	22.31	-1.696	-0.002	0.024
113.00	-4.01	-4.07	0.00	-16.29	0.00	16.29	2167.31	1083.66	2612.10	1307.99	23.37	-1.702	-0.002	0.014
115.00	-3.74	-3.92	0.00	-8.16	0.00	8.16	2128.40	1064.20	2518.66	1261.20	24.09	-1.704	-0.002	0.008
117.00	-0.23	-0.15	0.00	-0.31	0.00	0.31	2089.48	1044.74	2426.92	1215.26	24.80	-1.705	-0.002	0.000
119.00	0.00	-0.15	0.00	0.00	0.00	0.00	2050.57	1025.29	2336.89	1170.18	25.52	-1.705	-0.002	0.000

Wind Loading - Shaft

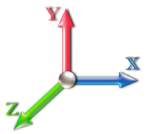
Structure:	CT13555-S-SBA	**Code:**	EIA/TIA-222-G	4/20/2021	
Site Name:	Montano	**Exposure:**	B		
Height:	119.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 12	

Tower Engineering Solutions

Load Case: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 18

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	16.018	17.62	403.87	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	16.018	17.62	394.80	0.650	0.000	5.00	24.603	15.99	450.8	0.0	1227.1
10.00		1.00	0.70	16.018	17.62	385.74	0.650	0.000	5.00	24.044	15.63	440.6	0.0	1199.0
15.00		1.00	0.70	16.018	17.62	376.67	0.650	0.000	5.00	23.486	15.27	430.4	0.0	1171.0
20.00		1.00	0.70	16.018	17.62	367.60	0.650	0.000	5.00	22.927	14.90	420.1	0.0	1142.9
25.00		1.00	0.70	16.018	17.62	358.54	0.650	0.000	5.00	22.369	14.54	409.9	0.0	1114.8
30.00		1.00	0.70	16.031	17.63	349.62	0.650	0.000	5.00	21.810	14.18	400.0	0.0	1086.8
35.00		1.00	0.73	16.753	18.43	348.13	0.650	0.000	5.00	21.252	13.81	407.3	0.0	1058.7
40.00		1.00	0.76	17.405	19.15	345.39	0.650	0.000	5.00	20.693	13.45	412.0	0.0	1030.6
45.00		1.00	0.79	18.000	19.80	341.64	0.650	0.000	5.00	20.134	13.09	414.6	0.0	1002.6
47.00	Bot - Section 2	1.00	0.80	18.225	20.05	339.90	0.650	0.000	2.00	7.897	5.13	164.7	0.0	393.2
50.00		1.00	0.81	18.551	20.41	337.06	0.650	0.000	3.00	11.869	7.71	251.9	0.0	1088.5
53.00	Top - Section 1	1.00	0.82	18.862	20.75	333.98	0.650	0.000	3.00	11.668	7.58	251.8	0.0	1069.7
55.00		1.00	0.83	19.063	20.97	337.41	0.650	0.000	2.00	7.667	4.98	167.2	0.0	327.5
60.00		1.00	0.85	19.543	21.50	331.62	0.650	0.000	5.00	18.776	12.20	419.8	0.0	802.0
65.00		1.00	0.87	19.995	21.99	325.30	0.650	0.000	5.00	18.218	11.84	416.7	0.0	777.9
70.00		1.00	0.89	20.422	22.46	318.53	0.650	0.000	5.00	17.659	11.48	412.6	0.0	753.8
75.00		1.00	0.91	20.829	22.91	311.34	0.650	0.000	5.00	17.100	11.12	407.5	0.0	729.8
80.00		1.00	0.93	21.217	23.34	303.79	0.650	0.000	5.00	16.542	10.75	401.5	0.0	705.7
81.00	Top - Section 2	1.00	0.93	21.292	23.42	302.24	0.650	0.000	1.00	3.241	2.11	79.0	0.0	138.3
85.00		1.00	0.94	21.587	23.75	295.91	0.650	0.000	4.00	12.742	8.28	314.7	0.0	453.6
90.00	Appurtenance(s)	1.00	0.96	21.943	24.14	287.73	0.650	0.000	5.00	15.425	10.03	387.2	0.0	548.9
95.00		1.00	0.97	22.284	24.51	279.26	0.650	0.000	5.00	14.866	9.66	379.0	0.0	528.9
100.00	Appurtenance(s)	1.00	0.99	22.613	24.87	270.54	0.650	0.000	5.00	14.308	9.30	370.1	0.0	508.8
105.00		1.00	1.00	22.931	25.22	261.59	0.650	0.000	5.00	13.749	8.94	360.7	0.0	488.8
107.00	Appurtenance(s)	1.00	1.01	23.055	25.36	257.94	0.650	0.000	2.00	5.343	3.47	140.9	0.0	189.9
110.00	Appurtenance(s)	1.00	1.02	23.238	25.56	252.41	0.650	0.000	3.00	7.847	5.10	208.6	0.0	278.8
113.00	Appurtenance(s)	1.00	1.02	23.417	25.76	246.81	0.650	0.000	3.00	7.646	4.97	204.8	0.0	271.6
115.00		1.00	1.03	23.535	25.89	243.03	0.650	0.000	2.00	4.986	3.24	134.2	0.0	177.1
117.00	Appurtenance(s)	1.00	1.03	23.651	26.02	239.23	0.650	0.000	2.00	4.896	3.18	132.5	0.0	173.9
119.00	Appurtenance(s)	1.00	1.04	23.766	26.14	235.39	0.650	0.000	2.00	4.807	3.12	130.7	0.0	170.7
								Totals:	**119.00**			**9,521.7**		**20,610.9**

Discrete Appurtenance Forces

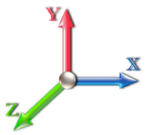
Structure:	CT13555-S-SBA	**Code:**	EIA/TIA-222-G	4/20/2021	
Site Name:	Montano	**Exposure:**	B		
Height:	119.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 13	

Tower Engineering Solutions

Load Case: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 18

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	119.00	6' Lightning rod	1	23.766	26.142	1.00	1.00	0.38	5.85	0.000	0.000	15.89	0.00	0.00
2	117.00	Low Profile Platform	1	23.651	26.016	1.00	1.00	22.00	1350.00	0.000	0.000	915.76	0.00	0.00
3	117.00	KRY 112 144/1	3	23.651	26.016	0.58	0.80	0.71	29.70	0.000	0.000	29.53	0.00	0.00
4	117.00	AIR 21 B2A B4P	3	23.651	26.016	0.66	0.80	12.07	247.05	0.000	0.000	502.54	0.00	0.00
5	117.00	Air32	3	23.651	26.016	0.70	0.80	13.59	356.94	0.000	0.000	565.81	0.00	0.00
6	117.00	RFS	3	23.535	25.888	0.56	0.80	34.00	345.60	0.000	-2.000	1408.45	0.00	-2816.89
7	117.00	Radio 4449 B71+B12	3	23.651	26.016	0.54	0.80	2.65	189.00	0.000	0.000	110.44	0.00	0.00
8	113.00	3 ft Standoff	1	23.417	25.759	1.00	1.00	4.50	108.00	0.000	0.000	185.46	0.00	0.00
9	110.00	AAHC	3	23.238	25.561	0.60	0.80	7.56	280.80	0.000	0.000	309.19	0.00	0.00
10	110.00	VHLP2-18	2	23.238	25.561	1.00	1.00	9.36	48.60	2.291	0.000	382.81	548.16	0.00
11	110.00	dual sector mounts	3	23.238	25.561	1.00	1.00	12.00	945.00	0.000	0.000	490.78	0.00	0.00
12	107.00	Ring Mount	1	23.055	25.360	1.00	1.00	5.00	315.00	0.000	0.000	202.88	0.00	0.00
13	100.00	Platform w/ Hand Rail	1	22.613	24.875	1.00	1.00	43.80	1687.50	0.000	0.000	1743.22	0.00	0.00
14	100.00	DC6-48-60-18-8F	4	22.613	24.875	0.75	0.75	4.41	118.08	0.000	0.000	175.52	0.00	0.00
15	100.00	RRU-32	3	22.613	24.875	0.64	0.75	7.38	207.90	0.000	0.000	293.88	0.00	0.00
16	100.00	RRU-12	6	22.613	24.875	0.53	0.75	8.89	313.20	0.000	0.000	353.80	0.00	0.00
17	100.00	RRU-11	12	22.613	24.875	0.53	0.75	15.99	583.20	0.000	0.000	636.37	0.00	0.00
18	100.00	HPA-65R-BUU-H8	12	22.613	24.875	0.58	0.75	91.00	656.64	0.000	0.000	3621.87	0.00	0.00
19	100.00	IBC700-1	3	22.613	24.875	0.68	0.75	2.68	170.91	0.000	0.000	106.63	0.00	0.00
20	100.00	RRUS-A2	6	22.613	24.875	0.46	0.75	5.12	118.80	0.000	0.000	203.87	0.00	0.00
21	90.00	Modified Low Profile	1	21.943	24.137	1.00	1.00	25.00	1350.00	0.000	0.000	965.48	0.00	0.00
22	90.00	Samsung VZS01	3	21.943	24.137	0.52	0.75	6.68	235.17	0.000	0.000	257.81	0.00	0.00
23	90.00	Commscope	6	21.943	24.137	0.62	0.75	30.18	235.98	0.000	0.000	1165.48	0.00	0.00
24	90.00	RFS DB-C1-12C-24AB-0Z	1	21.943	24.137	0.66	0.75	2.68	27.00	0.000	0.000	103.48	0.00	0.00
25	90.00	RFS DB-T1-6Z-8AB-0Z	1	21.943	24.137	0.50	0.75	2.81	18.00	0.000	0.000	108.67	0.00	0.00
26	90.00	Andrew LNX-6514DS-A1M	3	21.943	24.137	0.62	0.75	15.26	104.76	0.000	0.000	589.23	0.00	0.00
27	90.00	Samsung B2-B66A	3	21.943	24.137	0.62	0.75	3.51	227.88	0.000	0.000	135.59	0.00	0.00
28	90.00	Samsung B5-B13	3	21.943	24.137	0.59	0.75	3.30	189.81	0.000	0.000	127.42	0.00	0.00
29	90.00	Mod	1	21.943	24.137	1.00	1.00	12.25	462.60	0.000	0.000	473.09	0.00	0.00
							Totals:		**10,928.97**			**16,180.97**		

Total Applied Force Summary

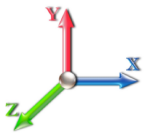
Structure:	CT13555-S-SBA		**Code:**	EIA/TIA-222-G	4/20/2021
Site Name:	Montano		**Exposure:**	B	
Height:	119.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 14

Tower Engineering Solutions

Load Case: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 18

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		450.83	1330.52	0.00	0.00
10.00		440.60	1302.45	0.00	0.00
15.00		430.36	1274.38	0.00	0.00
20.00		420.13	1246.31	0.00	0.00
25.00		409.89	1218.24	0.00	0.00
30.00		400.00	1190.17	0.00	0.00
35.00		407.30	1162.10	0.00	0.00
40.00		412.02	1134.03	0.00	0.00
45.00		414.62	1105.96	0.00	0.00
47.00		164.66	434.53	0.00	0.00
50.00		251.88	1150.53	0.00	0.00
53.00		251.77	1131.76	0.00	0.00
55.00		167.20	368.88	0.00	0.00
60.00		419.77	905.37	0.00	0.00
65.00		416.70	881.31	0.00	0.00
70.00		412.57	857.25	0.00	0.00
75.00		407.48	833.19	0.00	0.00
80.00		401.50	809.13	0.00	0.00
81.00		78.95	158.94	0.00	0.00
85.00		314.68	536.32	0.00	0.00
90.00	(22) attachments	4313.47	3503.56	0.00	0.00
95.00		378.99	622.41	0.00	0.00
100.00	(47) attachments	7505.29	4458.59	0.00	0.00
105.00		360.68	565.66	0.00	0.00
107.00	(1) attachments	343.81	535.65	0.00	0.00
110.00	(8) attachments	1391.39	1599.36	548.16	0.00
113.00	(1) attachments	390.30	416.78	0.00	0.00
115.00		134.24	201.84	0.00	0.00
117.00	(16) attachments	3665.01	2716.92	0.00	-2816.89
119.00	(1) attachments	146.59	176.51	0.00	0.00
	Totals:	**25,702.68**	**33,828.64**	**548.16**	**-2,816.89**

Calculated Forces

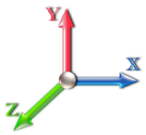
Structure:	CT13555-S-SBA	**Code:**	EIA/TIA-222-G	4/20/2021	
Site Name:	Montano	**Exposure:**	B		
Height:	119.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 15	

Tower Engineering Solutions

Load Case: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 18

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-33.81	-25.73	-0.55	-2251.8	0.00	2251.87	5484.43	2742.22	13159.3	6589.47	0.00	0.000	0.000	0.348
5.00	-32.44	-25.33	-0.55	-2123.2	0.00	2123.22	5405.01	2702.51	12673.3	6346.09	0.05	-0.089	0.000	0.341
10.00	-31.10	-24.93	-0.55	-1996.5	0.00	1996.58	5323.53	2661.77	12191.2	6104.68	0.19	-0.179	0.000	0.333
15.00	-29.79	-24.55	-0.55	-1871.9	0.00	1871.92	5239.98	2619.99	11713.4	5865.43	0.43	-0.270	0.000	0.325
20.00	-28.50	-24.16	-0.55	-1749.1	0.00	1749.19	5154.37	2577.18	11240.2	5628.50	0.76	-0.361	0.000	0.316
25.00	-27.25	-23.79	-0.55	-1628.3	0.00	1628.37	5066.69	2533.35	10772.0	5394.05	1.19	-0.452	0.000	0.307
30.00	-26.03	-23.42	-0.55	-1509.4	0.00	1509.43	4976.95	2488.47	10309.2	5162.27	1.71	-0.544	0.000	0.298
35.00	-24.83	-23.04	-0.55	-1392.3	0.00	1392.33	4885.14	2442.57	9851.98	4933.31	2.33	-0.636	0.000	0.287
40.00	-23.67	-22.65	-0.55	-1277.1	0.00	1277.13	4791.27	2395.63	9400.73	4707.35	3.05	-0.727	0.000	0.276
45.00	-22.54	-22.25	-0.55	-1163.8	0.00	1163.86	4695.33	2347.66	8955.81	4484.56	3.86	-0.817	0.000	0.264
47.00	-22.09	-22.09	-0.55	-1119.3	0.00	1119.37	4656.37	2328.19	8779.69	4396.37	4.21	-0.854	0.000	0.259
50.00	-20.92	-21.85	-0.55	-1053.0	0.00	1053.08	4597.32	2298.66	8517.56	4265.11	4.76	-0.909	0.000	0.252
53.00	-19.78	-21.59	-0.55	-987.55	0.00	987.55	3769.04	1884.52	6995.75	3503.08	5.35	-0.963	0.000	0.287
55.00	-19.39	-21.44	-0.55	-944.37	0.00	944.37	3738.97	1869.49	6858.18	3434.19	5.76	-0.998	0.000	0.280
60.00	-18.46	-21.03	-0.55	-837.18	-0.01	837.18	3662.35	1831.18	6517.42	3263.55	6.86	-1.093	0.000	0.262
65.00	-17.55	-20.63	-0.55	-732.01	-0.01	732.01	3583.67	1791.83	6181.48	3095.34	8.06	-1.184	0.000	0.242
70.00	-16.68	-20.22	-0.55	-628.88	-0.01	628.88	3502.92	1751.46	5850.70	2929.70	9.34	-1.271	-0.001	0.220
75.00	-15.83	-19.81	-0.55	-527.79	-0.01	527.79	3420.10	1710.05	5525.41	2766.81	10.72	-1.352	-0.001	0.196
80.00	-15.01	-19.40	-0.55	-428.71	-0.01	428.71	3335.22	1667.61	5205.95	2606.84	12.18	-1.426	-0.001	0.169
81.00	-14.84	-19.33	-0.55	-409.31	-0.01	409.31	3318.00	1659.00	5142.79	2575.22	12.48	-1.440	-0.001	0.164
81.00	-14.84	-19.33	-0.55	-409.31	-0.01	409.31	2626.87	1313.44	4085.05	2045.56	12.48	-1.440	-0.001	0.206
85.00	-14.30	-19.02	-0.55	-331.99	-0.01	331.99	2576.62	1288.31	3894.21	1950.00	13.71	-1.492	-0.001	0.176
90.00	-10.89	-14.62	-0.55	-236.90	-0.01	236.90	2511.95	1255.98	3659.15	1832.29	15.31	-1.557	-0.001	0.134
95.00	-10.27	-14.23	-0.55	-163.79	-0.01	163.79	2445.22	1222.61	3428.26	1716.68	16.97	-1.608	-0.001	0.100
100.00	-6.02	-6.61	-0.55	-92.61	-0.01	92.61	2376.41	1188.21	3201.88	1603.32	18.68	-1.645	-0.001	0.060
105.00	-5.47	-6.23	-0.55	-59.57	-0.01	59.57	2305.55	1152.77	2980.36	1492.40	20.41	-1.669	-0.001	0.042
107.00	-4.94	-5.87	-0.55	-47.10	-0.01	47.10	2276.62	1138.31	2893.19	1448.75	21.11	-1.677	-0.001	0.035
110.00	-3.38	-4.44	0.00	-29.48	0.00	29.48	2225.68	1112.84	2755.45	1379.77	22.17	-1.685	-0.002	0.023
113.00	-2.98	-4.04	0.00	-16.16	0.00	16.16	2167.31	1083.66	2612.10	1307.99	23.23	-1.691	-0.002	0.014
115.00	-2.78	-3.90	0.00	-8.09	0.00	8.09	2128.40	1064.20	2518.66	1261.20	23.94	-1.693	-0.002	0.008
117.00	-0.17	-0.15	0.00	-0.30	0.00	0.30	2089.48	1044.74	2426.92	1215.26	24.65	-1.694	-0.002	0.000
119.00	0.00	-0.15	0.00	0.00	0.00	0.00	2050.57	1025.29	2336.89	1170.18	25.36	-1.694	-0.002	0.000

Wind Loading - Shaft

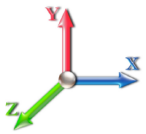
Structure:	CT13555-S-SBA	**Code:**	EIA/TIA-222-G	4/20/2021	
Site Name:	Montano	**Exposure:**	B		
Height:	119.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 16	

Tower Engineering Solutions

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

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 17

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	4.256	4.68	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	4.256	4.68	0.00	1.200	1.656	5.00	25.983	31.18	146.0	613.6	2249.7
10.00		1.00	0.70	4.256	4.68	0.00	1.200	1.775	5.00	25.523	30.63	143.4	644.2	2242.9
15.00		1.00	0.70	4.256	4.68	0.00	1.200	1.848	5.00	25.026	30.03	140.6	656.4	2217.7
20.00		1.00	0.70	4.256	4.68	0.00	1.200	1.902	5.00	24.512	29.41	137.7	660.5	2184.3
25.00		1.00	0.70	4.256	4.68	0.00	1.200	1.945	5.00	23.990	28.79	134.8	659.8	2146.2
30.00		1.00	0.70	4.260	4.69	0.00	1.200	1.981	5.00	23.461	28.15	131.9	656.0	2105.0
35.00		1.00	0.73	4.451	4.90	0.00	1.200	2.012	5.00	22.928	27.51	134.7	649.9	2061.5
40.00		1.00	0.76	4.625	5.09	0.00	1.200	2.039	5.00	22.392	26.87	136.7	642.1	2016.3
45.00		1.00	0.79	4.783	5.26	0.00	1.200	2.063	5.00	21.854	26.22	138.0	633.0	1969.7
47.00	Bot - Section 2	1.00	0.80	4.843	5.33	0.00	1.200	2.072	2.00	8.588	10.31	54.9	251.6	775.8
50.00		1.00	0.81	4.929	5.42	0.00	1.200	2.085	3.00	12.911	15.49	84.0	379.5	1830.8
53.00	Top - Section 1	1.00	0.82	5.012	5.51	0.00	1.200	2.097	3.00	12.716	15.26	84.1	375.6	1801.9
55.00		1.00	0.83	5.065	5.57	0.00	1.200	2.105	2.00	8.368	10.04	55.9	248.6	685.3
60.00		1.00	0.85	5.193	5.71	0.00	1.200	2.123	5.00	20.545	24.65	140.8	609.5	1678.8
65.00		1.00	0.87	5.313	5.84	0.00	1.200	2.140	5.00	20.001	24.00	140.3	596.9	1634.1
70.00		1.00	0.89	5.426	5.97	0.00	1.200	2.156	5.00	19.456	23.35	139.4	583.7	1588.9
75.00		1.00	0.91	5.534	6.09	0.00	1.200	2.171	5.00	18.910	22.69	138.1	570.0	1543.1
80.00		1.00	0.93	5.637	6.20	0.00	1.200	2.185	5.00	18.363	22.04	136.6	555.8	1496.8
81.00	Top - Section 2	1.00	0.93	5.657	6.22	0.00	1.200	2.188	1.00	3.606	4.33	26.9	110.6	294.9
85.00		1.00	0.94	5.736	6.31	0.00	1.200	2.198	4.00	14.208	17.05	107.6	433.0	1037.7
90.00	Appurtenance(s)	1.00	0.96	5.830	6.41	0.00	1.200	2.211	5.00	17.267	20.72	132.9	526.2	1258.1
95.00		1.00	0.97	5.921	6.51	0.00	1.200	2.223	5.00	16.719	20.06	130.7	510.8	1216.0
100.00	Appurtenance(s)	1.00	0.99	6.008	6.61	0.00	1.200	2.234	5.00	16.170	19.40	128.2	495.1	1173.6
105.00		1.00	1.00	6.093	6.70	0.00	1.200	2.245	5.00	15.620	18.74	125.6	479.1	1130.8
107.00	Appurtenance(s)	1.00	1.01	6.126	6.74	0.00	1.200	2.250	2.00	6.093	7.31	49.3	189.0	442.3
110.00	Appurtenance(s)	1.00	1.02	6.174	6.79	0.00	1.200	2.256	3.00	8.975	10.77	73.1	277.7	649.5
113.00	Appurtenance(s)	1.00	1.02	6.222	6.84	0.00	1.200	2.262	3.00	8.777	10.53	72.1	271.7	633.9
115.00		1.00	1.03	6.253	6.88	0.00	1.200	2.266	2.00	5.741	6.89	47.4	178.5	414.6
117.00	Appurtenance(s)	1.00	1.03	6.284	6.91	0.00	1.200	2.270	2.00	5.653	6.78	46.9	175.8	407.7
119.00	Appurtenance(s)	1.00	1.04	6.315	6.95	0.00	1.200	2.274	2.00	5.565	6.68	46.4	173.1	400.7
								Totals:	**119.00**			**3,205.0**		**41,288.4**

Discrete Appurtenance Forces

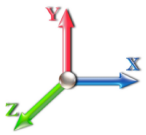
Structure:	CT13555-S-SBA	**Code:**	EIA/TIA-222-G	4/20/2021	
Site Name:	Montano	**Exposure:**	B		
Height:	119.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 17	

Tower Engineering Solutions

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

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 17

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	119.00	6' Lightning rod	1	6.315	6.946	1.00	1.00	1.80	49.79	0.000	0.000	12.48	0.00	0.00
2	117.00	Low Profile Platform	1	6.284	6.913	1.00	1.00	44.97	3202.39	0.000	0.000	310.86	0.00	0.00
3	117.00	KRY 112 144/1	3	6.284	6.913	0.60	0.80	1.84	72.37	0.000	0.000	12.72	0.00	0.00
4	117.00	AIR 21 B2A B4P	3	6.284	6.913	0.67	0.80	15.09	1027.29	0.000	0.000	104.28	0.00	0.00
5	117.00	Air32	3	6.284	6.913	0.70	0.80	16.82	1235.44	0.000	0.000	116.29	0.00	0.00
6	117.00	RFS	3	6.253	6.879	0.56	0.80	38.20	2154.36	0.000	-2.000	262.77	0.00	-525.54
7	117.00	Radio 4449 B71+B12	3	6.284	6.913	0.54	0.80	3.81	539.37	0.000	0.000	26.37	0.00	0.00
8	113.00	3 ft Standoff	1	6.222	6.844	1.00	1.00	8.57	372.57	0.000	0.000	58.66	0.00	0.00
9	110.00	AAHC	3	6.174	6.792	0.60	0.80	9.53	903.96	0.000	0.000	64.73	0.00	0.00
10	110.00	VHLP2-18	2	6.174	6.792	1.00	1.00	12.65	261.79	2.291	0.000	85.94	196.91	0.00
11	110.00	dual sector mounts	3	6.174	6.792	1.00	1.00	22.83	2096.97	0.000	0.000	155.04	0.00	0.00
12	107.00	Ring Mount	1	6.126	6.738	1.00	1.00	9.50	420.00	0.000	0.000	64.01	0.00	0.00
13	100.00	Platform w/ Hand Rail	1	6.008	6.609	1.00	1.00	92.74	5075.63	0.000	0.000	612.91	0.00	0.00
14	100.00	DC6-48-60-18-8F	4	6.008	6.609	0.75	0.75	7.10	391.71	0.000	0.000	46.91	0.00	0.00
15	100.00	RRU-32	3	6.008	6.609	0.64	0.75	8.36	739.30	0.000	0.000	55.24	0.00	0.00
16	100.00	RRU-12	6	6.008	6.609	0.53	0.75	11.86	1131.21	0.000	0.000	78.36	0.00	0.00
17	100.00	RRU-11	12	6.008	6.609	0.54	0.75	21.72	2236.37	0.000	0.000	143.53	0.00	0.00
18	100.00	HPA-65R-BUU-H8	12	6.008	6.609	0.59	0.75	106.16	5555.64	0.000	0.000	701.61	0.00	0.00
19	100.00	IBC700-1	3	6.008	6.609	0.68	0.75	5.05	364.11	0.000	0.000	33.38	0.00	0.00
20	100.00	RRUS-A2	6	6.008	6.609	0.47	0.75	8.75	384.41	0.000	0.000	57.84	0.00	0.00
21	90.00	Modified Low Profile	1	5.830	6.413	1.00	1.00	50.43	3158.30	0.000	0.000	323.41	0.00	0.00
22	90.00	Samsung VZS01	3	5.830	6.413	0.52	0.75	8.44	760.23	0.000	0.000	54.14	0.00	0.00
23	90.00	Commscope	6	5.830	6.413	0.62	0.75	36.41	1926.42	0.000	0.000	233.48	0.00	0.00
24	90.00	RFS DB-C1-12C-24AB-0Z	1	5.830	6.413	0.66	0.75	3.39	228.76	0.000	0.000	21.76	0.00	0.00
25	90.00	RFS DB-T1-6Z-8AB-0Z	1	5.830	6.413	0.50	0.75	3.87	136.75	0.000	0.000	24.83	0.00	0.00
26	90.00	Andrew LNX-6514DS-A1M	3	5.830	6.413	0.62	0.75	21.94	658.27	0.000	0.000	140.69	0.00	0.00
27	90.00	Samsung B2-B66A	3	5.830	6.413	0.62	0.75	4.82	393.07	0.000	0.000	30.88	0.00	0.00
28	90.00	Samsung B5-B13	3	5.830	6.413	0.59	0.75	4.52	403.13	0.000	0.000	29.02	0.00	0.00
29	90.00	Mod	1	5.830	6.413	1.00	1.00	27.42	1903.61	0.000	0.000	175.84	0.00	0.00
							Totals:		**37,783.21**			**4,038.01**		

Total Applied Force Summary

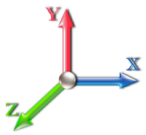
Structure:	CT13555-S-SBA		**Code:**	EIA/TIA-222-G	4/20/2021
Site Name:	Montano		**Exposure:**	B	
Height:	119.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 18

Tower Engineering Solutions

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

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 17

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		145.97	2387.58	0.00	0.00
10.00		143.39	2380.81	0.00	0.00
15.00		140.59	2355.59	0.00	0.00
20.00		137.71	2322.21	0.00	0.00
25.00		134.77	2284.11	0.00	0.00
30.00		131.91	2242.87	0.00	0.00
35.00		134.72	2199.38	0.00	0.00
40.00		136.69	2154.16	0.00	0.00
45.00		137.97	2107.58	0.00	0.00
47.00		54.90	830.96	0.00	0.00
50.00		84.00	1913.53	0.00	0.00
53.00		84.12	1884.58	0.00	0.00
55.00		55.95	740.41	0.00	0.00
60.00		140.82	1816.67	0.00	0.00
65.00		140.26	1772.00	0.00	0.00
70.00		139.36	1726.74	0.00	0.00
75.00		138.14	1680.93	0.00	0.00
80.00		136.64	1634.66	0.00	0.00
81.00		26.93	322.50	0.00	0.00
85.00		107.57	1148.05	0.00	0.00
90.00	(22) attachments	1166.94	10964.52	0.00	0.00
95.00		130.67	1340.68	0.00	0.00
100.00	(47) attachments	1858.04	17176.62	0.00	0.00
105.00		125.63	1233.30	0.00	0.00
107.00	(1) attachments	113.28	903.24	0.00	0.00
110.00	(8) attachments	378.87	3973.68	196.91	0.00
113.00	(1) attachments	130.75	1056.02	0.00	0.00
115.00		47.39	447.63	0.00	0.00
117.00	(16) attachments	880.19	8671.89	0.00	-525.54
119.00	(1) attachments	58.87	450.48	0.00	0.00
	Totals:	**7,243.04**	**82,123.37**	**196.91**	**-525.54**

Calculated Forces

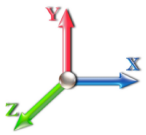
Structure:	CT13555-S-SBA	**Code:**	EIA/TIA-222-G	4/20/2021	
Site Name:	Montano	**Exposure:**	B		
Height:	119.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 19	

Tower Engineering Solutions

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

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 17

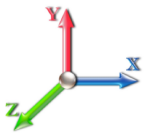
Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-82.12	-7.26	-0.20	-629.92	0.00	629.92	5484.43	2742.22	13159.3	6589.47	0.00	0.000	0.000	0.111
5.00	-79.73	-7.15	-0.20	-593.62	0.00	593.62	5405.01	2702.51	12673.3	6346.09	0.01	-0.025	0.000	0.108
10.00	-77.35	-7.04	-0.20	-557.88	0.00	557.88	5323.53	2661.77	12191.2	6104.68	0.05	-0.050	0.000	0.106
15.00	-74.99	-6.93	-0.20	-522.69	0.00	522.69	5239.98	2619.99	11713.4	5865.43	0.12	-0.075	0.000	0.103
20.00	-72.66	-6.82	-0.20	-488.05	0.00	488.05	5154.37	2577.18	11240.2	5628.50	0.21	-0.101	0.000	0.101
25.00	-70.38	-6.71	-0.20	-453.96	0.00	453.96	5066.69	2533.35	10772.0	5394.05	0.33	-0.126	0.000	0.098
30.00	-68.13	-6.60	-0.20	-420.40	0.00	420.40	4976.95	2488.47	10309.2	5162.27	0.48	-0.152	0.000	0.095
35.00	-65.93	-6.49	-0.20	-387.38	0.00	387.38	4885.14	2442.57	9851.98	4933.31	0.65	-0.177	0.000	0.092
40.00	-63.77	-6.38	-0.20	-354.92	0.00	354.92	4791.27	2395.63	9400.73	4707.35	0.85	-0.203	0.000	0.089
45.00	-61.66	-6.25	-0.20	-323.04	0.00	323.04	4695.33	2347.66	8955.81	4484.56	1.08	-0.228	0.000	0.085
47.00	-60.83	-6.20	-0.20	-310.54	0.00	310.54	4656.37	2328.19	8779.69	4396.37	1.17	-0.238	0.000	0.084
50.00	-58.92	-6.13	-0.20	-291.93	0.00	291.93	4597.32	2298.66	8517.56	4265.11	1.33	-0.253	0.000	0.081
53.00	-57.03	-6.05	-0.20	-273.54	0.00	273.54	3769.04	1884.52	6995.75	3503.08	1.49	-0.268	0.000	0.093
55.00	-56.29	-6.01	-0.20	-261.45	0.00	261.45	3738.97	1869.49	6858.18	3434.19	1.61	-0.278	0.000	0.091
60.00	-54.47	-5.88	-0.20	-231.42	0.00	231.42	3662.35	1831.18	6517.42	3263.55	1.91	-0.304	0.000	0.086
65.00	-52.70	-5.75	-0.20	-202.02	0.00	202.02	3583.67	1791.83	6181.48	3095.34	2.25	-0.329	0.000	0.080
70.00	-50.97	-5.62	-0.20	-173.25	0.00	173.25	3502.92	1751.46	5850.70	2929.70	2.60	-0.353	0.000	0.074
75.00	-49.29	-5.49	-0.20	-145.13	0.00	145.13	3420.10	1710.05	5525.41	2766.81	2.99	-0.376	0.000	0.067
80.00	-47.65	-5.36	-0.20	-117.66	0.00	117.66	3335.22	1667.61	5205.95	2606.84	3.39	-0.396	0.000	0.059
81.00	-47.33	-5.33	-0.20	-112.31	0.00	112.31	3318.00	1659.00	5142.79	2575.22	3.48	-0.400	0.000	0.058
81.00	-47.33	-5.33	-0.20	-112.31	0.00	112.31	2626.87	1313.44	4085.05	2045.56	3.48	-0.400	0.000	0.073
85.00	-46.18	-5.23	-0.20	-90.97	0.00	90.97	2576.62	1288.31	3894.21	1950.00	3.82	-0.414	0.000	0.065
90.00	-35.22	-3.99	-0.20	-64.81	0.00	64.81	2511.95	1255.98	3659.15	1832.29	4.26	-0.432	0.000	0.049
95.00	-33.88	-3.86	-0.20	-44.85	0.00	44.85	2445.22	1222.61	3428.26	1716.68	4.72	-0.446	0.000	0.040
100.00	-16.72	-1.87	-0.20	-25.55	0.00	25.55	2376.41	1188.21	3201.88	1603.32	5.19	-0.456	0.000	0.023
105.00	-15.49	-1.73	-0.20	-16.20	0.00	16.20	2305.55	1152.77	2980.36	1492.40	5.68	-0.463	-0.001	0.018
107.00	-14.59	-1.61	-0.20	-12.74	0.00	12.74	2276.62	1138.31	2893.19	1448.75	5.87	-0.465	-0.001	0.015
110.00	-10.62	-1.20	0.00	-7.89	0.00	7.89	2225.68	1112.84	2755.45	1379.77	6.16	-0.467	-0.001	0.010
113.00	-9.56	-1.06	0.00	-4.28	0.00	4.28	2167.31	1083.66	2612.10	1307.99	6.46	-0.469	-0.001	0.008
115.00	-9.11	-1.01	0.00	-2.15	0.00	2.15	2128.40	1064.20	2518.66	1261.20	6.65	-0.469	-0.001	0.006
117.00	-0.45	-0.06	0.00	-0.12	0.00	0.12	2089.48	1044.74	2426.92	1215.26	6.85	-0.469	-0.001	0.000
119.00	0.00	-0.06	0.00	0.00	0.00	0.00	2050.57	1025.29	2336.89	1170.18	7.05	-0.469	-0.001	0.000

Seismic Segment Forces (Factored)

Structure:	CT13555-S-SBA	**Code:**	EIA/TIA-222-G	4/20/2021	
Site Name:	Montano	**Exposure:**	B		
Height:	119.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 20	

Tower Engineering Solutions

Load Case:	1.2D + 1.0E					**Iterations**	17
Gust Response Factor	1.10			**Sds**	0.19	**Ss**	0.18
Dead Load Factor	1.20	**Seismic Load Factor**	1.00	**Sd1**	0.10	**S1**	0.06
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.56	**SA**	0.06	**Seismic Importance Factor**	1.00



Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
5.00		1363.4	0.00	0.04	0.02	20.79	
10.00		1332.2	0.01	0.06	0.03	29.56	
15.00		1301.0	0.03	0.07	0.04	33.13	
20.00		1269.8	0.05	0.07	0.04	34.56	
25.00		1238.7	0.08	0.07	0.04	35.28	
30.00		1207.5	0.12	0.07	0.03	35.78	
35.00		1176.3	0.16	0.07	0.03	36.01	
40.00		1145.1	0.21	0.06	0.02	35.50	
45.00		1113.9	0.27	0.05	0.01	33.57	
47.00	Bot - Section 2	436.85	0.29	0.05	0.01	12.78	
50.00		1209.4	0.33	0.04	0.01	32.95	
53.00	Top - Section 1	1188.5	0.37	0.03	0.01	28.85	
55.00		363.91	0.40	0.02	0.01	7.91	
60.00		891.06	0.48	-0.01	0.01	12.07	
65.00		864.33	0.56	-0.04	0.01	3.09	
70.00		837.60	0.65	-0.07	0.02	-5.19	
75.00		810.86	0.75	-0.10	0.04	-10.69	
80.00		784.13	0.85	-0.12	0.07	-11.73	
81.00	Top - Section 2	153.62	0.88	-0.12	0.08	-2.23	
85.00		503.99	0.96	-0.12	0.11	-4.94	
90.00	Appurtenance(s)	3777.9	1.08	-0.08	0.18	12.11	
95.00		587.66	1.20	0.01	0.26	14.41	
100.00	Appurtenance(s)	4850.0	1.33	0.17	0.37	263.61	
105.00		543.11	1.47	0.43	0.51	50.41	
107.00	Appurtenance(s)	561.01	1.53	0.57	0.58	62.07	
110.00	Appurtenance(s)	1725.8	1.61	0.83	0.69	241.70	
113.00	Appurtenance(s)	421.80	1.70	1.14	0.82	72.83	
115.00		196.75	1.77	1.38	0.92	38.60	
117.00	Appurtenance(s)	2991.2	1.83	1.66	1.02	661.66	
119.00	Appurtenance(s)	196.12	1.89	1.98	1.14	48.57	
	Totals:	**35,044.3**				**1,823.0**	**Total Wind:** **25,702.7**

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

Calculated Forces

Structure:	CT13555-S-SBA	**Code:**	EIA/TIA-222-G	4/20/2021	
Site Name:	Montano	**Exposure:**	B		
Height:	119.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 21	

Tower Engineering Solutions

Load Case: 1.2D + 1.0E

Iterations 17

Gust Response Factor	1.10			**Sds**	0.19			**Ss**	0.18
Dead Load Factor	1.20	**Seismic Load Factor**	1.00	**Sd1**	0.10			**S1**	0.06
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.56	**SA**	0.06	**Seismic Importance Factor**			1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-45.10	-1.86	0.00	-179.59	0.00	179.59	5484.43	2742.22	13159.3	6589.47		0.00	0.00	0.035
5.00	-43.33	-1.84	0.00	-170.29	0.00	170.29	5405.01	2702.51	12673.3	6346.09		0.00	-0.01	0.035
10.00	-41.59	-1.82	0.00	-161.07	0.00	161.07	5323.53	2661.77	12191.2	6104.68		0.02	-0.01	0.034
15.00	-39.89	-1.79	0.00	-151.97	0.00	151.97	5239.98	2619.99	11713.4	5865.43		0.03	-0.02	0.034
20.00	-38.23	-1.76	0.00	-143.01	0.00	143.01	5154.37	2577.18	11240.2	5628.50		0.06	-0.03	0.033
25.00	-36.61	-1.73	0.00	-134.20	0.00	134.20	5066.69	2533.35	10772.0	5394.05		0.10	-0.04	0.032
30.00	-35.02	-1.70	0.00	-125.55	0.00	125.55	4976.95	2488.47	10309.2	5162.27		0.14	-0.04	0.031
35.00	-33.47	-1.67	0.00	-117.06	0.00	117.06	4885.14	2442.57	9851.98	4933.31		0.19	-0.05	0.031
40.00	-31.96	-1.63	0.00	-108.74	0.00	108.74	4791.27	2395.63	9400.73	4707.35		0.25	-0.06	0.030
45.00	-30.48	-1.60	0.00	-100.57	0.00	100.57	4695.33	2347.66	8955.81	4484.56		0.31	-0.07	0.029
47.00	-29.90	-1.59	0.00	-97.37	0.00	97.37	4656.37	2328.19	8779.69	4396.37		0.34	-0.07	0.029
50.00	-28.37	-1.56	0.00	-92.61	0.00	92.61	4597.32	2298.66	8517.56	4265.11		0.39	-0.08	0.028
53.00	-26.86	-1.53	0.00	-87.94	0.00	87.94	3769.04	1884.52	6995.75	3503.08		0.44	-0.08	0.032
55.00	-26.37	-1.52	0.00	-84.88	0.00	84.88	3738.97	1869.49	6858.18	3434.19		0.47	-0.08	0.032
60.00	-25.16	-1.51	0.00	-77.28	0.00	77.28	3662.35	1831.18	6517.42	3263.55		0.56	-0.09	0.031
65.00	-23.99	-1.51	0.00	-69.72	0.00	69.72	3583.67	1791.83	6181.48	3095.34		0.66	-0.10	0.029
70.00	-22.84	-1.51	0.00	-62.18	0.00	62.18	3502.92	1751.46	5850.70	2929.70		0.77	-0.11	0.028
75.00	-21.73	-1.51	0.00	-54.62	0.00	54.62	3420.10	1710.05	5525.41	2766.81		0.89	-0.12	0.026
80.00	-20.65	-1.51	0.00	-47.06	0.00	47.06	3335.22	1667.61	5205.95	2606.84		1.02	-0.12	0.024
81.00	-20.44	-1.51	0.00	-45.55	0.00	45.55	3318.00	1659.00	5142.79	2575.22		1.05	-0.13	0.024
81.00	-20.44	-1.51	0.00	-45.55	0.00	45.55	2626.87	1313.44	4085.05	2045.56		1.05	-0.13	0.030
85.00	-19.73	-1.51	0.00	-39.50	0.00	39.50	2576.62	1288.31	3894.21	1950.00		1.15	-0.13	0.028
90.00	-15.05	-1.49	0.00	-31.94	0.00	31.94	2511.95	1255.98	3659.15	1832.29		1.30	-0.14	0.023
95.00	-14.22	-1.48	0.00	-24.48	0.00	24.48	2445.22	1222.61	3428.26	1716.68		1.45	-0.15	0.020
100.00	-8.28	-1.20	0.00	-17.10	0.00	17.10	2376.41	1188.21	3201.88	1603.32		1.61	-0.15	0.014
105.00	-7.53	-1.15	0.00	-11.11	0.00	11.11	2305.55	1152.77	2980.36	1492.40		1.77	-0.16	0.011
107.00	-6.81	-1.08	0.00	-8.81	0.00	8.81	2276.62	1138.31	2893.19	1448.75		1.84	-0.16	0.009
110.00	-4.68	-0.83	0.00	-5.57	0.00	5.57	2225.68	1112.84	2755.45	1379.77		1.94	-0.16	0.006
113.00	-4.12	-0.76	0.00	-3.06	0.00	3.06	2167.31	1083.66	2612.10	1307.99		2.04	-0.16	0.004
115.00	-3.86	-0.72	0.00	-1.54	0.00	1.54	2128.40	1064.20	2518.66	1261.20		2.11	-0.16	0.003
117.00	-0.24	-0.05	0.00	-0.10	0.00	0.10	2089.48	1044.74	2426.92	1215.26		2.18	-0.16	0.000
119.00	0.00	-0.05	0.00	0.00	0.00	0.00	2050.57	1025.29	2336.89	1170.18		2.25	-0.16	0.000

Seismic Segment Forces (Factored)

Structure:	CT13555-S-SBA	**Code:**	EIA/TIA-222-G	4/20/2021	
Site Name:	Montano	**Exposure:**	B		
Height:	119.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 22	

Tower Engineering Solutions

Load Case: 0.9D + 1.0E

Gust Response Factor	1.10			**Sds**	0.19	**Iterations**	16
Dead Load Factor	0.90	**Seismic Load Factor**	1.00	**Sd1**	0.10	**Ss**	0.18
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.56	**SA**	0.06	**S1**	0.06
						Seismic Importance Factor	1.00

Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
5.00		1363.4	0.00	0.04	0.02	20.79	
10.00		1332.2	0.01	0.06	0.03	29.56	
15.00		1301.0	0.03	0.07	0.04	33.13	
20.00		1269.8	0.05	0.07	0.04	34.56	
25.00		1238.7	0.08	0.07	0.04	35.28	
30.00		1207.5	0.12	0.07	0.03	35.78	
35.00		1176.3	0.16	0.07	0.03	36.01	
40.00		1145.1	0.21	0.06	0.02	35.50	
45.00		1113.9	0.27	0.05	0.01	33.57	
47.00	Bot - Section 2	436.85	0.29	0.05	0.01	12.78	
50.00		1209.4	0.33	0.04	0.01	32.95	
53.00	Top - Section 1	1188.5	0.37	0.03	0.01	28.85	
55.00		363.91	0.40	0.02	0.01	7.91	
60.00		891.06	0.48	-0.01	0.01	12.07	
65.00		864.33	0.56	-0.04	0.01	3.09	
70.00		837.60	0.65	-0.07	0.02	-5.19	
75.00		810.86	0.75	-0.10	0.04	-10.69	
80.00		784.13	0.85	-0.12	0.07	-11.73	
81.00	Top - Section 2	153.62	0.88	-0.12	0.08	-2.23	
85.00		503.99	0.96	-0.12	0.11	-4.94	
90.00	Appurtenance(s)	3777.9	1.08	-0.08	0.18	12.11	
95.00		587.66	1.20	0.01	0.26	14.41	
100.00	Appurtenance(s)	4850.0	1.33	0.17	0.37	263.61	
105.00		543.11	1.47	0.43	0.51	50.41	
107.00	Appurtenance(s)	561.01	1.53	0.57	0.58	62.07	
110.00	Appurtenance(s)	1725.8	1.61	0.83	0.69	241.70	
113.00	Appurtenance(s)	421.80	1.70	1.14	0.82	72.83	
115.00		196.75	1.77	1.38	0.92	38.60	
117.00	Appurtenance(s)	2991.2	1.83	1.66	1.02	661.66	
119.00	Appurtenance(s)	196.12	1.89	1.98	1.14	48.57	
	Totals:	**35,044.3**				**1,823.0**	**Total Wind:** **25,702.7**

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

Calculated Forces

Structure:	CT13555-S-SBA	**Code:**	EIA/TIA-222-G	4/20/2021	
Site Name:	Montano	**Exposure:**	B		
Height:	119.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 23	

Tower Engineering Solutions

Load Case: 0.9D + 1.0E

Iterations 16

Gust Response Factor	1.10			**Sds**	0.19			**Ss**	0.18
Dead Load Factor	0.90	**Seismic Load Factor**	1.00	**Sd1**	0.10			**S1**	0.06
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.56	**SA**	0.06			**Seismic Importance Factor**	1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-33.83	-1.86	0.00	-178.60	0.00	178.60	5484.43	2742.22	13159.3	6589.47		0.00	0.00	0.033
5.00	-32.50	-1.84	0.00	-169.31	0.00	169.31	5405.01	2702.51	12673.3	6346.09		0.00	-0.01	0.033
10.00	-31.20	-1.82	0.00	-160.10	0.00	160.10	5323.53	2661.77	12191.2	6104.68		0.02	-0.01	0.032
15.00	-29.92	-1.79	0.00	-151.02	0.00	151.02	5239.98	2619.99	11713.4	5865.43		0.03	-0.02	0.031
20.00	-28.67	-1.75	0.00	-142.09	0.00	142.09	5154.37	2577.18	11240.2	5628.50		0.06	-0.03	0.031
25.00	-27.46	-1.72	0.00	-133.31	0.00	133.31	5066.69	2533.35	10772.0	5394.05		0.10	-0.04	0.030
30.00	-26.27	-1.69	0.00	-124.70	0.00	124.70	4976.95	2488.47	10309.2	5162.27		0.14	-0.04	0.029
35.00	-25.10	-1.66	0.00	-116.25	0.00	116.25	4885.14	2442.57	9851.98	4933.31		0.19	-0.05	0.029
40.00	-23.97	-1.62	0.00	-107.97	0.00	107.97	4791.27	2395.63	9400.73	4707.35		0.25	-0.06	0.028
45.00	-22.86	-1.59	0.00	-99.86	0.00	99.86	4695.33	2347.66	8955.81	4484.56		0.31	-0.07	0.027
47.00	-22.43	-1.58	0.00	-96.68	0.00	96.68	4656.37	2328.19	8779.69	4396.37		0.34	-0.07	0.027
50.00	-21.28	-1.55	0.00	-91.95	0.00	91.95	4597.32	2298.66	8517.56	4265.11		0.39	-0.07	0.026
53.00	-20.15	-1.52	0.00	-87.31	0.00	87.31	3769.04	1884.52	6995.75	3503.08		0.43	-0.08	0.030
55.00	-19.78	-1.51	0.00	-84.28	0.00	84.28	3738.97	1869.49	6858.18	3434.19		0.47	-0.08	0.030
60.00	-18.87	-1.50	0.00	-76.73	0.00	76.73	3662.35	1831.18	6517.42	3263.55		0.56	-0.09	0.029
65.00	-17.99	-1.50	0.00	-69.23	0.00	69.23	3583.67	1791.83	6181.48	3095.34		0.66	-0.10	0.027
70.00	-17.13	-1.50	0.00	-61.74	0.00	61.74	3502.92	1751.46	5850.70	2929.70		0.77	-0.11	0.026
75.00	-16.30	-1.50	0.00	-54.25	0.00	54.25	3420.10	1710.05	5525.41	2766.81		0.89	-0.12	0.024
80.00	-15.49	-1.50	0.00	-46.75	0.00	46.75	3335.22	1667.61	5205.95	2606.84		1.01	-0.12	0.023
81.00	-15.33	-1.50	0.00	-45.25	0.00	45.25	3318.00	1659.00	5142.79	2575.22		1.04	-0.13	0.022
81.00	-15.33	-1.50	0.00	-45.25	0.00	45.25	2626.87	1313.44	4085.05	2045.56		1.04	-0.13	0.028
85.00	-14.79	-1.50	0.00	-39.26	0.00	39.26	2576.62	1288.31	3894.21	1950.00		1.15	-0.13	0.026
90.00	-11.29	-1.48	0.00	-31.76	0.00	31.76	2511.95	1255.98	3659.15	1832.29		1.29	-0.14	0.022
95.00	-10.67	-1.47	0.00	-24.35	0.00	24.35	2445.22	1222.61	3428.26	1716.68		1.44	-0.15	0.019
100.00	-6.21	-1.19	0.00	-17.01	0.00	17.01	2376.41	1188.21	3201.88	1603.32		1.60	-0.15	0.013
105.00	-5.64	-1.14	0.00	-11.05	0.00	11.05	2305.55	1152.77	2980.36	1492.40		1.76	-0.16	0.010
107.00	-5.11	-1.08	0.00	-8.77	0.00	8.77	2276.62	1138.31	2893.19	1448.75		1.83	-0.16	0.008
110.00	-3.51	-0.83	0.00	-5.54	0.00	5.54	2225.68	1112.84	2755.45	1379.77		1.93	-0.16	0.006
113.00	-3.09	-0.76	0.00	-3.05	0.00	3.05	2167.31	1083.66	2612.10	1307.99		2.03	-0.16	0.004
115.00	-2.89	-0.72	0.00	-1.53	0.00	1.53	2128.40	1064.20	2518.66	1261.20		2.09	-0.16	0.003
117.00	-0.18	-0.05	0.00	-0.10	0.00	0.10	2089.48	1044.74	2426.92	1215.26		2.16	-0.16	0.000
119.00	0.00	-0.05	0.00	0.00	0.00	0.00	2050.57	1025.29	2336.89	1170.18		2.23	-0.16	0.000

Wind Loading - Shaft

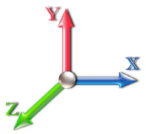
Structure:	CT13555-S-SBA	**Code:**	EIA/TIA-222-G	4/20/2021	
Site Name:	Montano	**Exposure:**	B		
Height:	119.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 24	

Tower Engineering Solutions

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 17

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	6.129	6.74	249.82	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	6.129	6.74	244.21	0.650	0.000	5.00	24.603	15.99	107.8	0.0	1363.5
10.00		1.00	0.70	6.129	6.74	238.60	0.650	0.000	5.00	24.044	15.63	105.4	0.0	1332.3
15.00		1.00	0.70	6.129	6.74	232.99	0.650	0.000	5.00	23.486	15.27	102.9	0.0	1301.1
20.00		1.00	0.70	6.129	6.74	227.38	0.650	0.000	5.00	22.927	14.90	100.5	0.0	1269.9
25.00		1.00	0.70	6.129	6.74	221.78	0.650	0.000	5.00	22.369	14.54	98.0	0.0	1238.7
30.00		1.00	0.70	6.134	6.75	216.26	0.650	0.000	5.00	21.810	14.18	95.7	0.0	1207.5
35.00		1.00	0.73	6.410	7.05	215.34	0.650	0.000	5.00	21.252	13.81	97.4	0.0	1176.3
40.00		1.00	0.76	6.659	7.33	213.64	0.650	0.000	5.00	20.693	13.45	98.5	0.0	1145.1
45.00		1.00	0.79	6.887	7.58	211.32	0.650	0.000	5.00	20.134	13.09	99.1	0.0	1113.9
47.00	Bot - Section 2	1.00	0.80	6.973	7.67	210.25	0.650	0.000	2.00	7.897	5.13	39.4	0.0	436.8
50.00		1.00	0.81	7.098	7.81	208.49	0.650	0.000	3.00	11.869	7.71	60.2	0.0	1209.4
53.00	Top - Section 1	1.00	0.82	7.217	7.94	206.58	0.650	0.000	3.00	11.668	7.58	60.2	0.0	1188.6
55.00		1.00	0.83	7.294	8.02	208.71	0.650	0.000	2.00	7.667	4.98	40.0	0.0	363.9
60.00		1.00	0.85	7.477	8.22	205.12	0.650	0.000	5.00	18.776	12.20	100.4	0.0	891.1
65.00		1.00	0.87	7.650	8.42	201.22	0.650	0.000	5.00	18.218	11.84	99.6	0.0	864.3
70.00		1.00	0.89	7.814	8.60	197.03	0.650	0.000	5.00	17.659	11.48	98.7	0.0	837.6
75.00		1.00	0.91	7.969	8.77	192.58	0.650	0.000	5.00	17.100	11.12	97.4	0.0	810.9
80.00		1.00	0.93	8.118	8.93	187.91	0.650	0.000	5.00	16.542	10.75	96.0	0.0	784.1
81.00	Top - Section 2	1.00	0.93	8.147	8.96	186.95	0.650	0.000	1.00	3.241	2.11	18.9	0.0	153.6
85.00		1.00	0.94	8.260	9.09	183.04	0.650	0.000	4.00	12.742	8.28	75.2	0.0	504.0
90.00	Appurtenance(s)	1.00	0.96	8.396	9.24	177.97	0.650	0.000	5.00	15.425	10.03	92.6	0.0	609.9
95.00		1.00	0.97	8.526	9.38	172.74	0.650	0.000	5.00	14.866	9.66	90.6	0.0	587.7
100.00	Appurtenance(s)	1.00	0.99	8.652	9.52	167.35	0.650	0.000	5.00	14.308	9.30	88.5	0.0	565.4
105.00		1.00	1.00	8.774	9.65	161.81	0.650	0.000	5.00	13.749	8.94	86.3	0.0	543.1
107.00	Appurtenance(s)	1.00	1.01	8.821	9.70	159.55	0.650	0.000	2.00	5.343	3.47	33.7	0.0	211.0
110.00	Appurtenance(s)	1.00	1.02	8.891	9.78	156.13	0.650	0.000	3.00	7.847	5.10	49.9	0.0	309.8
113.00	Appurtenance(s)	1.00	1.02	8.960	9.86	152.67	0.650	0.000	3.00	7.646	4.97	49.0	0.0	301.8
115.00		1.00	1.03	9.005	9.91	150.33	0.650	0.000	2.00	4.986	3.24	32.1	0.0	196.7
117.00	Appurtenance(s)	1.00	1.03	9.049	9.95	147.97	0.650	0.000	2.00	4.896	3.18	31.7	0.0	193.2
119.00	Appurtenance(s)	1.00	1.04	9.093	10.00	145.60	0.650	0.000	2.00	4.807	3.12	31.3	0.0	189.6
								Totals:	**119.00**			**2,277.0**		**22,901.0**

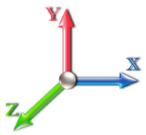
Discrete Appurtenance Forces

Structure:	CT13555-S-SBA	**Code:**	EIA/TIA-222-G	4/20/2021	
Site Name:	Montano	**Exposure:**	B		
Height:	119.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 25	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 17

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	119.00	6' Lightning rod	1	9.093	10.002	1.00	1.00	0.38	6.50	0.000	0.000	3.80	0.00	0.00
2	117.00	Low Profile Platform	1	9.049	9.954	1.00	1.00	22.00	1500.00	0.000	0.000	218.99	0.00	0.00
3	117.00	KRY 112 144/1	3	9.049	9.954	0.58	0.80	0.71	33.00	0.000	0.000	7.06	0.00	0.00
4	117.00	AIR 21 B2A B4P	3	9.049	9.954	0.66	0.80	12.07	274.50	0.000	0.000	120.17	0.00	0.00
5	117.00	Air32	3	9.049	9.954	0.70	0.80	13.59	396.60	0.000	0.000	135.30	0.00	0.00
6	117.00	RFS	3	9.005	9.905	0.56	0.80	34.00	384.00	0.000	-2.000	336.81	0.00	-673.61
7	117.00	Radio 4449 B71+B12	3	9.049	9.954	0.54	0.80	2.65	210.00	0.000	0.000	26.41	0.00	0.00
8	113.00	3 ft Standoff	1	8.960	9.856	1.00	1.00	4.50	120.00	0.000	0.000	44.35	0.00	0.00
9	110.00	AAHC	3	8.891	9.780	0.60	0.80	7.56	312.00	0.000	0.000	73.94	0.00	0.00
10	110.00	VHLP2-18	2	8.891	9.780	1.00	1.00	9.36	54.00	2.291	0.000	91.54	209.73	0.00
11	110.00	dual sector mounts	3	8.891	9.780	1.00	1.00	12.00	1050.00	0.000	0.000	117.36	0.00	0.00
12	107.00	Ring Mount	1	8.821	9.703	1.00	1.00	5.00	350.00	0.000	0.000	48.52	0.00	0.00
13	100.00	Platform w/ Hand Rail	1	8.652	9.517	1.00	1.00	43.80	1875.00	0.000	0.000	416.86	0.00	0.00
14	100.00	DC6-48-60-18-8F	4	8.652	9.517	0.75	0.75	4.41	131.20	0.000	0.000	41.97	0.00	0.00
15	100.00	RRU-32	3	8.652	9.517	0.64	0.75	7.38	231.00	0.000	0.000	70.28	0.00	0.00
16	100.00	RRU-12	6	8.652	9.517	0.53	0.75	8.89	348.00	0.000	0.000	84.60	0.00	0.00
17	100.00	RRU-11	12	8.652	9.517	0.53	0.75	15.99	648.00	0.000	0.000	152.18	0.00	0.00
18	100.00	HPA-65R-BUU-H8	12	8.652	9.517	0.58	0.75	91.00	729.60	0.000	0.000	866.11	0.00	0.00
19	100.00	IBC700-1	3	8.652	9.517	0.68	0.75	2.68	189.90	0.000	0.000	25.50	0.00	0.00
20	100.00	RRUS-A2	6	8.652	9.517	0.46	0.75	5.12	132.00	0.000	0.000	48.75	0.00	0.00
21	90.00	Modified Low Profile	1	8.396	9.235	1.00	1.00	25.00	1500.00	0.000	0.000	230.88	0.00	0.00
22	90.00	Samsung VZS01	3	8.396	9.235	0.52	0.75	6.68	261.30	0.000	0.000	61.65	0.00	0.00
23	90.00	Commscope	6	8.396	9.235	0.62	0.75	30.18	262.20	0.000	0.000	278.71	0.00	0.00
24	90.00	RFS DB-C1-12C-24AB-0Z	1	8.396	9.235	0.66	0.75	2.68	30.00	0.000	0.000	24.75	0.00	0.00
25	90.00	RFS DB-T1-6Z-8AB-0Z	1	8.396	9.235	0.50	0.75	2.81	20.00	0.000	0.000	25.99	0.00	0.00
26	90.00	Andrew LNX-6514DS-A1M	3	8.396	9.235	0.62	0.75	15.26	116.40	0.000	0.000	140.91	0.00	0.00
27	90.00	Samsung B2-B66A	3	8.396	9.235	0.62	0.75	3.51	253.20	0.000	0.000	32.42	0.00	0.00
28	90.00	Samsung B5-B13	3	8.396	9.235	0.59	0.75	3.30	210.90	0.000	0.000	30.47	0.00	0.00
29	90.00	Mod	1	8.396	9.235	1.00	1.00	12.25	514.00	0.000	0.000	113.13	0.00	0.00
							Totals:		**12,143.30**			**3,869.40**		

Total Applied Force Summary

Structure:	CT13555-S-SBA		**Code:**	EIA/TIA-222-G	4/20/2021
Site Name:	Montano		**Exposure:**	B	
Height:	119.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 26

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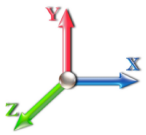
Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 17

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		107.81	1478.36	0.00	0.00
10.00		105.36	1447.17	0.00	0.00
15.00		102.91	1415.98	0.00	0.00
20.00		100.47	1384.79	0.00	0.00
25.00		98.02	1353.60	0.00	0.00
30.00		95.65	1322.41	0.00	0.00
35.00		97.40	1291.23	0.00	0.00
40.00		98.53	1260.04	0.00	0.00
45.00		99.15	1228.85	0.00	0.00
47.00		39.38	482.81	0.00	0.00
50.00		60.23	1278.36	0.00	0.00
53.00		60.21	1257.51	0.00	0.00
55.00		39.98	409.87	0.00	0.00
60.00		100.38	1005.96	0.00	0.00
65.00		99.65	979.23	0.00	0.00
70.00		98.66	952.50	0.00	0.00
75.00		97.44	925.76	0.00	0.00
80.00		96.01	899.03	0.00	0.00
81.00		18.88	176.60	0.00	0.00
85.00		75.25	595.91	0.00	0.00
90.00	(22) attachments	1031.49	3892.84	0.00	0.00
95.00		90.63	691.56	0.00	0.00
100.00	(47) attachments	1794.76	4953.99	0.00	0.00
105.00		86.25	628.51	0.00	0.00
107.00	(1) attachments	82.22	595.17	0.00	0.00
110.00	(8) attachments	332.73	1777.06	209.73	0.00
113.00	(1) attachments	93.33	463.08	0.00	0.00
115.00		32.10	224.27	0.00	0.00
117.00	(16) attachments	876.42	3018.80	0.00	-673.61
119.00	(1) attachments	35.05	196.12	0.00	0.00
	Totals:	**6,146.35**	**37,587.38**	**209.73**	**-673.61**

Calculated Forces

Structure:	CT13555-S-SBA	**Code:**	EIA/TIA-222-G	4/20/2021	
Site Name:	Montano	**Exposure:**	B		
Height:	119.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 27	

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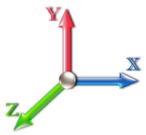
Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 17

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-37.59	-6.15	-0.21	-539.35	0.00	539.35	5484.43	2742.22	13159.3	6589.47	0.00	0.000	0.000	0.089
5.00	-36.11	-6.06	-0.21	-508.59	0.00	508.59	5405.01	2702.51	12673.3	6346.09	0.01	-0.021	0.000	0.087
10.00	-34.66	-5.97	-0.21	-478.30	0.00	478.30	5323.53	2661.77	12191.2	6104.68	0.05	-0.043	0.000	0.085
15.00	-33.24	-5.87	-0.21	-448.47	0.00	448.47	5239.98	2619.99	11713.4	5865.43	0.10	-0.065	0.000	0.083
20.00	-31.85	-5.78	-0.21	-419.11	0.00	419.11	5154.37	2577.18	11240.2	5628.50	0.18	-0.086	0.000	0.081
25.00	-30.50	-5.69	-0.21	-390.19	0.00	390.19	5066.69	2533.35	10772.0	5394.05	0.28	-0.108	0.000	0.078
30.00	-29.17	-5.61	-0.21	-361.72	0.00	361.72	4976.95	2488.47	10309.2	5162.27	0.41	-0.130	0.000	0.076
35.00	-27.88	-5.52	-0.21	-333.68	0.00	333.68	4885.14	2442.57	9851.98	4933.31	0.56	-0.152	0.000	0.073
40.00	-26.62	-5.43	-0.21	-306.09	0.00	306.09	4791.27	2395.63	9400.73	4707.35	0.73	-0.174	0.000	0.071
45.00	-25.39	-5.33	-0.21	-278.96	0.00	278.96	4695.33	2347.66	8955.81	4484.56	0.92	-0.196	0.000	0.068
47.00	-24.90	-5.29	-0.21	-268.30	0.00	268.30	4656.37	2328.19	8779.69	4396.37	1.01	-0.205	0.000	0.066
50.00	-23.62	-5.23	-0.21	-252.43	0.00	252.43	4597.32	2298.66	8517.56	4265.11	1.14	-0.218	0.000	0.064
53.00	-22.37	-5.17	-0.21	-236.73	0.00	236.73	3769.04	1884.52	6995.75	3503.08	1.28	-0.231	0.000	0.074
55.00	-21.95	-5.14	-0.21	-226.38	0.00	226.38	3738.97	1869.49	6858.18	3434.19	1.38	-0.239	0.000	0.072
60.00	-20.95	-5.04	-0.21	-200.70	0.00	200.70	3662.35	1831.18	6517.42	3263.55	1.64	-0.262	0.000	0.067
65.00	-19.97	-4.94	-0.21	-175.50	0.00	175.50	3583.67	1791.83	6181.48	3095.34	1.93	-0.284	0.000	0.062
70.00	-19.01	-4.85	-0.21	-150.78	0.00	150.78	3502.92	1751.46	5850.70	2929.70	2.24	-0.305	0.000	0.057
75.00	-18.09	-4.75	-0.21	-126.55	0.00	126.55	3420.10	1710.05	5525.41	2766.81	2.57	-0.324	0.000	0.051
80.00	-17.19	-4.65	-0.21	-102.80	0.00	102.80	3335.22	1667.61	5205.95	2606.84	2.92	-0.342	0.000	0.045
81.00	-17.01	-4.63	-0.21	-98.15	0.00	98.15	3318.00	1659.00	5142.79	2575.22	2.99	-0.345	0.000	0.043
81.00	-17.01	-4.63	-0.21	-98.15	0.00	98.15	2626.87	1313.44	4085.05	2045.56	2.99	-0.345	0.000	0.054
85.00	-16.41	-4.56	-0.21	-79.61	0.00	79.61	2576.62	1288.31	3894.21	1950.00	3.29	-0.358	0.000	0.047
90.00	-12.53	-3.51	-0.21	-56.81	0.00	56.81	2511.95	1255.98	3659.15	1832.29	3.67	-0.373	0.000	0.036
95.00	-11.83	-3.41	-0.21	-39.28	0.00	39.28	2445.22	1222.61	3428.26	1716.68	4.07	-0.385	0.000	0.028
100.00	-6.89	-1.59	-0.21	-22.22	0.00	22.22	2376.41	1188.21	3201.88	1603.32	4.48	-0.394	0.000	0.017
105.00	-6.26	-1.50	-0.21	-14.29	0.00	14.29	2305.55	1152.77	2980.36	1492.40	4.89	-0.400	-0.001	0.012
107.00	-5.67	-1.41	-0.21	-11.30	0.00	11.30	2276.62	1138.31	2893.19	1448.75	5.06	-0.402	-0.001	0.010
110.00	-3.89	-1.06	0.00	-7.07	0.00	7.07	2225.68	1112.84	2755.45	1379.77	5.31	-0.404	-0.001	0.007
113.00	-3.43	-0.97	0.00	-3.88	0.00	3.88	2167.31	1083.66	2612.10	1307.99	5.57	-0.405	-0.001	0.005
115.00	-3.21	-0.93	0.00	-1.94	0.00	1.94	2128.40	1064.20	2518.66	1261.20	5.74	-0.406	-0.001	0.003
117.00	-0.20	-0.04	0.00	-0.07	0.00	0.07	2089.48	1044.74	2426.92	1215.26	5.91	-0.406	-0.001	0.000
119.00	0.00	-0.03	0.00	0.00	0.00	0.00	2050.57	1025.29	2336.89	1170.18	6.08	-0.406	-0.001	0.000

Final Analysis Summary

Structure:	CT13555-S-SBA	**Code:**	EIA/TIA-222-G	4/20/2021	
Site Name:	Montano	**Exposure:**	B		
Height:	119.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 28	

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Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.6W 97 mph Wind	25.7	0.00	45.08	0.00	0.55	2262.44
0.9D + 1.6W 97 mph Wind	25.7	0.00	33.81	0.00	0.55	2251.87
1.2D + 1.0Di + 1.0Wi 50 mph Wind	7.3	0.00	82.12	0.00	0.20	629.92
1.2D + 1.0E	1.9	0.00	45.10	0.00	0.00	179.59
0.9D + 1.0E	1.9	0.00	33.83	0.00	0.00	178.60
1.0D + 1.0W 60 mph Wind	6.2	0.00	37.59	0.00	0.21	539.35

Max Stresses

Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.6W 97 mph Wind	-45.08	-25.74	-0.55	-2262.4	0.00	-2262.4	5484.43	2742.2	13159.3	6589.47	0.00	0.352
0.9D + 1.6W 97 mph Wind	-33.81	-25.73	-0.55	-2251.8	0.00	-2251.8	5484.43	2742.2	13159.3	6589.47	0.00	0.348
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-82.12	-7.26	-0.20	-629.92	0.00	-629.92	5484.43	2742.2	13159.3	6589.47	0.00	0.111
1.2D + 1.0E	-45.10	-1.86	0.00	-179.59	0.00	-179.59	5484.43	2742.2	13159.3	6589.47	0.00	0.035
0.9D + 1.0E	-33.83	-1.86	0.00	-178.60	0.00	-178.60	5484.43	2742.2	13159.3	6589.47	0.00	0.033
1.0D + 1.0W 60 mph Wind	-37.59	-6.15	-0.21	-539.35	0.00	-539.35	5484.43	2742.2	13159.3	6589.47	0.00	0.089

Pier Foundation Design For Monopole

				Date
				4/20/2021
Customer Name:	Verizon	**EIA/TIA Standard:**	EIA-222-G
Site Name:		**Structure Height (Ft.):**	119
Site Number:	CT13555-S-SBA	**Engineer Name:**	H. You
Engr. Number:	105902	**Engineer Login ID:**	

Foundation Info Obtained from: Drawings/Calculations

Structure Type: Monopole

Analysis or Design? Analysis

Base Reactions (Factored):

Axial Load (Kips):	45.1	Shear Force (Kips):	25.7
Uplift Force (Kips):	0.0	Moment (Kips-ft):	2262.4

Foundation Geometries:

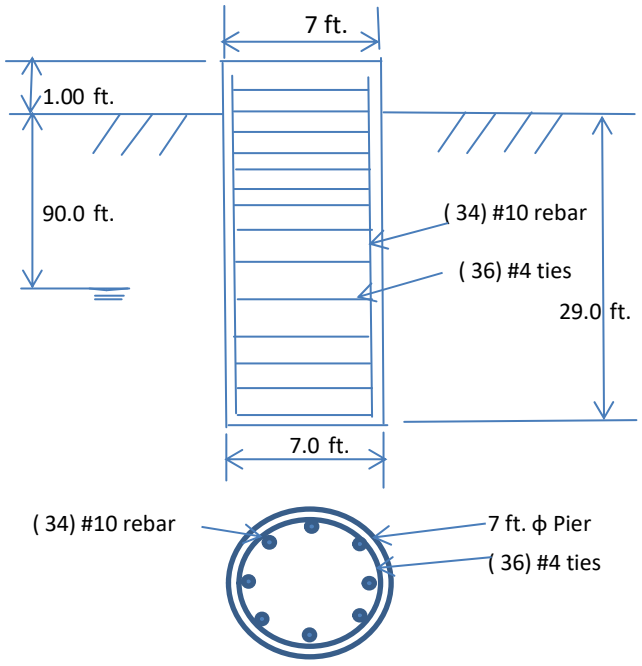
Diameter of Pier (ft.):	7.0	Depth of Base B. G. S. :	29.0	ft.
Pier Height A. G. (ft.):	1.00			

Material Properties and Reabr Info:

Concrete Strength (psi):	4000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield strength:	60	ksi
Vertical Rebar Size #:	10	Tie / Stirrup Size #:	4	
Qty. of Vertical Rebars:	34	Tie Spacing:	12.0	in.
Concrete Cover (in.):	3	Concrete unit weight:	150.0	pcf

Soil Design Parameters:

Water Table B.G.S. (ft):	90.0	Unit weight of water:	62.4	psf
Ratio of Uplift/Axial Skin Friction:	1.0	Pullout failure Angle:	30	(°)
Skin Frictions are to be obtained from:		Soil Report		



Monopole Pier Foundation

Depth of Layers (ft) Top	Bottom	γ_{soil} (pcf)	ϕ (°)	Cohesion (psf)	Ultimate Skin Friction (psf)	Ultimate Bearing (psf)	Soil Types
0.0	3.0	100	0	0	0	0	Sand
3.0	25.0	110	33	0	1000	0	Sand
25.0	30.0	105	30	0	1600	12000	Silt
30.0	35.0						

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

Foundation Analysis and Design:

Uplift Strength Reduction Factor:	0.75	Soil Bearing Strength Reduction Factor:	0.75	
Total Dry Soil Volume from Conical Failure (cu. Ft.):	13814	Dry Soil Weight from Conical Failure:	1281	Kips
Total Buoyant Soil Volume from Conical Failure (cu. Ft.):	0	Buoyant Soil Weight from Conical Failure (K	0	Kips
Total Dry Concrete Volume (cu. Ft.):	1155	Total Dry Concrete Weight:	173.2	Kips
Total Buoyant Concrete Volume (cu. Ft.):	0.0	Total Buoyant Concrete Weight:	0.00	Kips
Total Effective Concrete Weight (Kips):	173.2	Total Effective Soil Weight:	1280.7	Kips
Total Effective Vertical Load on Base (Kips):	114.8			

Check Soil Capacities:

					Usage	
Allowable Foundation Overturning Resistance (kips-ft.):	10741.0	>	Design Factored Moment (kips-ft):	2788	0.26	OK!
Factor of Safety of Passive Soil Resistance against Moment:	3.85	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 compresion):	0.65	Wind Load Factor on Concrete Design:	1.00

Reinforcing Concrete Pier:

					Usage	
Vertical Steel Rebar Area (sq. in./each):	1.27		Tie / Stirrup Area (sq. in./each):	0.20		
Calculated Moment Capacity (Mn,Kips-Ft):	7102.8	>	Design Factored Moment (Mu, K-Ft):	2373.4	0.33	OK!
Calculated Shear Capacity (Kips):	1120.9	>	Design Factored Shear (Kips):	216.6	0.19	OK!
Calculated Tension Capacity (Tn, Kips):	2331.7	>	Design Factored Tension (Tu Kips):	0.0	0.00	OK!
Calculated Compression Capacity (Pn, Kips):	9722	>	Design Factored Axial Load (Pu Kips):	45.1	0.00	OK!
Moment & Axial Strength Combination:	0.33	OK!	Max. Allowable Tie/Stirrup Spacing:	12.00	in.	
Pier Reinforcement Ratio:	0.008	Reinforcement Ratio is satisfied per ACI				

Tower Engineering Solutions, LLC

June 14, 2021

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

Re: Verizon Wireless antenna Model Clarification for CT Siting Council

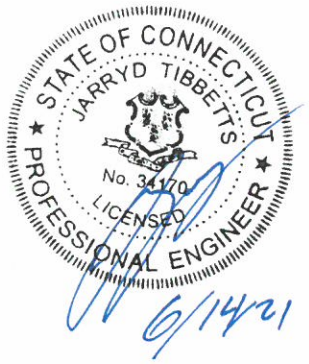
Dear Mr. Leone,

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

The antenna naming convention "Licensed Sub-6, L-Sub6, nL-Sub6, VZS01" and any other slight variants refer to the 64T64RMMU, Model Code: MT6407-77A manufactured by Samsung Electronics. These names are interchangeable and are used in various documents, including but not limited to the "Structural Analysis".

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

Sincerely,
Tower Engineering Solutions, LLC



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

Maser Consulting Connecticut
2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
(856) 797-0412
gdulnik@maserconsulting.com

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10037719
Maser Consulting Connecticut Project #: 20777627A

February 19, 2021

Site Information	*Site ID:*	*469043-VZW / GLASTONBURY NEIPSIC CT*
	Site Name:	*GLASTONBURY NEIPSIC CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*58A Montano Drive* *Glastonbury, Connecticut 06033* *Hartford County*
	Latitude:	*41.69944444°*
	Longitude:	*-72.56400000°*
Structure Information	*Tower Type:*	*120-Ft Monopole*
	Mount Type:	*12.50-Ft Platform*

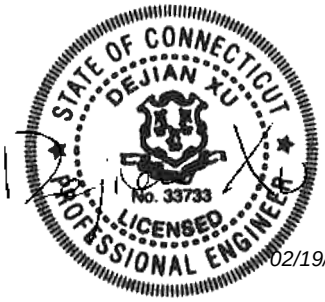
FUZE ID # 16232059

Analysis Results

Platform: **40.8% 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: Taqi Khawaja



02/19/2021

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	*Verizon RFDS Site ID: 2520269, dated December 15, 2020*
Mount Mapping Report	*RKS Design & Engineering LLC Site ID: SBA: CT13555, dated January 10, 2021*
Previous Mount Analysis	*Maser Consulting, Project # 20777627A, dated January 21, 2021*
Mount Modification Drawing	*Maser Consulting, Project # 20777627A, dated February 19, 2021*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	119 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.50 in
	Risk Category:	II
	Exposure Category:	B
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.991
Seismic Parameters:	S_S:	0.198
	S_1:	0.055
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 mount:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
88.00	90.00	6	Commscope	NHH-65B-R2B	Added
		3	-	VZS01	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		1	Raycap	RVZDC-6627-PF-48	
		3	Andrew	LNX-6514DS-A1M	Retained

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Maser Consulting 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 is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

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

8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

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

Analysis Results:

Component	Utilization %	Pass/Fail
Support Rail Corner Angle	*29.7%*	*Pass*
Proposed Support Rail	*16.6%*	*Pass*
Mount Pipe	*32.3%*	*Pass*
Face Horizontal	*17.9%*	*Pass*
Corner Plate	*24.3%*	*Pass*
Cross Arm Plate	*40.8%*	*Pass*
Grating Support	*10.6%*	*Pass*
Platform Crossmember	*19.1%*	*Pass*
Standoff Horizontal	*35.6%*	*Pass*
Mount Connection	*38.8%*	*Pass*

Structure Rating – *(Controlling Utilization of all Components)*	**40.8%**

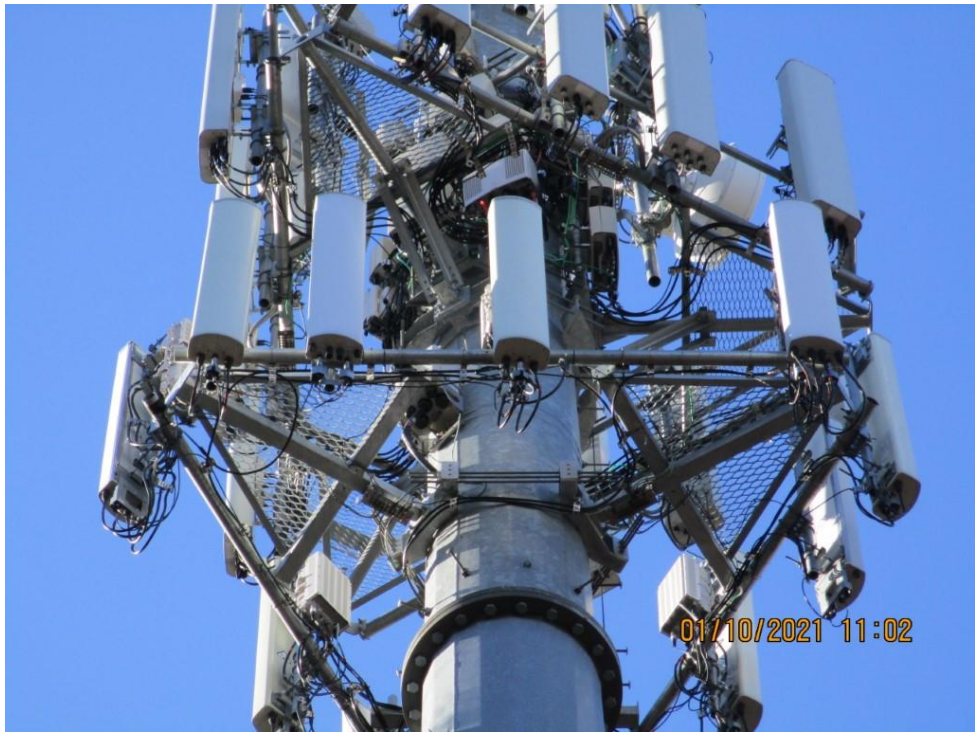
Recommendation:

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

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

Attachments:

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


01/10/2021 11:02

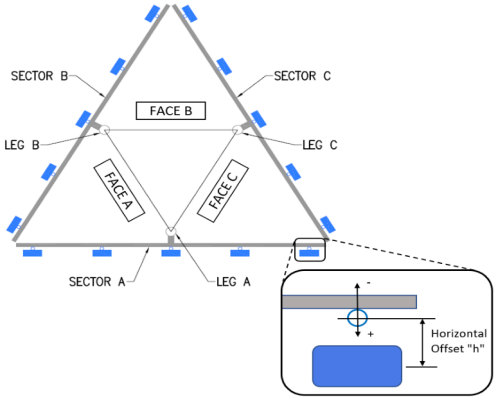
V3.0 Updated on 8-31-2020

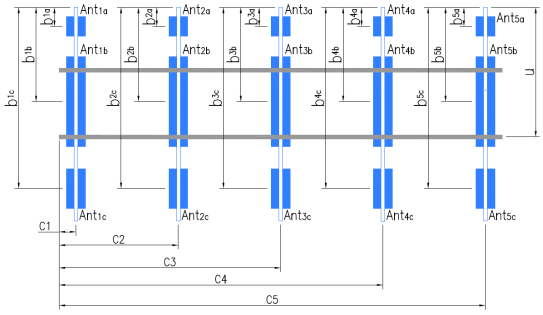
Antenna Mount Mapping Form (PATENT PENDING)

FCC # 1263073

Tower Owner:	SBA	**Mapping Date:**	1/10/2021
Site Name:	VZW: Glastonbury Neipsic Ct	**Tower Type:**	Monopole
Site Number or ID:	SBA: CT13555	**Tower Height (Ft.):**	120
Mapping Contractor:	RKS Design & Engineering LLC	**Mount Elevation (Ft.):**	85.83

Please insert the sketches of the antenna mount from the "Sketches" tab with dimensions and members here.





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 2.375"Ø X 0.15" X 72.25" Lo	48.50	10.00	C1	Pipe 2.375"Ø X 0.15" X 72.25" Long	48.50	10.00
A2	Pipe 2.375"Ø X 0.15" X 72.25" Lo	48.50	75.75	C2	Pipe 2.375"Ø X 0.15" X 72.25" Long	48.50	75.75
A3	Pipe 2.375"Ø X 0.15" X 72.25" Lo	48.50	116.00	C3	Pipe 2.375"Ø X 0.15" X 72.25" Long	48.50	116.00
A4	Pipe 2.375"Ø X 0.15" X 72.25" Lo	48.50	139.75	C4	Pipe 2.375"Ø X 0.15" X 72.25" Long	48.50	139.75
A5				C5			
A6				C6			
B1	Pipe 2.375"Ø X 0.15" X 72.25" Lo	48.50	10.00	D1			
B2	Pipe 2.375"Ø X 0.15" X 72.25" Lo	48.50	75.75	D2			
B3	Pipe 2.375"Ø X 0.15" X 72.25" Lo	48.50	116.00	D3			
B4	Pipe 2.375"Ø X 0.15" X 72.25" Lo	48.50	139.75	D4			
B5				D5			
B6				D6			

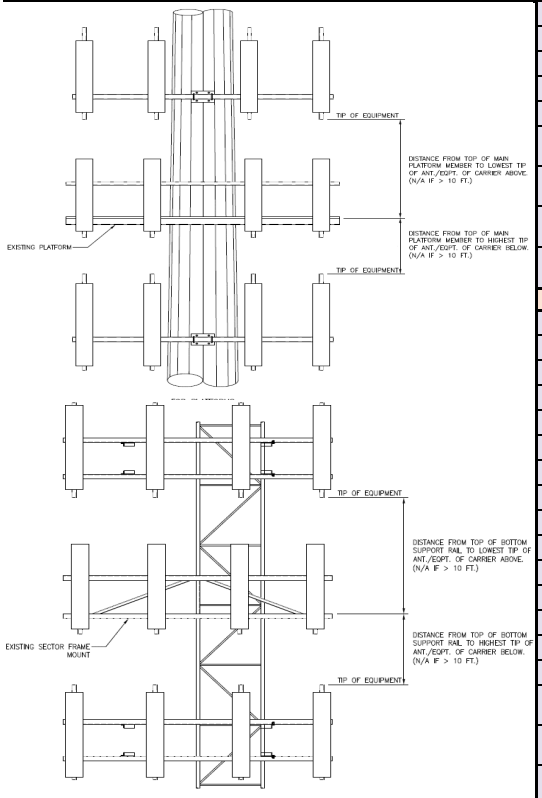
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :	
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	9
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	
Please enter additional infomation or comments below.	

Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	36.75

	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}	B4 RRH2X60-4R	10.63	5.75	36.60		88.1008	21.25	-7.00		14, 255
Ant_{1b}	HBXX-6517DS-A2M	12.00	6.50	74.90		87.1217	33.00	9.00	50.00	14, 255
Ant_{1c}										
Ant_{2a}	B13 RRH 4X30	11.80	7.50	20.90		87.8717	24.00	-6.75		14, 256
Ant_{2b}	LNX-6514DS-A1M	11.90	7.10	72.90		87.2467	31.50	7.50	50.00	14, 256
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	HBXX-6517DS-A2M	12.00	6.50	74.90		87.1633	32.50	9.00	50.00	14, 257
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	LNX-6514DS-A1M	11.90	7.10	72.90		87.08	33.50	7.50	50.00	14, 257
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower	RC3DC-3315-PF-48	15.73	10.30	28.93			48.00			14, 224
Ant on Tower										

Mount Azimuth (Degree) for Each Sector			Tower Leg Azimuth (Degree) for Each Sector		
Sector A:	60.00	Deg	Leg A:		Deg
Sector B:	180.00	Deg	Leg B:		Deg
Sector C:	300.00	Deg	Leg C:		Deg
Sector D:		Deg	Leg D:		Deg

Climbing Facility Information		
Location:	290.00 Deg	N/A
Climbing Facility	Corrosion Type:	N/A
	Access:	Climbing path was unobstructed.
	Condition:	Good condition.



Sector B										
Ant_{1a}	B4 RRH2X60-4R	10.63	5.75	36.60		88.1008	21.25	-7.00		21, 259
Ant_{1b}	HBXX-6517DS-A2M	12.00	6.50	74.90		87.1217	33.00	9.00	195.00	21, 259
Ant_{1c}										
Ant_{2a}	B13 RRH 4X30	11.80	7.50	20.90		87.8717	24.00	-6.75		21, 260
Ant_{2b}	LNX-6514DS-A1M	11.90	7.10	72.90		87.2467	31.50	7.50	195.00	21, 260
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	HBXX-6517DS-A2M	12.00	6.50	74.90		87.1633	32.50	9.00	195.00	21, 261
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	LNX-6514DS-A1M	11.90	7.10	72.90		87.08	33.50	7.50	195.00	21, 261
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower	RC3DC-3315-PF-48	15.73	10.30	28.93			48.00			21, 232
Ant on Tower										
Sector C										
Ant_{1a}	B4 RRH2X60-4R	10.63	5.75	36.60		88.1008	21.25	-7.00		28, 264
Ant_{1b}	HBXX-6517DS-A2M	12.00	6.50	74.90		87.1217	33.00	9.00	300.00	28, 264
Ant_{1c}										
Ant_{2a}	B13 RRH 4X30	11.80	7.50	20.90		87.8717	24.00	-6.75		28, 265
Ant_{2b}	LNX-6514DS-A1M	11.90	7.10	72.90		87.2467	31.50	7.50	300.00	28, 265
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	HBXX-6517DS-A2M	12.00	6.50	74.90		87.1633	32.50	9.00	300.00	28, 266
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	LNX-6514DS-A1M	11.90	7.10	72.90		87.08	33.50	7.50	300.00	28, 267
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
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	COAX:TOTAL(2): (2)1.5"Ø	
2		
3		
4		
5		
6		
7		
8		

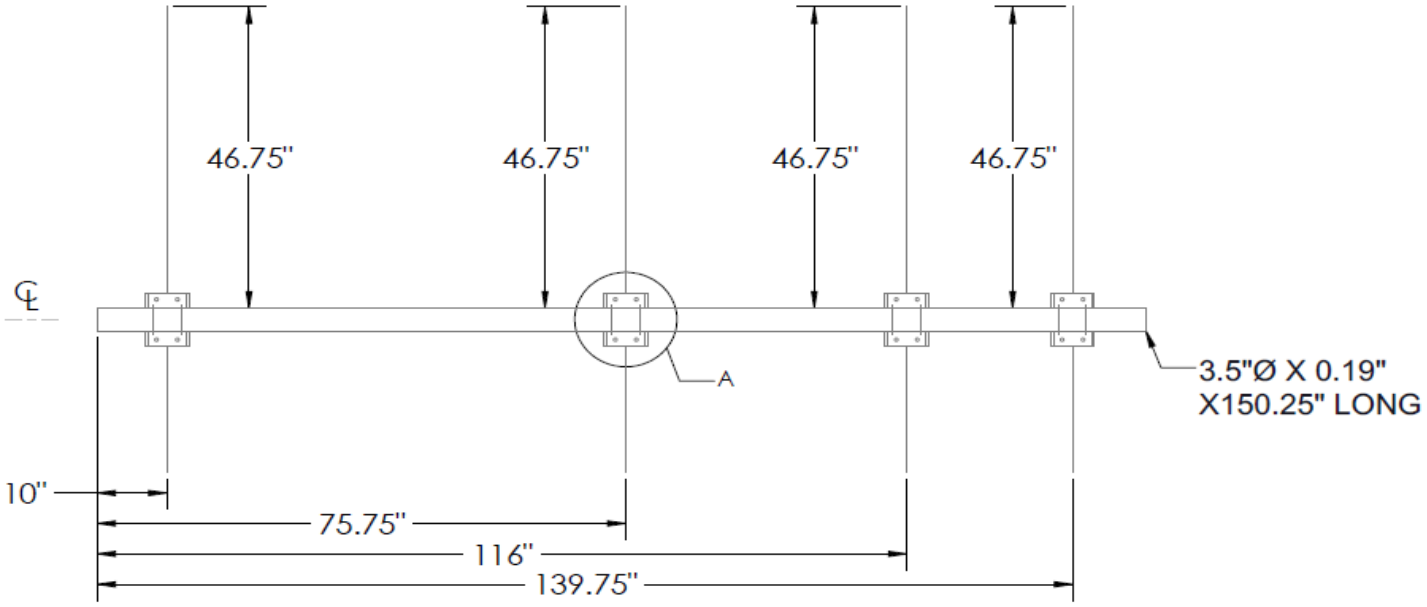
Mapping Notes
1. Please report any visible structural or safety issues observed on the antenna mounts (Damaged members, loose connections, tilting mounts, safety climb issues, etc.)
2. If the thickness of the existing pipes or tubing can't be obtained from a general tool (such as Caliper), please use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

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

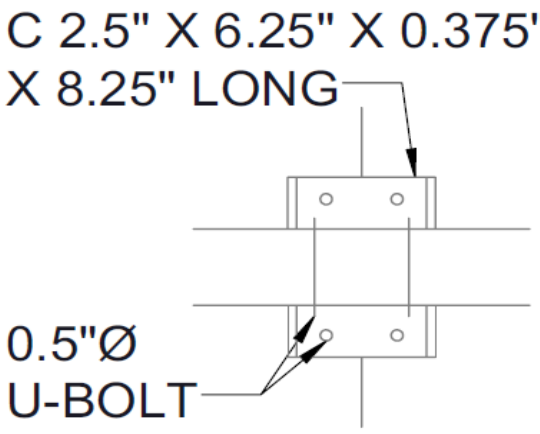
V3.0 Updated on 8-31-2020

Antenna Mount Mapping Form (PATENT PENDING)			FCC #
			1263073
Tower Owner:	SBA	**Mapping Date:**	1/10/2021
Site Name:	VZW: Glastonbury Neipsic Ct	**Tower Type:**	Monopole
Site Number or ID:	SBA: CT13555	**Tower Height (Ft.):**	120
Mapping Contractor:	RKS Design & Engineering LLC	**Mount Elevation (Ft.):**	85.83

Please Insert Sketches of the Antenna Mount

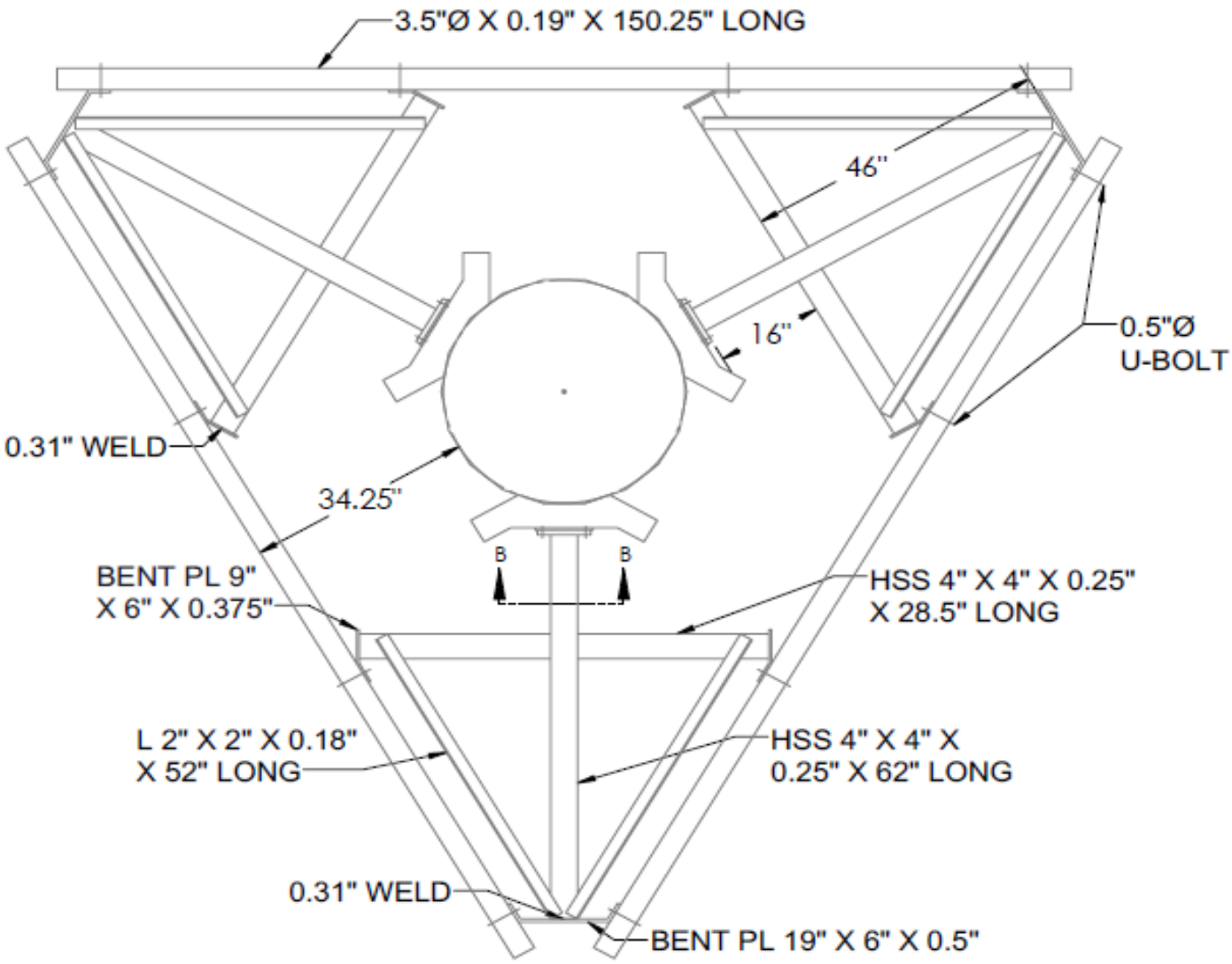


SECTOR A, B & C

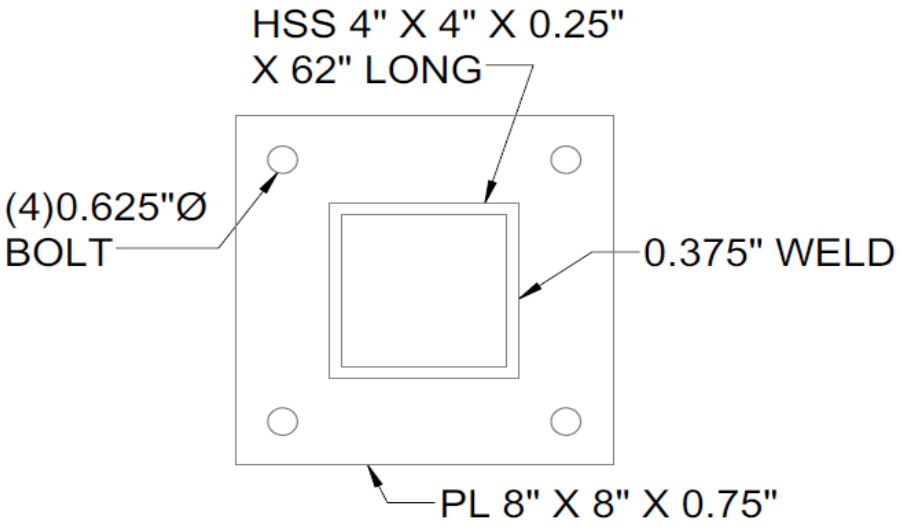


DETAIL A

Please Insert Sketches of the Antenna Mount, cont'd

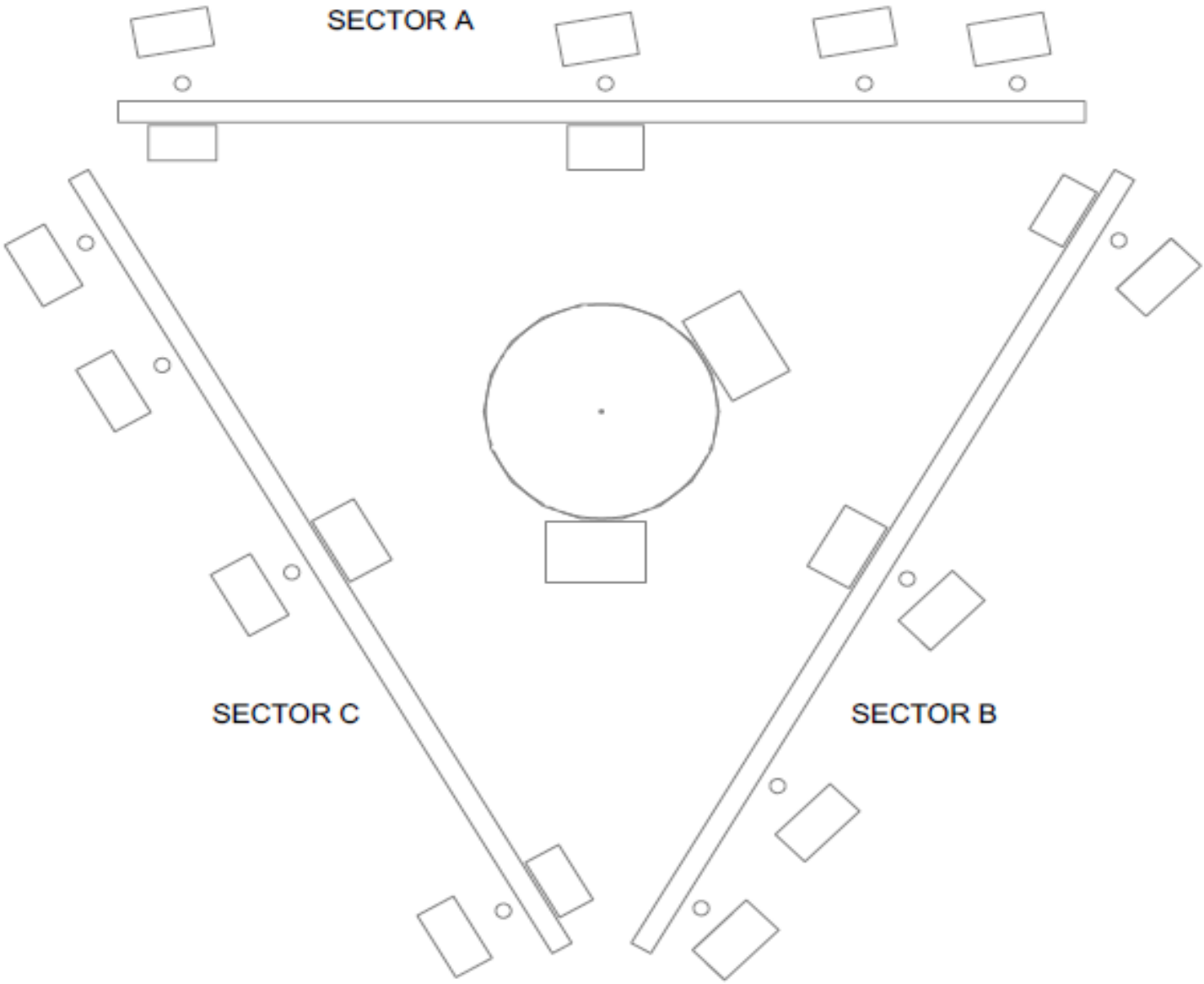


MOUNT PLAN VIEW

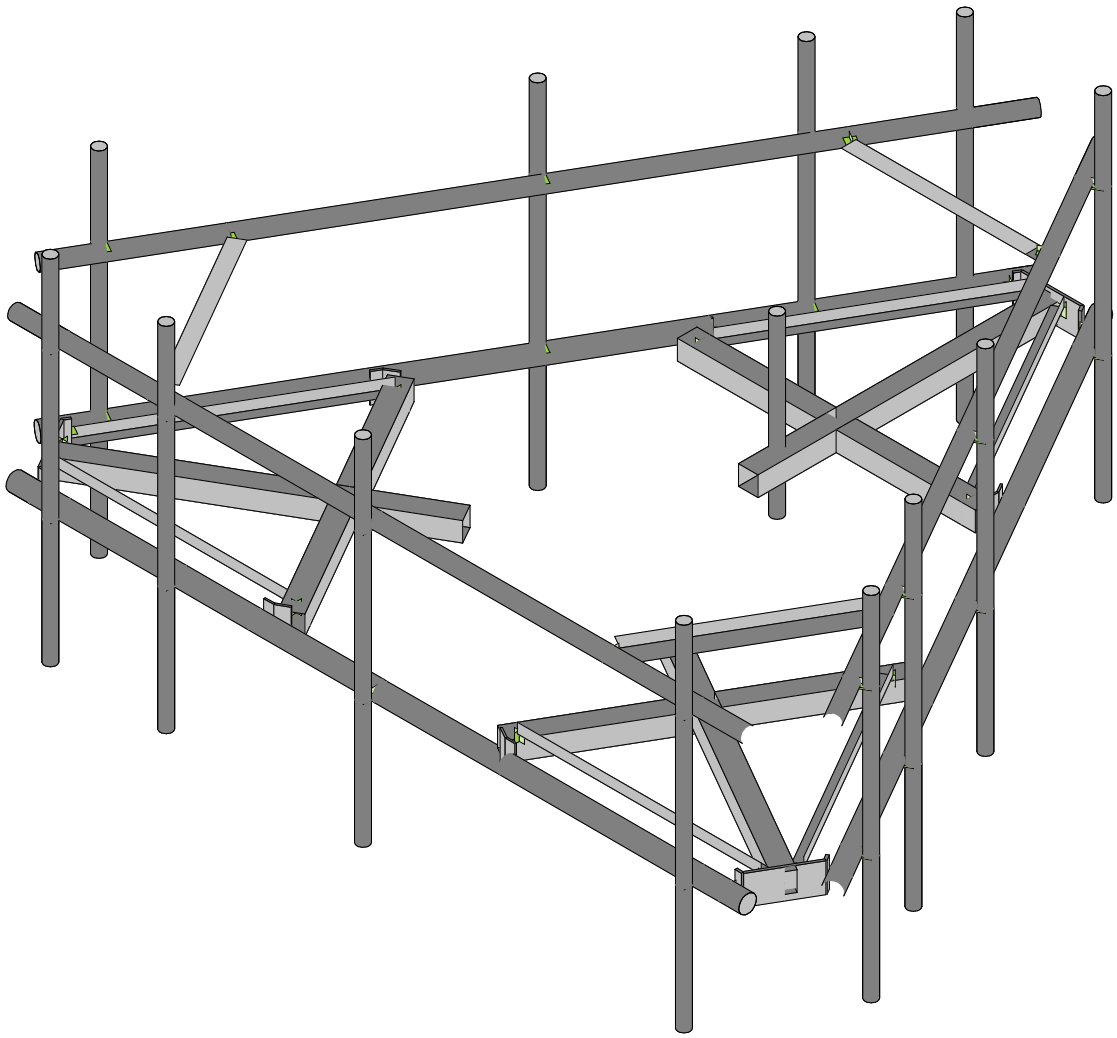


SECTION B-B

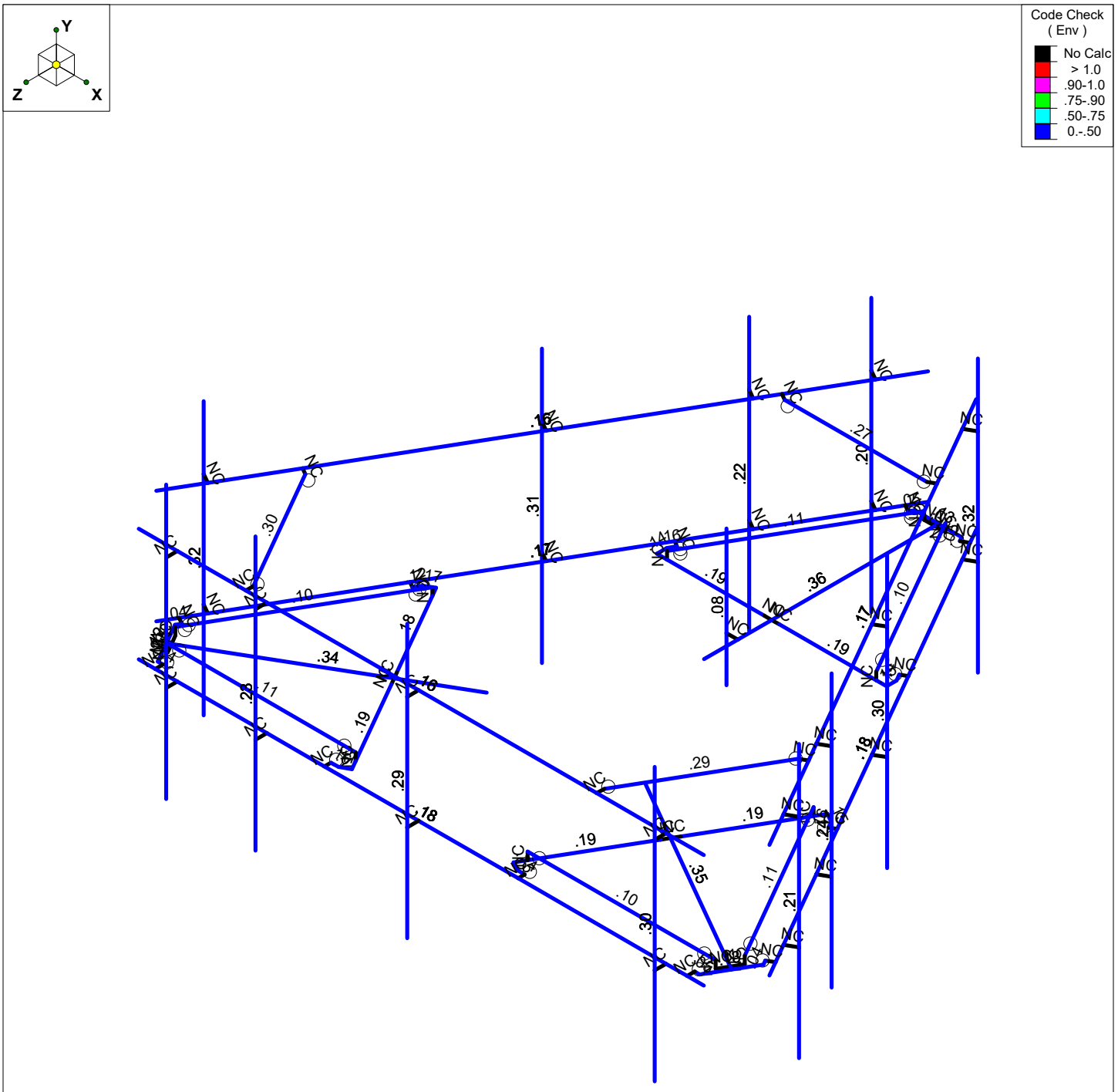
Please Insert Sketches of the Antenna Mount, cont'd



ANTENNA PLAN VIEW

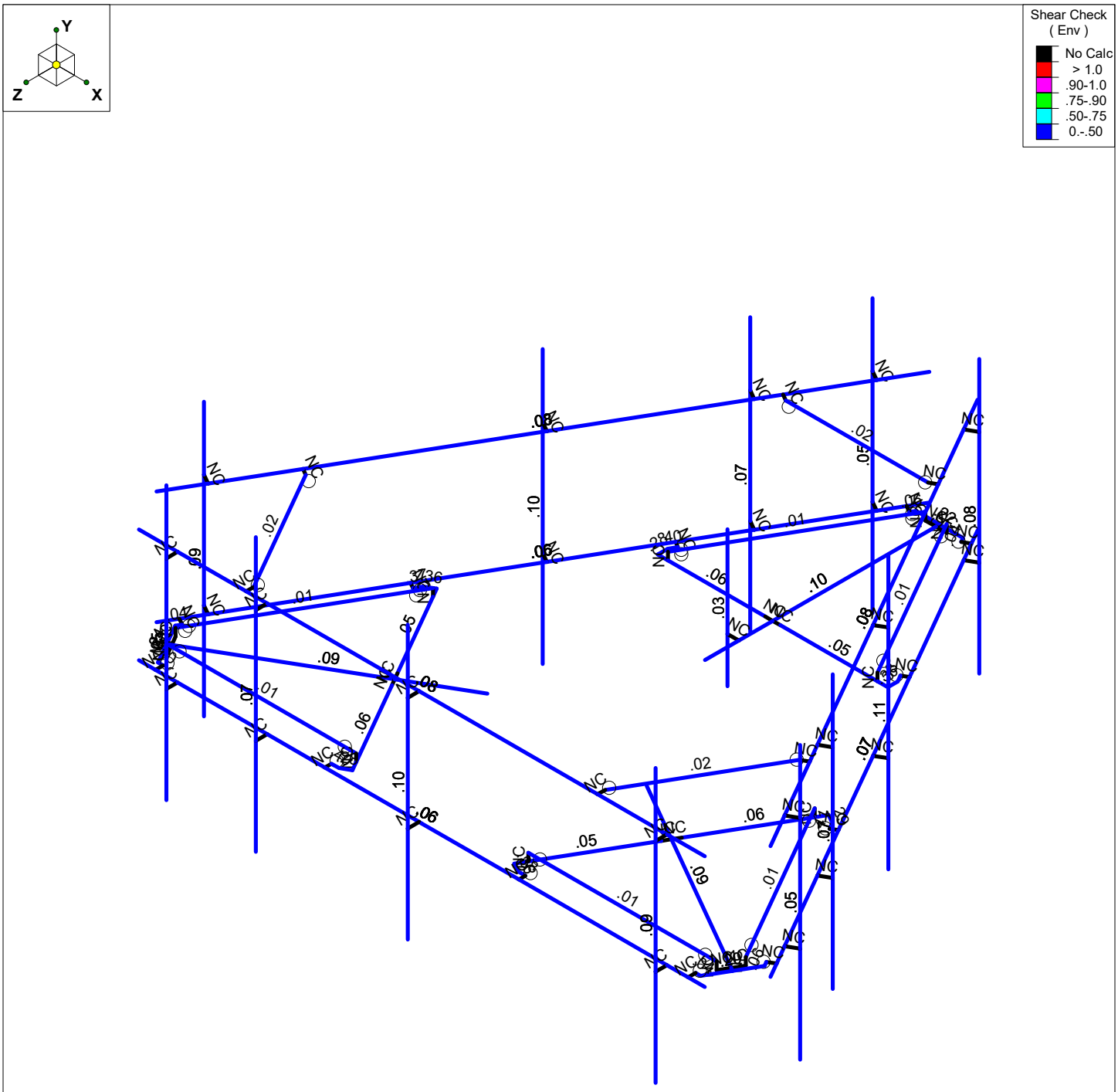


		SK - 1
		Feb 19, 2021 at 1:20 PM
		469043-VZW_MT_LO_H.r3d



Member Code Checks Displayed (Enveloped)
Results for LC 1, 1.2D+1.0Wo (0 Deg)

		SK - 2
		Feb 19, 2021 at 1:20 PM
		469043-VZW_MT_LO_H.r3d



Member Shear Checks Displayed (Enveloped)
Results for LC 1, 1.2D+1.0Wo (0 Deg)

		SK - 3
		Feb 19, 2021 at 1:20 PM
		469043-VZW_MT_LO_H.r3d

Basic Load Cases

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

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
57	Structure Wi (120 De...	None						116		
58	Structure Wi (150 De...	None						116		
59	Structure Wi (180 De...	None						116		
60	Structure Wi (210 De...	None						116		
61	Structure Wi (240 De...	None						116		
62	Structure Wi (270 De...	None						116		
63	Structure Wi (300 De...	None						116		
64	Structure Wi (330 De...	None						116		
65	Structure Wm (0 Deg)	None						116		
66	Structure Wm (30 De...	None						116		
67	Structure Wm (60 De...	None						116		
68	Structure Wm (90 De...	None						116		
69	Structure Wm (120 D...	None						116		
70	Structure Wm (150 D...	None						116		
71	Structure Wm (180 D...	None						116		
72	Structure Wm (210 D...	None						116		
73	Structure Wm (240 D...	None						116		
74	Structure Wm (270 D...	None						116		
75	Structure Wm (300 D...	None						116		
76	Structure Wm (330 D...	None						116		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	BLC 39 Transient Are...	None						30		
82	BLC 40 Transient Are...	None						30		

Load Combinations

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

Load Combinations (Continued)

	Description	Solve	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
27	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1										
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5														
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5														
51	1.4D	Yes	Y		1	1.4	39	1.4																
52	Seismic Mass		Y		1	1	39	1																
53	1.2D + 1.0Ev + 1.0Eh ...		Y		1	1.2	39	1.2	SX		SY	1	SZ	-1										
54	1.2D + 1.0Ev + 1.0Eh ...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.8...										
55	1.2D + 1.0Ev + 1.0Eh ...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5										
56	1.2D + 1.0Ev + 1.0Eh ...		Y		1	1.2	39	1.2	SX	1	SY	1	SZ											
57	1.2D + 1.0Ev + 1.0Eh ...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5										
58	1.2D + 1.0Ev + 1.0Eh ...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866										
59	1.2D + 1.0Ev + 1.0Eh ...		Y		1	1.2	39	1.2	SX		SY	1	SZ	1										
60	1.2D + 1.0Ev + 1.0Eh ...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866										
61	1.2D + 1.0Ev + 1.0Eh ...		Y		1	1.2	39	1.2	SX	-.8...	SY	1	SZ	.5										
62	1.2D + 1.0Ev + 1.0Eh ...		Y		1	1.2	39	1.2	SX	-1	SY	1	SZ											
63	1.2D + 1.0Ev + 1.0Eh ...		Y		1	1.2	39	1.2	SX	-.8...	SY	1	SZ	-.5										
64	1.2D + 1.0Ev + 1.0Eh ...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.8...										

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N3	-0.	0	-2.03125	0	
2	N5	-2.541667	0	-3.53125	0	
3	N6	2.315104	0.166667	-3.53125	0	
4	N7	-2.315104	0.166667	-3.53125	0	
5	N24	-0.	0	-3.53125	0	
6	N27	-0.	0	-7.21875	0	
7	CP	0	0	0	0	
8	N29	2.315104	0	-3.53125	0	
9	N30	-2.315104	0	-3.53125	0	
10	N101	2.541667	0	-3.53125	0	
11	N102	-0.166667	0	-3.53125	0	
12	N103A	0.166667	0	-3.53125	0	
13	N104A	-2.541667	0	-3.75	0	
14	N105	2.541667	0	-3.75	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
15	N131	2.458333	0	-3.894338	0	
16	N135	0.571615	0	-7.121773	0	
17	N144	-2.458333	0	-3.894338	0	
18	N148	-0.571615	0	-7.121773	0	
19	N86A	2.584629	0	-3.967254	0	
20	N86B	-2.584629	0	-3.967254	0	
21	N86C	-0.515625	0	-7.21875	0	
22	N87A	0.515625	0	-7.21875	0	
23	N86D	0.715429	0	-7.204804	0	
24	N86E	-0.715429	0	-7.204804	0	
25	N88A	-0.	0	-7.135417	0	
26	N87C	0.234238	0.166667	-7.135417	0	
27	N86G	0.234238	0	-7.135417	0	
28	N87B	-0.234238	0.166667	-7.135417	0	
29	N88C	-0.234238	0	-7.135417	0	
30	N140B	-0.	0	-2.78125	0	
31	N141A	-.25	0	-2.78125	0	
32	N142A	-.25	2	-2.78125	0	
33	N143	-.25	-1	-2.78125	0	
34	N177A	-1.759114	0	1.015625	0	
35	N178A	-1.787319	0	3.966773	0	
36	N179A	-4.215704	0.166667	-0.239314	0	
37	N180A	-1.9006	0.166667	3.770564	0	
38	N181A	-3.058152	0	1.765625	0	
39	N182A	-6.251621	0	3.609375	0	
40	N183A	-4.215704	0	-0.239314	0	
41	N184A	-1.9006	0	3.770564	0	
42	N185A	-4.328986	0	-0.435523	0	
43	N186A	-2.974819	0	1.909963	0	
44	N187A	-3.141486	0	1.621287	0	
45	N188A	-1.976762	0	4.076148	0	
46	N189A	-4.518429	0	-0.326148	0	
47	N190A	-4.601762	0	-0.18181	0	
48	N191A	-6.453444	0	3.065854	0	
49	N192A	-2.143429	0	4.076148	0	
50	N193A	-5.881829	0	4.055919	0	
51	N194A	-4.728058	0	-0.254727	0	
52	N195A	-2.143429	0	4.221982	0	
53	N196A	-5.993808	0	4.055919	0	
54	N197A	-6.509433	0	3.162831	0	
55	N198A	-6.597258	0	2.982823	0	
56	N199A	-5.881829	0	4.221982	0	
57	N200A	-6.179452	0	3.567708	0	
58	N201A	-6.296571	0.166667	3.364853	0	
59	N202A	-6.296571	0	3.364853	0	
60	N203A	-6.062333	0.166667	3.770564	0	
61	N204A	-6.062333	0	3.770564	0	
62	N209A	1.759114	0	1.015625	0	
63	N210A	4.328986	0	-0.435523	0	
64	N211A	1.9006	0.166667	3.770564	0	
65	N212A	4.215704	0.166667	-0.239314	0	
66	N213A	3.058152	0	1.765625	0	
67	N214A	6.251621	0	3.609375	0	
68	N215A	1.9006	0	3.770564	0	
69	N216A	4.215704	0	-0.239314	0	
70	N217A	1.787319	0	3.966773	0	
71	N218A	3.141486	0	1.621287	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
72	N219A	2.974819	0	1.909963	0	
73	N220A	4.518429	0	-0.326148	0	
74	N221A	1.976762	0	4.076148	0	
75	N222A	2.143429	0	4.076148	0	
76	N223A	5.881829	0	4.055919	0	
77	N224A	4.601762	0	-0.18181	0	
78	N225A	6.453444	0	3.065854	0	
79	N226A	2.143429	0	4.221982	0	
80	N227A	4.728058	0	-0.254727	0	
81	N228A	6.509433	0	3.162831	0	
82	N229A	5.993808	0	4.055919	0	
83	N230A	5.881829	0	4.221982	0	
84	N231A	6.597258	0	2.982823	0	
85	N232A	6.179452	0	3.567708	0	
86	N233A	6.062333	0.166667	3.770564	0	
87	N234A	6.062333	0	3.770564	0	
88	N235A	6.296571	0.166667	3.364853	0	
89	N236A	6.296571	0	3.364853	0	
90	N242A	0.	0	4.221982	0	
91	N243A	6.25	0	4.221982	0	
92	N244A	-6.25	0	4.221982	0	
93	N245A	5.416667	0	4.221982	0	
94	N246A	5.416667	0	4.471982	0	
95	N247A	-5.395833	0	4.221982	0	
96	N248A	-5.395833	0	4.471982	0	
97	N249A	-0.0625	0	4.221982	0	
98	N250A	-0.0625	0	4.471982	0	
99	N251A	-3.416667	0	4.221982	0	
100	N252A	-3.416667	0	4.471982	0	
101	N253A	-3.416667	-2.125	4.471982	0	
102	N254A	-3.416667	3.895833	4.471982	0	
103	N255A	-5.395833	-2.125	4.471982	0	
104	N256A	-5.395833	3.895833	4.471982	0	
105	N257A	-0.0625	-2.125	4.471982	0	
106	N258A	-0.0625	3.895833	4.471982	0	
107	N259A	5.416667	-2.125	4.471982	0	
108	N260A	5.416667	3.895833	4.471982	0	
109	N262B	0.531343	0	-7.52365	0	
110	N263A	6.781343	0	3.301668	0	
111	N264A	0.94801	0	-6.801962	0	
112	N265A	1.164516	0	-6.926962	0	
113	N266A	6.35426	0	2.561938	0	
114	N267A	6.570766	0	2.436938	0	
115	N268A	3.687593	0	-2.056864	0	
116	N269A	3.9041	0	-2.181864	0	
117	N270A	5.364677	0	0.847929	0	
118	N271A	5.581183	0	0.722929	0	
119	N272A	5.581183	-2.125	0.722929	0	
120	N273A	5.581183	3.895833	0.722929	0	
121	N274A	6.570766	-2.125	2.436938	0	
122	N275A	6.570766	3.895833	2.436938	0	
123	N276A	3.9041	-2.125	-2.181864	0	
124	N277A	3.9041	3.895833	-2.181864	0	
125	N278A	1.164516	-2.125	-6.926962	0	
126	N279A	1.164516	3.895833	-6.926962	0	
127	N280A	-6.781343	0	3.301668	0	
128	N281A	-0.531343	0	-7.52365	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
129	N282A	-6.364677	0	2.57998	0	
130	N283A	-6.581183	0	2.45498	0	
131	N284A	-0.958427	0	-6.78392	0	
132	N285A	-1.174933	0	-6.90892	0	
133	N286A	-3.625093	0	-2.165117	0	
134	N287	-3.8416	0	-2.290117	0	
135	N288	-1.94801	0	-5.069911	0	
136	N289	-2.164516	0	-5.194911	0	
137	N290	-2.164516	-2.125	-5.194911	0	
138	N291	-2.164516	3.895833	-5.194911	0	
139	N292	-1.174933	-2.125	-6.90892	0	
140	N293	-1.174933	3.895833	-6.90892	0	
141	N294	-3.8416	-2.125	-2.290117	0	
142	N295	-3.8416	3.895833	-2.290117	0	
143	N296	-6.581183	-2.125	2.45498	0	
144	N297	-6.581183	3.895833	2.45498	0	
145	N158	-3.881829	2.5	4.055919	0	
146	N160	-3.881829	2.5	4.221982	0	
147	N161	3.881829	2.5	4.055919	0	
148	N163	3.881829	2.5	4.221982	0	
149	N165	6.25	2.5	4.221982	0	
150	N166	-6.25	2.5	4.221982	0	
151	N167	5.416667	2.5	4.221982	0	
152	N168	5.416667	2.5	4.471982	0	
153	N169	-5.395833	2.5	4.221982	0	
154	N170	-5.395833	2.5	4.471982	0	
155	N171	-0.0625	2.5	4.221982	0	
156	N172	-0.0625	2.5	4.471982	0	
157	N173	-3.416667	2.5	4.221982	0	
158	N174	-3.416667	2.5	4.471982	0	
159	N175	0.531343	2.5	-7.52365	0	
160	N176	6.781343	2.5	3.301668	0	
161	N177	0.94801	2.5	-6.801962	0	
162	N178	1.164516	2.5	-6.926962	0	
163	N179	6.35426	2.5	2.561938	0	
164	N180	6.570766	2.5	2.436938	0	
165	N181	3.687593	2.5	-2.056864	0	
166	N182	3.9041	2.5	-2.181864	0	
167	N183	5.364677	2.5	0.847929	0	
168	N184	5.581183	2.5	0.722929	0	
169	N185	-6.781343	2.5	3.301668	0	
170	N186	-0.531343	2.5	-7.52365	0	
171	N187	-6.364677	2.5	2.57998	0	
172	N188	-6.581183	2.5	2.45498	0	
173	N189	-0.958427	2.5	-6.78392	0	
174	N190	-1.174933	2.5	-6.90892	0	
175	N191	-3.625093	2.5	-2.165117	0	
176	N192	-3.8416	2.5	-2.290117	0	
177	N193	-1.94801	2.5	-5.069911	0	
178	N194	-2.164516	2.5	-5.194911	0	
179	N187B	5.453444	2.5	1.333803	0	
180	N188B	5.597258	2.5	1.250772	0	
181	N189B	1.571615	2.5	-5.389722	0	
182	N190B	1.715429	2.5	-5.472754	0	
183	N191B	-1.571615	2.5	-5.389722	0	
184	N192B	-1.715429	2.5	-5.472754	0	
185	N193B	-5.453444	2.5	1.333803	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
186	N194B	-5.597258	2.5	1.250772	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Ru...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE_3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2	Standoff Horizontal	HSS4X4X4	Beam	SquareTu...	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
3	Corner Plate	PL1/2x6_HRA	Beam	BAR	A36 Gr.36	Typical	4.5	.211	13.5	.777
4	Platform Crossm...	HSS4X4X4	Beam	SquareTu...	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
5	Grating Support	L2x2x3	Beam	Single An...	A36 Gr.36	Typical	.722	.271	.271	.009
6	Mount Pipe	PIPE_2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
7	Cross Arm Plate	PL3/8x6	Column	RECT	A36 Gr.36	Typical	2.25	.026	6.75	.101
8	Proposed Suppor...	PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
9	Support Rail Cor...	L3X3X4	Beam	Single An...	A36 Gr.36	Typical	1.44	1.23	1.23	.031

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(de...	Section/Shape	Type	Design List	Material	Design Rul...
1	M4	N3	N27			Standoff Horizontal	Beam	SquareTube	A500 Gr....	Typical
2	M10	N101	N103A			Platform Crossmember	Beam	SquareTube	A500 Gr....	Typical
3	M43	N102	N5			Platform Crossmember	Beam	SquareTube	A500 Gr....	Typical
4	M46	N86C	N87A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
5	M35A	N7	N30			RIGID	None	None	RIGID	Typical
6	M36A	N6	N29			RIGID	None	None	RIGID	Typical
7	M51B	N87C	N6			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
8	M52B	N7	N87B			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
9	M52	N87B	N88C			RIGID	None	None	RIGID	Typical
10	M58	N102	N24			RIGID	None	None	RIGID	Typical
11	M59	N24	N103A			RIGID	None	None	RIGID	Typical
12	M76	N101	N105			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
13	M77	N105	N131			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
14	M79	N131	N86A			RIGID	None	None	RIGID	Typical
15	M80	N87A	N135			Corner Plate	Beam	BAR	A36 Gr.36	Typical
16	M83	N135	N86D			RIGID	None	None	RIGID	Typical
17	M84	N5	N104A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
18	M85	N104A	N144			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
19	M88	N144	N86B			RIGID	None	None	RIGID	Typical
20	M91	N86C	N148			Corner Plate	Beam	BAR	A36 Gr.36	Typical
21	M92	N148	N86E			RIGID	None	None	RIGID	Typical
22	M50	N88C	N88A			RIGID	None	None	RIGID	Typical
23	M51	N88A	N86G			RIGID	None	None	RIGID	Typical
24	M51A	N87C	N86G			RIGID	None	None	RIGID	Typical
25	M100	N140B	N141A			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(de...	Section/Shape	Type	Design List	Material	Design Rul...
26	M101	N142A	N143			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
27	M128A	N177A	N182A			Standoff Horizontal	Beam	SquareTube	A500 Gr....	Typical
28	M129A	N185A	N187A			Platform Crossmember	Beam	SquareTube	A500 Gr....	Typical
29	M130A	N186A	N178A			Platform Crossmember	Beam	SquareTube	A500 Gr....	Typical
30	M131A	N196A	N197A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
31	M132A	N180A	N184A			RIGID	None	None	RIGID	Typical
32	M133A	N179A	N183A			RIGID	None	None	RIGID	Typical
33	M134A	N201A	N179A			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
34	M135A	N180A	N203A			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
35	M136A	N203A	N204A			RIGID	None	None	RIGID	Typical
36	M137A	N186A	N181A			RIGID	None	None	RIGID	Typical
37	M138A	N181A	N187A			RIGID	None	None	RIGID	Typical
38	M139A	N185A	N189A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
39	M140A	N189A	N190A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
40	M141A	N190A	N194A			RIGID	None	None	RIGID	Typical
41	M142A	N197A	N191A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
42	M143A	N191A	N198A			RIGID	None	None	RIGID	Typical
43	M144A	N178A	N188A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
44	M145A	N188A	N192A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
45	M146A	N192A	N195A			RIGID	None	None	RIGID	Typical
46	M147A	N196A	N193A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
47	M148A	N193A	N199A			RIGID	None	None	RIGID	Typical
48	M149A	N204A	N200A			RIGID	None	None	RIGID	Typical
49	M150A	N200A	N202A			RIGID	None	None	RIGID	Typical
50	M151A	N201A	N202A			RIGID	None	None	RIGID	Typical
51	M154A	N209A	N214A			Standoff Horizontal	Beam	SquareTube	A500 Gr....	Typical
52	M155A	N217A	N219A			Platform Crossmember	Beam	SquareTube	A500 Gr....	Typical
53	M156A	N218A	N210A			Platform Crossmember	Beam	SquareTube	A500 Gr....	Typical
54	M157A	N228A	N229A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
55	M158A	N212A	N216A			RIGID	None	None	RIGID	Typical
56	M159A	N211A	N215A			RIGID	None	None	RIGID	Typical
57	M160A	N233A	N211A			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
58	M161A	N212A	N235A			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
59	M162A	N235A	N236A			RIGID	None	None	RIGID	Typical
60	M163A	N218A	N213A			RIGID	None	None	RIGID	Typical
61	M164A	N213A	N219A			RIGID	None	None	RIGID	Typical
62	M165A	N217A	N221A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
63	M166A	N221A	N222A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
64	M167A	N222A	N226A			RIGID	None	None	RIGID	Typical
65	M168A	N229A	N223A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
66	M169A	N223A	N230A			RIGID	None	None	RIGID	Typical
67	M170A	N210A	N220A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
68	M171A	N220A	N224A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
69	M172A	N224A	N227A			RIGID	None	None	RIGID	Typical
70	M173A	N228A	N225A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
71	M174A	N225A	N231A			RIGID	None	None	RIGID	Typical
72	M175A	N236A	N232A			RIGID	None	None	RIGID	Typical
73	M176A	N232A	N234A			RIGID	None	None	RIGID	Typical
74	M177A	N233A	N234A			RIGID	None	None	RIGID	Typical
75	M180A	N243A	N244A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
76	M181A	N245A	N246A			RIGID	None	None	RIGID	Typical
77	M182A	N247A	N248A			RIGID	None	None	RIGID	Typical
78	M183A	N249A	N250A			RIGID	None	None	RIGID	Typical
79	M184A	N251A	N252A			RIGID	None	None	RIGID	Typical
80	MP3A	N254A	N253A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
81	MP4A	N256A	N255A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
82	MP2A	N258A	N257A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(de...	Section/Shape	Type	Design List	Material	Design Rul...
83	MP1A	N260A	N259A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
84	M189A	N262B	N263A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
85	M190A	N264A	N265A			RIGID	None	None	RIGID	Typical
86	M191A	N266A	N267A			RIGID	None	None	RIGID	Typical
87	M192A	N268A	N269A			RIGID	None	None	RIGID	Typical
88	M193A	N270A	N271A			RIGID	None	None	RIGID	Typical
89	MP3C	N273A	N272A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
90	MP4C	N275A	N274A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
91	MP2C	N277A	N276A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
92	MP1C	N279A	N278A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
93	M198A	N280A	N281A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
94	M199A	N282A	N283A			RIGID	None	None	RIGID	Typical
95	M200A	N284A	N285A			RIGID	None	None	RIGID	Typical
96	M201A	N286A	N287			RIGID	None	None	RIGID	Typical
97	M202A	N288	N289			RIGID	None	None	RIGID	Typical
98	MP3B	N291	N290			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
99	MP4B	N293	N292			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
100	MP2B	N295	N294			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
101	MP1B	N297	N296			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
102	M109	N158	N160			RIGID	None	None	RIGID	Typical
103	M110	N161	N163			RIGID	None	None	RIGID	Typical
104	M112	N165	N166			Proposed Support Rail	Beam	Pipe	A53 Gr.B	Typical
105	M113	N167	N168			RIGID	None	None	RIGID	Typical
106	M114	N169	N170			RIGID	None	None	RIGID	Typical
107	M115	N171	N172			RIGID	None	None	RIGID	Typical
108	M116	N173	N174			RIGID	None	None	RIGID	Typical
109	M117	N175	N176			Proposed Support Rail	Beam	Pipe	A53 Gr.B	Typical
110	M118	N177	N178			RIGID	None	None	RIGID	Typical
111	M119	N179	N180			RIGID	None	None	RIGID	Typical
112	M120	N181	N182			RIGID	None	None	RIGID	Typical
113	M121	N183	N184			RIGID	None	None	RIGID	Typical
114	M122	N185	N186			Proposed Support Rail	Beam	Pipe	A53 Gr.B	Typical
115	M123	N187	N188			RIGID	None	None	RIGID	Typical
116	M124	N189	N190			RIGID	None	None	RIGID	Typical
117	M125	N191	N192			RIGID	None	None	RIGID	Typical
118	M126	N193	N194			RIGID	None	None	RIGID	Typical
119	M127	N158	N193B		90	Support Rail Corner Angle	Beam	Single Angle	A36 Gr.36	Typical
120	M128	N191B	N189B		90	Support Rail Corner Angle	Beam	Single Angle	A36 Gr.36	Typical
121	M129	N187B	N161		90	Support Rail Corner Angle	Beam	Single Angle	A36 Gr.36	Typical
122	M126A	N187B	N188B			RIGID	None	None	RIGID	Typical
123	M127A	N189B	N190B			RIGID	None	None	RIGID	Typical
124	M128B	N191B	N192B			RIGID	None	None	RIGID	Typical
125	M129B	N193B	N194B			RIGID	None	None	RIGID	Typical

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[...	Lcomp bot[...	L-torq...	Kyy	Kzz	Cb	Functi...
1	M4	Standoff Horizontal	5.188			Lbyy						Lateral
2	M10	Platform Crossmember	2.375			Lbyy						Lateral
3	M43	Platform Crossmember	2.375			Lbyy						Lateral
4	M46	Corner Plate	1.031			Lbyy						Lateral
5	M51B	Grating Support	4.162			Lbyy						Lateral
6	M52B	Grating Support	4.162			Lbyy						Lateral
7	M76	Cross Arm Plate	.219									Lateral
8	M77	Cross Arm Plate	.167									Lateral
9	M80	Corner Plate	.112			Lbyy						Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[...	Lcomp bot[...	L-torq...	Kyy	Kzz	Cb	Functi...
10	M84	Cross Arm Plate	.219									Lateral
11	M85	Cross Arm Plate	.167									Lateral
12	M91	Corner Plate	.112			Lbyy						Lateral
13	M101	Mount Pipe	3									Lateral
14	M128A	Standoff Horizontal	5.188			Lbyy						Lateral
15	M129A	Platform Crossmember	2.375			Lbyy						Lateral
16	M130A	Platform Crossmember	2.375			Lbyy						Lateral
17	M131A	Corner Plate	1.031			Lbyy						Lateral
18	M134A	Grating Support	4.162			Lbyy						Lateral
19	M135A	Grating Support	4.162			Lbyy						Lateral
20	M139A	Cross Arm Plate	.219									Lateral
21	M140A	Cross Arm Plate	.167									Lateral
22	M142A	Corner Plate	.112			Lbyy						Lateral
23	M144A	Cross Arm Plate	.219									Lateral
24	M145A	Cross Arm Plate	.167									Lateral
25	M147A	Corner Plate	.112			Lbyy						Lateral
26	M154A	Standoff Horizontal	5.188			Lbyy						Lateral
27	M155A	Platform Crossmember	2.375			Lbyy						Lateral
28	M156A	Platform Crossmember	2.375			Lbyy						Lateral
29	M157A	Corner Plate	1.031			Lbyy						Lateral
30	M160A	Grating Support	4.162			Lbyy						Lateral
31	M161A	Grating Support	4.162			Lbyy						Lateral
32	M165A	Cross Arm Plate	.219									Lateral
33	M166A	Cross Arm Plate	.167									Lateral
34	M168A	Corner Plate	.112			Lbyy						Lateral
35	M170A	Cross Arm Plate	.219									Lateral
36	M171A	Cross Arm Plate	.167									Lateral
37	M173A	Corner Plate	.112			Lbyy						Lateral
38	M180A	Face Horizontal	12.5			Lbyy						Lateral
39	MP3A	Mount Pipe	6.021			Lbyy						Lateral
40	MP4A	Mount Pipe	6.021			Lbyy						Lateral
41	MP2A	Mount Pipe	6.021			Lbyy						Lateral
42	MP1A	Mount Pipe	6.021			Lbyy						Lateral
43	M189A	Face Horizontal	12.5			Lbyy						Lateral
44	MP3C	Mount Pipe	6.021			Lbyy						Lateral
45	MP4C	Mount Pipe	6.021			Lbyy						Lateral
46	MP2C	Mount Pipe	6.021			Lbyy						Lateral
47	MP1C	Mount Pipe	6.021			Lbyy						Lateral
48	M198A	Face Horizontal	12.5			Lbyy						Lateral
49	MP3B	Mount Pipe	6.021			Lbyy						Lateral
50	MP4B	Mount Pipe	6.021			Lbyy						Lateral
51	MP2B	Mount Pipe	6.021			Lbyy						Lateral
52	MP1B	Mount Pipe	6.021			Lbyy						Lateral
53	M112	Proposed Support Rail	12.5			Lbyy						Lateral
54	M117	Proposed Support Rail	12.5			Lbyy						Lateral
55	M122	Proposed Support Rail	12.5			Lbyy						Lateral
56	M127	Support Rail Corner A...	3.143			Lbyy						Lateral
57	M128	Support Rail Corner A...	3.143			Lbyy						Lateral
58	M129	Support Rail Corner A...	3.143			Lbyy						Lateral

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-21.85	.75
2	MP2A	My	-.015	.75
3	MP2A	Mz	.011	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP2A	Y	-21.85	4.75
5	MP2A	My	-.015	4.75
6	MP2A	Mz	.011	4.75
7	MP2B	Y	-21.85	.75
8	MP2B	My	.007	.75
9	MP2B	Mz	-.017	.75
10	MP2B	Y	-21.85	4.75
11	MP2B	My	.007	4.75
12	MP2B	Mz	-.017	4.75
13	MP2C	Y	-21.85	.75
14	MP2C	My	.015	.75
15	MP2C	Mz	.01	.75
16	MP2C	Y	-21.85	4.75
17	MP2C	My	.015	4.75
18	MP2C	Mz	.01	4.75
19	MP2A	Y	-21.85	.75
20	MP2A	My	-.015	.75
21	MP2A	Mz	-.011	.75
22	MP2A	Y	-21.85	4.75
23	MP2A	My	-.015	4.75
24	MP2A	Mz	-.011	4.75
25	MP2B	Y	-21.85	.75
26	MP2B	My	.018	.75
27	MP2B	Mz	.002	.75
28	MP2B	Y	-21.85	4.75
29	MP2B	My	.018	4.75
30	MP2B	Mz	.002	4.75
31	MP2C	Y	-21.85	.75
32	MP2C	My	-.005	.75
33	MP2C	Mz	.017	.75
34	MP2C	Y	-21.85	4.75
35	MP2C	My	-.005	4.75
36	MP2C	Mz	.017	4.75
37	MP1A	Y	-43.55	2
38	MP1A	My	-.018	2
39	MP1A	Mz	0	2
40	MP1A	Y	-43.55	3.5
41	MP1A	My	-.018	3.5
42	MP1A	Mz	0	3.5
43	MP1B	Y	-43.55	2
44	MP1B	My	.016	2
45	MP1B	Mz	-.009	2
46	MP1B	Y	-43.55	3.5
47	MP1B	My	.016	3.5
48	MP1B	Mz	-.009	3.5
49	MP1C	Y	-43.55	2
50	MP1C	My	.006	2
51	MP1C	Mz	.017	2
52	MP1C	Y	-43.55	3.5
53	MP1C	My	.006	3.5
54	MP1C	Mz	.017	3.5
55	MP2A	Y	-84.4	1
56	MP2A	My	-.053	1
57	MP2A	Mz	0	1
58	MP2B	Y	-84.4	1
59	MP2B	My	.046	1
60	MP2B	Mz	-.026	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
61	MP2C	Y	-84.4	1
62	MP2C	My	.018	1
63	MP2C	Mz	.05	1
64	MP2A	Y	-70.3	3.25
65	MP2A	My	-.044	3.25
66	MP2A	Mz	0	3.25
67	MP2B	Y	-70.3	3.25
68	MP2B	My	.038	3.25
69	MP2B	Mz	-.022	3.25
70	MP2C	Y	-70.3	3.25
71	MP2C	My	.015	3.25
72	MP2C	Mz	.041	3.25
73	M101	Y	-32	1
74	M101	My	-.016	1
75	M101	Mz	0	1
76	MP4A	Y	-22.95	.5
77	MP4A	My	-.015	.5
78	MP4A	Mz	0	.5
79	MP4A	Y	-22.95	5
80	MP4A	My	-.015	5
81	MP4A	Mz	0	5
82	MP4B	Y	-22.95	.5
83	MP4B	My	.013	.5
84	MP4B	Mz	-.008	.5
85	MP4B	Y	-22.95	5
86	MP4B	My	.013	5
87	MP4B	Mz	-.008	5
88	MP4C	Y	-22.95	.5
89	MP4C	My	.005	.5
90	MP4C	Mz	.014	.5
91	MP4C	Y	-22.95	5
92	MP4C	My	.005	5
93	MP4C	Mz	.014	5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-91.107	.75
2	MP2A	My	-.061	.75
3	MP2A	Mz	.046	.75
4	MP2A	Y	-91.107	4.75
5	MP2A	My	-.061	4.75
6	MP2A	Mz	.046	4.75
7	MP2B	Y	-91.107	.75
8	MP2B	My	.03	.75
9	MP2B	Mz	-.07	.75
10	MP2B	Y	-91.107	4.75
11	MP2B	My	.03	4.75
12	MP2B	Mz	-.07	4.75
13	MP2C	Y	-91.107	.75
14	MP2C	My	.064	.75
15	MP2C	Mz	.041	.75
16	MP2C	Y	-91.107	4.75
17	MP2C	My	.064	4.75
18	MP2C	Mz	.041	4.75
19	MP2A	Y	-91.107	.75
20	MP2A	My	-.061	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2A	Mz	-.046	.75
22	MP2A	Y	-91.107	4.75
23	MP2A	My	-.061	4.75
24	MP2A	Mz	-.046	4.75
25	MP2B	Y	-91.107	.75
26	MP2B	My	.075	.75
27	MP2B	Mz	.009	.75
28	MP2B	Y	-91.107	4.75
29	MP2B	My	.075	4.75
30	MP2B	Mz	.009	4.75
31	MP2C	Y	-91.107	.75
32	MP2C	My	-.022	.75
33	MP2C	Mz	.073	.75
34	MP2C	Y	-91.107	4.75
35	MP2C	My	-.022	4.75
36	MP2C	Mz	.073	4.75
37	MP1A	Y	-53.75	2
38	MP1A	My	-.022	2
39	MP1A	Mz	0	2
40	MP1A	Y	-53.75	3.5
41	MP1A	My	-.022	3.5
42	MP1A	Mz	0	3.5
43	MP1B	Y	-53.75	2
44	MP1B	My	.019	2
45	MP1B	Mz	-.011	2
46	MP1B	Y	-53.75	3.5
47	MP1B	My	.019	3.5
48	MP1B	Mz	-.011	3.5
49	MP1C	Y	-53.75	2
50	MP1C	My	.008	2
51	MP1C	Mz	.021	2
52	MP1C	Y	-53.75	3.5
53	MP1C	My	.008	3.5
54	MP1C	Mz	.021	3.5
55	MP2A	Y	-68.247	1
56	MP2A	My	-.043	1
57	MP2A	Mz	0	1
58	MP2B	Y	-68.247	1
59	MP2B	My	.037	1
60	MP2B	Mz	-.021	1
61	MP2C	Y	-68.247	1
62	MP2C	My	.015	1
63	MP2C	Mz	.04	1
64	MP2A	Y	-61.588	3.25
65	MP2A	My	-.038	3.25
66	MP2A	Mz	0	3.25
67	MP2B	Y	-61.588	3.25
68	MP2B	My	.033	3.25
69	MP2B	Mz	-.019	3.25
70	MP2C	Y	-61.588	3.25
71	MP2C	My	.013	3.25
72	MP2C	Mz	.036	3.25
73	M101	Y	-114.133	1
74	M101	My	-.057	1
75	M101	Mz	0	1
76	MP4A	Y	-101.092	.5
77	MP4A	My	-.067	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP4A	Mz	0	.5
79	MP4A	Y	-101.092	5
80	MP4A	My	-.067	5
81	MP4A	Mz	0	5
82	MP4B	Y	-101.092	.5
83	MP4B	My	.058	.5
84	MP4B	Mz	-.034	.5
85	MP4B	Y	-101.092	5
86	MP4B	My	.058	5
87	MP4B	Mz	-.034	5
88	MP4C	Y	-101.092	.5
89	MP4C	My	.023	.5
90	MP4C	Mz	.063	.5
91	MP4C	Y	-101.092	5
92	MP4C	My	.023	5
93	MP4C	Mz	.063	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.75
2	MP2A	Z	-118.986	.75
3	MP2A	Mx	-.059	.75
4	MP2A	X	0	4.75
5	MP2A	Z	-118.986	4.75
6	MP2A	Mx	-.059	4.75
7	MP2B	X	0	.75
8	MP2B	Z	-108.905	.75
9	MP2B	Mx	.083	.75
10	MP2B	X	0	4.75
11	MP2B	Z	-108.905	4.75
12	MP2B	Mx	.083	4.75
13	MP2C	X	0	.75
14	MP2C	Z	-83.379	.75
15	MP2C	Mx	-.038	.75
16	MP2C	X	0	4.75
17	MP2C	Z	-83.379	4.75
18	MP2C	Mx	-.038	4.75
19	MP2A	X	0	.75
20	MP2A	Z	-118.986	.75
21	MP2A	Mx	.059	.75
22	MP2A	X	0	4.75
23	MP2A	Z	-118.986	4.75
24	MP2A	Mx	.059	4.75
25	MP2B	X	0	.75
26	MP2B	Z	-108.905	.75
27	MP2B	Mx	-.011	.75
28	MP2B	X	0	4.75
29	MP2B	Z	-108.905	4.75
30	MP2B	Mx	-.011	4.75
31	MP2C	X	0	.75
32	MP2C	Z	-83.379	.75
33	MP2C	Mx	-.066	.75
34	MP2C	X	0	4.75
35	MP2C	Z	-83.379	4.75
36	MP2C	Mx	-.066	4.75
37	MP1A	X	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
38	MP1A	Z	-69.212	2
39	MP1A	Mx	0	2
40	MP1A	X	0	3.5
41	MP1A	Z	-69.212	3.5
42	MP1A	Mx	0	3.5
43	MP1B	X	0	2
44	MP1B	Z	-58.683	2
45	MP1B	Mx	.012	2
46	MP1B	X	0	3.5
47	MP1B	Z	-58.683	3.5
48	MP1B	Mx	.012	3.5
49	MP1C	X	0	2
50	MP1C	Z	-32.023	2
51	MP1C	Mx	-.013	2
52	MP1C	X	0	3.5
53	MP1C	Z	-32.023	3.5
54	MP1C	Mx	-.013	3.5
55	MP2A	X	0	1
56	MP2A	Z	-55.075	1
57	MP2A	Mx	0	1
58	MP2B	X	0	1
59	MP2B	Z	-50.51	1
60	MP2B	Mx	.016	1
61	MP2C	X	0	1
62	MP2C	Z	-38.951	1
63	MP2C	Mx	-.023	1
64	MP2A	X	0	3.25
65	MP2A	Z	-55.075	3.25
66	MP2A	Mx	0	3.25
67	MP2B	X	0	3.25
68	MP2B	Z	-48.762	3.25
69	MP2B	Mx	.015	3.25
70	MP2C	X	0	3.25
71	MP2C	Z	-32.775	3.25
72	MP2C	Mx	-.019	3.25
73	M101	X	0	1
74	M101	Z	-111.623	1
75	M101	Mx	0	1
76	MP4A	X	0	.5
77	MP4A	Z	-135.921	.5
78	MP4A	Mx	0	.5
79	MP4A	X	0	5
80	MP4A	Z	-135.921	5
81	MP4A	Mx	0	5
82	MP4B	X	0	.5
83	MP4B	Z	-124.546	.5
84	MP4B	Mx	.042	.5
85	MP4B	X	0	5
86	MP4B	Z	-124.546	5
87	MP4B	Mx	.042	5
88	MP4C	X	0	.5
89	MP4C	Z	-95.743	.5
90	MP4C	Mx	-.06	.5
91	MP4C	X	0	5
92	MP4C	Z	-95.743	5
93	MP4C	Mx	-.06	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	54.453	.75
2	MP2A	Z	-94.315	.75
3	MP2A	Mx	-.083	.75
4	MP2A	X	54.453	4.75
5	MP2A	Z	-94.315	4.75
6	MP2A	Mx	-.083	4.75
7	MP2B	X	44.371	.75
8	MP2B	Z	-76.853	.75
9	MP2B	Mx	.073	.75
10	MP2B	X	44.371	4.75
11	MP2B	Z	-76.853	4.75
12	MP2B	Mx	.073	4.75
13	MP2C	X	51.163	.75
14	MP2C	Z	-88.616	.75
15	MP2C	Mx	-.005	.75
16	MP2C	X	51.163	4.75
17	MP2C	Z	-88.616	4.75
18	MP2C	Mx	-.005	4.75
19	MP2A	X	54.453	.75
20	MP2A	Z	-94.315	.75
21	MP2A	Mx	.011	.75
22	MP2A	X	54.453	4.75
23	MP2A	Z	-94.315	4.75
24	MP2A	Mx	.011	4.75
25	MP2B	X	44.371	.75
26	MP2B	Z	-76.853	.75
27	MP2B	Mx	.029	.75
28	MP2B	X	44.371	4.75
29	MP2B	Z	-76.853	4.75
30	MP2B	Mx	.029	4.75
31	MP2C	X	51.163	.75
32	MP2C	Z	-88.616	.75
33	MP2C	Mx	-.083	.75
34	MP2C	X	51.163	4.75
35	MP2C	Z	-88.616	4.75
36	MP2C	Mx	-.083	4.75
37	MP1A	X	29.342	2
38	MP1A	Z	-50.821	2
39	MP1A	Mx	-.012	2
40	MP1A	X	29.342	3.5
41	MP1A	Z	-50.821	3.5
42	MP1A	Mx	-.012	3.5
43	MP1B	X	18.813	2
44	MP1B	Z	-32.585	2
45	MP1B	Mx	.014	2
46	MP1B	X	18.813	3.5
47	MP1B	Z	-32.585	3.5
48	MP1B	Mx	.014	3.5
49	MP1C	X	25.906	2
50	MP1C	Z	-44.87	2
51	MP1C	Mx	-.014	2
52	MP1C	X	25.906	3.5
53	MP1C	Z	-44.87	3.5
54	MP1C	Mx	-.014	3.5
55	MP2A	X	25.255	1
56	MP2A	Z	-43.743	1
57	MP2A	Mx	-.016	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	20.69	1
59	MP2B	Z	-35.836	1
60	MP2B	Mx	.022	1
61	MP2C	X	23.765	1
62	MP2C	Z	-41.163	1
63	MP2C	Mx	-.019	1
64	MP2A	X	24.381	3.25
65	MP2A	Z	-42.229	3.25
66	MP2A	Mx	-.015	3.25
67	MP2B	X	18.067	3.25
68	MP2B	Z	-31.293	3.25
69	MP2B	Mx	.02	3.25
70	MP2C	X	22.32	3.25
71	MP2C	Z	-38.66	3.25
72	MP2C	Mx	-.018	3.25
73	M101	X	51.094	1
74	M101	Z	-88.498	1
75	M101	Mx	-.026	1
76	MP4A	X	62.273	.5
77	MP4A	Z	-107.86	.5
78	MP4A	Mx	-.042	.5
79	MP4A	X	62.273	5
80	MP4A	Z	-107.86	5
81	MP4A	Mx	-.042	5
82	MP4B	X	50.898	.5
83	MP4B	Z	-88.157	.5
84	MP4B	Mx	.059	.5
85	MP4B	X	50.898	5
86	MP4B	Z	-88.157	5
87	MP4B	Mx	.059	5
88	MP4C	X	58.561	.5
89	MP4C	Z	-101.43	.5
90	MP4C	Mx	-.05	.5
91	MP4C	X	58.561	5
92	MP4C	Z	-101.43	5
93	MP4C	Mx	-.05	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	76.853	.75
2	MP2A	Z	-44.371	.75
3	MP2A	Mx	-.073	.75
4	MP2A	X	76.853	4.75
5	MP2A	Z	-44.371	4.75
6	MP2A	Mx	-.073	4.75
7	MP2B	X	68.123	.75
8	MP2B	Z	-39.331	.75
9	MP2B	Mx	.052	.75
10	MP2B	X	68.123	4.75
11	MP2B	Z	-39.331	4.75
12	MP2B	Mx	.052	4.75
13	MP2C	X	101.992	.75
14	MP2C	Z	-58.885	.75
15	MP2C	Mx	.044	.75
16	MP2C	X	101.992	4.75
17	MP2C	Z	-58.885	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP2C	Mx	.044	4.75
19	MP2A	X	76.853	.75
20	MP2A	Z	-44.371	.75
21	MP2A	Mx	-.029	.75
22	MP2A	X	76.853	4.75
23	MP2A	Z	-44.371	4.75
24	MP2A	Mx	-.029	4.75
25	MP2B	X	68.123	.75
26	MP2B	Z	-39.331	.75
27	MP2B	Mx	.052	.75
28	MP2B	X	68.123	4.75
29	MP2B	Z	-39.331	4.75
30	MP2B	Mx	.052	4.75
31	MP2C	X	101.992	.75
32	MP2C	Z	-58.885	.75
33	MP2C	Mx	-.072	.75
34	MP2C	X	101.992	4.75
35	MP2C	Z	-58.885	4.75
36	MP2C	Mx	-.072	4.75
37	MP1A	X	32.585	2
38	MP1A	Z	-18.813	2
39	MP1A	Mx	-.014	2
40	MP1A	X	32.585	3.5
41	MP1A	Z	-18.813	3.5
42	MP1A	Mx	-.014	3.5
43	MP1B	X	23.466	2
44	MP1B	Z	-13.548	2
45	MP1B	Mx	.011	2
46	MP1B	X	23.466	3.5
47	MP1B	Z	-13.548	3.5
48	MP1B	Mx	.011	3.5
49	MP1C	X	58.84	2
50	MP1C	Z	-33.971	2
51	MP1C	Mx	-.005	2
52	MP1C	X	58.84	3.5
53	MP1C	Z	-33.971	3.5
54	MP1C	Mx	-.005	3.5
55	MP2A	X	35.836	1
56	MP2A	Z	-20.69	1
57	MP2A	Mx	-.022	1
58	MP2B	X	31.883	1
59	MP2B	Z	-18.408	1
60	MP2B	Mx	.023	1
61	MP2C	X	47.22	1
62	MP2C	Z	-27.262	1
63	MP2C	Mx	-.006	1
64	MP2A	X	31.293	3.25
65	MP2A	Z	-18.067	3.25
66	MP2A	Mx	-.02	3.25
67	MP2B	X	25.825	3.25
68	MP2B	Z	-14.91	3.25
69	MP2B	Mx	.019	3.25
70	MP2C	X	47.037	3.25
71	MP2C	Z	-27.157	3.25
72	MP2C	Mx	-.006	3.25
73	M101	X	72.157	1
74	M101	Z	-41.66	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	M101	Mx	-.036	1
76	MP4A	X	88.157	.5
77	MP4A	Z	-50.898	.5
78	MP4A	Mx	-.059	.5
79	MP4A	X	88.157	5
80	MP4A	Z	-50.898	5
81	MP4A	Mx	-.059	5
82	MP4B	X	78.306	.5
83	MP4B	Z	-45.21	.5
84	MP4B	Mx	.06	.5
85	MP4B	X	78.306	5
86	MP4B	Z	-45.21	5
87	MP4B	Mx	.06	5
88	MP4C	X	116.523	.5
89	MP4C	Z	-67.275	.5
90	MP4C	Mx	-.016	.5
91	MP4C	X	116.523	5
92	MP4C	Z	-67.275	5
93	MP4C	Mx	-.016	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	78.662	.75
2	MP2A	Z	0	.75
3	MP2A	Mx	-.052	.75
4	MP2A	X	78.662	4.75
5	MP2A	Z	0	4.75
6	MP2A	Mx	-.052	4.75
7	MP2B	X	88.743	.75
8	MP2B	Z	0	.75
9	MP2B	Mx	.029	.75
10	MP2B	X	88.743	4.75
11	MP2B	Z	0	4.75
12	MP2B	Mx	.029	4.75
13	MP2C	X	114.269	.75
14	MP2C	Z	0	.75
15	MP2C	Mx	.08	.75
16	MP2C	X	114.269	4.75
17	MP2C	Z	0	4.75
18	MP2C	Mx	.08	4.75
19	MP2A	X	78.662	.75
20	MP2A	Z	0	.75
21	MP2A	Mx	-.052	.75
22	MP2A	X	78.662	4.75
23	MP2A	Z	0	4.75
24	MP2A	Mx	-.052	4.75
25	MP2B	X	88.743	.75
26	MP2B	Z	0	.75
27	MP2B	Mx	.073	.75
28	MP2B	X	88.743	4.75
29	MP2B	Z	0	4.75
30	MP2B	Mx	.073	4.75
31	MP2C	X	114.269	.75
32	MP2C	Z	0	.75
33	MP2C	Mx	-.028	.75
34	MP2C	X	114.269	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP2C	Z	0	4.75
36	MP2C	Mx	-.028	4.75
37	MP1A	X	27.097	2
38	MP1A	Z	0	2
39	MP1A	Mx	-.011	2
40	MP1A	X	27.097	3.5
41	MP1A	Z	0	3.5
42	MP1A	Mx	-.011	3.5
43	MP1B	X	37.625	2
44	MP1B	Z	0	2
45	MP1B	Mx	.014	2
46	MP1B	X	37.625	3.5
47	MP1B	Z	0	3.5
48	MP1B	Mx	.014	3.5
49	MP1C	X	64.286	2
50	MP1C	Z	0	2
51	MP1C	Mx	.009	2
52	MP1C	X	64.286	3.5
53	MP1C	Z	0	3.5
54	MP1C	Mx	.009	3.5
55	MP2A	X	36.815	1
56	MP2A	Z	0	1
57	MP2A	Mx	-.023	1
58	MP2B	X	41.38	1
59	MP2B	Z	0	1
60	MP2B	Mx	.022	1
61	MP2C	X	52.939	1
62	MP2C	Z	0	1
63	MP2C	Mx	.011	1
64	MP2A	X	29.82	3.25
65	MP2A	Z	0	3.25
66	MP2A	Mx	-.019	3.25
67	MP2B	X	36.134	3.25
68	MP2B	Z	0	3.25
69	MP2B	Mx	.02	3.25
70	MP2C	X	52.121	3.25
71	MP2C	Z	0	3.25
72	MP2C	Mx	.011	3.25
73	M101	X	73.886	1
74	M101	Z	0	1
75	M101	Mx	-.037	1
76	MP4A	X	90.42	.5
77	MP4A	Z	0	.5
78	MP4A	Mx	-.06	.5
79	MP4A	X	90.42	5
80	MP4A	Z	0	5
81	MP4A	Mx	-.06	5
82	MP4B	X	101.795	.5
83	MP4B	Z	0	.5
84	MP4B	Mx	.059	.5
85	MP4B	X	101.795	5
86	MP4B	Z	0	5
87	MP4B	Mx	.059	5
88	MP4C	X	130.599	.5
89	MP4C	Z	0	.5
90	MP4C	Mx	.03	.5
91	MP4C	X	130.599	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
92	MP4C	Z	0	5
93	MP4C	Mx	.03	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	76.853	.75
2	MP2A	Z	44.371	.75
3	MP2A	Mx	-.029	.75
4	MP2A	X	76.853	4.75
5	MP2A	Z	44.371	4.75
6	MP2A	Mx	-.029	4.75
7	MP2B	X	94.315	.75
8	MP2B	Z	54.453	.75
9	MP2B	Mx	-.011	.75
10	MP2B	X	94.315	4.75
11	MP2B	Z	54.453	4.75
12	MP2B	Mx	-.011	4.75
13	MP2C	X	82.552	.75
14	MP2C	Z	47.661	.75
15	MP2C	Mx	.079	.75
16	MP2C	X	82.552	4.75
17	MP2C	Z	47.661	4.75
18	MP2C	Mx	.079	4.75
19	MP2A	X	76.853	.75
20	MP2A	Z	44.371	.75
21	MP2A	Mx	-.073	.75
22	MP2A	X	76.853	4.75
23	MP2A	Z	44.371	4.75
24	MP2A	Mx	-.073	4.75
25	MP2B	X	94.315	.75
26	MP2B	Z	54.453	.75
27	MP2B	Mx	.083	.75
28	MP2B	X	94.315	4.75
29	MP2B	Z	54.453	4.75
30	MP2B	Mx	.083	4.75
31	MP2C	X	82.552	.75
32	MP2C	Z	47.661	.75
33	MP2C	Mx	.018	.75
34	MP2C	X	82.552	4.75
35	MP2C	Z	47.661	4.75
36	MP2C	Mx	.018	4.75
37	MP1A	X	32.585	2
38	MP1A	Z	18.813	2
39	MP1A	Mx	-.014	2
40	MP1A	X	32.585	3.5
41	MP1A	Z	18.813	3.5
42	MP1A	Mx	-.014	3.5
43	MP1B	X	50.821	2
44	MP1B	Z	29.342	2
45	MP1B	Mx	.012	2
46	MP1B	X	50.821	3.5
47	MP1B	Z	29.342	3.5
48	MP1B	Mx	.012	3.5
49	MP1C	X	38.536	2
50	MP1C	Z	22.249	2
51	MP1C	Mx	.014	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
52	MP1C	X	38.536	3.5
53	MP1C	Z	22.249	3.5
54	MP1C	Mx	.014	3.5
55	MP2A	X	35.836	1
56	MP2A	Z	20.69	1
57	MP2A	Mx	-.022	1
58	MP2B	X	43.743	1
59	MP2B	Z	25.255	1
60	MP2B	Mx	.016	1
61	MP2C	X	38.417	1
62	MP2C	Z	22.18	1
63	MP2C	Mx	.021	1
64	MP2A	X	31.293	3.25
65	MP2A	Z	18.067	3.25
66	MP2A	Mx	-.02	3.25
67	MP2B	X	42.229	3.25
68	MP2B	Z	24.381	3.25
69	MP2B	Mx	.015	3.25
70	MP2C	X	34.862	3.25
71	MP2C	Z	20.128	3.25
72	MP2C	Mx	.019	3.25
73	M101	X	72.157	1
74	M101	Z	41.66	1
75	M101	Mx	-.036	1
76	MP4A	X	88.157	.5
77	MP4A	Z	50.898	.5
78	MP4A	Mx	-.059	.5
79	MP4A	X	88.157	5
80	MP4A	Z	50.898	5
81	MP4A	Mx	-.059	5
82	MP4B	X	107.86	.5
83	MP4B	Z	62.273	.5
84	MP4B	Mx	.042	.5
85	MP4B	X	107.86	5
86	MP4B	Z	62.273	5
87	MP4B	Mx	.042	5
88	MP4C	X	94.587	.5
89	MP4C	Z	54.61	.5
90	MP4C	Mx	.056	.5
91	MP4C	X	94.587	5
92	MP4C	Z	54.61	5
93	MP4C	Mx	.056	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	54.453	.75
2	MP2A	Z	94.315	.75
3	MP2A	Mx	.011	.75
4	MP2A	X	54.453	4.75
5	MP2A	Z	94.315	4.75
6	MP2A	Mx	.011	4.75
7	MP2B	X	59.493	.75
8	MP2B	Z	103.045	.75
9	MP2B	Mx	-.059	.75
10	MP2B	X	59.493	4.75
11	MP2B	Z	103.045	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP2B	Mx	-.059	4.75
13	MP2C	X	39.939	.75
14	MP2C	Z	69.176	.75
15	MP2C	Mx	.059	.75
16	MP2C	X	39.939	4.75
17	MP2C	Z	69.176	4.75
18	MP2C	Mx	.059	4.75
19	MP2A	X	54.453	.75
20	MP2A	Z	94.315	.75
21	MP2A	Mx	-.083	.75
22	MP2A	X	54.453	4.75
23	MP2A	Z	94.315	4.75
24	MP2A	Mx	-.083	4.75
25	MP2B	X	59.493	.75
26	MP2B	Z	103.045	.75
27	MP2B	Mx	.059	.75
28	MP2B	X	59.493	4.75
29	MP2B	Z	103.045	4.75
30	MP2B	Mx	.059	4.75
31	MP2C	X	39.939	.75
32	MP2C	Z	69.176	.75
33	MP2C	Mx	.046	.75
34	MP2C	X	39.939	4.75
35	MP2C	Z	69.176	4.75
36	MP2C	Mx	.046	4.75
37	MP1A	X	29.342	2
38	MP1A	Z	50.821	2
39	MP1A	Mx	-.012	2
40	MP1A	X	29.342	3.5
41	MP1A	Z	50.821	3.5
42	MP1A	Mx	-.012	3.5
43	MP1B	X	34.606	2
44	MP1B	Z	59.94	2
45	MP1B	Mx	0	2
46	MP1B	X	34.606	3.5
47	MP1B	Z	59.94	3.5
48	MP1B	Mx	0	3.5
49	MP1C	X	14.183	2
50	MP1C	Z	24.566	2
51	MP1C	Mx	.012	2
52	MP1C	X	14.183	3.5
53	MP1C	Z	24.566	3.5
54	MP1C	Mx	.012	3.5
55	MP2A	X	25.255	1
56	MP2A	Z	43.743	1
57	MP2A	Mx	-.016	1
58	MP2B	X	27.538	1
59	MP2B	Z	47.697	1
60	MP2B	Mx	0	1
61	MP2C	X	18.683	1
62	MP2C	Z	32.36	1
63	MP2C	Mx	.023	1
64	MP2A	X	24.381	3.25
65	MP2A	Z	42.229	3.25
66	MP2A	Mx	-.015	3.25
67	MP2B	X	27.538	3.25
68	MP2B	Z	47.697	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP2B	Mx	0	3.25
70	MP2C	X	15.291	3.25
71	MP2C	Z	26.485	3.25
72	MP2C	Mx	.019	3.25
73	M101	X	51.094	1
74	M101	Z	88.498	1
75	M101	Mx	-.026	1
76	MP4A	X	62.273	.5
77	MP4A	Z	107.86	.5
78	MP4A	Mx	-.042	.5
79	MP4A	X	62.273	5
80	MP4A	Z	107.86	5
81	MP4A	Mx	-.042	5
82	MP4B	X	67.961	.5
83	MP4B	Z	117.711	.5
84	MP4B	Mx	0	.5
85	MP4B	X	67.961	5
86	MP4B	Z	117.711	5
87	MP4B	Mx	0	5
88	MP4C	X	45.896	.5
89	MP4C	Z	79.494	.5
90	MP4C	Mx	.06	.5
91	MP4C	X	45.896	5
92	MP4C	Z	79.494	5
93	MP4C	Mx	.06	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.75
2	MP2A	Z	118.986	.75
3	MP2A	Mx	.059	.75
4	MP2A	X	0	4.75
5	MP2A	Z	118.986	4.75
6	MP2A	Mx	.059	4.75
7	MP2B	X	0	.75
8	MP2B	Z	108.905	.75
9	MP2B	Mx	-.083	.75
10	MP2B	X	0	4.75
11	MP2B	Z	108.905	4.75
12	MP2B	Mx	-.083	4.75
13	MP2C	X	0	.75
14	MP2C	Z	83.379	.75
15	MP2C	Mx	.038	.75
16	MP2C	X	0	4.75
17	MP2C	Z	83.379	4.75
18	MP2C	Mx	.038	4.75
19	MP2A	X	0	.75
20	MP2A	Z	118.986	.75
21	MP2A	Mx	-.059	.75
22	MP2A	X	0	4.75
23	MP2A	Z	118.986	4.75
24	MP2A	Mx	-.059	4.75
25	MP2B	X	0	.75
26	MP2B	Z	108.905	.75
27	MP2B	Mx	.011	.75
28	MP2B	X	0	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2B	Z	108.905	4.75
30	MP2B	Mx	.011	4.75
31	MP2C	X	0	.75
32	MP2C	Z	83.379	.75
33	MP2C	Mx	.066	.75
34	MP2C	X	0	4.75
35	MP2C	Z	83.379	4.75
36	MP2C	Mx	.066	4.75
37	MP1A	X	0	2
38	MP1A	Z	69.212	2
39	MP1A	Mx	0	2
40	MP1A	X	0	3.5
41	MP1A	Z	69.212	3.5
42	MP1A	Mx	0	3.5
43	MP1B	X	0	2
44	MP1B	Z	58.683	2
45	MP1B	Mx	-.012	2
46	MP1B	X	0	3.5
47	MP1B	Z	58.683	3.5
48	MP1B	Mx	-.012	3.5
49	MP1C	X	0	2
50	MP1C	Z	32.023	2
51	MP1C	Mx	.013	2
52	MP1C	X	0	3.5
53	MP1C	Z	32.023	3.5
54	MP1C	Mx	.013	3.5
55	MP2A	X	0	1
56	MP2A	Z	55.075	1
57	MP2A	Mx	0	1
58	MP2B	X	0	1
59	MP2B	Z	50.51	1
60	MP2B	Mx	-.016	1
61	MP2C	X	0	1
62	MP2C	Z	38.951	1
63	MP2C	Mx	.023	1
64	MP2A	X	0	3.25
65	MP2A	Z	55.075	3.25
66	MP2A	Mx	0	3.25
67	MP2B	X	0	3.25
68	MP2B	Z	48.762	3.25
69	MP2B	Mx	-.015	3.25
70	MP2C	X	0	3.25
71	MP2C	Z	32.775	3.25
72	MP2C	Mx	.019	3.25
73	M101	X	0	1
74	M101	Z	111.623	1
75	M101	Mx	0	1
76	MP4A	X	0	.5
77	MP4A	Z	135.921	.5
78	MP4A	Mx	0	.5
79	MP4A	X	0	5
80	MP4A	Z	135.921	5
81	MP4A	Mx	0	5
82	MP4B	X	0	.5
83	MP4B	Z	124.546	.5
84	MP4B	Mx	-.042	.5
85	MP4B	X	0	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
86	MP4B	Z	124.546	5
87	MP4B	Mx	-.042	5
88	MP4C	X	0	.5
89	MP4C	Z	95.743	.5
90	MP4C	Mx	.06	.5
91	MP4C	X	0	5
92	MP4C	Z	95.743	5
93	MP4C	Mx	.06	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-54.453	.75
2	MP2A	Z	94.315	.75
3	MP2A	Mx	.083	.75
4	MP2A	X	-54.453	4.75
5	MP2A	Z	94.315	4.75
6	MP2A	Mx	.083	4.75
7	MP2B	X	-44.371	.75
8	MP2B	Z	76.853	.75
9	MP2B	Mx	-.073	.75
10	MP2B	X	-44.371	4.75
11	MP2B	Z	76.853	4.75
12	MP2B	Mx	-.073	4.75
13	MP2C	X	-51.163	.75
14	MP2C	Z	88.616	.75
15	MP2C	Mx	.005	.75
16	MP2C	X	-51.163	4.75
17	MP2C	Z	88.616	4.75
18	MP2C	Mx	.005	4.75
19	MP2A	X	-54.453	.75
20	MP2A	Z	94.315	.75
21	MP2A	Mx	-.011	.75
22	MP2A	X	-54.453	4.75
23	MP2A	Z	94.315	4.75
24	MP2A	Mx	-.011	4.75
25	MP2B	X	-44.371	.75
26	MP2B	Z	76.853	.75
27	MP2B	Mx	-.029	.75
28	MP2B	X	-44.371	4.75
29	MP2B	Z	76.853	4.75
30	MP2B	Mx	-.029	4.75
31	MP2C	X	-51.163	.75
32	MP2C	Z	88.616	.75
33	MP2C	Mx	.083	.75
34	MP2C	X	-51.163	4.75
35	MP2C	Z	88.616	4.75
36	MP2C	Mx	.083	4.75
37	MP1A	X	-29.342	2
38	MP1A	Z	50.821	2
39	MP1A	Mx	.012	2
40	MP1A	X	-29.342	3.5
41	MP1A	Z	50.821	3.5
42	MP1A	Mx	.012	3.5
43	MP1B	X	-18.813	2
44	MP1B	Z	32.585	2
45	MP1B	Mx	-.014	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
46	MP1B	X	-18.813	3.5
47	MP1B	Z	32.585	3.5
48	MP1B	Mx	-.014	3.5
49	MP1C	X	-25.906	2
50	MP1C	Z	44.87	2
51	MP1C	Mx	.014	2
52	MP1C	X	-25.906	3.5
53	MP1C	Z	44.87	3.5
54	MP1C	Mx	.014	3.5
55	MP2A	X	-25.255	1
56	MP2A	Z	43.743	1
57	MP2A	Mx	.016	1
58	MP2B	X	-20.69	1
59	MP2B	Z	35.836	1
60	MP2B	Mx	-.022	1
61	MP2C	X	-23.765	1
62	MP2C	Z	41.163	1
63	MP2C	Mx	.019	1
64	MP2A	X	-24.381	3.25
65	MP2A	Z	42.229	3.25
66	MP2A	Mx	.015	3.25
67	MP2B	X	-18.067	3.25
68	MP2B	Z	31.293	3.25
69	MP2B	Mx	-.02	3.25
70	MP2C	X	-22.32	3.25
71	MP2C	Z	38.66	3.25
72	MP2C	Mx	.018	3.25
73	M101	X	-51.094	1
74	M101	Z	88.498	1
75	M101	Mx	.026	1
76	MP4A	X	-62.273	.5
77	MP4A	Z	107.86	.5
78	MP4A	Mx	.042	.5
79	MP4A	X	-62.273	5
80	MP4A	Z	107.86	5
81	MP4A	Mx	.042	5
82	MP4B	X	-50.898	.5
83	MP4B	Z	88.157	.5
84	MP4B	Mx	-.059	.5
85	MP4B	X	-50.898	5
86	MP4B	Z	88.157	5
87	MP4B	Mx	-.059	5
88	MP4C	X	-58.561	.5
89	MP4C	Z	101.43	.5
90	MP4C	Mx	.05	.5
91	MP4C	X	-58.561	5
92	MP4C	Z	101.43	5
93	MP4C	Mx	.05	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-76.853	.75
2	MP2A	Z	44.371	.75
3	MP2A	Mx	.073	.75
4	MP2A	X	-76.853	4.75
5	MP2A	Z	44.371	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP2A	Mx	.073	4.75
7	MP2B	X	-68.123	.75
8	MP2B	Z	39.331	.75
9	MP2B	Mx	-.052	.75
10	MP2B	X	-68.123	4.75
11	MP2B	Z	39.331	4.75
12	MP2B	Mx	-.052	4.75
13	MP2C	X	-101.992	.75
14	MP2C	Z	58.885	.75
15	MP2C	Mx	-.044	.75
16	MP2C	X	-101.992	4.75
17	MP2C	Z	58.885	4.75
18	MP2C	Mx	-.044	4.75
19	MP2A	X	-76.853	.75
20	MP2A	Z	44.371	.75
21	MP2A	Mx	.029	.75
22	MP2A	X	-76.853	4.75
23	MP2A	Z	44.371	4.75
24	MP2A	Mx	.029	4.75
25	MP2B	X	-68.123	.75
26	MP2B	Z	39.331	.75
27	MP2B	Mx	-.052	.75
28	MP2B	X	-68.123	4.75
29	MP2B	Z	39.331	4.75
30	MP2B	Mx	-.052	4.75
31	MP2C	X	-101.992	.75
32	MP2C	Z	58.885	.75
33	MP2C	Mx	.072	.75
34	MP2C	X	-101.992	4.75
35	MP2C	Z	58.885	4.75
36	MP2C	Mx	.072	4.75
37	MP1A	X	-32.585	2
38	MP1A	Z	18.813	2
39	MP1A	Mx	.014	2
40	MP1A	X	-32.585	3.5
41	MP1A	Z	18.813	3.5
42	MP1A	Mx	.014	3.5
43	MP1B	X	-23.466	2
44	MP1B	Z	13.548	2
45	MP1B	Mx	-.011	2
46	MP1B	X	-23.466	3.5
47	MP1B	Z	13.548	3.5
48	MP1B	Mx	-.011	3.5
49	MP1C	X	-58.84	2
50	MP1C	Z	33.971	2
51	MP1C	Mx	.005	2
52	MP1C	X	-58.84	3.5
53	MP1C	Z	33.971	3.5
54	MP1C	Mx	.005	3.5
55	MP2A	X	-35.836	1
56	MP2A	Z	20.69	1
57	MP2A	Mx	.022	1
58	MP2B	X	-31.883	1
59	MP2B	Z	18.408	1
60	MP2B	Mx	-.023	1
61	MP2C	X	-47.22	1
62	MP2C	Z	27.262	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP2C	Mx	.006	1
64	MP2A	X	-31.293	3.25
65	MP2A	Z	18.067	3.25
66	MP2A	Mx	.02	3.25
67	MP2B	X	-25.825	3.25
68	MP2B	Z	14.91	3.25
69	MP2B	Mx	-.019	3.25
70	MP2C	X	-47.037	3.25
71	MP2C	Z	27.157	3.25
72	MP2C	Mx	.006	3.25
73	M101	X	-72.157	1
74	M101	Z	41.66	1
75	M101	Mx	.036	1
76	MP4A	X	-88.157	.5
77	MP4A	Z	50.898	.5
78	MP4A	Mx	.059	.5
79	MP4A	X	-88.157	5
80	MP4A	Z	50.898	5
81	MP4A	Mx	.059	5
82	MP4B	X	-78.306	.5
83	MP4B	Z	45.21	.5
84	MP4B	Mx	-.06	.5
85	MP4B	X	-78.306	5
86	MP4B	Z	45.21	5
87	MP4B	Mx	-.06	5
88	MP4C	X	-116.523	.5
89	MP4C	Z	67.275	.5
90	MP4C	Mx	.016	.5
91	MP4C	X	-116.523	5
92	MP4C	Z	67.275	5
93	MP4C	Mx	.016	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-78.662	.75
2	MP2A	Z	0	.75
3	MP2A	Mx	.052	.75
4	MP2A	X	-78.662	4.75
5	MP2A	Z	0	4.75
6	MP2A	Mx	.052	4.75
7	MP2B	X	-88.743	.75
8	MP2B	Z	0	.75
9	MP2B	Mx	-.029	.75
10	MP2B	X	-88.743	4.75
11	MP2B	Z	0	4.75
12	MP2B	Mx	-.029	4.75
13	MP2C	X	-114.269	.75
14	MP2C	Z	0	.75
15	MP2C	Mx	-.08	.75
16	MP2C	X	-114.269	4.75
17	MP2C	Z	0	4.75
18	MP2C	Mx	-.08	4.75
19	MP2A	X	-78.662	.75
20	MP2A	Z	0	.75
21	MP2A	Mx	.052	.75
22	MP2A	X	-78.662	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP2A	Z	0	4.75
24	MP2A	Mx	.052	4.75
25	MP2B	X	-88.743	.75
26	MP2B	Z	0	.75
27	MP2B	Mx	-.073	.75
28	MP2B	X	-88.743	4.75
29	MP2B	Z	0	4.75
30	MP2B	Mx	-.073	4.75
31	MP2C	X	-114.269	.75
32	MP2C	Z	0	.75
33	MP2C	Mx	.028	.75
34	MP2C	X	-114.269	4.75
35	MP2C	Z	0	4.75
36	MP2C	Mx	.028	4.75
37	MP1A	X	-27.097	2
38	MP1A	Z	0	2
39	MP1A	Mx	.011	2
40	MP1A	X	-27.097	3.5
41	MP1A	Z	0	3.5
42	MP1A	Mx	.011	3.5
43	MP1B	X	-37.625	2
44	MP1B	Z	0	2
45	MP1B	Mx	-.014	2
46	MP1B	X	-37.625	3.5
47	MP1B	Z	0	3.5
48	MP1B	Mx	-.014	3.5
49	MP1C	X	-64.286	2
50	MP1C	Z	0	2
51	MP1C	Mx	-.009	2
52	MP1C	X	-64.286	3.5
53	MP1C	Z	0	3.5
54	MP1C	Mx	-.009	3.5
55	MP2A	X	-36.815	1
56	MP2A	Z	0	1
57	MP2A	Mx	.023	1
58	MP2B	X	-41.38	1
59	MP2B	Z	0	1
60	MP2B	Mx	-.022	1
61	MP2C	X	-52.939	1
62	MP2C	Z	0	1
63	MP2C	Mx	-.011	1
64	MP2A	X	-29.82	3.25
65	MP2A	Z	0	3.25
66	MP2A	Mx	.019	3.25
67	MP2B	X	-36.134	3.25
68	MP2B	Z	0	3.25
69	MP2B	Mx	-.02	3.25
70	MP2C	X	-52.121	3.25
71	MP2C	Z	0	3.25
72	MP2C	Mx	-.011	3.25
73	M101	X	-73.886	1
74	M101	Z	0	1
75	M101	Mx	.037	1
76	MP4A	X	-90.42	.5
77	MP4A	Z	0	.5
78	MP4A	Mx	.06	.5
79	MP4A	X	-90.42	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
80	MP4A	Z	0	5
81	MP4A	Mx	.06	5
82	MP4B	X	-101.795	.5
83	MP4B	Z	0	.5
84	MP4B	Mx	-.059	.5
85	MP4B	X	-101.795	5
86	MP4B	Z	0	5
87	MP4B	Mx	-.059	5
88	MP4C	X	-130.599	.5
89	MP4C	Z	0	.5
90	MP4C	Mx	-.03	.5
91	MP4C	X	-130.599	5
92	MP4C	Z	0	5
93	MP4C	Mx	-.03	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-76.853	.75
2	MP2A	Z	-44.371	.75
3	MP2A	Mx	.029	.75
4	MP2A	X	-76.853	4.75
5	MP2A	Z	-44.371	4.75
6	MP2A	Mx	.029	4.75
7	MP2B	X	-94.315	.75
8	MP2B	Z	-54.453	.75
9	MP2B	Mx	.011	.75
10	MP2B	X	-94.315	4.75
11	MP2B	Z	-54.453	4.75
12	MP2B	Mx	.011	4.75
13	MP2C	X	-82.552	.75
14	MP2C	Z	-47.661	.75
15	MP2C	Mx	-.079	.75
16	MP2C	X	-82.552	4.75
17	MP2C	Z	-47.661	4.75
18	MP2C	Mx	-.079	4.75
19	MP2A	X	-76.853	.75
20	MP2A	Z	-44.371	.75
21	MP2A	Mx	.073	.75
22	MP2A	X	-76.853	4.75
23	MP2A	Z	-44.371	4.75
24	MP2A	Mx	.073	4.75
25	MP2B	X	-94.315	.75
26	MP2B	Z	-54.453	.75
27	MP2B	Mx	-.083	.75
28	MP2B	X	-94.315	4.75
29	MP2B	Z	-54.453	4.75
30	MP2B	Mx	-.083	4.75
31	MP2C	X	-82.552	.75
32	MP2C	Z	-47.661	.75
33	MP2C	Mx	-.018	.75
34	MP2C	X	-82.552	4.75
35	MP2C	Z	-47.661	4.75
36	MP2C	Mx	-.018	4.75
37	MP1A	X	-32.585	2
38	MP1A	Z	-18.813	2
39	MP1A	Mx	.014	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
40	MP1A	X	-32.585	3.5
41	MP1A	Z	-18.813	3.5
42	MP1A	Mx	.014	3.5
43	MP1B	X	-50.821	2
44	MP1B	Z	-29.342	2
45	MP1B	Mx	-.012	2
46	MP1B	X	-50.821	3.5
47	MP1B	Z	-29.342	3.5
48	MP1B	Mx	-.012	3.5
49	MP1C	X	-38.536	2
50	MP1C	Z	-22.249	2
51	MP1C	Mx	-.014	2
52	MP1C	X	-38.536	3.5
53	MP1C	Z	-22.249	3.5
54	MP1C	Mx	-.014	3.5
55	MP2A	X	-35.836	1
56	MP2A	Z	-20.69	1
57	MP2A	Mx	.022	1
58	MP2B	X	-43.743	1
59	MP2B	Z	-25.255	1
60	MP2B	Mx	-.016	1
61	MP2C	X	-38.417	1
62	MP2C	Z	-22.18	1
63	MP2C	Mx	-.021	1
64	MP2A	X	-31.293	3.25
65	MP2A	Z	-18.067	3.25
66	MP2A	Mx	.02	3.25
67	MP2B	X	-42.229	3.25
68	MP2B	Z	-24.381	3.25
69	MP2B	Mx	-.015	3.25
70	MP2C	X	-34.862	3.25
71	MP2C	Z	-20.128	3.25
72	MP2C	Mx	-.019	3.25
73	M101	X	-72.157	1
74	M101	Z	-41.66	1
75	M101	Mx	.036	1
76	MP4A	X	-88.157	.5
77	MP4A	Z	-50.898	.5
78	MP4A	Mx	.059	.5
79	MP4A	X	-88.157	5
80	MP4A	Z	-50.898	5
81	MP4A	Mx	.059	5
82	MP4B	X	-107.86	.5
83	MP4B	Z	-62.273	.5
84	MP4B	Mx	-.042	.5
85	MP4B	X	-107.86	5
86	MP4B	Z	-62.273	5
87	MP4B	Mx	-.042	5
88	MP4C	X	-94.587	.5
89	MP4C	Z	-54.61	.5
90	MP4C	Mx	-.056	.5
91	MP4C	X	-94.587	5
92	MP4C	Z	-54.61	5
93	MP4C	Mx	-.056	5

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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-54.453	.75
2	MP2A	Z	-94.315	.75
3	MP2A	Mx	-.011	.75
4	MP2A	X	-54.453	4.75
5	MP2A	Z	-94.315	4.75
6	MP2A	Mx	-.011	4.75
7	MP2B	X	-59.493	.75
8	MP2B	Z	-103.045	.75
9	MP2B	Mx	.059	.75
10	MP2B	X	-59.493	4.75
11	MP2B	Z	-103.045	4.75
12	MP2B	Mx	.059	4.75
13	MP2C	X	-39.939	.75
14	MP2C	Z	-69.176	.75
15	MP2C	Mx	-.059	.75
16	MP2C	X	-39.939	4.75
17	MP2C	Z	-69.176	4.75
18	MP2C	Mx	-.059	4.75
19	MP2A	X	-54.453	.75
20	MP2A	Z	-94.315	.75
21	MP2A	Mx	.083	.75
22	MP2A	X	-54.453	4.75
23	MP2A	Z	-94.315	4.75
24	MP2A	Mx	.083	4.75
25	MP2B	X	-59.493	.75
26	MP2B	Z	-103.045	.75
27	MP2B	Mx	-.059	.75
28	MP2B	X	-59.493	4.75
29	MP2B	Z	-103.045	4.75
30	MP2B	Mx	-.059	4.75
31	MP2C	X	-39.939	.75
32	MP2C	Z	-69.176	.75
33	MP2C	Mx	-.046	.75
34	MP2C	X	-39.939	4.75
35	MP2C	Z	-69.176	4.75
36	MP2C	Mx	-.046	4.75
37	MP1A	X	-29.342	2
38	MP1A	Z	-50.821	2
39	MP1A	Mx	.012	2
40	MP1A	X	-29.342	3.5
41	MP1A	Z	-50.821	3.5
42	MP1A	Mx	.012	3.5
43	MP1B	X	-34.606	2
44	MP1B	Z	-59.94	2
45	MP1B	Mx	0	2
46	MP1B	X	-34.606	3.5
47	MP1B	Z	-59.94	3.5
48	MP1B	Mx	0	3.5
49	MP1C	X	-14.183	2
50	MP1C	Z	-24.566	2
51	MP1C	Mx	-.012	2
52	MP1C	X	-14.183	3.5
53	MP1C	Z	-24.566	3.5
54	MP1C	Mx	-.012	3.5
55	MP2A	X	-25.255	1
56	MP2A	Z	-43.743	1
57	MP2A	Mx	.016	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	-27.538	1
59	MP2B	Z	-47.697	1
60	MP2B	Mx	0	1
61	MP2C	X	-18.683	1
62	MP2C	Z	-32.36	1
63	MP2C	Mx	-.023	1
64	MP2A	X	-24.381	3.25
65	MP2A	Z	-42.229	3.25
66	MP2A	Mx	.015	3.25
67	MP2B	X	-27.538	3.25
68	MP2B	Z	-47.697	3.25
69	MP2B	Mx	0	3.25
70	MP2C	X	-15.291	3.25
71	MP2C	Z	-26.485	3.25
72	MP2C	Mx	-.019	3.25
73	M101	X	-51.094	1
74	M101	Z	-88.498	1
75	M101	Mx	.026	1
76	MP4A	X	-62.273	.5
77	MP4A	Z	-107.86	.5
78	MP4A	Mx	.042	.5
79	MP4A	X	-62.273	5
80	MP4A	Z	-107.86	5
81	MP4A	Mx	.042	5
82	MP4B	X	-67.961	.5
83	MP4B	Z	-117.711	.5
84	MP4B	Mx	0	.5
85	MP4B	X	-67.961	5
86	MP4B	Z	-117.711	5
87	MP4B	Mx	0	5
88	MP4C	X	-45.896	.5
89	MP4C	Z	-79.494	.5
90	MP4C	Mx	-.06	.5
91	MP4C	X	-45.896	5
92	MP4C	Z	-79.494	5
93	MP4C	Mx	-.06	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.75
2	MP2A	Z	-24.186	.75
3	MP2A	Mx	-.012	.75
4	MP2A	X	0	4.75
5	MP2A	Z	-24.186	4.75
6	MP2A	Mx	-.012	4.75
7	MP2B	X	0	.75
8	MP2B	Z	-22.381	.75
9	MP2B	Mx	.017	.75
10	MP2B	X	0	4.75
11	MP2B	Z	-22.381	4.75
12	MP2B	Mx	.017	4.75
13	MP2C	X	0	.75
14	MP2C	Z	-17.81	.75
15	MP2C	Mx	-.008	.75
16	MP2C	X	0	4.75
17	MP2C	Z	-17.81	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP2C	Mx	-.008	4.75
19	MP2A	X	0	.75
20	MP2A	Z	-24.186	.75
21	MP2A	Mx	.012	.75
22	MP2A	X	0	4.75
23	MP2A	Z	-24.186	4.75
24	MP2A	Mx	.012	4.75
25	MP2B	X	0	.75
26	MP2B	Z	-22.381	.75
27	MP2B	Mx	-.002	.75
28	MP2B	X	0	4.75
29	MP2B	Z	-22.381	4.75
30	MP2B	Mx	-.002	4.75
31	MP2C	X	0	.75
32	MP2C	Z	-17.81	.75
33	MP2C	Mx	-.014	.75
34	MP2C	X	0	4.75
35	MP2C	Z	-17.81	4.75
36	MP2C	Mx	-.014	4.75
37	MP1A	X	0	2
38	MP1A	Z	-14.528	2
39	MP1A	Mx	0	2
40	MP1A	X	0	3.5
41	MP1A	Z	-14.528	3.5
42	MP1A	Mx	0	3.5
43	MP1B	X	0	2
44	MP1B	Z	-12.501	2
45	MP1B	Mx	.003	2
46	MP1B	X	0	3.5
47	MP1B	Z	-12.501	3.5
48	MP1B	Mx	.003	3.5
49	MP1C	X	0	2
50	MP1C	Z	-7.368	2
51	MP1C	Mx	-.003	2
52	MP1C	X	0	3.5
53	MP1C	Z	-7.368	3.5
54	MP1C	Mx	-.003	3.5
55	MP2A	X	0	1
56	MP2A	Z	-12.542	1
57	MP2A	Mx	0	1
58	MP2B	X	0	1
59	MP2B	Z	-11.625	1
60	MP2B	Mx	.004	1
61	MP2C	X	0	1
62	MP2C	Z	-9.302	1
63	MP2C	Mx	-.005	1
64	MP2A	X	0	3.25
65	MP2A	Z	-12.542	3.25
66	MP2A	Mx	0	3.25
67	MP2B	X	0	3.25
68	MP2B	Z	-11.276	3.25
69	MP2B	Mx	.004	3.25
70	MP2C	X	0	3.25
71	MP2C	Z	-8.071	3.25
72	MP2C	Mx	-.005	3.25
73	M101	X	0	1
74	M101	Z	-23.677	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	M101	Mx	0	1
76	MP4A	X	0	.5
77	MP4A	Z	-27.5	.5
78	MP4A	Mx	0	.5
79	MP4A	X	0	5
80	MP4A	Z	-27.5	5
81	MP4A	Mx	0	5
82	MP4B	X	0	.5
83	MP4B	Z	-25.454	.5
84	MP4B	Mx	.008	.5
85	MP4B	X	0	5
86	MP4B	Z	-25.454	5
87	MP4B	Mx	.008	5
88	MP4C	X	0	.5
89	MP4C	Z	-20.273	.5
90	MP4C	Mx	-.013	.5
91	MP4C	X	0	5
92	MP4C	Z	-20.273	5
93	MP4C	Mx	-.013	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	11.19	.75
2	MP2A	Z	-19.382	.75
3	MP2A	Mx	-.017	.75
4	MP2A	X	11.19	4.75
5	MP2A	Z	-19.382	4.75
6	MP2A	Mx	-.017	4.75
7	MP2B	X	9.385	.75
8	MP2B	Z	-16.255	.75
9	MP2B	Mx	.016	.75
10	MP2B	X	9.385	4.75
11	MP2B	Z	-16.255	4.75
12	MP2B	Mx	.016	4.75
13	MP2C	X	10.601	.75
14	MP2C	Z	-18.362	.75
15	MP2C	Mx	-.000965	.75
16	MP2C	X	10.601	4.75
17	MP2C	Z	-18.362	4.75
18	MP2C	Mx	-.000965	4.75
19	MP2A	X	11.19	.75
20	MP2A	Z	-19.382	.75
21	MP2A	Mx	.002	.75
22	MP2A	X	11.19	4.75
23	MP2A	Z	-19.382	4.75
24	MP2A	Mx	.002	4.75
25	MP2B	X	9.385	.75
26	MP2B	Z	-16.255	.75
27	MP2B	Mx	.006	.75
28	MP2B	X	9.385	4.75
29	MP2B	Z	-16.255	4.75
30	MP2B	Mx	.006	4.75
31	MP2C	X	10.601	.75
32	MP2C	Z	-18.362	.75
33	MP2C	Mx	-.017	.75
34	MP2C	X	10.601	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP2C	Z	-18.362	4.75
36	MP2C	Mx	-.017	4.75
37	MP1A	X	6.25	2
38	MP1A	Z	-10.826	2
39	MP1A	Mx	-.003	2
40	MP1A	X	6.25	3.5
41	MP1A	Z	-10.826	3.5
42	MP1A	Mx	-.003	3.5
43	MP1B	X	4.223	2
44	MP1B	Z	-7.315	2
45	MP1B	Mx	.003	2
46	MP1B	X	4.223	3.5
47	MP1B	Z	-7.315	3.5
48	MP1B	Mx	.003	3.5
49	MP1C	X	5.589	2
50	MP1C	Z	-9.68	2
51	MP1C	Mx	-.003	2
52	MP1C	X	5.589	3.5
53	MP1C	Z	-9.68	3.5
54	MP1C	Mx	-.003	3.5
55	MP2A	X	5.812	1
56	MP2A	Z	-10.067	1
57	MP2A	Mx	-.004	1
58	MP2B	X	4.895	1
59	MP2B	Z	-8.479	1
60	MP2B	Mx	.005	1
61	MP2C	X	5.513	1
62	MP2C	Z	-9.549	1
63	MP2C	Mx	-.004	1
64	MP2A	X	5.638	3.25
65	MP2A	Z	-9.765	3.25
66	MP2A	Mx	-.004	3.25
67	MP2B	X	4.372	3.25
68	MP2B	Z	-7.573	3.25
69	MP2B	Mx	.005	3.25
70	MP2C	X	5.225	3.25
71	MP2C	Z	-9.05	3.25
72	MP2C	Mx	-.004	3.25
73	M101	X	10.936	1
74	M101	Z	-18.942	1
75	M101	Mx	-.005	1
76	MP4A	X	12.727	.5
77	MP4A	Z	-22.044	.5
78	MP4A	Mx	-.008	.5
79	MP4A	X	12.727	5
80	MP4A	Z	-22.044	5
81	MP4A	Mx	-.008	5
82	MP4B	X	10.681	.5
83	MP4B	Z	-18.5	.5
84	MP4B	Mx	.012	.5
85	MP4B	X	10.681	5
86	MP4B	Z	-18.5	5
87	MP4B	Mx	.012	5
88	MP4C	X	12.059	.5
89	MP4C	Z	-20.887	.5
90	MP4C	Mx	-.01	.5
91	MP4C	X	12.059	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
92	MP4C	Z	-20.887	5
93	MP4C	Mx	-.01	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	16.255	.75
2	MP2A	Z	-9.385	.75
3	MP2A	Mx	-.016	.75
4	MP2A	X	16.255	4.75
5	MP2A	Z	-9.385	4.75
6	MP2A	Mx	-.016	4.75
7	MP2B	X	14.692	.75
8	MP2B	Z	-8.482	.75
9	MP2B	Mx	.011	.75
10	MP2B	X	14.692	4.75
11	MP2B	Z	-8.482	4.75
12	MP2B	Mx	.011	4.75
13	MP2C	X	20.757	.75
14	MP2C	Z	-11.984	.75
15	MP2C	Mx	.009	.75
16	MP2C	X	20.757	4.75
17	MP2C	Z	-11.984	4.75
18	MP2C	Mx	.009	4.75
19	MP2A	X	16.255	.75
20	MP2A	Z	-9.385	.75
21	MP2A	Mx	-.006	.75
22	MP2A	X	16.255	4.75
23	MP2A	Z	-9.385	4.75
24	MP2A	Mx	-.006	4.75
25	MP2B	X	14.692	.75
26	MP2B	Z	-8.482	.75
27	MP2B	Mx	.011	.75
28	MP2B	X	14.692	4.75
29	MP2B	Z	-8.482	4.75
30	MP2B	Mx	.011	4.75
31	MP2C	X	20.757	.75
32	MP2C	Z	-11.984	.75
33	MP2C	Mx	-.015	.75
34	MP2C	X	20.757	4.75
35	MP2C	Z	-11.984	4.75
36	MP2C	Mx	-.015	4.75
37	MP1A	X	7.315	2
38	MP1A	Z	-4.223	2
39	MP1A	Mx	-.003	2
40	MP1A	X	7.315	3.5
41	MP1A	Z	-4.223	3.5
42	MP1A	Mx	-.003	3.5
43	MP1B	X	5.559	2
44	MP1B	Z	-3.21	2
45	MP1B	Mx	.003	2
46	MP1B	X	5.559	3.5
47	MP1B	Z	-3.21	3.5
48	MP1B	Mx	.003	3.5
49	MP1C	X	12.37	2
50	MP1C	Z	-7.142	2
51	MP1C	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
52	MP1C	X	12.37	3.5
53	MP1C	Z	-7.142	3.5
54	MP1C	Mx	-.001	3.5
55	MP2A	X	8.479	1
56	MP2A	Z	-4.895	1
57	MP2A	Mx	-.005	1
58	MP2B	X	7.684	1
59	MP2B	Z	-4.437	1
60	MP2B	Mx	.006	1
61	MP2C	X	10.766	1
62	MP2C	Z	-6.216	1
63	MP2C	Mx	-.001	1
64	MP2A	X	7.573	3.25
65	MP2A	Z	-4.372	3.25
66	MP2A	Mx	-.005	3.25
67	MP2B	X	6.477	3.25
68	MP2B	Z	-3.739	3.25
69	MP2B	Mx	.005	3.25
70	MP2C	X	10.729	3.25
71	MP2C	Z	-6.195	3.25
72	MP2C	Mx	-.001	3.25
73	M101	X	15.818	1
74	M101	Z	-9.133	1
75	M101	Mx	-.008	1
76	MP4A	X	18.5	.5
77	MP4A	Z	-10.681	.5
78	MP4A	Mx	-.012	.5
79	MP4A	X	18.5	5
80	MP4A	Z	-10.681	5
81	MP4A	Mx	-.012	5
82	MP4B	X	16.728	.5
83	MP4B	Z	-9.658	.5
84	MP4B	Mx	.013	.5
85	MP4B	X	16.728	5
86	MP4B	Z	-9.658	5
87	MP4B	Mx	.013	5
88	MP4C	X	23.602	.5
89	MP4C	Z	-13.627	.5
90	MP4C	Mx	-.003	.5
91	MP4C	X	23.602	5
92	MP4C	Z	-13.627	5
93	MP4C	Mx	-.003	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	16.965	.75
2	MP2A	Z	0	.75
3	MP2A	Mx	-.011	.75
4	MP2A	X	16.965	4.75
5	MP2A	Z	0	4.75
6	MP2A	Mx	-.011	4.75
7	MP2B	X	18.77	.75
8	MP2B	Z	0	.75
9	MP2B	Mx	.006	.75
10	MP2B	X	18.77	4.75
11	MP2B	Z	0	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP2B	Mx	.006	4.75
13	MP2C	X	23.341	.75
14	MP2C	Z	0	.75
15	MP2C	Mx	.016	.75
16	MP2C	X	23.341	4.75
17	MP2C	Z	0	4.75
18	MP2C	Mx	.016	4.75
19	MP2A	X	16.965	.75
20	MP2A	Z	0	.75
21	MP2A	Mx	-.011	.75
22	MP2A	X	16.965	4.75
23	MP2A	Z	0	4.75
24	MP2A	Mx	-.011	4.75
25	MP2B	X	18.77	.75
26	MP2B	Z	0	.75
27	MP2B	Mx	.016	.75
28	MP2B	X	18.77	4.75
29	MP2B	Z	0	4.75
30	MP2B	Mx	.016	4.75
31	MP2C	X	23.341	.75
32	MP2C	Z	0	.75
33	MP2C	Mx	-.006	.75
34	MP2C	X	23.341	4.75
35	MP2C	Z	0	4.75
36	MP2C	Mx	-.006	4.75
37	MP1A	X	6.419	2
38	MP1A	Z	0	2
39	MP1A	Mx	-.003	2
40	MP1A	X	6.419	3.5
41	MP1A	Z	0	3.5
42	MP1A	Mx	-.003	3.5
43	MP1B	X	8.446	2
44	MP1B	Z	0	2
45	MP1B	Mx	.003	2
46	MP1B	X	8.446	3.5
47	MP1B	Z	0	3.5
48	MP1B	Mx	.003	3.5
49	MP1C	X	13.579	2
50	MP1C	Z	0	2
51	MP1C	Mx	.002	2
52	MP1C	X	13.579	3.5
53	MP1C	Z	0	3.5
54	MP1C	Mx	.002	3.5
55	MP2A	X	8.873	1
56	MP2A	Z	0	1
57	MP2A	Mx	-.006	1
58	MP2B	X	9.79	1
59	MP2B	Z	0	1
60	MP2B	Mx	.005	1
61	MP2C	X	12.113	1
62	MP2C	Z	0	1
63	MP2C	Mx	.003	1
64	MP2A	X	7.479	3.25
65	MP2A	Z	0	3.25
66	MP2A	Mx	-.005	3.25
67	MP2B	X	8.745	3.25
68	MP2B	Z	0	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP2B	Mx	.005	3.25
70	MP2C	X	11.95	3.25
71	MP2C	Z	0	3.25
72	MP2C	Mx	.003	3.25
73	M101	X	16.462	1
74	M101	Z	0	1
75	M101	Mx	-.008	1
76	MP4A	X	19.316	.5
77	MP4A	Z	0	.5
78	MP4A	Mx	-.013	.5
79	MP4A	X	19.316	5
80	MP4A	Z	0	5
81	MP4A	Mx	-.013	5
82	MP4B	X	21.362	.5
83	MP4B	Z	0	.5
84	MP4B	Mx	.012	.5
85	MP4B	X	21.362	5
86	MP4B	Z	0	5
87	MP4B	Mx	.012	5
88	MP4C	X	26.543	.5
89	MP4C	Z	0	.5
90	MP4C	Mx	.006	.5
91	MP4C	X	26.543	5
92	MP4C	Z	0	5
93	MP4C	Mx	.006	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	16.255	.75
2	MP2A	Z	9.385	.75
3	MP2A	Mx	-.006	.75
4	MP2A	X	16.255	4.75
5	MP2A	Z	9.385	4.75
6	MP2A	Mx	-.006	4.75
7	MP2B	X	19.382	.75
8	MP2B	Z	11.19	.75
9	MP2B	Mx	-.002	.75
10	MP2B	X	19.382	4.75
11	MP2B	Z	11.19	4.75
12	MP2B	Mx	-.002	4.75
13	MP2C	X	17.276	.75
14	MP2C	Z	9.974	.75
15	MP2C	Mx	.017	.75
16	MP2C	X	17.276	4.75
17	MP2C	Z	9.974	4.75
18	MP2C	Mx	.017	4.75
19	MP2A	X	16.255	.75
20	MP2A	Z	9.385	.75
21	MP2A	Mx	-.016	.75
22	MP2A	X	16.255	4.75
23	MP2A	Z	9.385	4.75
24	MP2A	Mx	-.016	4.75
25	MP2B	X	19.382	.75
26	MP2B	Z	11.19	.75
27	MP2B	Mx	.017	.75
28	MP2B	X	19.382	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2B	Z	11.19	4.75
30	MP2B	Mx	.017	4.75
31	MP2C	X	17.276	.75
32	MP2C	Z	9.974	.75
33	MP2C	Mx	.004	.75
34	MP2C	X	17.276	4.75
35	MP2C	Z	9.974	4.75
36	MP2C	Mx	.004	4.75
37	MP1A	X	7.315	2
38	MP1A	Z	4.223	2
39	MP1A	Mx	-.003	2
40	MP1A	X	7.315	3.5
41	MP1A	Z	4.223	3.5
42	MP1A	Mx	-.003	3.5
43	MP1B	X	10.826	2
44	MP1B	Z	6.25	2
45	MP1B	Mx	.003	2
46	MP1B	X	10.826	3.5
47	MP1B	Z	6.25	3.5
48	MP1B	Mx	.003	3.5
49	MP1C	X	8.461	2
50	MP1C	Z	4.885	2
51	MP1C	Mx	.003	2
52	MP1C	X	8.461	3.5
53	MP1C	Z	4.885	3.5
54	MP1C	Mx	.003	3.5
55	MP2A	X	8.479	1
56	MP2A	Z	4.895	1
57	MP2A	Mx	-.005	1
58	MP2B	X	10.067	1
59	MP2B	Z	5.812	1
60	MP2B	Mx	.004	1
61	MP2C	X	8.997	1
62	MP2C	Z	5.194	1
63	MP2C	Mx	.005	1
64	MP2A	X	7.573	3.25
65	MP2A	Z	4.372	3.25
66	MP2A	Mx	-.005	3.25
67	MP2B	X	9.765	3.25
68	MP2B	Z	5.638	3.25
69	MP2B	Mx	.004	3.25
70	MP2C	X	8.289	3.25
71	MP2C	Z	4.785	3.25
72	MP2C	Mx	.005	3.25
73	M101	X	15.818	1
74	M101	Z	9.133	1
75	M101	Mx	-.008	1
76	MP4A	X	18.5	.5
77	MP4A	Z	10.681	.5
78	MP4A	Mx	-.012	.5
79	MP4A	X	18.5	5
80	MP4A	Z	10.681	5
81	MP4A	Mx	-.012	5
82	MP4B	X	22.044	.5
83	MP4B	Z	12.727	.5
84	MP4B	Mx	.008	.5
85	MP4B	X	22.044	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
86	MP4B	Z	12.727	5
87	MP4B	Mx	.008	5
88	MP4C	X	19.656	.5
89	MP4C	Z	11.349	.5
90	MP4C	Mx	.012	.5
91	MP4C	X	19.656	5
92	MP4C	Z	11.349	5
93	MP4C	Mx	.012	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	11.19	.75
2	MP2A	Z	19.382	.75
3	MP2A	Mx	.002	.75
4	MP2A	X	11.19	4.75
5	MP2A	Z	19.382	4.75
6	MP2A	Mx	.002	4.75
7	MP2B	X	12.093	.75
8	MP2B	Z	20.946	.75
9	MP2B	Mx	-.012	.75
10	MP2B	X	12.093	4.75
11	MP2B	Z	20.946	4.75
12	MP2B	Mx	-.012	4.75
13	MP2C	X	8.591	.75
14	MP2C	Z	14.881	.75
15	MP2C	Mx	.013	.75
16	MP2C	X	8.591	4.75
17	MP2C	Z	14.881	4.75
18	MP2C	Mx	.013	4.75
19	MP2A	X	11.19	.75
20	MP2A	Z	19.382	.75
21	MP2A	Mx	-.017	.75
22	MP2A	X	11.19	4.75
23	MP2A	Z	19.382	4.75
24	MP2A	Mx	-.017	4.75
25	MP2B	X	12.093	.75
26	MP2B	Z	20.946	.75
27	MP2B	Mx	.012	.75
28	MP2B	X	12.093	4.75
29	MP2B	Z	20.946	4.75
30	MP2B	Mx	.012	4.75
31	MP2C	X	8.591	.75
32	MP2C	Z	14.881	.75
33	MP2C	Mx	.01	.75
34	MP2C	X	8.591	4.75
35	MP2C	Z	14.881	4.75
36	MP2C	Mx	.01	4.75
37	MP1A	X	6.25	2
38	MP1A	Z	10.826	2
39	MP1A	Mx	-.003	2
40	MP1A	X	6.25	3.5
41	MP1A	Z	10.826	3.5
42	MP1A	Mx	-.003	3.5
43	MP1B	X	7.264	2
44	MP1B	Z	12.582	2
45	MP1B	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
46	MP1B	X	7.264	3.5
47	MP1B	Z	12.582	3.5
48	MP1B	Mx	0	3.5
49	MP1C	X	3.332	2
50	MP1C	Z	5.771	2
51	MP1C	Mx	.003	2
52	MP1C	X	3.332	3.5
53	MP1C	Z	5.771	3.5
54	MP1C	Mx	.003	3.5
55	MP2A	X	5.812	1
56	MP2A	Z	10.067	1
57	MP2A	Mx	-.004	1
58	MP2B	X	6.271	1
59	MP2B	Z	10.862	1
60	MP2B	Mx	0	1
61	MP2C	X	4.492	1
62	MP2C	Z	7.78	1
63	MP2C	Mx	.006	1
64	MP2A	X	5.638	3.25
65	MP2A	Z	9.765	3.25
66	MP2A	Mx	-.004	3.25
67	MP2B	X	6.271	3.25
68	MP2B	Z	10.862	3.25
69	MP2B	Mx	0	3.25
70	MP2C	X	3.816	3.25
71	MP2C	Z	6.609	3.25
72	MP2C	Mx	.005	3.25
73	M101	X	10.936	1
74	M101	Z	18.942	1
75	M101	Mx	-.005	1
76	MP4A	X	12.727	.5
77	MP4A	Z	22.044	.5
78	MP4A	Mx	-.008	.5
79	MP4A	X	12.727	5
80	MP4A	Z	22.044	5
81	MP4A	Mx	-.008	5
82	MP4B	X	13.75	.5
83	MP4B	Z	23.816	.5
84	MP4B	Mx	0	.5
85	MP4B	X	13.75	5
86	MP4B	Z	23.816	5
87	MP4B	Mx	0	5
88	MP4C	X	9.781	.5
89	MP4C	Z	16.941	.5
90	MP4C	Mx	.013	.5
91	MP4C	X	9.781	5
92	MP4C	Z	16.941	5
93	MP4C	Mx	.013	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.75
2	MP2A	Z	24.186	.75
3	MP2A	Mx	.012	.75
4	MP2A	X	0	4.75
5	MP2A	Z	24.186	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP2A	Mx	.012	4.75
7	MP2B	X	0	.75
8	MP2B	Z	22.381	.75
9	MP2B	Mx	-.017	.75
10	MP2B	X	0	4.75
11	MP2B	Z	22.381	4.75
12	MP2B	Mx	-.017	4.75
13	MP2C	X	0	.75
14	MP2C	Z	17.81	.75
15	MP2C	Mx	.008	.75
16	MP2C	X	0	4.75
17	MP2C	Z	17.81	4.75
18	MP2C	Mx	.008	4.75
19	MP2A	X	0	.75
20	MP2A	Z	24.186	.75
21	MP2A	Mx	-.012	.75
22	MP2A	X	0	4.75
23	MP2A	Z	24.186	4.75
24	MP2A	Mx	-.012	4.75
25	MP2B	X	0	.75
26	MP2B	Z	22.381	.75
27	MP2B	Mx	.002	.75
28	MP2B	X	0	4.75
29	MP2B	Z	22.381	4.75
30	MP2B	Mx	.002	4.75
31	MP2C	X	0	.75
32	MP2C	Z	17.81	.75
33	MP2C	Mx	.014	.75
34	MP2C	X	0	4.75
35	MP2C	Z	17.81	4.75
36	MP2C	Mx	.014	4.75
37	MP1A	X	0	2
38	MP1A	Z	14.528	2
39	MP1A	Mx	0	2
40	MP1A	X	0	3.5
41	MP1A	Z	14.528	3.5
42	MP1A	Mx	0	3.5
43	MP1B	X	0	2
44	MP1B	Z	12.501	2
45	MP1B	Mx	-.003	2
46	MP1B	X	0	3.5
47	MP1B	Z	12.501	3.5
48	MP1B	Mx	-.003	3.5
49	MP1C	X	0	2
50	MP1C	Z	7.368	2
51	MP1C	Mx	.003	2
52	MP1C	X	0	3.5
53	MP1C	Z	7.368	3.5
54	MP1C	Mx	.003	3.5
55	MP2A	X	0	1
56	MP2A	Z	12.542	1
57	MP2A	Mx	0	1
58	MP2B	X	0	1
59	MP2B	Z	11.625	1
60	MP2B	Mx	-.004	1
61	MP2C	X	0	1
62	MP2C	Z	9.302	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP2C	Mx	.005	1
64	MP2A	X	0	3.25
65	MP2A	Z	12.542	3.25
66	MP2A	Mx	0	3.25
67	MP2B	X	0	3.25
68	MP2B	Z	11.276	3.25
69	MP2B	Mx	-.004	3.25
70	MP2C	X	0	3.25
71	MP2C	Z	8.071	3.25
72	MP2C	Mx	.005	3.25
73	M101	X	0	1
74	M101	Z	23.677	1
75	M101	Mx	0	1
76	MP4A	X	0	.5
77	MP4A	Z	27.5	.5
78	MP4A	Mx	0	.5
79	MP4A	X	0	5
80	MP4A	Z	27.5	5
81	MP4A	Mx	0	5
82	MP4B	X	0	.5
83	MP4B	Z	25.454	.5
84	MP4B	Mx	-.008	.5
85	MP4B	X	0	5
86	MP4B	Z	25.454	5
87	MP4B	Mx	-.008	5
88	MP4C	X	0	.5
89	MP4C	Z	20.273	.5
90	MP4C	Mx	.013	.5
91	MP4C	X	0	5
92	MP4C	Z	20.273	5
93	MP4C	Mx	.013	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-11.19	.75
2	MP2A	Z	19.382	.75
3	MP2A	Mx	.017	.75
4	MP2A	X	-11.19	4.75
5	MP2A	Z	19.382	4.75
6	MP2A	Mx	.017	4.75
7	MP2B	X	-9.385	.75
8	MP2B	Z	16.255	.75
9	MP2B	Mx	-.016	.75
10	MP2B	X	-9.385	4.75
11	MP2B	Z	16.255	4.75
12	MP2B	Mx	-.016	4.75
13	MP2C	X	-10.601	.75
14	MP2C	Z	18.362	.75
15	MP2C	Mx	.000965	.75
16	MP2C	X	-10.601	4.75
17	MP2C	Z	18.362	4.75
18	MP2C	Mx	.000965	4.75
19	MP2A	X	-11.19	.75
20	MP2A	Z	19.382	.75
21	MP2A	Mx	-.002	.75
22	MP2A	X	-11.19	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP2A	Z	19.382	4.75
24	MP2A	Mx	-.002	4.75
25	MP2B	X	-9.385	.75
26	MP2B	Z	16.255	.75
27	MP2B	Mx	-.006	.75
28	MP2B	X	-9.385	4.75
29	MP2B	Z	16.255	4.75
30	MP2B	Mx	-.006	4.75
31	MP2C	X	-10.601	.75
32	MP2C	Z	18.362	.75
33	MP2C	Mx	.017	.75
34	MP2C	X	-10.601	4.75
35	MP2C	Z	18.362	4.75
36	MP2C	Mx	.017	4.75
37	MP1A	X	-6.25	2
38	MP1A	Z	10.826	2
39	MP1A	Mx	.003	2
40	MP1A	X	-6.25	3.5
41	MP1A	Z	10.826	3.5
42	MP1A	Mx	.003	3.5
43	MP1B	X	-4.223	2
44	MP1B	Z	7.315	2
45	MP1B	Mx	-.003	2
46	MP1B	X	-4.223	3.5
47	MP1B	Z	7.315	3.5
48	MP1B	Mx	-.003	3.5
49	MP1C	X	-5.589	2
50	MP1C	Z	9.68	2
51	MP1C	Mx	.003	2
52	MP1C	X	-5.589	3.5
53	MP1C	Z	9.68	3.5
54	MP1C	Mx	.003	3.5
55	MP2A	X	-5.812	1
56	MP2A	Z	10.067	1
57	MP2A	Mx	.004	1
58	MP2B	X	-4.895	1
59	MP2B	Z	8.479	1
60	MP2B	Mx	-.005	1
61	MP2C	X	-5.513	1
62	MP2C	Z	9.549	1
63	MP2C	Mx	.004	1
64	MP2A	X	-5.638	3.25
65	MP2A	Z	9.765	3.25
66	MP2A	Mx	.004	3.25
67	MP2B	X	-4.372	3.25
68	MP2B	Z	7.573	3.25
69	MP2B	Mx	-.005	3.25
70	MP2C	X	-5.225	3.25
71	MP2C	Z	9.05	3.25
72	MP2C	Mx	.004	3.25
73	M101	X	-10.936	1
74	M101	Z	18.942	1
75	M101	Mx	.005	1
76	MP4A	X	-12.727	.5
77	MP4A	Z	22.044	.5
78	MP4A	Mx	.008	.5
79	MP4A	X	-12.727	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
80	MP4A	Z	22.044	5
81	MP4A	Mx	.008	5
82	MP4B	X	-10.681	.5
83	MP4B	Z	18.5	.5
84	MP4B	Mx	-.012	.5
85	MP4B	X	-10.681	5
86	MP4B	Z	18.5	5
87	MP4B	Mx	-.012	5
88	MP4C	X	-12.059	.5
89	MP4C	Z	20.887	.5
90	MP4C	Mx	.01	.5
91	MP4C	X	-12.059	5
92	MP4C	Z	20.887	5
93	MP4C	Mx	.01	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-16.255	.75
2	MP2A	Z	9.385	.75
3	MP2A	Mx	.016	.75
4	MP2A	X	-16.255	4.75
5	MP2A	Z	9.385	4.75
6	MP2A	Mx	.016	4.75
7	MP2B	X	-14.692	.75
8	MP2B	Z	8.482	.75
9	MP2B	Mx	-.011	.75
10	MP2B	X	-14.692	4.75
11	MP2B	Z	8.482	4.75
12	MP2B	Mx	-.011	4.75
13	MP2C	X	-20.757	.75
14	MP2C	Z	11.984	.75
15	MP2C	Mx	-.009	.75
16	MP2C	X	-20.757	4.75
17	MP2C	Z	11.984	4.75
18	MP2C	Mx	-.009	4.75
19	MP2A	X	-16.255	.75
20	MP2A	Z	9.385	.75
21	MP2A	Mx	.006	.75
22	MP2A	X	-16.255	4.75
23	MP2A	Z	9.385	4.75
24	MP2A	Mx	.006	4.75
25	MP2B	X	-14.692	.75
26	MP2B	Z	8.482	.75
27	MP2B	Mx	-.011	.75
28	MP2B	X	-14.692	4.75
29	MP2B	Z	8.482	4.75
30	MP2B	Mx	-.011	4.75
31	MP2C	X	-20.757	.75
32	MP2C	Z	11.984	.75
33	MP2C	Mx	.015	.75
34	MP2C	X	-20.757	4.75
35	MP2C	Z	11.984	4.75
36	MP2C	Mx	.015	4.75
37	MP1A	X	-7.315	2
38	MP1A	Z	4.223	2
39	MP1A	Mx	.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
40	MP1A	X	-7.315	3.5
41	MP1A	Z	4.223	3.5
42	MP1A	Mx	.003	3.5
43	MP1B	X	-5.559	2
44	MP1B	Z	3.21	2
45	MP1B	Mx	-.003	2
46	MP1B	X	-5.559	3.5
47	MP1B	Z	3.21	3.5
48	MP1B	Mx	-.003	3.5
49	MP1C	X	-12.37	2
50	MP1C	Z	7.142	2
51	MP1C	Mx	.001	2
52	MP1C	X	-12.37	3.5
53	MP1C	Z	7.142	3.5
54	MP1C	Mx	.001	3.5
55	MP2A	X	-8.479	1
56	MP2A	Z	4.895	1
57	MP2A	Mx	.005	1
58	MP2B	X	-7.684	1
59	MP2B	Z	4.437	1
60	MP2B	Mx	-.006	1
61	MP2C	X	-10.766	1
62	MP2C	Z	6.216	1
63	MP2C	Mx	.001	1
64	MP2A	X	-7.573	3.25
65	MP2A	Z	4.372	3.25
66	MP2A	Mx	.005	3.25
67	MP2B	X	-6.477	3.25
68	MP2B	Z	3.739	3.25
69	MP2B	Mx	-.005	3.25
70	MP2C	X	-10.729	3.25
71	MP2C	Z	6.195	3.25
72	MP2C	Mx	.001	3.25
73	M101	X	-15.818	1
74	M101	Z	9.133	1
75	M101	Mx	.008	1
76	MP4A	X	-18.5	.5
77	MP4A	Z	10.681	.5
78	MP4A	Mx	.012	.5
79	MP4A	X	-18.5	5
80	MP4A	Z	10.681	5
81	MP4A	Mx	.012	5
82	MP4B	X	-16.728	.5
83	MP4B	Z	9.658	.5
84	MP4B	Mx	-.013	.5
85	MP4B	X	-16.728	5
86	MP4B	Z	9.658	5
87	MP4B	Mx	-.013	5
88	MP4C	X	-23.602	.5
89	MP4C	Z	13.627	.5
90	MP4C	Mx	.003	.5
91	MP4C	X	-23.602	5
92	MP4C	Z	13.627	5
93	MP4C	Mx	.003	5

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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-16.965	.75
2	MP2A	Z	0	.75
3	MP2A	Mx	.011	.75
4	MP2A	X	-16.965	4.75
5	MP2A	Z	0	4.75
6	MP2A	Mx	.011	4.75
7	MP2B	X	-18.77	.75
8	MP2B	Z	0	.75
9	MP2B	Mx	-.006	.75
10	MP2B	X	-18.77	4.75
11	MP2B	Z	0	4.75
12	MP2B	Mx	-.006	4.75
13	MP2C	X	-23.341	.75
14	MP2C	Z	0	.75
15	MP2C	Mx	-.016	.75
16	MP2C	X	-23.341	4.75
17	MP2C	Z	0	4.75
18	MP2C	Mx	-.016	4.75
19	MP2A	X	-16.965	.75
20	MP2A	Z	0	.75
21	MP2A	Mx	.011	.75
22	MP2A	X	-16.965	4.75
23	MP2A	Z	0	4.75
24	MP2A	Mx	.011	4.75
25	MP2B	X	-18.77	.75
26	MP2B	Z	0	.75
27	MP2B	Mx	-.016	.75
28	MP2B	X	-18.77	4.75
29	MP2B	Z	0	4.75
30	MP2B	Mx	-.016	4.75
31	MP2C	X	-23.341	.75
32	MP2C	Z	0	.75
33	MP2C	Mx	.006	.75
34	MP2C	X	-23.341	4.75
35	MP2C	Z	0	4.75
36	MP2C	Mx	.006	4.75
37	MP1A	X	-6.419	2
38	MP1A	Z	0	2
39	MP1A	Mx	.003	2
40	MP1A	X	-6.419	3.5
41	MP1A	Z	0	3.5
42	MP1A	Mx	.003	3.5
43	MP1B	X	-8.446	2
44	MP1B	Z	0	2
45	MP1B	Mx	-.003	2
46	MP1B	X	-8.446	3.5
47	MP1B	Z	0	3.5
48	MP1B	Mx	-.003	3.5
49	MP1C	X	-13.579	2
50	MP1C	Z	0	2
51	MP1C	Mx	-.002	2
52	MP1C	X	-13.579	3.5
53	MP1C	Z	0	3.5
54	MP1C	Mx	-.002	3.5
55	MP2A	X	-8.873	1
56	MP2A	Z	0	1
57	MP2A	Mx	.006	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	-9.79	1
59	MP2B	Z	0	1
60	MP2B	Mx	-.005	1
61	MP2C	X	-12.113	1
62	MP2C	Z	0	1
63	MP2C	Mx	-.003	1
64	MP2A	X	-7.479	3.25
65	MP2A	Z	0	3.25
66	MP2A	Mx	.005	3.25
67	MP2B	X	-8.745	3.25
68	MP2B	Z	0	3.25
69	MP2B	Mx	-.005	3.25
70	MP2C	X	-11.95	3.25
71	MP2C	Z	0	3.25
72	MP2C	Mx	-.003	3.25
73	M101	X	-16.462	1
74	M101	Z	0	1
75	M101	Mx	.008	1
76	MP4A	X	-19.316	.5
77	MP4A	Z	0	.5
78	MP4A	Mx	.013	.5
79	MP4A	X	-19.316	5
80	MP4A	Z	0	5
81	MP4A	Mx	.013	5
82	MP4B	X	-21.362	.5
83	MP4B	Z	0	.5
84	MP4B	Mx	-.012	.5
85	MP4B	X	-21.362	5
86	MP4B	Z	0	5
87	MP4B	Mx	-.012	5
88	MP4C	X	-26.543	.5
89	MP4C	Z	0	.5
90	MP4C	Mx	-.006	.5
91	MP4C	X	-26.543	5
92	MP4C	Z	0	5
93	MP4C	Mx	-.006	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-16.255	.75
2	MP2A	Z	-9.385	.75
3	MP2A	Mx	.006	.75
4	MP2A	X	-16.255	4.75
5	MP2A	Z	-9.385	4.75
6	MP2A	Mx	.006	4.75
7	MP2B	X	-19.382	.75
8	MP2B	Z	-11.19	.75
9	MP2B	Mx	.002	.75
10	MP2B	X	-19.382	4.75
11	MP2B	Z	-11.19	4.75
12	MP2B	Mx	.002	4.75
13	MP2C	X	-17.276	.75
14	MP2C	Z	-9.974	.75
15	MP2C	Mx	-.017	.75
16	MP2C	X	-17.276	4.75
17	MP2C	Z	-9.974	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP2C	Mx	-.017	4.75
19	MP2A	X	-16.255	.75
20	MP2A	Z	-9.385	.75
21	MP2A	Mx	.016	.75
22	MP2A	X	-16.255	4.75
23	MP2A	Z	-9.385	4.75
24	MP2A	Mx	.016	4.75
25	MP2B	X	-19.382	.75
26	MP2B	Z	-11.19	.75
27	MP2B	Mx	-.017	.75
28	MP2B	X	-19.382	4.75
29	MP2B	Z	-11.19	4.75
30	MP2B	Mx	-.017	4.75
31	MP2C	X	-17.276	.75
32	MP2C	Z	-9.974	.75
33	MP2C	Mx	-.004	.75
34	MP2C	X	-17.276	4.75
35	MP2C	Z	-9.974	4.75
36	MP2C	Mx	-.004	4.75
37	MP1A	X	-7.315	2
38	MP1A	Z	-4.223	2
39	MP1A	Mx	.003	2
40	MP1A	X	-7.315	3.5
41	MP1A	Z	-4.223	3.5
42	MP1A	Mx	.003	3.5
43	MP1B	X	-10.826	2
44	MP1B	Z	-6.25	2
45	MP1B	Mx	-.003	2
46	MP1B	X	-10.826	3.5
47	MP1B	Z	-6.25	3.5
48	MP1B	Mx	-.003	3.5
49	MP1C	X	-8.461	2
50	MP1C	Z	-4.885	2
51	MP1C	Mx	-.003	2
52	MP1C	X	-8.461	3.5
53	MP1C	Z	-4.885	3.5
54	MP1C	Mx	-.003	3.5
55	MP2A	X	-8.479	1
56	MP2A	Z	-4.895	1
57	MP2A	Mx	.005	1
58	MP2B	X	-10.067	1
59	MP2B	Z	-5.812	1
60	MP2B	Mx	-.004	1
61	MP2C	X	-8.997	1
62	MP2C	Z	-5.194	1
63	MP2C	Mx	-.005	1
64	MP2A	X	-7.573	3.25
65	MP2A	Z	-4.372	3.25
66	MP2A	Mx	.005	3.25
67	MP2B	X	-9.765	3.25
68	MP2B	Z	-5.638	3.25
69	MP2B	Mx	-.004	3.25
70	MP2C	X	-8.289	3.25
71	MP2C	Z	-4.785	3.25
72	MP2C	Mx	-.005	3.25
73	M101	X	-15.818	1
74	M101	Z	-9.133	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	M101	Mx	.008	1
76	MP4A	X	-18.5	.5
77	MP4A	Z	-10.681	.5
78	MP4A	Mx	.012	.5
79	MP4A	X	-18.5	5
80	MP4A	Z	-10.681	5
81	MP4A	Mx	.012	5
82	MP4B	X	-22.044	.5
83	MP4B	Z	-12.727	.5
84	MP4B	Mx	-.008	.5
85	MP4B	X	-22.044	5
86	MP4B	Z	-12.727	5
87	MP4B	Mx	-.008	5
88	MP4C	X	-19.656	.5
89	MP4C	Z	-11.349	.5
90	MP4C	Mx	-.012	.5
91	MP4C	X	-19.656	5
92	MP4C	Z	-11.349	5
93	MP4C	Mx	-.012	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-11.19	.75
2	MP2A	Z	-19.382	.75
3	MP2A	Mx	-.002	.75
4	MP2A	X	-11.19	4.75
5	MP2A	Z	-19.382	4.75
6	MP2A	Mx	-.002	4.75
7	MP2B	X	-12.093	.75
8	MP2B	Z	-20.946	.75
9	MP2B	Mx	.012	.75
10	MP2B	X	-12.093	4.75
11	MP2B	Z	-20.946	4.75
12	MP2B	Mx	.012	4.75
13	MP2C	X	-8.591	.75
14	MP2C	Z	-14.881	.75
15	MP2C	Mx	-.013	.75
16	MP2C	X	-8.591	4.75
17	MP2C	Z	-14.881	4.75
18	MP2C	Mx	-.013	4.75
19	MP2A	X	-11.19	.75
20	MP2A	Z	-19.382	.75
21	MP2A	Mx	.017	.75
22	MP2A	X	-11.19	4.75
23	MP2A	Z	-19.382	4.75
24	MP2A	Mx	.017	4.75
25	MP2B	X	-12.093	.75
26	MP2B	Z	-20.946	.75
27	MP2B	Mx	-.012	.75
28	MP2B	X	-12.093	4.75
29	MP2B	Z	-20.946	4.75
30	MP2B	Mx	-.012	4.75
31	MP2C	X	-8.591	.75
32	MP2C	Z	-14.881	.75
33	MP2C	Mx	-.01	.75
34	MP2C	X	-8.591	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP2C	Z	-14.881	4.75
36	MP2C	Mx	-.01	4.75
37	MP1A	X	-6.25	2
38	MP1A	Z	-10.826	2
39	MP1A	Mx	.003	2
40	MP1A	X	-6.25	3.5
41	MP1A	Z	-10.826	3.5
42	MP1A	Mx	.003	3.5
43	MP1B	X	-7.264	2
44	MP1B	Z	-12.582	2
45	MP1B	Mx	0	2
46	MP1B	X	-7.264	3.5
47	MP1B	Z	-12.582	3.5
48	MP1B	Mx	0	3.5
49	MP1C	X	-3.332	2
50	MP1C	Z	-5.771	2
51	MP1C	Mx	-.003	2
52	MP1C	X	-3.332	3.5
53	MP1C	Z	-5.771	3.5
54	MP1C	Mx	-.003	3.5
55	MP2A	X	-5.812	1
56	MP2A	Z	-10.067	1
57	MP2A	Mx	.004	1
58	MP2B	X	-6.271	1
59	MP2B	Z	-10.862	1
60	MP2B	Mx	0	1
61	MP2C	X	-4.492	1
62	MP2C	Z	-7.78	1
63	MP2C	Mx	-.006	1
64	MP2A	X	-5.638	3.25
65	MP2A	Z	-9.765	3.25
66	MP2A	Mx	.004	3.25
67	MP2B	X	-6.271	3.25
68	MP2B	Z	-10.862	3.25
69	MP2B	Mx	0	3.25
70	MP2C	X	-3.816	3.25
71	MP2C	Z	-6.609	3.25
72	MP2C	Mx	-.005	3.25
73	M101	X	-10.936	1
74	M101	Z	-18.942	1
75	M101	Mx	.005	1
76	MP4A	X	-12.727	.5
77	MP4A	Z	-22.044	.5
78	MP4A	Mx	.008	.5
79	MP4A	X	-12.727	5
80	MP4A	Z	-22.044	5
81	MP4A	Mx	.008	5
82	MP4B	X	-13.75	.5
83	MP4B	Z	-23.816	.5
84	MP4B	Mx	0	.5
85	MP4B	X	-13.75	5
86	MP4B	Z	-23.816	5
87	MP4B	Mx	0	5
88	MP4C	X	-9.781	.5
89	MP4C	Z	-16.941	.5
90	MP4C	Mx	-.013	.5
91	MP4C	X	-9.781	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
92	MP4C	Z	-16.941	5
93	MP4C	Mx	-.013	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.75
2	MP2A	Z	-7.562	.75
3	MP2A	Mx	-.004	.75
4	MP2A	X	0	4.75
5	MP2A	Z	-7.562	4.75
6	MP2A	Mx	-.004	4.75
7	MP2B	X	0	.75
8	MP2B	Z	-6.921	.75
9	MP2B	Mx	.005	.75
10	MP2B	X	0	4.75
11	MP2B	Z	-6.921	4.75
12	MP2B	Mx	.005	4.75
13	MP2C	X	0	.75
14	MP2C	Z	-5.299	.75
15	MP2C	Mx	-.002	.75
16	MP2C	X	0	4.75
17	MP2C	Z	-5.299	4.75
18	MP2C	Mx	-.002	4.75
19	MP2A	X	0	.75
20	MP2A	Z	-7.562	.75
21	MP2A	Mx	.004	.75
22	MP2A	X	0	4.75
23	MP2A	Z	-7.562	4.75
24	MP2A	Mx	.004	4.75
25	MP2B	X	0	.75
26	MP2B	Z	-6.921	.75
27	MP2B	Mx	-.00069	.75
28	MP2B	X	0	4.75
29	MP2B	Z	-6.921	4.75
30	MP2B	Mx	-.00069	4.75
31	MP2C	X	0	.75
32	MP2C	Z	-5.299	.75
33	MP2C	Mx	-.004	.75
34	MP2C	X	0	4.75
35	MP2C	Z	-5.299	4.75
36	MP2C	Mx	-.004	4.75
37	MP1A	X	0	2
38	MP1A	Z	-4.399	2
39	MP1A	Mx	0	2
40	MP1A	X	0	3.5
41	MP1A	Z	-4.399	3.5
42	MP1A	Mx	0	3.5
43	MP1B	X	0	2
44	MP1B	Z	-3.73	2
45	MP1B	Mx	.000777	2
46	MP1B	X	0	3.5
47	MP1B	Z	-3.73	3.5
48	MP1B	Mx	.000777	3.5
49	MP1C	X	0	2
50	MP1C	Z	-2.035	2
51	MP1C	Mx	-.000797	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
52	MP1C	X	0	3.5
53	MP1C	Z	-2.035	3.5
54	MP1C	Mx	-.000797	3.5
55	MP2A	X	0	1
56	MP2A	Z	-3.5	1
57	MP2A	Mx	0	1
58	MP2B	X	0	1
59	MP2B	Z	-3.21	1
60	MP2B	Mx	.001	1
61	MP2C	X	0	1
62	MP2C	Z	-2.476	1
63	MP2C	Mx	-.001	1
64	MP2A	X	0	3.25
65	MP2A	Z	-3.5	3.25
66	MP2A	Mx	0	3.25
67	MP2B	X	0	3.25
68	MP2B	Z	-3.099	3.25
69	MP2B	Mx	.000968	3.25
70	MP2C	X	0	3.25
71	MP2C	Z	-2.083	3.25
72	MP2C	Mx	-.001	3.25
73	M101	X	0	1
74	M101	Z	-7.094	1
75	M101	Mx	0	1
76	MP4A	X	0	.5
77	MP4A	Z	-8.638	.5
78	MP4A	Mx	0	.5
79	MP4A	X	0	5
80	MP4A	Z	-8.638	5
81	MP4A	Mx	0	5
82	MP4B	X	0	.5
83	MP4B	Z	-7.915	.5
84	MP4B	Mx	.003	.5
85	MP4B	X	0	5
86	MP4B	Z	-7.915	5
87	MP4B	Mx	.003	5
88	MP4C	X	0	.5
89	MP4C	Z	-6.085	.5
90	MP4C	Mx	-.004	.5
91	MP4C	X	0	5
92	MP4C	Z	-6.085	5
93	MP4C	Mx	-.004	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	3.461	.75
2	MP2A	Z	-5.994	.75
3	MP2A	Mx	-.005	.75
4	MP2A	X	3.461	4.75
5	MP2A	Z	-5.994	4.75
6	MP2A	Mx	-.005	4.75
7	MP2B	X	2.82	.75
8	MP2B	Z	-4.884	.75
9	MP2B	Mx	.005	.75
10	MP2B	X	2.82	4.75
11	MP2B	Z	-4.884	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP2B	Mx	.005	4.75
13	MP2C	X	3.252	.75
14	MP2C	Z	-5.632	.75
15	MP2C	Mx	-.000296	.75
16	MP2C	X	3.252	4.75
17	MP2C	Z	-5.632	4.75
18	MP2C	Mx	-.000296	4.75
19	MP2A	X	3.461	.75
20	MP2A	Z	-5.994	.75
21	MP2A	Mx	.00069	.75
22	MP2A	X	3.461	4.75
23	MP2A	Z	-5.994	4.75
24	MP2A	Mx	.00069	4.75
25	MP2B	X	2.82	.75
26	MP2B	Z	-4.884	.75
27	MP2B	Mx	.002	.75
28	MP2B	X	2.82	4.75
29	MP2B	Z	-4.884	4.75
30	MP2B	Mx	.002	4.75
31	MP2C	X	3.252	.75
32	MP2C	Z	-5.632	.75
33	MP2C	Mx	-.005	.75
34	MP2C	X	3.252	4.75
35	MP2C	Z	-5.632	4.75
36	MP2C	Mx	-.005	4.75
37	MP1A	X	1.865	2
38	MP1A	Z	-3.23	2
39	MP1A	Mx	-.000777	2
40	MP1A	X	1.865	3.5
41	MP1A	Z	-3.23	3.5
42	MP1A	Mx	-.000777	3.5
43	MP1B	X	1.196	2
44	MP1B	Z	-2.071	2
45	MP1B	Mx	.000863	2
46	MP1B	X	1.196	3.5
47	MP1B	Z	-2.071	3.5
48	MP1B	Mx	.000863	3.5
49	MP1C	X	1.646	2
50	MP1C	Z	-2.852	2
51	MP1C	Mx	-.000882	2
52	MP1C	X	1.646	3.5
53	MP1C	Z	-2.852	3.5
54	MP1C	Mx	-.000882	3.5
55	MP2A	X	1.605	1
56	MP2A	Z	-2.78	1
57	MP2A	Mx	-.001	1
58	MP2B	X	1.315	1
59	MP2B	Z	-2.278	1
60	MP2B	Mx	.001	1
61	MP2C	X	1.51	1
62	MP2C	Z	-2.616	1
63	MP2C	Mx	-.001	1
64	MP2A	X	1.55	3.25
65	MP2A	Z	-2.684	3.25
66	MP2A	Mx	-.000969	3.25
67	MP2B	X	1.148	3.25
68	MP2B	Z	-1.989	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP2B	Mx	.001	3.25
70	MP2C	X	1.419	3.25
71	MP2C	Z	-2.457	3.25
72	MP2C	Mx	-.001	3.25
73	M101	X	3.247	1
74	M101	Z	-5.624	1
75	M101	Mx	-.002	1
76	MP4A	X	3.958	.5
77	MP4A	Z	-6.855	.5
78	MP4A	Mx	-.003	.5
79	MP4A	X	3.958	5
80	MP4A	Z	-6.855	5
81	MP4A	Mx	-.003	5
82	MP4B	X	3.235	.5
83	MP4B	Z	-5.603	.5
84	MP4B	Mx	.004	.5
85	MP4B	X	3.235	5
86	MP4B	Z	-5.603	5
87	MP4B	Mx	.004	5
88	MP4C	X	3.722	.5
89	MP4C	Z	-6.446	.5
90	MP4C	Mx	-.003	.5
91	MP4C	X	3.722	5
92	MP4C	Z	-6.446	5
93	MP4C	Mx	-.003	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	4.884	.75
2	MP2A	Z	-2.82	.75
3	MP2A	Mx	-.005	.75
4	MP2A	X	4.884	4.75
5	MP2A	Z	-2.82	4.75
6	MP2A	Mx	-.005	4.75
7	MP2B	X	4.33	.75
8	MP2B	Z	-2.5	.75
9	MP2B	Mx	.003	.75
10	MP2B	X	4.33	4.75
11	MP2B	Z	-2.5	4.75
12	MP2B	Mx	.003	4.75
13	MP2C	X	6.482	.75
14	MP2C	Z	-3.742	.75
15	MP2C	Mx	.003	.75
16	MP2C	X	6.482	4.75
17	MP2C	Z	-3.742	4.75
18	MP2C	Mx	.003	4.75
19	MP2A	X	4.884	.75
20	MP2A	Z	-2.82	.75
21	MP2A	Mx	-.002	.75
22	MP2A	X	4.884	4.75
23	MP2A	Z	-2.82	4.75
24	MP2A	Mx	-.002	4.75
25	MP2B	X	4.33	.75
26	MP2B	Z	-2.5	.75
27	MP2B	Mx	.003	.75
28	MP2B	X	4.33	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2B	Z	-2.5	4.75
30	MP2B	Mx	.003	4.75
31	MP2C	X	6.482	.75
32	MP2C	Z	-3.742	.75
33	MP2C	Mx	-.005	.75
34	MP2C	X	6.482	4.75
35	MP2C	Z	-3.742	4.75
36	MP2C	Mx	-.005	4.75
37	MP1A	X	2.071	2
38	MP1A	Z	-1.196	2
39	MP1A	Mx	-.000863	2
40	MP1A	X	2.071	3.5
41	MP1A	Z	-1.196	3.5
42	MP1A	Mx	-.000863	3.5
43	MP1B	X	1.491	2
44	MP1B	Z	-.861	2
45	MP1B	Mx	.000717	2
46	MP1B	X	1.491	3.5
47	MP1B	Z	-.861	3.5
48	MP1B	Mx	.000717	3.5
49	MP1C	X	3.74	2
50	MP1C	Z	-2.159	2
51	MP1C	Mx	-.000312	2
52	MP1C	X	3.74	3.5
53	MP1C	Z	-2.159	3.5
54	MP1C	Mx	-.000312	3.5
55	MP2A	X	2.278	1
56	MP2A	Z	-1.315	1
57	MP2A	Mx	-.001	1
58	MP2B	X	2.026	1
59	MP2B	Z	-1.17	1
60	MP2B	Mx	.001	1
61	MP2C	X	3.001	1
62	MP2C	Z	-1.733	1
63	MP2C	Mx	-.000376	1
64	MP2A	X	1.989	3.25
65	MP2A	Z	-1.148	3.25
66	MP2A	Mx	-.001	3.25
67	MP2B	X	1.641	3.25
68	MP2B	Z	-.948	3.25
69	MP2B	Mx	.001	3.25
70	MP2C	X	2.989	3.25
71	MP2C	Z	-1.726	3.25
72	MP2C	Mx	-.000375	3.25
73	M101	X	4.586	1
74	M101	Z	-2.648	1
75	M101	Mx	-.002	1
76	MP4A	X	5.603	.5
77	MP4A	Z	-3.235	.5
78	MP4A	Mx	-.004	.5
79	MP4A	X	5.603	5
80	MP4A	Z	-3.235	5
81	MP4A	Mx	-.004	5
82	MP4B	X	4.977	.5
83	MP4B	Z	-2.873	.5
84	MP4B	Mx	.004	.5
85	MP4B	X	4.977	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
86	MP4B	Z	-2.873	5
87	MP4B	Mx	.004	5
88	MP4C	X	7.406	.5
89	MP4C	Z	-4.276	.5
90	MP4C	Mx	-.00099	.5
91	MP4C	X	7.406	5
92	MP4C	Z	-4.276	5
93	MP4C	Mx	-.00099	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	4.999	.75
2	MP2A	Z	0	.75
3	MP2A	Mx	-.003	.75
4	MP2A	X	4.999	4.75
5	MP2A	Z	0	4.75
6	MP2A	Mx	-.003	4.75
7	MP2B	X	5.64	.75
8	MP2B	Z	0	.75
9	MP2B	Mx	.002	.75
10	MP2B	X	5.64	4.75
11	MP2B	Z	0	4.75
12	MP2B	Mx	.002	4.75
13	MP2C	X	7.262	.75
14	MP2C	Z	0	.75
15	MP2C	Mx	.005	.75
16	MP2C	X	7.262	4.75
17	MP2C	Z	0	4.75
18	MP2C	Mx	.005	4.75
19	MP2A	X	4.999	.75
20	MP2A	Z	0	.75
21	MP2A	Mx	-.003	.75
22	MP2A	X	4.999	4.75
23	MP2A	Z	0	4.75
24	MP2A	Mx	-.003	4.75
25	MP2B	X	5.64	.75
26	MP2B	Z	0	.75
27	MP2B	Mx	.005	.75
28	MP2B	X	5.64	4.75
29	MP2B	Z	0	4.75
30	MP2B	Mx	.005	4.75
31	MP2C	X	7.262	.75
32	MP2C	Z	0	.75
33	MP2C	Mx	-.002	.75
34	MP2C	X	7.262	4.75
35	MP2C	Z	0	4.75
36	MP2C	Mx	-.002	4.75
37	MP1A	X	1.722	2
38	MP1A	Z	0	2
39	MP1A	Mx	-.000717	2
40	MP1A	X	1.722	3.5
41	MP1A	Z	0	3.5
42	MP1A	Mx	-.000717	3.5
43	MP1B	X	2.391	2
44	MP1B	Z	0	2
45	MP1B	Mx	.000863	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
46	MP1B	X	2.391	3.5
47	MP1B	Z	0	3.5
48	MP1B	Mx	.000863	3.5
49	MP1C	X	4.086	2
50	MP1C	Z	0	2
51	MP1C	Mx	.000582	2
52	MP1C	X	4.086	3.5
53	MP1C	Z	0	3.5
54	MP1C	Mx	.000582	3.5
55	MP2A	X	2.34	1
56	MP2A	Z	0	1
57	MP2A	Mx	-.001	1
58	MP2B	X	2.63	1
59	MP2B	Z	0	1
60	MP2B	Mx	.001	1
61	MP2C	X	3.365	1
62	MP2C	Z	0	1
63	MP2C	Mx	.000719	1
64	MP2A	X	1.895	3.25
65	MP2A	Z	0	3.25
66	MP2A	Mx	-.001	3.25
67	MP2B	X	2.296	3.25
68	MP2B	Z	0	3.25
69	MP2B	Mx	.001	3.25
70	MP2C	X	3.313	3.25
71	MP2C	Z	0	3.25
72	MP2C	Mx	.000708	3.25
73	M101	X	4.696	1
74	M101	Z	0	1
75	M101	Mx	-.002	1
76	MP4A	X	5.747	.5
77	MP4A	Z	0	.5
78	MP4A	Mx	-.004	.5
79	MP4A	X	5.747	5
80	MP4A	Z	0	5
81	MP4A	Mx	-.004	5
82	MP4B	X	6.47	.5
83	MP4B	Z	0	.5
84	MP4B	Mx	.004	.5
85	MP4B	X	6.47	5
86	MP4B	Z	0	5
87	MP4B	Mx	.004	5
88	MP4C	X	8.3	.5
89	MP4C	Z	0	.5
90	MP4C	Mx	.002	.5
91	MP4C	X	8.3	5
92	MP4C	Z	0	5
93	MP4C	Mx	.002	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	4.884	.75
2	MP2A	Z	2.82	.75
3	MP2A	Mx	-.002	.75
4	MP2A	X	4.884	4.75
5	MP2A	Z	2.82	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP2A	Mx	-.002	4.75
7	MP2B	X	5.994	.75
8	MP2B	Z	3.461	.75
9	MP2B	Mx	-.00069	.75
10	MP2B	X	5.994	4.75
11	MP2B	Z	3.461	4.75
12	MP2B	Mx	-.00069	4.75
13	MP2C	X	5.247	.75
14	MP2C	Z	3.029	.75
15	MP2C	Mx	.005	.75
16	MP2C	X	5.247	4.75
17	MP2C	Z	3.029	4.75
18	MP2C	Mx	.005	4.75
19	MP2A	X	4.884	.75
20	MP2A	Z	2.82	.75
21	MP2A	Mx	-.005	.75
22	MP2A	X	4.884	4.75
23	MP2A	Z	2.82	4.75
24	MP2A	Mx	-.005	4.75
25	MP2B	X	5.994	.75
26	MP2B	Z	3.461	.75
27	MP2B	Mx	.005	.75
28	MP2B	X	5.994	4.75
29	MP2B	Z	3.461	4.75
30	MP2B	Mx	.005	4.75
31	MP2C	X	5.247	.75
32	MP2C	Z	3.029	.75
33	MP2C	Mx	.001	.75
34	MP2C	X	5.247	4.75
35	MP2C	Z	3.029	4.75
36	MP2C	Mx	.001	4.75
37	MP1A	X	2.071	2
38	MP1A	Z	1.196	2
39	MP1A	Mx	-.000863	2
40	MP1A	X	2.071	3.5
41	MP1A	Z	1.196	3.5
42	MP1A	Mx	-.000863	3.5
43	MP1B	X	3.23	2
44	MP1B	Z	1.865	2
45	MP1B	Mx	.000777	2
46	MP1B	X	3.23	3.5
47	MP1B	Z	1.865	3.5
48	MP1B	Mx	.000777	3.5
49	MP1C	X	2.449	2
50	MP1C	Z	1.414	2
51	MP1C	Mx	.000903	2
52	MP1C	X	2.449	3.5
53	MP1C	Z	1.414	3.5
54	MP1C	Mx	.000903	3.5
55	MP2A	X	2.278	1
56	MP2A	Z	1.315	1
57	MP2A	Mx	-.001	1
58	MP2B	X	2.78	1
59	MP2B	Z	1.605	1
60	MP2B	Mx	.001	1
61	MP2C	X	2.442	1
62	MP2C	Z	1.41	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP2C	Mx	.001	1
64	MP2A	X	1.989	3.25
65	MP2A	Z	1.148	3.25
66	MP2A	Mx	-.001	3.25
67	MP2B	X	2.684	3.25
68	MP2B	Z	1.55	3.25
69	MP2B	Mx	.000968	3.25
70	MP2C	X	2.216	3.25
71	MP2C	Z	1.279	3.25
72	MP2C	Mx	.001	3.25
73	M101	X	4.586	1
74	M101	Z	2.648	1
75	M101	Mx	-.002	1
76	MP4A	X	5.603	.5
77	MP4A	Z	3.235	.5
78	MP4A	Mx	-.004	.5
79	MP4A	X	5.603	5
80	MP4A	Z	3.235	5
81	MP4A	Mx	-.004	5
82	MP4B	X	6.855	.5
83	MP4B	Z	3.958	.5
84	MP4B	Mx	.003	.5
85	MP4B	X	6.855	5
86	MP4B	Z	3.958	5
87	MP4B	Mx	.003	5
88	MP4C	X	6.011	.5
89	MP4C	Z	3.471	.5
90	MP4C	Mx	.004	.5
91	MP4C	X	6.011	5
92	MP4C	Z	3.471	5
93	MP4C	Mx	.004	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	3.461	.75
2	MP2A	Z	5.994	.75
3	MP2A	Mx	.00069	.75
4	MP2A	X	3.461	4.75
5	MP2A	Z	5.994	4.75
6	MP2A	Mx	.00069	4.75
7	MP2B	X	3.781	.75
8	MP2B	Z	6.549	.75
9	MP2B	Mx	-.004	.75
10	MP2B	X	3.781	4.75
11	MP2B	Z	6.549	4.75
12	MP2B	Mx	-.004	4.75
13	MP2C	X	2.538	.75
14	MP2C	Z	4.396	.75
15	MP2C	Mx	.004	.75
16	MP2C	X	2.538	4.75
17	MP2C	Z	4.396	4.75
18	MP2C	Mx	.004	4.75
19	MP2A	X	3.461	.75
20	MP2A	Z	5.994	.75
21	MP2A	Mx	-.005	.75
22	MP2A	X	3.461	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP2A	Z	5.994	4.75
24	MP2A	Mx	-.005	4.75
25	MP2B	X	3.781	.75
26	MP2B	Z	6.549	.75
27	MP2B	Mx	.004	.75
28	MP2B	X	3.781	4.75
29	MP2B	Z	6.549	4.75
30	MP2B	Mx	.004	4.75
31	MP2C	X	2.538	.75
32	MP2C	Z	4.396	.75
33	MP2C	Mx	.003	.75
34	MP2C	X	2.538	4.75
35	MP2C	Z	4.396	4.75
36	MP2C	Mx	.003	4.75
37	MP1A	X	1.865	2
38	MP1A	Z	3.23	2
39	MP1A	Mx	-.000777	2
40	MP1A	X	1.865	3.5
41	MP1A	Z	3.23	3.5
42	MP1A	Mx	-.000777	3.5
43	MP1B	X	2.199	2
44	MP1B	Z	3.809	2
45	MP1B	Mx	0	2
46	MP1B	X	2.199	3.5
47	MP1B	Z	3.809	3.5
48	MP1B	Mx	0	3.5
49	MP1C	X	.901	2
50	MP1C	Z	1.561	2
51	MP1C	Mx	.00074	2
52	MP1C	X	.901	3.5
53	MP1C	Z	1.561	3.5
54	MP1C	Mx	.00074	3.5
55	MP2A	X	1.605	1
56	MP2A	Z	2.78	1
57	MP2A	Mx	-.001	1
58	MP2B	X	1.75	1
59	MP2B	Z	3.031	1
60	MP2B	Mx	0	1
61	MP2C	X	1.187	1
62	MP2C	Z	2.057	1
63	MP2C	Mx	.001	1
64	MP2A	X	1.55	3.25
65	MP2A	Z	2.684	3.25
66	MP2A	Mx	-.000969	3.25
67	MP2B	X	1.75	3.25
68	MP2B	Z	3.031	3.25
69	MP2B	Mx	0	3.25
70	MP2C	X	.972	3.25
71	MP2C	Z	1.683	3.25
72	MP2C	Mx	.001	3.25
73	M101	X	3.247	1
74	M101	Z	5.624	1
75	M101	Mx	-.002	1
76	MP4A	X	3.958	.5
77	MP4A	Z	6.855	.5
78	MP4A	Mx	-.003	.5
79	MP4A	X	3.958	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
80	MP4A	Z	6.855	5
81	MP4A	Mx	-.003	5
82	MP4B	X	4.319	.5
83	MP4B	Z	7.481	.5
84	MP4B	Mx	0	.5
85	MP4B	X	4.319	5
86	MP4B	Z	7.481	5
87	MP4B	Mx	0	5
88	MP4C	X	2.917	.5
89	MP4C	Z	5.052	.5
90	MP4C	Mx	.004	.5
91	MP4C	X	2.917	5
92	MP4C	Z	5.052	5
93	MP4C	Mx	.004	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.75
2	MP2A	Z	7.562	.75
3	MP2A	Mx	.004	.75
4	MP2A	X	0	4.75
5	MP2A	Z	7.562	4.75
6	MP2A	Mx	.004	4.75
7	MP2B	X	0	.75
8	MP2B	Z	6.921	.75
9	MP2B	Mx	-.005	.75
10	MP2B	X	0	4.75
11	MP2B	Z	6.921	4.75
12	MP2B	Mx	-.005	4.75
13	MP2C	X	0	.75
14	MP2C	Z	5.299	.75
15	MP2C	Mx	.002	.75
16	MP2C	X	0	4.75
17	MP2C	Z	5.299	4.75
18	MP2C	Mx	.002	4.75
19	MP2A	X	0	.75
20	MP2A	Z	7.562	.75
21	MP2A	Mx	-.004	.75
22	MP2A	X	0	4.75
23	MP2A	Z	7.562	4.75
24	MP2A	Mx	-.004	4.75
25	MP2B	X	0	.75
26	MP2B	Z	6.921	.75
27	MP2B	Mx	.00069	.75
28	MP2B	X	0	4.75
29	MP2B	Z	6.921	4.75
30	MP2B	Mx	.00069	4.75
31	MP2C	X	0	.75
32	MP2C	Z	5.299	.75
33	MP2C	Mx	.004	.75
34	MP2C	X	0	4.75
35	MP2C	Z	5.299	4.75
36	MP2C	Mx	.004	4.75
37	MP1A	X	0	2
38	MP1A	Z	4.399	2
39	MP1A	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
40	MP1A	X	0	3.5
41	MP1A	Z	4.399	3.5
42	MP1A	Mx	0	3.5
43	MP1B	X	0	2
44	MP1B	Z	3.73	2
45	MP1B	Mx	-.000777	2
46	MP1B	X	0	3.5
47	MP1B	Z	3.73	3.5
48	MP1B	Mx	-.000777	3.5
49	MP1C	X	0	2
50	MP1C	Z	2.035	2
51	MP1C	Mx	.000797	2
52	MP1C	X	0	3.5
53	MP1C	Z	2.035	3.5
54	MP1C	Mx	.000797	3.5
55	MP2A	X	0	1
56	MP2A	Z	3.5	1
57	MP2A	Mx	0	1
58	MP2B	X	0	1
59	MP2B	Z	3.21	1
60	MP2B	Mx	-.001	1
61	MP2C	X	0	1
62	MP2C	Z	2.476	1
63	MP2C	Mx	.001	1
64	MP2A	X	0	3.25
65	MP2A	Z	3.5	3.25
66	MP2A	Mx	0	3.25
67	MP2B	X	0	3.25
68	MP2B	Z	3.099	3.25
69	MP2B	Mx	-.000968	3.25
70	MP2C	X	0	3.25
71	MP2C	Z	2.083	3.25
72	MP2C	Mx	.001	3.25
73	M101	X	0	1
74	M101	Z	7.094	1
75	M101	Mx	0	1
76	MP4A	X	0	.5
77	MP4A	Z	8.638	.5
78	MP4A	Mx	0	.5
79	MP4A	X	0	5
80	MP4A	Z	8.638	5
81	MP4A	Mx	0	5
82	MP4B	X	0	.5
83	MP4B	Z	7.915	.5
84	MP4B	Mx	-.003	.5
85	MP4B	X	0	5
86	MP4B	Z	7.915	5
87	MP4B	Mx	-.003	5
88	MP4C	X	0	.5
89	MP4C	Z	6.085	.5
90	MP4C	Mx	.004	.5
91	MP4C	X	0	5
92	MP4C	Z	6.085	5
93	MP4C	Mx	.004	5

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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-3.461	.75
2	MP2A	Z	5.994	.75
3	MP2A	Mx	.005	.75
4	MP2A	X	-3.461	4.75
5	MP2A	Z	5.994	4.75
6	MP2A	Mx	.005	4.75
7	MP2B	X	-2.82	.75
8	MP2B	Z	4.884	.75
9	MP2B	Mx	-.005	.75
10	MP2B	X	-2.82	4.75
11	MP2B	Z	4.884	4.75
12	MP2B	Mx	-.005	4.75
13	MP2C	X	-3.252	.75
14	MP2C	Z	5.632	.75
15	MP2C	Mx	.000296	.75
16	MP2C	X	-3.252	4.75
17	MP2C	Z	5.632	4.75
18	MP2C	Mx	.000296	4.75
19	MP2A	X	-3.461	.75
20	MP2A	Z	5.994	.75
21	MP2A	Mx	-.00069	.75
22	MP2A	X	-3.461	4.75
23	MP2A	Z	5.994	4.75
24	MP2A	Mx	-.00069	4.75
25	MP2B	X	-2.82	.75
26	MP2B	Z	4.884	.75
27	MP2B	Mx	-.002	.75
28	MP2B	X	-2.82	4.75
29	MP2B	Z	4.884	4.75
30	MP2B	Mx	-.002	4.75
31	MP2C	X	-3.252	.75
32	MP2C	Z	5.632	.75
33	MP2C	Mx	.005	.75
34	MP2C	X	-3.252	4.75
35	MP2C	Z	5.632	4.75
36	MP2C	Mx	.005	4.75
37	MP1A	X	-1.865	2
38	MP1A	Z	3.23	2
39	MP1A	Mx	.000777	2
40	MP1A	X	-1.865	3.5
41	MP1A	Z	3.23	3.5
42	MP1A	Mx	.000777	3.5
43	MP1B	X	-1.196	2
44	MP1B	Z	2.071	2
45	MP1B	Mx	-.000863	2
46	MP1B	X	-1.196	3.5
47	MP1B	Z	2.071	3.5
48	MP1B	Mx	-.000863	3.5
49	MP1C	X	-1.646	2
50	MP1C	Z	2.852	2
51	MP1C	Mx	.000882	2
52	MP1C	X	-1.646	3.5
53	MP1C	Z	2.852	3.5
54	MP1C	Mx	.000882	3.5
55	MP2A	X	-1.605	1
56	MP2A	Z	2.78	1
57	MP2A	Mx	.001	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	-1.315	1
59	MP2B	Z	2.278	1
60	MP2B	Mx	-.001	1
61	MP2C	X	-1.51	1
62	MP2C	Z	2.616	1
63	MP2C	Mx	.001	1
64	MP2A	X	-1.55	3.25
65	MP2A	Z	2.684	3.25
66	MP2A	Mx	.000969	3.25
67	MP2B	X	-1.148	3.25
68	MP2B	Z	1.989	3.25
69	MP2B	Mx	-.001	3.25
70	MP2C	X	-1.419	3.25
71	MP2C	Z	2.457	3.25
72	MP2C	Mx	.001	3.25
73	M101	X	-3.247	1
74	M101	Z	5.624	1
75	M101	Mx	.002	1
76	MP4A	X	-3.958	.5
77	MP4A	Z	6.855	.5
78	MP4A	Mx	.003	.5
79	MP4A	X	-3.958	5
80	MP4A	Z	6.855	5
81	MP4A	Mx	.003	5
82	MP4B	X	-3.235	.5
83	MP4B	Z	5.603	.5
84	MP4B	Mx	-.004	.5
85	MP4B	X	-3.235	5
86	MP4B	Z	5.603	5
87	MP4B	Mx	-.004	5
88	MP4C	X	-3.722	.5
89	MP4C	Z	6.446	.5
90	MP4C	Mx	.003	.5
91	MP4C	X	-3.722	5
92	MP4C	Z	6.446	5
93	MP4C	Mx	.003	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-4.884	.75
2	MP2A	Z	2.82	.75
3	MP2A	Mx	.005	.75
4	MP2A	X	-4.884	4.75
5	MP2A	Z	2.82	4.75
6	MP2A	Mx	.005	4.75
7	MP2B	X	-4.33	.75
8	MP2B	Z	2.5	.75
9	MP2B	Mx	-.003	.75
10	MP2B	X	-4.33	4.75
11	MP2B	Z	2.5	4.75
12	MP2B	Mx	-.003	4.75
13	MP2C	X	-6.482	.75
14	MP2C	Z	3.742	.75
15	MP2C	Mx	-.003	.75
16	MP2C	X	-6.482	4.75
17	MP2C	Z	3.742	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP2C	Mx	-.003	4.75
19	MP2A	X	-4.884	.75
20	MP2A	Z	2.82	.75
21	MP2A	Mx	.002	.75
22	MP2A	X	-4.884	4.75
23	MP2A	Z	2.82	4.75
24	MP2A	Mx	.002	4.75
25	MP2B	X	-4.33	.75
26	MP2B	Z	2.5	.75
27	MP2B	Mx	-.003	.75
28	MP2B	X	-4.33	4.75
29	MP2B	Z	2.5	4.75
30	MP2B	Mx	-.003	4.75
31	MP2C	X	-6.482	.75
32	MP2C	Z	3.742	.75
33	MP2C	Mx	.005	.75
34	MP2C	X	-6.482	4.75
35	MP2C	Z	3.742	4.75
36	MP2C	Mx	.005	4.75
37	MP1A	X	-2.071	2
38	MP1A	Z	1.196	2
39	MP1A	Mx	.000863	2
40	MP1A	X	-2.071	3.5
41	MP1A	Z	1.196	3.5
42	MP1A	Mx	.000863	3.5
43	MP1B	X	-1.491	2
44	MP1B	Z	.861	2
45	MP1B	Mx	-.000717	2
46	MP1B	X	-1.491	3.5
47	MP1B	Z	.861	3.5
48	MP1B	Mx	-.000717	3.5
49	MP1C	X	-3.74	2
50	MP1C	Z	2.159	2
51	MP1C	Mx	.000312	2
52	MP1C	X	-3.74	3.5
53	MP1C	Z	2.159	3.5
54	MP1C	Mx	.000312	3.5
55	MP2A	X	-2.278	1
56	MP2A	Z	1.315	1
57	MP2A	Mx	.001	1
58	MP2B	X	-2.026	1
59	MP2B	Z	1.17	1
60	MP2B	Mx	-.001	1
61	MP2C	X	-3.001	1
62	MP2C	Z	1.733	1
63	MP2C	Mx	.000376	1
64	MP2A	X	-1.989	3.25
65	MP2A	Z	1.148	3.25
66	MP2A	Mx	.001	3.25
67	MP2B	X	-1.641	3.25
68	MP2B	Z	.948	3.25
69	MP2B	Mx	-.001	3.25
70	MP2C	X	-2.989	3.25
71	MP2C	Z	1.726	3.25
72	MP2C	Mx	.000375	3.25
73	M101	X	-4.586	1
74	M101	Z	2.648	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	M101	Mx	.002	1
76	MP4A	X	-5.603	.5
77	MP4A	Z	3.235	.5
78	MP4A	Mx	.004	.5
79	MP4A	X	-5.603	5
80	MP4A	Z	3.235	5
81	MP4A	Mx	.004	5
82	MP4B	X	-4.977	.5
83	MP4B	Z	2.873	.5
84	MP4B	Mx	-.004	.5
85	MP4B	X	-4.977	5
86	MP4B	Z	2.873	5
87	MP4B	Mx	-.004	5
88	MP4C	X	-7.406	.5
89	MP4C	Z	4.276	.5
90	MP4C	Mx	.00099	.5
91	MP4C	X	-7.406	5
92	MP4C	Z	4.276	5
93	MP4C	Mx	.00099	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-4.999	.75
2	MP2A	Z	0	.75
3	MP2A	Mx	.003	.75
4	MP2A	X	-4.999	4.75
5	MP2A	Z	0	4.75
6	MP2A	Mx	.003	4.75
7	MP2B	X	-5.64	.75
8	MP2B	Z	0	.75
9	MP2B	Mx	-.002	.75
10	MP2B	X	-5.64	4.75
11	MP2B	Z	0	4.75
12	MP2B	Mx	-.002	4.75
13	MP2C	X	-7.262	.75
14	MP2C	Z	0	.75
15	MP2C	Mx	-.005	.75
16	MP2C	X	-7.262	4.75
17	MP2C	Z	0	4.75
18	MP2C	Mx	-.005	4.75
19	MP2A	X	-4.999	.75
20	MP2A	Z	0	.75
21	MP2A	Mx	.003	.75
22	MP2A	X	-4.999	4.75
23	MP2A	Z	0	4.75
24	MP2A	Mx	.003	4.75
25	MP2B	X	-5.64	.75
26	MP2B	Z	0	.75
27	MP2B	Mx	-.005	.75
28	MP2B	X	-5.64	4.75
29	MP2B	Z	0	4.75
30	MP2B	Mx	-.005	4.75
31	MP2C	X	-7.262	.75
32	MP2C	Z	0	.75
33	MP2C	Mx	.002	.75
34	MP2C	X	-7.262	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP2C	Z	0	4.75
36	MP2C	Mx	.002	4.75
37	MP1A	X	-1.722	2
38	MP1A	Z	0	2
39	MP1A	Mx	.000717	2
40	MP1A	X	-1.722	3.5
41	MP1A	Z	0	3.5
42	MP1A	Mx	.000717	3.5
43	MP1B	X	-2.391	2
44	MP1B	Z	0	2
45	MP1B	Mx	-.000863	2
46	MP1B	X	-2.391	3.5
47	MP1B	Z	0	3.5
48	MP1B	Mx	-.000863	3.5
49	MP1C	X	-4.086	2
50	MP1C	Z	0	2
51	MP1C	Mx	-.000582	2
52	MP1C	X	-4.086	3.5
53	MP1C	Z	0	3.5
54	MP1C	Mx	-.000582	3.5
55	MP2A	X	-2.34	1
56	MP2A	Z	0	1
57	MP2A	Mx	.001	1
58	MP2B	X	-2.63	1
59	MP2B	Z	0	1
60	MP2B	Mx	-.001	1
61	MP2C	X	-3.365	1
62	MP2C	Z	0	1
63	MP2C	Mx	-.000719	1
64	MP2A	X	-1.895	3.25
65	MP2A	Z	0	3.25
66	MP2A	Mx	.001	3.25
67	MP2B	X	-2.296	3.25
68	MP2B	Z	0	3.25
69	MP2B	Mx	-.001	3.25
70	MP2C	X	-3.313	3.25
71	MP2C	Z	0	3.25
72	MP2C	Mx	-.000708	3.25
73	M101	X	-4.696	1
74	M101	Z	0	1
75	M101	Mx	.002	1
76	MP4A	X	-5.747	.5
77	MP4A	Z	0	.5
78	MP4A	Mx	.004	.5
79	MP4A	X	-5.747	5
80	MP4A	Z	0	5
81	MP4A	Mx	.004	5
82	MP4B	X	-6.47	.5
83	MP4B	Z	0	.5
84	MP4B	Mx	-.004	.5
85	MP4B	X	-6.47	5
86	MP4B	Z	0	5
87	MP4B	Mx	-.004	5
88	MP4C	X	-8.3	.5
89	MP4C	Z	0	.5
90	MP4C	Mx	-.002	.5
91	MP4C	X	-8.3	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
92	MP4C	Z	0	5
93	MP4C	Mx	-.002	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-4.884	.75
2	MP2A	Z	-2.82	.75
3	MP2A	Mx	.002	.75
4	MP2A	X	-4.884	4.75
5	MP2A	Z	-2.82	4.75
6	MP2A	Mx	.002	4.75
7	MP2B	X	-5.994	.75
8	MP2B	Z	-3.461	.75
9	MP2B	Mx	.00069	.75
10	MP2B	X	-5.994	4.75
11	MP2B	Z	-3.461	4.75
12	MP2B	Mx	.00069	4.75
13	MP2C	X	-5.247	.75
14	MP2C	Z	-3.029	.75
15	MP2C	Mx	-.005	.75
16	MP2C	X	-5.247	4.75
17	MP2C	Z	-3.029	4.75
18	MP2C	Mx	-.005	4.75
19	MP2A	X	-4.884	.75
20	MP2A	Z	-2.82	.75
21	MP2A	Mx	.005	.75
22	MP2A	X	-4.884	4.75
23	MP2A	Z	-2.82	4.75
24	MP2A	Mx	.005	4.75
25	MP2B	X	-5.994	.75
26	MP2B	Z	-3.461	.75
27	MP2B	Mx	-.005	.75
28	MP2B	X	-5.994	4.75
29	MP2B	Z	-3.461	4.75
30	MP2B	Mx	-.005	4.75
31	MP2C	X	-5.247	.75
32	MP2C	Z	-3.029	.75
33	MP2C	Mx	-.001	.75
34	MP2C	X	-5.247	4.75
35	MP2C	Z	-3.029	4.75
36	MP2C	Mx	-.001	4.75
37	MP1A	X	-2.071	2
38	MP1A	Z	-1.196	2
39	MP1A	Mx	.000863	2
40	MP1A	X	-2.071	3.5
41	MP1A	Z	-1.196	3.5
42	MP1A	Mx	.000863	3.5
43	MP1B	X	-3.23	2
44	MP1B	Z	-1.865	2
45	MP1B	Mx	-.000777	2
46	MP1B	X	-3.23	3.5
47	MP1B	Z	-1.865	3.5
48	MP1B	Mx	-.000777	3.5
49	MP1C	X	-2.449	2
50	MP1C	Z	-1.414	2
51	MP1C	Mx	-.000903	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
52	MP1C	X	-2.449	3.5
53	MP1C	Z	-1.414	3.5
54	MP1C	Mx	-.000903	3.5
55	MP2A	X	-2.278	1
56	MP2A	Z	-1.315	1
57	MP2A	Mx	.001	1
58	MP2B	X	-2.78	1
59	MP2B	Z	-1.605	1
60	MP2B	Mx	-.001	1
61	MP2C	X	-2.442	1
62	MP2C	Z	-1.41	1
63	MP2C	Mx	-.001	1
64	MP2A	X	-1.989	3.25
65	MP2A	Z	-1.148	3.25
66	MP2A	Mx	.001	3.25
67	MP2B	X	-2.684	3.25
68	MP2B	Z	-1.55	3.25
69	MP2B	Mx	-.000968	3.25
70	MP2C	X	-2.216	3.25
71	MP2C	Z	-1.279	3.25
72	MP2C	Mx	-.001	3.25
73	M101	X	-4.586	1
74	M101	Z	-2.648	1
75	M101	Mx	.002	1
76	MP4A	X	-5.603	.5
77	MP4A	Z	-3.235	.5
78	MP4A	Mx	.004	.5
79	MP4A	X	-5.603	5
80	MP4A	Z	-3.235	5
81	MP4A	Mx	.004	5
82	MP4B	X	-6.855	.5
83	MP4B	Z	-3.958	.5
84	MP4B	Mx	-.003	.5
85	MP4B	X	-6.855	5
86	MP4B	Z	-3.958	5
87	MP4B	Mx	-.003	5
88	MP4C	X	-6.011	.5
89	MP4C	Z	-3.471	.5
90	MP4C	Mx	-.004	.5
91	MP4C	X	-6.011	5
92	MP4C	Z	-3.471	5
93	MP4C	Mx	-.004	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-3.461	.75
2	MP2A	Z	-5.994	.75
3	MP2A	Mx	-.00069	.75
4	MP2A	X	-3.461	4.75
5	MP2A	Z	-5.994	4.75
6	MP2A	Mx	-.00069	4.75
7	MP2B	X	-3.781	.75
8	MP2B	Z	-6.549	.75
9	MP2B	Mx	.004	.75
10	MP2B	X	-3.781	4.75
11	MP2B	Z	-6.549	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP2B	Mx	.004	4.75
13	MP2C	X	-2.538	.75
14	MP2C	Z	-4.396	.75
15	MP2C	Mx	-.004	.75
16	MP2C	X	-2.538	4.75
17	MP2C	Z	-4.396	4.75
18	MP2C	Mx	-.004	4.75
19	MP2A	X	-3.461	.75
20	MP2A	Z	-5.994	.75
21	MP2A	Mx	.005	.75
22	MP2A	X	-3.461	4.75
23	MP2A	Z	-5.994	4.75
24	MP2A	Mx	.005	4.75
25	MP2B	X	-3.781	.75
26	MP2B	Z	-6.549	.75
27	MP2B	Mx	-.004	.75
28	MP2B	X	-3.781	4.75
29	MP2B	Z	-6.549	4.75
30	MP2B	Mx	-.004	4.75
31	MP2C	X	-2.538	.75
32	MP2C	Z	-4.396	.75
33	MP2C	Mx	-.003	.75
34	MP2C	X	-2.538	4.75
35	MP2C	Z	-4.396	4.75
36	MP2C	Mx	-.003	4.75
37	MP1A	X	-1.865	2
38	MP1A	Z	-3.23	2
39	MP1A	Mx	.000777	2
40	MP1A	X	-1.865	3.5
41	MP1A	Z	-3.23	3.5
42	MP1A	Mx	.000777	3.5
43	MP1B	X	-2.199	2
44	MP1B	Z	-3.809	2
45	MP1B	Mx	0	2
46	MP1B	X	-2.199	3.5
47	MP1B	Z	-3.809	3.5
48	MP1B	Mx	0	3.5
49	MP1C	X	-.901	2
50	MP1C	Z	-1.561	2
51	MP1C	Mx	-.00074	2
52	MP1C	X	-.901	3.5
53	MP1C	Z	-1.561	3.5
54	MP1C	Mx	-.00074	3.5
55	MP2A	X	-1.605	1
56	MP2A	Z	-2.78	1
57	MP2A	Mx	.001	1
58	MP2B	X	-1.75	1
59	MP2B	Z	-3.031	1
60	MP2B	Mx	0	1
61	MP2C	X	-1.187	1
62	MP2C	Z	-2.057	1
63	MP2C	Mx	-.001	1
64	MP2A	X	-1.55	3.25
65	MP2A	Z	-2.684	3.25
66	MP2A	Mx	.000969	3.25
67	MP2B	X	-1.75	3.25
68	MP2B	Z	-3.031	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP2B	Mx	0	3.25
70	MP2C	X	-.972	3.25
71	MP2C	Z	-1.683	3.25
72	MP2C	Mx	-.001	3.25
73	M101	X	-3.247	1
74	M101	Z	-5.624	1
75	M101	Mx	.002	1
76	MP4A	X	-3.958	.5
77	MP4A	Z	-6.855	.5
78	MP4A	Mx	.003	.5
79	MP4A	X	-3.958	5
80	MP4A	Z	-6.855	5
81	MP4A	Mx	.003	5
82	MP4B	X	-4.319	.5
83	MP4B	Z	-7.481	.5
84	MP4B	Mx	0	.5
85	MP4B	X	-4.319	5
86	MP4B	Z	-7.481	5
87	MP4B	Mx	0	5
88	MP4C	X	-2.917	.5
89	MP4C	Z	-5.052	.5
90	MP4C	Mx	-.004	.5
91	MP4C	X	-2.917	5
92	MP4C	Z	-5.052	5
93	MP4C	Mx	-.004	5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M183A	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M182A	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M180A	Y	-250	%50

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M180A	Y	-250	%100

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	Y	-14.78	-14.78	0	%100
2	M10	Y	-14.78	-14.78	0	%100
3	M43	Y	-14.78	-14.78	0	%100
4	M46	Y	-15.515	-15.515	0	%100
5	M51B	Y	-9.062	-9.062	0	%100
6	M52B	Y	-9.062	-9.062	0	%100
7	M76	Y	-15.497	-15.497	0	%100
8	M77	Y	-15.497	-15.497	0	%100
9	M80	Y	-15.515	-15.515	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
10	M84	Y	-15.497	-15.497	0	%100
11	M85	Y	-15.497	-15.497	0	%100
12	M91	Y	-15.515	-15.515	0	%100
13	M101	Y	-8.146	-8.146	0	%100
14	M128A	Y	-14.78	-14.78	0	%100
15	M129A	Y	-14.78	-14.78	0	%100
16	M130A	Y	-14.78	-14.78	0	%100
17	M131A	Y	-15.515	-15.515	0	%100
18	M134A	Y	-9.062	-9.062	0	%100
19	M135A	Y	-9.062	-9.062	0	%100
20	M139A	Y	-15.497	-15.497	0	%100
21	M140A	Y	-15.497	-15.497	0	%100
22	M142A	Y	-15.515	-15.515	0	%100
23	M144A	Y	-15.497	-15.497	0	%100
24	M145A	Y	-15.497	-15.497	0	%100
25	M147A	Y	-15.515	-15.515	0	%100
26	M154A	Y	-14.78	-14.78	0	%100
27	M155A	Y	-14.78	-14.78	0	%100
28	M156A	Y	-14.78	-14.78	0	%100
29	M157A	Y	-15.515	-15.515	0	%100
30	M160A	Y	-9.062	-9.062	0	%100
31	M161A	Y	-9.062	-9.062	0	%100
32	M165A	Y	-15.497	-15.497	0	%100
33	M166A	Y	-15.497	-15.497	0	%100
34	M168A	Y	-15.515	-15.515	0	%100
35	M170A	Y	-15.497	-15.497	0	%100
36	M171A	Y	-15.497	-15.497	0	%100
37	M173A	Y	-15.515	-15.515	0	%100
38	M180A	Y	-10.42	-10.42	0	%100
39	MP3A	Y	-8.146	-8.146	0	%100
40	MP4A	Y	-8.146	-8.146	0	%100
41	MP2A	Y	-8.146	-8.146	0	%100
42	MP1A	Y	-8.146	-8.146	0	%100
43	M189A	Y	-10.42	-10.42	0	%100
44	MP3C	Y	-8.146	-8.146	0	%100
45	MP4C	Y	-8.146	-8.146	0	%100
46	MP2C	Y	-8.146	-8.146	0	%100
47	MP1C	Y	-8.146	-8.146	0	%100
48	M198A	Y	-10.42	-10.42	0	%100
49	MP3B	Y	-8.146	-8.146	0	%100
50	MP4B	Y	-8.146	-8.146	0	%100
51	MP2B	Y	-8.146	-8.146	0	%100
52	MP1B	Y	-8.146	-8.146	0	%100
53	M112	Y	-9.156	-9.156	0	%100
54	M117	Y	-9.156	-9.156	0	%100
55	M122	Y	-9.156	-9.156	0	%100
56	M127	Y	-11.921	-11.921	0	%100
57	M128	Y	-11.921	-11.921	0	%100
58	M129	Y	-11.921	-11.921	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	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	-8.803	-8.803	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,%]
5	M43	X	0	0	0	%100
6	M43	Z	-8.803	-8.803	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	-17.558	-17.558	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	-2.437	-2.437	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	-2.437	-2.437	0	%100
13	M76	X	0	0	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	-4.471	-4.471	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	-4.709	-4.709	0	%100
19	M84	X	0	0	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	-4.471	-4.471	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	-4.709	-4.709	0	%100
25	M101	X	0	0	0	%100
26	M101	Z	-5.683	-5.683	0	%100
27	M128A	X	0	0	0	%100
28	M128A	Z	-7.802	-7.802	0	%100
29	M129A	X	0	0	0	%100
30	M129A	Z	-2.201	-2.201	0	%100
31	M130A	X	0	0	0	%100
32	M130A	Z	-2.201	-2.201	0	%100
33	M131A	X	0	0	0	%100
34	M131A	Z	-4.39	-4.39	0	%100
35	M134A	X	0	0	0	%100
36	M134A	Z	-2.437	-2.437	0	%100
37	M135A	X	0	0	0	%100
38	M135A	Z	-9.75	-9.75	0	%100
39	M139A	X	0	0	0	%100
40	M139A	Z	-13.169	-13.169	0	%100
41	M140A	X	0	0	0	%100
42	M140A	Z	-4.471	-4.471	0	%100
43	M142A	X	0	0	0	%100
44	M142A	Z	-4.709	-4.709	0	%100
45	M144A	X	0	0	0	%100
46	M144A	Z	-13.169	-13.169	0	%100
47	M145A	X	0	0	0	%100
48	M145A	Z	-17.883	-17.883	0	%100
49	M147A	X	0	0	0	%100
50	M147A	Z	-18.836	-18.836	0	%100
51	M154A	X	0	0	0	%100
52	M154A	Z	-7.802	-7.802	0	%100
53	M155A	X	0	0	0	%100
54	M155A	Z	-2.201	-2.201	0	%100
55	M156A	X	0	0	0	%100
56	M156A	Z	-2.201	-2.201	0	%100
57	M157A	X	0	0	0	%100
58	M157A	Z	-4.39	-4.39	0	%100
59	M160A	X	0	0	0	%100
60	M160A	Z	-9.75	-9.75	0	%100
61	M161A	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,%]
62	M161A	Z	-2.437	-2.437	0	%100
63	M165A	X	0	0	0	%100
64	M165A	Z	-13.169	-13.169	0	%100
65	M166A	X	0	0	0	%100
66	M166A	Z	-17.883	-17.883	0	%100
67	M168A	X	0	0	0	%100
68	M168A	Z	-18.836	-18.836	0	%100
69	M170A	X	0	0	0	%100
70	M170A	Z	-13.169	-13.169	0	%100
71	M171A	X	0	0	0	%100
72	M171A	Z	-4.471	-4.471	0	%100
73	M173A	X	0	0	0	%100
74	M173A	Z	-4.709	-4.709	0	%100
75	M180A	X	0	0	0	%100
76	M180A	Z	-10.242	-10.242	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	-6.95	-6.95	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	-6.95	-6.95	0	%100
81	MP2A	X	0	0	0	%100
82	MP2A	Z	-6.95	-6.95	0	%100
83	MP1A	X	0	0	0	%100
84	MP1A	Z	-6.95	-6.95	0	%100
85	M189A	X	0	0	0	%100
86	M189A	Z	-2.561	-2.561	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	-6.95	-6.95	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	-6.95	-6.95	0	%100
91	MP2C	X	0	0	0	%100
92	MP2C	Z	-6.95	-6.95	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	-6.95	-6.95	0	%100
95	M198A	X	0	0	0	%100
96	M198A	Z	-2.561	-2.561	0	%100
97	MP3B	X	0	0	0	%100
98	MP3B	Z	-6.95	-6.95	0	%100
99	MP4B	X	0	0	0	%100
100	MP4B	Z	-6.95	-6.95	0	%100
101	MP2B	X	0	0	0	%100
102	MP2B	Z	-6.95	-6.95	0	%100
103	MP1B	X	0	0	0	%100
104	MP1B	Z	-6.95	-6.95	0	%100
105	M112	X	0	0	0	%100
106	M112	Z	-8.413	-8.413	0	%100
107	M117	X	0	0	0	%100
108	M117	Z	-2.103	-2.103	0	%100
109	M122	X	0	0	0	%100
110	M122	Z	-2.103	-2.103	0	%100
111	M127	X	0	0	0	%100
112	M127	Z	-2.363	-2.363	0	%100
113	M128	X	0	0	0	%100
114	M128	Z	-9.453	-9.453	0	%100
115	M129	X	0	0	0	%100
116	M129	Z	-2.363	-2.363	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	M4	X	1.3	1.3	0	%100
2	M4	Z	-2.252	-2.252	0	%100
3	M10	X	3.301	3.301	0	%100
4	M10	Z	-5.718	-5.718	0	%100
5	M43	X	3.301	3.301	0	%100
6	M43	Z	-5.718	-5.718	0	%100
7	M46	X	6.584	6.584	0	%100
8	M46	Z	-11.404	-11.404	0	%100
9	M51B	X	3.656	3.656	0	%100
10	M51B	Z	-6.333	-6.333	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	2.195	2.195	0	%100
14	M76	Z	-3.801	-3.801	0	%100
15	M77	X	6.706	6.706	0	%100
16	M77	Z	-11.616	-11.616	0	%100
17	M80	X	7.064	7.064	0	%100
18	M80	Z	-12.234	-12.234	0	%100
19	M84	X	2.195	2.195	0	%100
20	M84	Z	-3.801	-3.801	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	0	0	0	%100
25	M101	X	2.842	2.842	0	%100
26	M101	Z	-4.922	-4.922	0	%100
27	M128A	X	1.3	1.3	0	%100
28	M128A	Z	-2.252	-2.252	0	%100
29	M129A	X	3.301	3.301	0	%100
30	M129A	Z	-5.718	-5.718	0	%100
31	M130A	X	3.301	3.301	0	%100
32	M130A	Z	-5.718	-5.718	0	%100
33	M131A	X	6.584	6.584	0	%100
34	M131A	Z	-11.404	-11.404	0	%100
35	M134A	X	0	0	0	%100
36	M134A	Z	0	0	0	%100
37	M135A	X	3.656	3.656	0	%100
38	M135A	Z	-6.333	-6.333	0	%100
39	M139A	X	2.195	2.195	0	%100
40	M139A	Z	-3.801	-3.801	0	%100
41	M140A	X	0	0	0	%100
42	M140A	Z	0	0	0	%100
43	M142A	X	0	0	0	%100
44	M142A	Z	0	0	0	%100
45	M144A	X	2.195	2.195	0	%100
46	M144A	Z	-3.801	-3.801	0	%100
47	M145A	X	6.706	6.706	0	%100
48	M145A	Z	-11.616	-11.616	0	%100
49	M147A	X	7.064	7.064	0	%100
50	M147A	Z	-12.234	-12.234	0	%100
51	M154A	X	5.202	5.202	0	%100
52	M154A	Z	-9.009	-9.009	0	%100
53	M155A	X	0	0	0	%100
54	M155A	Z	0	0	0	%100
55	M156A	X	0	0	0	%100
56	M156A	Z	0	0	0	%100
57	M157A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M157A	Z	0	0	0	%100
59	M160A	X	3.656	3.656	0	%100
60	M160A	Z	-6.333	-6.333	0	%100
61	M161A	X	3.656	3.656	0	%100
62	M161A	Z	-6.333	-6.333	0	%100
63	M165A	X	8.779	8.779	0	%100
64	M165A	Z	-15.206	-15.206	0	%100
65	M166A	X	6.706	6.706	0	%100
66	M166A	Z	-11.616	-11.616	0	%100
67	M168A	X	7.064	7.064	0	%100
68	M168A	Z	-12.234	-12.234	0	%100
69	M170A	X	8.779	8.779	0	%100
70	M170A	Z	-15.206	-15.206	0	%100
71	M171A	X	6.706	6.706	0	%100
72	M171A	Z	-11.616	-11.616	0	%100
73	M173A	X	7.064	7.064	0	%100
74	M173A	Z	-12.234	-12.234	0	%100
75	M180A	X	3.841	3.841	0	%100
76	M180A	Z	-6.653	-6.653	0	%100
77	MP3A	X	3.475	3.475	0	%100
78	MP3A	Z	-6.019	-6.019	0	%100
79	MP4A	X	3.475	3.475	0	%100
80	MP4A	Z	-6.019	-6.019	0	%100
81	MP2A	X	3.475	3.475	0	%100
82	MP2A	Z	-6.019	-6.019	0	%100
83	MP1A	X	3.475	3.475	0	%100
84	MP1A	Z	-6.019	-6.019	0	%100
85	M189A	X	3.841	3.841	0	%100
86	M189A	Z	-6.653	-6.653	0	%100
87	MP3C	X	3.475	3.475	0	%100
88	MP3C	Z	-6.019	-6.019	0	%100
89	MP4C	X	3.475	3.475	0	%100
90	MP4C	Z	-6.019	-6.019	0	%100
91	MP2C	X	3.475	3.475	0	%100
92	MP2C	Z	-6.019	-6.019	0	%100
93	MP1C	X	3.475	3.475	0	%100
94	MP1C	Z	-6.019	-6.019	0	%100
95	M198A	X	0	0	0	%100
96	M198A	Z	0	0	0	%100
97	MP3B	X	3.475	3.475	0	%100
98	MP3B	Z	-6.019	-6.019	0	%100
99	MP4B	X	3.475	3.475	0	%100
100	MP4B	Z	-6.019	-6.019	0	%100
101	MP2B	X	3.475	3.475	0	%100
102	MP2B	Z	-6.019	-6.019	0	%100
103	MP1B	X	3.475	3.475	0	%100
104	MP1B	Z	-6.019	-6.019	0	%100
105	M112	X	3.155	3.155	0	%100
106	M112	Z	-5.465	-5.465	0	%100
107	M117	X	3.155	3.155	0	%100
108	M117	Z	-5.465	-5.465	0	%100
109	M122	X	0	0	0	%100
110	M122	Z	0	0	0	%100
111	M127	X	3.545	3.545	0	%100
112	M127	Z	-6.14	-6.14	0	%100
113	M128	X	3.545	3.545	0	%100
114	M128	Z	-6.14	-6.14	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,%]
115	M129	X	0	0	0	%100
116	M129	Z	0	0	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	M4	X	6.757	6.757	0	%100
2	M4	Z	-3.901	-3.901	0	%100
3	M10	X	1.906	1.906	0	%100
4	M10	Z	-1.1	-1.1	0	%100
5	M43	X	1.906	1.906	0	%100
6	M43	Z	-1.1	-1.1	0	%100
7	M46	X	3.801	3.801	0	%100
8	M46	Z	-2.195	-2.195	0	%100
9	M51B	X	8.443	8.443	0	%100
10	M51B	Z	-4.875	-4.875	0	%100
11	M52B	X	2.111	2.111	0	%100
12	M52B	Z	-1.219	-1.219	0	%100
13	M76	X	11.404	11.404	0	%100
14	M76	Z	-6.584	-6.584	0	%100
15	M77	X	15.487	15.487	0	%100
16	M77	Z	-8.942	-8.942	0	%100
17	M80	X	16.313	16.313	0	%100
18	M80	Z	-9.418	-9.418	0	%100
19	M84	X	11.404	11.404	0	%100
20	M84	Z	-6.584	-6.584	0	%100
21	M85	X	3.872	3.872	0	%100
22	M85	Z	-2.235	-2.235	0	%100
23	M91	X	4.078	4.078	0	%100
24	M91	Z	-2.355	-2.355	0	%100
25	M101	X	4.922	4.922	0	%100
26	M101	Z	-2.842	-2.842	0	%100
27	M128A	X	0	0	0	%100
28	M128A	Z	0	0	0	%100
29	M129A	X	7.623	7.623	0	%100
30	M129A	Z	-4.401	-4.401	0	%100
31	M130A	X	7.623	7.623	0	%100
32	M130A	Z	-4.401	-4.401	0	%100
33	M131A	X	15.206	15.206	0	%100
34	M131A	Z	-8.779	-8.779	0	%100
35	M134A	X	2.111	2.111	0	%100
36	M134A	Z	-1.219	-1.219	0	%100
37	M135A	X	2.111	2.111	0	%100
38	M135A	Z	-1.219	-1.219	0	%100
39	M139A	X	0	0	0	%100
40	M139A	Z	0	0	0	%100
41	M140A	X	3.872	3.872	0	%100
42	M140A	Z	-2.235	-2.235	0	%100
43	M142A	X	4.078	4.078	0	%100
44	M142A	Z	-2.355	-2.355	0	%100
45	M144A	X	0	0	0	%100
46	M144A	Z	0	0	0	%100
47	M145A	X	3.872	3.872	0	%100
48	M145A	Z	-2.235	-2.235	0	%100
49	M147A	X	4.078	4.078	0	%100
50	M147A	Z	-2.355	-2.355	0	%100
51	M154A	X	6.757	6.757	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,%]
52	M154A	Z	-3.901	-3.901	0	%100
53	M155A	X	1.906	1.906	0	%100
54	M155A	Z	-1.1	-1.1	0	%100
55	M156A	X	1.906	1.906	0	%100
56	M156A	Z	-1.1	-1.1	0	%100
57	M157A	X	3.801	3.801	0	%100
58	M157A	Z	-2.195	-2.195	0	%100
59	M160A	X	2.111	2.111	0	%100
60	M160A	Z	-1.219	-1.219	0	%100
61	M161A	X	8.443	8.443	0	%100
62	M161A	Z	-4.875	-4.875	0	%100
63	M165A	X	11.404	11.404	0	%100
64	M165A	Z	-6.584	-6.584	0	%100
65	M166A	X	3.872	3.872	0	%100
66	M166A	Z	-2.235	-2.235	0	%100
67	M168A	X	4.078	4.078	0	%100
68	M168A	Z	-2.355	-2.355	0	%100
69	M170A	X	11.404	11.404	0	%100
70	M170A	Z	-6.584	-6.584	0	%100
71	M171A	X	15.487	15.487	0	%100
72	M171A	Z	-8.942	-8.942	0	%100
73	M173A	X	16.313	16.313	0	%100
74	M173A	Z	-9.418	-9.418	0	%100
75	M180A	X	2.218	2.218	0	%100
76	M180A	Z	-1.28	-1.28	0	%100
77	MP3A	X	6.019	6.019	0	%100
78	MP3A	Z	-3.475	-3.475	0	%100
79	MP4A	X	6.019	6.019	0	%100
80	MP4A	Z	-3.475	-3.475	0	%100
81	MP2A	X	6.019	6.019	0	%100
82	MP2A	Z	-3.475	-3.475	0	%100
83	MP1A	X	6.019	6.019	0	%100
84	MP1A	Z	-3.475	-3.475	0	%100
85	M189A	X	8.87	8.87	0	%100
86	M189A	Z	-5.121	-5.121	0	%100
87	MP3C	X	6.019	6.019	0	%100
88	MP3C	Z	-3.475	-3.475	0	%100
89	MP4C	X	6.019	6.019	0	%100
90	MP4C	Z	-3.475	-3.475	0	%100
91	MP2C	X	6.019	6.019	0	%100
92	MP2C	Z	-3.475	-3.475	0	%100
93	MP1C	X	6.019	6.019	0	%100
94	MP1C	Z	-3.475	-3.475	0	%100
95	M198A	X	2.218	2.218	0	%100
96	M198A	Z	-1.28	-1.28	0	%100
97	MP3B	X	6.019	6.019	0	%100
98	MP3B	Z	-3.475	-3.475	0	%100
99	MP4B	X	6.019	6.019	0	%100
100	MP4B	Z	-3.475	-3.475	0	%100
101	MP2B	X	6.019	6.019	0	%100
102	MP2B	Z	-3.475	-3.475	0	%100
103	MP1B	X	6.019	6.019	0	%100
104	MP1B	Z	-3.475	-3.475	0	%100
105	M112	X	1.822	1.822	0	%100
106	M112	Z	-1.052	-1.052	0	%100
107	M117	X	7.286	7.286	0	%100
108	M117	Z	-4.207	-4.207	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,%]
109	M122	X	1.822	1.822	0	%100
110	M122	Z	-1.052	-1.052	0	%100
111	M127	X	8.187	8.187	0	%100
112	M127	Z	-4.727	-4.727	0	%100
113	M128	X	2.047	2.047	0	%100
114	M128	Z	-1.182	-1.182	0	%100
115	M129	X	2.047	2.047	0	%100
116	M129	Z	-1.182	-1.182	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	M4	X	10.403	10.403	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	0	0	0	%100
9	M51B	X	7.312	7.312	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	7.312	7.312	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	17.558	17.558	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	13.412	13.412	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	14.127	14.127	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	17.558	17.558	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	13.412	13.412	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	14.127	14.127	0	%100
24	M91	Z	0	0	0	%100
25	M101	X	5.683	5.683	0	%100
26	M101	Z	0	0	0	%100
27	M128A	X	2.601	2.601	0	%100
28	M128A	Z	0	0	0	%100
29	M129A	X	6.602	6.602	0	%100
30	M129A	Z	0	0	0	%100
31	M130A	X	6.602	6.602	0	%100
32	M130A	Z	0	0	0	%100
33	M131A	X	13.169	13.169	0	%100
34	M131A	Z	0	0	0	%100
35	M134A	X	7.312	7.312	0	%100
36	M134A	Z	0	0	0	%100
37	M135A	X	0	0	0	%100
38	M135A	Z	0	0	0	%100
39	M139A	X	4.39	4.39	0	%100
40	M139A	Z	0	0	0	%100
41	M140A	X	13.412	13.412	0	%100
42	M140A	Z	0	0	0	%100
43	M142A	X	14.127	14.127	0	%100
44	M142A	Z	0	0	0	%100
45	M144A	X	4.39	4.39	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,%]
46	M144A	Z	0	0	0	%100
47	M145A	X	0	0	0	%100
48	M145A	Z	0	0	0	%100
49	M147A	X	0	0	0	%100
50	M147A	Z	0	0	0	%100
51	M154A	X	2.601	2.601	0	%100
52	M154A	Z	0	0	0	%100
53	M155A	X	6.602	6.602	0	%100
54	M155A	Z	0	0	0	%100
55	M156A	X	6.602	6.602	0	%100
56	M156A	Z	0	0	0	%100
57	M157A	X	13.169	13.169	0	%100
58	M157A	Z	0	0	0	%100
59	M160A	X	0	0	0	%100
60	M160A	Z	0	0	0	%100
61	M161A	X	7.312	7.312	0	%100
62	M161A	Z	0	0	0	%100
63	M165A	X	4.39	4.39	0	%100
64	M165A	Z	0	0	0	%100
65	M166A	X	0	0	0	%100
66	M166A	Z	0	0	0	%100
67	M168A	X	0	0	0	%100
68	M168A	Z	0	0	0	%100
69	M170A	X	4.39	4.39	0	%100
70	M170A	Z	0	0	0	%100
71	M171A	X	13.412	13.412	0	%100
72	M171A	Z	0	0	0	%100
73	M173A	X	14.127	14.127	0	%100
74	M173A	Z	0	0	0	%100
75	M180A	X	0	0	0	%100
76	M180A	Z	0	0	0	%100
77	MP3A	X	6.95	6.95	0	%100
78	MP3A	Z	0	0	0	%100
79	MP4A	X	6.95	6.95	0	%100
80	MP4A	Z	0	0	0	%100
81	MP2A	X	6.95	6.95	0	%100
82	MP2A	Z	0	0	0	%100
83	MP1A	X	6.95	6.95	0	%100
84	MP1A	Z	0	0	0	%100
85	M189A	X	7.682	7.682	0	%100
86	M189A	Z	0	0	0	%100
87	MP3C	X	6.95	6.95	0	%100
88	MP3C	Z	0	0	0	%100
89	MP4C	X	6.95	6.95	0	%100
90	MP4C	Z	0	0	0	%100
91	MP2C	X	6.95	6.95	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	6.95	6.95	0	%100
94	MP1C	Z	0	0	0	%100
95	M198A	X	7.682	7.682	0	%100
96	M198A	Z	0	0	0	%100
97	MP3B	X	6.95	6.95	0	%100
98	MP3B	Z	0	0	0	%100
99	MP4B	X	6.95	6.95	0	%100
100	MP4B	Z	0	0	0	%100
101	MP2B	X	6.95	6.95	0	%100
102	MP2B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
103	MP1B	X	6.95	6.95	0	%100
104	MP1B	Z	0	0	0	%100
105	M112	X	0	0	0	%100
106	M112	Z	0	0	0	%100
107	M117	X	6.31	6.31	0	%100
108	M117	Z	0	0	0	%100
109	M122	X	6.31	6.31	0	%100
110	M122	Z	0	0	0	%100
111	M127	X	7.09	7.09	0	%100
112	M127	Z	0	0	0	%100
113	M128	X	0	0	0	%100
114	M128	Z	0	0	0	%100
115	M129	X	7.09	7.09	0	%100
116	M129	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	M4	X	6.757	6.757	0	%100
2	M4	Z	3.901	3.901	0	%100
3	M10	X	1.906	1.906	0	%100
4	M10	Z	1.1	1.1	0	%100
5	M43	X	1.906	1.906	0	%100
6	M43	Z	1.1	1.1	0	%100
7	M46	X	3.801	3.801	0	%100
8	M46	Z	2.195	2.195	0	%100
9	M51B	X	2.111	2.111	0	%100
10	M51B	Z	1.219	1.219	0	%100
11	M52B	X	8.443	8.443	0	%100
12	M52B	Z	4.875	4.875	0	%100
13	M76	X	11.404	11.404	0	%100
14	M76	Z	6.584	6.584	0	%100
15	M77	X	3.872	3.872	0	%100
16	M77	Z	2.235	2.235	0	%100
17	M80	X	4.078	4.078	0	%100
18	M80	Z	2.355	2.355	0	%100
19	M84	X	11.404	11.404	0	%100
20	M84	Z	6.584	6.584	0	%100
21	M85	X	15.487	15.487	0	%100
22	M85	Z	8.942	8.942	0	%100
23	M91	X	16.313	16.313	0	%100
24	M91	Z	9.418	9.418	0	%100
25	M101	X	4.922	4.922	0	%100
26	M101	Z	2.842	2.842	0	%100
27	M128A	X	6.757	6.757	0	%100
28	M128A	Z	3.901	3.901	0	%100
29	M129A	X	1.906	1.906	0	%100
30	M129A	Z	1.1	1.1	0	%100
31	M130A	X	1.906	1.906	0	%100
32	M130A	Z	1.1	1.1	0	%100
33	M131A	X	3.801	3.801	0	%100
34	M131A	Z	2.195	2.195	0	%100
35	M134A	X	8.443	8.443	0	%100
36	M134A	Z	4.875	4.875	0	%100
37	M135A	X	2.111	2.111	0	%100
38	M135A	Z	1.219	1.219	0	%100
39	M139A	X	11.404	11.404	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,%]
40	M139A	Z	6.584	6.584	0	%100
41	M140A	X	15.487	15.487	0	%100
42	M140A	Z	8.942	8.942	0	%100
43	M142A	X	16.313	16.313	0	%100
44	M142A	Z	9.418	9.418	0	%100
45	M144A	X	11.404	11.404	0	%100
46	M144A	Z	6.584	6.584	0	%100
47	M145A	X	3.872	3.872	0	%100
48	M145A	Z	2.235	2.235	0	%100
49	M147A	X	4.078	4.078	0	%100
50	M147A	Z	2.355	2.355	0	%100
51	M154A	X	0	0	0	%100
52	M154A	Z	0	0	0	%100
53	M155A	X	7.623	7.623	0	%100
54	M155A	Z	4.401	4.401	0	%100
55	M156A	X	7.623	7.623	0	%100
56	M156A	Z	4.401	4.401	0	%100
57	M157A	X	15.206	15.206	0	%100
58	M157A	Z	8.779	8.779	0	%100
59	M160A	X	2.111	2.111	0	%100
60	M160A	Z	1.219	1.219	0	%100
61	M161A	X	2.111	2.111	0	%100
62	M161A	Z	1.219	1.219	0	%100
63	M165A	X	0	0	0	%100
64	M165A	Z	0	0	0	%100
65	M166A	X	3.872	3.872	0	%100
66	M166A	Z	2.235	2.235	0	%100
67	M168A	X	4.078	4.078	0	%100
68	M168A	Z	2.355	2.355	0	%100
69	M170A	X	0	0	0	%100
70	M170A	Z	0	0	0	%100
71	M171A	X	3.872	3.872	0	%100
72	M171A	Z	2.235	2.235	0	%100
73	M173A	X	4.078	4.078	0	%100
74	M173A	Z	2.355	2.355	0	%100
75	M180A	X	2.218	2.218	0	%100
76	M180A	Z	1.28	1.28	0	%100
77	MP3A	X	6.019	6.019	0	%100
78	MP3A	Z	3.475	3.475	0	%100
79	MP4A	X	6.019	6.019	0	%100
80	MP4A	Z	3.475	3.475	0	%100
81	MP2A	X	6.019	6.019	0	%100
82	MP2A	Z	3.475	3.475	0	%100
83	MP1A	X	6.019	6.019	0	%100
84	MP1A	Z	3.475	3.475	0	%100
85	M189A	X	2.218	2.218	0	%100
86	M189A	Z	1.28	1.28	0	%100
87	MP3C	X	6.019	6.019	0	%100
88	MP3C	Z	3.475	3.475	0	%100
89	MP4C	X	6.019	6.019	0	%100
90	MP4C	Z	3.475	3.475	0	%100
91	MP2C	X	6.019	6.019	0	%100
92	MP2C	Z	3.475	3.475	0	%100
93	MP1C	X	6.019	6.019	0	%100
94	MP1C	Z	3.475	3.475	0	%100
95	M198A	X	8.87	8.87	0	%100
96	M198A	Z	5.121	5.121	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,%]
97	MP3B	X	6.019	6.019	0	%100
98	MP3B	Z	3.475	3.475	0	%100
99	MP4B	X	6.019	6.019	0	%100
100	MP4B	Z	3.475	3.475	0	%100
101	MP2B	X	6.019	6.019	0	%100
102	MP2B	Z	3.475	3.475	0	%100
103	MP1B	X	6.019	6.019	0	%100
104	MP1B	Z	3.475	3.475	0	%100
105	M112	X	1.822	1.822	0	%100
106	M112	Z	1.052	1.052	0	%100
107	M117	X	1.822	1.822	0	%100
108	M117	Z	1.052	1.052	0	%100
109	M122	X	7.286	7.286	0	%100
110	M122	Z	4.207	4.207	0	%100
111	M127	X	2.047	2.047	0	%100
112	M127	Z	1.182	1.182	0	%100
113	M128	X	2.047	2.047	0	%100
114	M128	Z	1.182	1.182	0	%100
115	M129	X	8.187	8.187	0	%100
116	M129	Z	4.727	4.727	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	M4	X	1.3	1.3	0	%100
2	M4	Z	2.252	2.252	0	%100
3	M10	X	3.301	3.301	0	%100
4	M10	Z	5.718	5.718	0	%100
5	M43	X	3.301	3.301	0	%100
6	M43	Z	5.718	5.718	0	%100
7	M46	X	6.584	6.584	0	%100
8	M46	Z	11.404	11.404	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	3.656	3.656	0	%100
12	M52B	Z	6.333	6.333	0	%100
13	M76	X	2.195	2.195	0	%100
14	M76	Z	3.801	3.801	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	2.195	2.195	0	%100
20	M84	Z	3.801	3.801	0	%100
21	M85	X	6.706	6.706	0	%100
22	M85	Z	11.616	11.616	0	%100
23	M91	X	7.064	7.064	0	%100
24	M91	Z	12.234	12.234	0	%100
25	M101	X	2.842	2.842	0	%100
26	M101	Z	4.922	4.922	0	%100
27	M128A	X	5.202	5.202	0	%100
28	M128A	Z	9.009	9.009	0	%100
29	M129A	X	0	0	0	%100
30	M129A	Z	0	0	0	%100
31	M130A	X	0	0	0	%100
32	M130A	Z	0	0	0	%100
33	M131A	X	0	0	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,%]
34	M131A	Z	0	0	0	%100
35	M134A	X	3.656	3.656	0	%100
36	M134A	Z	6.333	6.333	0	%100
37	M135A	X	3.656	3.656	0	%100
38	M135A	Z	6.333	6.333	0	%100
39	M139A	X	8.779	8.779	0	%100
40	M139A	Z	15.206	15.206	0	%100
41	M140A	X	6.706	6.706	0	%100
42	M140A	Z	11.616	11.616	0	%100
43	M142A	X	7.064	7.064	0	%100
44	M142A	Z	12.234	12.234	0	%100
45	M144A	X	8.779	8.779	0	%100
46	M144A	Z	15.206	15.206	0	%100
47	M145A	X	6.706	6.706	0	%100
48	M145A	Z	11.616	11.616	0	%100
49	M147A	X	7.064	7.064	0	%100
50	M147A	Z	12.234	12.234	0	%100
51	M154A	X	1.3	1.3	0	%100
52	M154A	Z	2.252	2.252	0	%100
53	M155A	X	3.301	3.301	0	%100
54	M155A	Z	5.718	5.718	0	%100
55	M156A	X	3.301	3.301	0	%100
56	M156A	Z	5.718	5.718	0	%100
57	M157A	X	6.584	6.584	0	%100
58	M157A	Z	11.404	11.404	0	%100
59	M160A	X	3.656	3.656	0	%100
60	M160A	Z	6.333	6.333	0	%100
61	M161A	X	0	0	0	%100
62	M161A	Z	0	0	0	%100
63	M165A	X	2.195	2.195	0	%100
64	M165A	Z	3.801	3.801	0	%100
65	M166A	X	6.706	6.706	0	%100
66	M166A	Z	11.616	11.616	0	%100
67	M168A	X	7.064	7.064	0	%100
68	M168A	Z	12.234	12.234	0	%100
69	M170A	X	2.195	2.195	0	%100
70	M170A	Z	3.801	3.801	0	%100
71	M171A	X	0	0	0	%100
72	M171A	Z	0	0	0	%100
73	M173A	X	0	0	0	%100
74	M173A	Z	0	0	0	%100
75	M180A	X	3.841	3.841	0	%100
76	M180A	Z	6.653	6.653	0	%100
77	MP3A	X	3.475	3.475	0	%100
78	MP3A	Z	6.019	6.019	0	%100
79	MP4A	X	3.475	3.475	0	%100
80	MP4A	Z	6.019	6.019	0	%100
81	MP2A	X	3.475	3.475	0	%100
82	MP2A	Z	6.019	6.019	0	%100
83	MP1A	X	3.475	3.475	0	%100
84	MP1A	Z	6.019	6.019	0	%100
85	M189A	X	0	0	0	%100
86	M189A	Z	0	0	0	%100
87	MP3C	X	3.475	3.475	0	%100
88	MP3C	Z	6.019	6.019	0	%100
89	MP4C	X	3.475	3.475	0	%100
90	MP4C	Z	6.019	6.019	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,%]
91	MP2C	X	3.475	3.475	0	%100
92	MP2C	Z	6.019	6.019	0	%100
93	MP1C	X	3.475	3.475	0	%100
94	MP1C	Z	6.019	6.019	0	%100
95	M198A	X	3.841	3.841	0	%100
96	M198A	Z	6.653	6.653	0	%100
97	MP3B	X	3.475	3.475	0	%100
98	MP3B	Z	6.019	6.019	0	%100
99	MP4B	X	3.475	3.475	0	%100
100	MP4B	Z	6.019	6.019	0	%100
101	MP2B	X	3.475	3.475	0	%100
102	MP2B	Z	6.019	6.019	0	%100
103	MP1B	X	3.475	3.475	0	%100
104	MP1B	Z	6.019	6.019	0	%100
105	M112	X	3.155	3.155	0	%100
106	M112	Z	5.465	5.465	0	%100
107	M117	X	0	0	0	%100
108	M117	Z	0	0	0	%100
109	M122	X	3.155	3.155	0	%100
110	M122	Z	5.465	5.465	0	%100
111	M127	X	0	0	0	%100
112	M127	Z	0	0	0	%100
113	M128	X	3.545	3.545	0	%100
114	M128	Z	6.14	6.14	0	%100
115	M129	X	3.545	3.545	0	%100
116	M129	Z	6.14	6.14	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	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	8.803	8.803	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	8.803	8.803	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	17.558	17.558	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	2.437	2.437	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	2.437	2.437	0	%100
13	M76	X	0	0	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	4.471	4.471	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	4.709	4.709	0	%100
19	M84	X	0	0	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	4.471	4.471	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	4.709	4.709	0	%100
25	M101	X	0	0	0	%100
26	M101	Z	5.683	5.683	0	%100
27	M128A	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,%]
28	M128A	Z	7.802	7.802	0	%100
29	M129A	X	0	0	0	%100
30	M129A	Z	2.201	2.201	0	%100
31	M130A	X	0	0	0	%100
32	M130A	Z	2.201	2.201	0	%100
33	M131A	X	0	0	0	%100
34	M131A	Z	4.39	4.39	0	%100
35	M134A	X	0	0	0	%100
36	M134A	Z	2.437	2.437	0	%100
37	M135A	X	0	0	0	%100
38	M135A	Z	9.75	9.75	0	%100
39	M139A	X	0	0	0	%100
40	M139A	Z	13.169	13.169	0	%100
41	M140A	X	0	0	0	%100
42	M140A	Z	4.471	4.471	0	%100
43	M142A	X	0	0	0	%100
44	M142A	Z	4.709	4.709	0	%100
45	M144A	X	0	0	0	%100
46	M144A	Z	13.169	13.169	0	%100
47	M145A	X	0	0	0	%100
48	M145A	Z	17.883	17.883	0	%100
49	M147A	X	0	0	0	%100
50	M147A	Z	18.836	18.836	0	%100
51	M154A	X	0	0	0	%100
52	M154A	Z	7.802	7.802	0	%100
53	M155A	X	0	0	0	%100
54	M155A	Z	2.201	2.201	0	%100
55	M156A	X	0	0	0	%100
56	M156A	Z	2.201	2.201	0	%100
57	M157A	X	0	0	0	%100
58	M157A	Z	4.39	4.39	0	%100
59	M160A	X	0	0	0	%100
60	M160A	Z	9.75	9.75	0	%100
61	M161A	X	0	0	0	%100
62	M161A	Z	2.437	2.437	0	%100
63	M165A	X	0	0	0	%100
64	M165A	Z	13.169	13.169	0	%100
65	M166A	X	0	0	0	%100
66	M166A	Z	17.883	17.883	0	%100
67	M168A	X	0	0	0	%100
68	M168A	Z	18.836	18.836	0	%100
69	M170A	X	0	0	0	%100
70	M170A	Z	13.169	13.169	0	%100
71	M171A	X	0	0	0	%100
72	M171A	Z	4.471	4.471	0	%100
73	M173A	X	0	0	0	%100
74	M173A	Z	4.709	4.709	0	%100
75	M180A	X	0	0	0	%100
76	M180A	Z	10.242	10.242	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	6.95	6.95	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	6.95	6.95	0	%100
81	MP2A	X	0	0	0	%100
82	MP2A	Z	6.95	6.95	0	%100
83	MP1A	X	0	0	0	%100
84	MP1A	Z	6.95	6.95	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,%]
85	M189A	X	0	0	0	%100
86	M189A	Z	2.561	2.561	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	6.95	6.95	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	6.95	6.95	0	%100
91	MP2C	X	0	0	0	%100
92	MP2C	Z	6.95	6.95	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	6.95	6.95	0	%100
95	M198A	X	0	0	0	%100
96	M198A	Z	2.561	2.561	0	%100
97	MP3B	X	0	0	0	%100
98	MP3B	Z	6.95	6.95	0	%100
99	MP4B	X	0	0	0	%100
100	MP4B	Z	6.95	6.95	0	%100
101	MP2B	X	0	0	0	%100
102	MP2B	Z	6.95	6.95	0	%100
103	MP1B	X	0	0	0	%100
104	MP1B	Z	6.95	6.95	0	%100
105	M112	X	0	0	0	%100
106	M112	Z	8.413	8.413	0	%100
107	M117	X	0	0	0	%100
108	M117	Z	2.103	2.103	0	%100
109	M122	X	0	0	0	%100
110	M122	Z	2.103	2.103	0	%100
111	M127	X	0	0	0	%100
112	M127	Z	2.363	2.363	0	%100
113	M128	X	0	0	0	%100
114	M128	Z	9.453	9.453	0	%100
115	M129	X	0	0	0	%100
116	M129	Z	2.363	2.363	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	M4	X	-1.3	-1.3	0	%100
2	M4	Z	2.252	2.252	0	%100
3	M10	X	-3.301	-3.301	0	%100
4	M10	Z	5.718	5.718	0	%100
5	M43	X	-3.301	-3.301	0	%100
6	M43	Z	5.718	5.718	0	%100
7	M46	X	-6.584	-6.584	0	%100
8	M46	Z	11.404	11.404	0	%100
9	M51B	X	-3.656	-3.656	0	%100
10	M51B	Z	6.333	6.333	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	-2.195	-2.195	0	%100
14	M76	Z	3.801	3.801	0	%100
15	M77	X	-6.706	-6.706	0	%100
16	M77	Z	11.616	11.616	0	%100
17	M80	X	-7.064	-7.064	0	%100
18	M80	Z	12.234	12.234	0	%100
19	M84	X	-2.195	-2.195	0	%100
20	M84	Z	3.801	3.801	0	%100
21	M85	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	M85	Z	0	0	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	0	0	0	%100
25	M101	X	-2.842	-2.842	0	%100
26	M101	Z	4.922	4.922	0	%100
27	M128A	X	-1.3	-1.3	0	%100
28	M128A	Z	2.252	2.252	0	%100
29	M129A	X	-3.301	-3.301	0	%100
30	M129A	Z	5.718	5.718	0	%100
31	M130A	X	-3.301	-3.301	0	%100
32	M130A	Z	5.718	5.718	0	%100
33	M131A	X	-6.584	-6.584	0	%100
34	M131A	Z	11.404	11.404	0	%100
35	M134A	X	0	0	0	%100
36	M134A	Z	0	0	0	%100
37	M135A	X	-3.656	-3.656	0	%100
38	M135A	Z	6.333	6.333	0	%100
39	M139A	X	-2.195	-2.195	0	%100
40	M139A	Z	3.801	3.801	0	%100
41	M140A	X	0	0	0	%100
42	M140A	Z	0	0	0	%100
43	M142A	X	0	0	0	%100
44	M142A	Z	0	0	0	%100
45	M144A	X	-2.195	-2.195	0	%100
46	M144A	Z	3.801	3.801	0	%100
47	M145A	X	-6.706	-6.706	0	%100
48	M145A	Z	11.616	11.616	0	%100
49	M147A	X	-7.064	-7.064	0	%100
50	M147A	Z	12.234	12.234	0	%100
51	M154A	X	-5.202	-5.202	0	%100
52	M154A	Z	9.009	9.009	0	%100
53	M155A	X	0	0	0	%100
54	M155A	Z	0	0	0	%100
55	M156A	X	0	0	0	%100
56	M156A	Z	0	0	0	%100
57	M157A	X	0	0	0	%100
58	M157A	Z	0	0	0	%100
59	M160A	X	-3.656	-3.656	0	%100
60	M160A	Z	6.333	6.333	0	%100
61	M161A	X	-3.656	-3.656	0	%100
62	M161A	Z	6.333	6.333	0	%100
63	M165A	X	-8.779	-8.779	0	%100
64	M165A	Z	15.206	15.206	0	%100
65	M166A	X	-6.706	-6.706	0	%100
66	M166A	Z	11.616	11.616	0	%100
67	M168A	X	-7.064	-7.064	0	%100
68	M168A	Z	12.234	12.234	0	%100
69	M170A	X	-8.779	-8.779	0	%100
70	M170A	Z	15.206	15.206	0	%100
71	M171A	X	-6.706	-6.706	0	%100
72	M171A	Z	11.616	11.616	0	%100
73	M173A	X	-7.064	-7.064	0	%100
74	M173A	Z	12.234	12.234	0	%100
75	M180A	X	-3.841	-3.841	0	%100
76	M180A	Z	6.653	6.653	0	%100
77	MP3A	X	-3.475	-3.475	0	%100
78	MP3A	Z	6.019	6.019	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,%]
79	MP4A	X	-3.475	-3.475	0	%100
80	MP4A	Z	6.019	6.019	0	%100
81	MP2A	X	-3.475	-3.475	0	%100
82	MP2A	Z	6.019	6.019	0	%100
83	MP1A	X	-3.475	-3.475	0	%100
84	MP1A	Z	6.019	6.019	0	%100
85	M189A	X	-3.841	-3.841	0	%100
86	M189A	Z	6.653	6.653	0	%100
87	MP3C	X	-3.475	-3.475	0	%100
88	MP3C	Z	6.019	6.019	0	%100
89	MP4C	X	-3.475	-3.475	0	%100
90	MP4C	Z	6.019	6.019	0	%100
91	MP2C	X	-3.475	-3.475	0	%100
92	MP2C	Z	6.019	6.019	0	%100
93	MP1C	X	-3.475	-3.475	0	%100
94	MP1C	Z	6.019	6.019	0	%100
95	M198A	X	0	0	0	%100
96	M198A	Z	0	0	0	%100
97	MP3B	X	-3.475	-3.475	0	%100
98	MP3B	Z	6.019	6.019	0	%100
99	MP4B	X	-3.475	-3.475	0	%100
100	MP4B	Z	6.019	6.019	0	%100
101	MP2B	X	-3.475	-3.475	0	%100
102	MP2B	Z	6.019	6.019	0	%100
103	MP1B	X	-3.475	-3.475	0	%100
104	MP1B	Z	6.019	6.019	0	%100
105	M112	X	-3.155	-3.155	0	%100
106	M112	Z	5.465	5.465	0	%100
107	M117	X	-3.155	-3.155	0	%100
108	M117	Z	5.465	5.465	0	%100
109	M122	X	0	0	0	%100
110	M122	Z	0	0	0	%100
111	M127	X	-3.545	-3.545	0	%100
112	M127	Z	6.14	6.14	0	%100
113	M128	X	-3.545	-3.545	0	%100
114	M128	Z	6.14	6.14	0	%100
115	M129	X	0	0	0	%100
116	M129	Z	0	0	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	M4	X	-6.757	-6.757	0	%100
2	M4	Z	3.901	3.901	0	%100
3	M10	X	-1.906	-1.906	0	%100
4	M10	Z	1.1	1.1	0	%100
5	M43	X	-1.906	-1.906	0	%100
6	M43	Z	1.1	1.1	0	%100
7	M46	X	-3.801	-3.801	0	%100
8	M46	Z	2.195	2.195	0	%100
9	M51B	X	-8.443	-8.443	0	%100
10	M51B	Z	4.875	4.875	0	%100
11	M52B	X	-2.111	-2.111	0	%100
12	M52B	Z	1.219	1.219	0	%100
13	M76	X	-11.404	-11.404	0	%100
14	M76	Z	6.584	6.584	0	%100
15	M77	X	-15.487	-15.487	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,%]
16	M77	Z	8.942	8.942	0	%100
17	M80	X	-16.313	-16.313	0	%100
18	M80	Z	9.418	9.418	0	%100
19	M84	X	-11.404	-11.404	0	%100
20	M84	Z	6.584	6.584	0	%100
21	M85	X	-3.872	-3.872	0	%100
22	M85	Z	2.235	2.235	0	%100
23	M91	X	-4.078	-4.078	0	%100
24	M91	Z	2.355	2.355	0	%100
25	M101	X	-4.922	-4.922	0	%100
26	M101	Z	2.842	2.842	0	%100
27	M128A	X	0	0	0	%100
28	M128A	Z	0	0	0	%100
29	M129A	X	-7.623	-7.623	0	%100
30	M129A	Z	4.401	4.401	0	%100
31	M130A	X	-7.623	-7.623	0	%100
32	M130A	Z	4.401	4.401	0	%100
33	M131A	X	-15.206	-15.206	0	%100
34	M131A	Z	8.779	8.779	0	%100
35	M134A	X	-2.111	-2.111	0	%100
36	M134A	Z	1.219	1.219	0	%100
37	M135A	X	-2.111	-2.111	0	%100
38	M135A	Z	1.219	1.219	0	%100
39	M139A	X	0	0	0	%100
40	M139A	Z	0	0	0	%100
41	M140A	X	-3.872	-3.872	0	%100
42	M140A	Z	2.235	2.235	0	%100
43	M142A	X	-4.078	-4.078	0	%100
44	M142A	Z	2.355	2.355	0	%100
45	M144A	X	0	0	0	%100
46	M144A	Z	0	0	0	%100
47	M145A	X	-3.872	-3.872	0	%100
48	M145A	Z	2.235	2.235	0	%100
49	M147A	X	-4.078	-4.078	0	%100
50	M147A	Z	2.355	2.355	0	%100
51	M154A	X	-6.757	-6.757	0	%100
52	M154A	Z	3.901	3.901	0	%100
53	M155A	X	-1.906	-1.906	0	%100
54	M155A	Z	1.1	1.1	0	%100
55	M156A	X	-1.906	-1.906	0	%100
56	M156A	Z	1.1	1.1	0	%100
57	M157A	X	-3.801	-3.801	0	%100
58	M157A	Z	2.195	2.195	0	%100
59	M160A	X	-2.111	-2.111	0	%100
60	M160A	Z	1.219	1.219	0	%100
61	M161A	X	-8.443	-8.443	0	%100
62	M161A	Z	4.875	4.875	0	%100
63	M165A	X	-11.404	-11.404	0	%100
64	M165A	Z	6.584	6.584	0	%100
65	M166A	X	-3.872	-3.872	0	%100
66	M166A	Z	2.235	2.235	0	%100
67	M168A	X	-4.078	-4.078	0	%100
68	M168A	Z	2.355	2.355	0	%100
69	M170A	X	-11.404	-11.404	0	%100
70	M170A	Z	6.584	6.584	0	%100
71	M171A	X	-15.487	-15.487	0	%100
72	M171A	Z	8.942	8.942	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,%]
73	M173A	X	-16.313	-16.313	0	%100
74	M173A	Z	9.418	9.418	0	%100
75	M180A	X	-2.218	-2.218	0	%100
76	M180A	Z	1.28	1.28	0	%100
77	MP3A	X	-6.019	-6.019	0	%100
78	MP3A	Z	3.475	3.475	0	%100
79	MP4A	X	-6.019	-6.019	0	%100
80	MP4A	Z	3.475	3.475	0	%100
81	MP2A	X	-6.019	-6.019	0	%100
82	MP2A	Z	3.475	3.475	0	%100
83	MP1A	X	-6.019	-6.019	0	%100
84	MP1A	Z	3.475	3.475	0	%100
85	M189A	X	-8.87	-8.87	0	%100
86	M189A	Z	5.121	5.121	0	%100
87	MP3C	X	-6.019	-6.019	0	%100
88	MP3C	Z	3.475	3.475	0	%100
89	MP4C	X	-6.019	-6.019	0	%100
90	MP4C	Z	3.475	3.475	0	%100
91	MP2C	X	-6.019	-6.019	0	%100
92	MP2C	Z	3.475	3.475	0	%100
93	MP1C	X	-6.019	-6.019	0	%100
94	MP1C	Z	3.475	3.475	0	%100
95	M198A	X	-2.218	-2.218	0	%100
96	M198A	Z	1.28	1.28	0	%100
97	MP3B	X	-6.019	-6.019	0	%100
98	MP3B	Z	3.475	3.475	0	%100
99	MP4B	X	-6.019	-6.019	0	%100
100	MP4B	Z	3.475	3.475	0	%100
101	MP2B	X	-6.019	-6.019	0	%100
102	MP2B	Z	3.475	3.475	0	%100
103	MP1B	X	-6.019	-6.019	0	%100
104	MP1B	Z	3.475	3.475	0	%100
105	M112	X	-1.822	-1.822	0	%100
106	M112	Z	1.052	1.052	0	%100
107	M117	X	-7.286	-7.286	0	%100
108	M117	Z	4.207	4.207	0	%100
109	M122	X	-1.822	-1.822	0	%100
110	M122	Z	1.052	1.052	0	%100
111	M127	X	-8.187	-8.187	0	%100
112	M127	Z	4.727	4.727	0	%100
113	M128	X	-2.047	-2.047	0	%100
114	M128	Z	1.182	1.182	0	%100
115	M129	X	-2.047	-2.047	0	%100
116	M129	Z	1.182	1.182	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	M4	X	-10.403	-10.403	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	0	0	0	%100
9	M51B	X	-7.312	-7.312	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,%]
10	M51B	Z	0	0	0	%100
11	M52B	X	-7.312	-7.312	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	-17.558	-17.558	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	-13.412	-13.412	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	-14.127	-14.127	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	-17.558	-17.558	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	-13.412	-13.412	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	-14.127	-14.127	0	%100
24	M91	Z	0	0	0	%100
25	M101	X	-5.683	-5.683	0	%100
26	M101	Z	0	0	0	%100
27	M128A	X	-2.601	-2.601	0	%100
28	M128A	Z	0	0	0	%100
29	M129A	X	-6.602	-6.602	0	%100
30	M129A	Z	0	0	0	%100
31	M130A	X	-6.602	-6.602	0	%100
32	M130A	Z	0	0	0	%100
33	M131A	X	-13.169	-13.169	0	%100
34	M131A	Z	0	0	0	%100
35	M134A	X	-7.312	-7.312	0	%100
36	M134A	Z	0	0	0	%100
37	M135A	X	0	0	0	%100
38	M135A	Z	0	0	0	%100
39	M139A	X	-4.39	-4.39	0	%100
40	M139A	Z	0	0	0	%100
41	M140A	X	-13.412	-13.412	0	%100
42	M140A	Z	0	0	0	%100
43	M142A	X	-14.127	-14.127	0	%100
44	M142A	Z	0	0	0	%100
45	M144A	X	-4.39	-4.39	0	%100
46	M144A	Z	0	0	0	%100
47	M145A	X	0	0	0	%100
48	M145A	Z	0	0	0	%100
49	M147A	X	0	0	0	%100
50	M147A	Z	0	0	0	%100
51	M154A	X	-2.601	-2.601	0	%100
52	M154A	Z	0	0	0	%100
53	M155A	X	-6.602	-6.602	0	%100
54	M155A	Z	0	0	0	%100
55	M156A	X	-6.602	-6.602	0	%100
56	M156A	Z	0	0	0	%100
57	M157A	X	-13.169	-13.169	0	%100
58	M157A	Z	0	0	0	%100
59	M160A	X	0	0	0	%100
60	M160A	Z	0	0	0	%100
61	M161A	X	-7.312	-7.312	0	%100
62	M161A	Z	0	0	0	%100
63	M165A	X	-4.39	-4.39	0	%100
64	M165A	Z	0	0	0	%100
65	M166A	X	0	0	0	%100
66	M166A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
67	M168A	X	0	0	0	%100
68	M168A	Z	0	0	0	%100
69	M170A	X	-4.39	-4.39	0	%100
70	M170A	Z	0	0	0	%100
71	M171A	X	-13.412	-13.412	0	%100
72	M171A	Z	0	0	0	%100
73	M173A	X	-14.127	-14.127	0	%100
74	M173A	Z	0	0	0	%100
75	M180A	X	0	0	0	%100
76	M180A	Z	0	0	0	%100
77	MP3A	X	-6.95	-6.95	0	%100
78	MP3A	Z	0	0	0	%100
79	MP4A	X	-6.95	-6.95	0	%100
80	MP4A	Z	0	0	0	%100
81	MP2A	X	-6.95	-6.95	0	%100
82	MP2A	Z	0	0	0	%100
83	MP1A	X	-6.95	-6.95	0	%100
84	MP1A	Z	0	0	0	%100
85	M189A	X	-7.682	-7.682	0	%100
86	M189A	Z	0	0	0	%100
87	MP3C	X	-6.95	-6.95	0	%100
88	MP3C	Z	0	0	0	%100
89	MP4C	X	-6.95	-6.95	0	%100
90	MP4C	Z	0	0	0	%100
91	MP2C	X	-6.95	-6.95	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	-6.95	-6.95	0	%100
94	MP1C	Z	0	0	0	%100
95	M198A	X	-7.682	-7.682	0	%100
96	M198A	Z	0	0	0	%100
97	MP3B	X	-6.95	-6.95	0	%100
98	MP3B	Z	0	0	0	%100
99	MP4B	X	-6.95	-6.95	0	%100
100	MP4B	Z	0	0	0	%100
101	MP2B	X	-6.95	-6.95	0	%100
102	MP2B	Z	0	0	0	%100
103	MP1B	X	-6.95	-6.95	0	%100
104	MP1B	Z	0	0	0	%100
105	M112	X	0	0	0	%100
106	M112	Z	0	0	0	%100
107	M117	X	-6.31	-6.31	0	%100
108	M117	Z	0	0	0	%100
109	M122	X	-6.31	-6.31	0	%100
110	M122	Z	0	0	0	%100
111	M127	X	-7.09	-7.09	0	%100
112	M127	Z	0	0	0	%100
113	M128	X	0	0	0	%100
114	M128	Z	0	0	0	%100
115	M129	X	-7.09	-7.09	0	%100
116	M129	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	M4	X	-6.757	-6.757	0	%100
2	M4	Z	-3.901	-3.901	0	%100
3	M10	X	-1.906	-1.906	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,%]
4	M10	Z	-1.1	-1.1	0	%100
5	M43	X	-1.906	-1.906	0	%100
6	M43	Z	-1.1	-1.1	0	%100
7	M46	X	-3.801	-3.801	0	%100
8	M46	Z	-2.195	-2.195	0	%100
9	M51B	X	-2.111	-2.111	0	%100
10	M51B	Z	-1.219	-1.219	0	%100
11	M52B	X	-8.443	-8.443	0	%100
12	M52B	Z	-4.875	-4.875	0	%100
13	M76	X	-11.404	-11.404	0	%100
14	M76	Z	-6.584	-6.584	0	%100
15	M77	X	-3.872	-3.872	0	%100
16	M77	Z	-2.235	-2.235	0	%100
17	M80	X	-4.078	-4.078	0	%100
18	M80	Z	-2.355	-2.355	0	%100
19	M84	X	-11.404	-11.404	0	%100
20	M84	Z	-6.584	-6.584	0	%100
21	M85	X	-15.487	-15.487	0	%100
22	M85	Z	-8.942	-8.942	0	%100
23	M91	X	-16.313	-16.313	0	%100
24	M91	Z	-9.418	-9.418	0	%100
25	M101	X	-4.922	-4.922	0	%100
26	M101	Z	-2.842	-2.842	0	%100
27	M128A	X	-6.757	-6.757	0	%100
28	M128A	Z	-3.901	-3.901	0	%100
29	M129A	X	-1.906	-1.906	0	%100
30	M129A	Z	-1.1	-1.1	0	%100
31	M130A	X	-1.906	-1.906	0	%100
32	M130A	Z	-1.1	-1.1	0	%100
33	M131A	X	-3.801	-3.801	0	%100
34	M131A	Z	-2.195	-2.195	0	%100
35	M134A	X	-8.443	-8.443	0	%100
36	M134A	Z	-4.875	-4.875	0	%100
37	M135A	X	-2.111	-2.111	0	%100
38	M135A	Z	-1.219	-1.219	0	%100
39	M139A	X	-11.404	-11.404	0	%100
40	M139A	Z	-6.584	-6.584	0	%100
41	M140A	X	-15.487	-15.487	0	%100
42	M140A	Z	-8.942	-8.942	0	%100
43	M142A	X	-16.313	-16.313	0	%100
44	M142A	Z	-9.418	-9.418	0	%100
45	M144A	X	-11.404	-11.404	0	%100
46	M144A	Z	-6.584	-6.584	0	%100
47	M145A	X	-3.872	-3.872	0	%100
48	M145A	Z	-2.235	-2.235	0	%100
49	M147A	X	-4.078	-4.078	0	%100
50	M147A	Z	-2.355	-2.355	0	%100
51	M154A	X	0	0	0	%100
52	M154A	Z	0	0	0	%100
53	M155A	X	-7.623	-7.623	0	%100
54	M155A	Z	-4.401	-4.401	0	%100
55	M156A	X	-7.623	-7.623	0	%100
56	M156A	Z	-4.401	-4.401	0	%100
57	M157A	X	-15.206	-15.206	0	%100
58	M157A	Z	-8.779	-8.779	0	%100
59	M160A	X	-2.111	-2.111	0	%100
60	M160A	Z	-1.219	-1.219	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,%]
61	M161A	X	-2.111	-2.111	0	%100
62	M161A	Z	-1.219	-1.219	0	%100
63	M165A	X	0	0	0	%100
64	M165A	Z	0	0	0	%100
65	M166A	X	-3.872	-3.872	0	%100
66	M166A	Z	-2.235	-2.235	0	%100
67	M168A	X	-4.078	-4.078	0	%100
68	M168A	Z	-2.355	-2.355	0	%100
69	M170A	X	0	0	0	%100
70	M170A	Z	0	0	0	%100
71	M171A	X	-3.872	-3.872	0	%100
72	M171A	Z	-2.235	-2.235	0	%100
73	M173A	X	-4.078	-4.078	0	%100
74	M173A	Z	-2.355	-2.355	0	%100
75	M180A	X	-2.218	-2.218	0	%100
76	M180A	Z	-1.28	-1.28	0	%100
77	MP3A	X	-6.019	-6.019	0	%100
78	MP3A	Z	-3.475	-3.475	0	%100
79	MP4A	X	-6.019	-6.019	0	%100
80	MP4A	Z	-3.475	-3.475	0	%100
81	MP2A	X	-6.019	-6.019	0	%100
82	MP2A	Z	-3.475	-3.475	0	%100
83	MP1A	X	-6.019	-6.019	0	%100
84	MP1A	Z	-3.475	-3.475	0	%100
85	M189A	X	-2.218	-2.218	0	%100
86	M189A	Z	-1.28	-1.28	0	%100
87	MP3C	X	-6.019	-6.019	0	%100
88	MP3C	Z	-3.475	-3.475	0	%100
89	MP4C	X	-6.019	-6.019	0	%100
90	MP4C	Z	-3.475	-3.475	0	%100
91	MP2C	X	-6.019	-6.019	0	%100
92	MP2C	Z	-3.475	-3.475	0	%100
93	MP1C	X	-6.019	-6.019	0	%100
94	MP1C	Z	-3.475	-3.475	0	%100
95	M198A	X	-8.87	-8.87	0	%100
96	M198A	Z	-5.121	-5.121	0	%100
97	MP3B	X	-6.019	-6.019	0	%100
98	MP3B	Z	-3.475	-3.475	0	%100
99	MP4B	X	-6.019	-6.019	0	%100
100	MP4B	Z	-3.475	-3.475	0	%100
101	MP2B	X	-6.019	-6.019	0	%100
102	MP2B	Z	-3.475	-3.475	0	%100
103	MP1B	X	-6.019	-6.019	0	%100
104	MP1B	Z	-3.475	-3.475	0	%100
105	M112	X	-1.822	-1.822	0	%100
106	M112	Z	-1.052	-1.052	0	%100
107	M117	X	-1.822	-1.822	0	%100
108	M117	Z	-1.052	-1.052	0	%100
109	M122	X	-7.286	-7.286	0	%100
110	M122	Z	-4.207	-4.207	0	%100
111	M127	X	-2.047	-2.047	0	%100
112	M127	Z	-1.182	-1.182	0	%100
113	M128	X	-2.047	-2.047	0	%100
114	M128	Z	-1.182	-1.182	0	%100
115	M129	X	-8.187	-8.187	0	%100
116	M129	Z	-4.727	-4.727	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	M4	X	-1.3	-1.3	0	%100
2	M4	Z	-2.252	-2.252	0	%100
3	M10	X	-3.301	-3.301	0	%100
4	M10	Z	-5.718	-5.718	0	%100
5	M43	X	-3.301	-3.301	0	%100
6	M43	Z	-5.718	-5.718	0	%100
7	M46	X	-6.584	-6.584	0	%100
8	M46	Z	-11.404	-11.404	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	-3.656	-3.656	0	%100
12	M52B	Z	-6.333	-6.333	0	%100
13	M76	X	-2.195	-2.195	0	%100
14	M76	Z	-3.801	-3.801	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	-2.195	-2.195	0	%100
20	M84	Z	-3.801	-3.801	0	%100
21	M85	X	-6.706	-6.706	0	%100
22	M85	Z	-11.616	-11.616	0	%100
23	M91	X	-7.064	-7.064	0	%100
24	M91	Z	-12.234	-12.234	0	%100
25	M101	X	-2.842	-2.842	0	%100
26	M101	Z	-4.922	-4.922	0	%100
27	M128A	X	-5.202	-5.202	0	%100
28	M128A	Z	-9.009	-9.009	0	%100
29	M129A	X	0	0	0	%100
30	M129A	Z	0	0	0	%100
31	M130A	X	0	0	0	%100
32	M130A	Z	0	0	0	%100
33	M131A	X	0	0	0	%100
34	M131A	Z	0	0	0	%100
35	M134A	X	-3.656	-3.656	0	%100
36	M134A	Z	-6.333	-6.333	0	%100
37	M135A	X	-3.656	-3.656	0	%100
38	M135A	Z	-6.333	-6.333	0	%100
39	M139A	X	-8.779	-8.779	0	%100
40	M139A	Z	-15.206	-15.206	0	%100
41	M140A	X	-6.706	-6.706	0	%100
42	M140A	Z	-11.616	-11.616	0	%100
43	M142A	X	-7.064	-7.064	0	%100
44	M142A	Z	-12.234	-12.234	0	%100
45	M144A	X	-8.779	-8.779	0	%100
46	M144A	Z	-15.206	-15.206	0	%100
47	M145A	X	-6.706	-6.706	0	%100
48	M145A	Z	-11.616	-11.616	0	%100
49	M147A	X	-7.064	-7.064	0	%100
50	M147A	Z	-12.234	-12.234	0	%100
51	M154A	X	-1.3	-1.3	0	%100
52	M154A	Z	-2.252	-2.252	0	%100
53	M155A	X	-3.301	-3.301	0	%100
54	M155A	Z	-5.718	-5.718	0	%100
55	M156A	X	-3.301	-3.301	0	%100
56	M156A	Z	-5.718	-5.718	0	%100
57	M157A	X	-6.584	-6.584	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,%]
58	M157A	Z	-11.404	-11.404	0	%100
59	M160A	X	-3.656	-3.656	0	%100
60	M160A	Z	-6.333	-6.333	0	%100
61	M161A	X	0	0	0	%100
62	M161A	Z	0	0	0	%100
63	M165A	X	-2.195	-2.195	0	%100
64	M165A	Z	-3.801	-3.801	0	%100
65	M166A	X	-6.706	-6.706	0	%100
66	M166A	Z	-11.616	-11.616	0	%100
67	M168A	X	-7.064	-7.064	0	%100
68	M168A	Z	-12.234	-12.234	0	%100
69	M170A	X	-2.195	-2.195	0	%100
70	M170A	Z	-3.801	-3.801	0	%100
71	M171A	X	0	0	0	%100
72	M171A	Z	0	0	0	%100
73	M173A	X	0	0	0	%100
74	M173A	Z	0	0	0	%100
75	M180A	X	-3.841	-3.841	0	%100
76	M180A	Z	-6.653	-6.653	0	%100
77	MP3A	X	-3.475	-3.475	0	%100
78	MP3A	Z	-6.019	-6.019	0	%100
79	MP4A	X	-3.475	-3.475	0	%100
80	MP4A	Z	-6.019	-6.019	0	%100
81	MP2A	X	-3.475	-3.475	0	%100
82	MP2A	Z	-6.019	-6.019	0	%100
83	MP1A	X	-3.475	-3.475	0	%100
84	MP1A	Z	-6.019	-6.019	0	%100
85	M189A	X	0	0	0	%100
86	M189A	Z	0	0	0	%100
87	MP3C	X	-3.475	-3.475	0	%100
88	MP3C	Z	-6.019	-6.019	0	%100
89	MP4C	X	-3.475	-3.475	0	%100
90	MP4C	Z	-6.019	-6.019	0	%100
91	MP2C	X	-3.475	-3.475	0	%100
92	MP2C	Z	-6.019	-6.019	0	%100
93	MP1C	X	-3.475	-3.475	0	%100
94	MP1C	Z	-6.019	-6.019	0	%100
95	M198A	X	-3.841	-3.841	0	%100
96	M198A	Z	-6.653	-6.653	0	%100
97	MP3B	X	-3.475	-3.475	0	%100
98	MP3B	Z	-6.019	-6.019	0	%100
99	MP4B	X	-3.475	-3.475	0	%100
100	MP4B	Z	-6.019	-6.019	0	%100
101	MP2B	X	-3.475	-3.475	0	%100
102	MP2B	Z	-6.019	-6.019	0	%100
103	MP1B	X	-3.475	-3.475	0	%100
104	MP1B	Z	-6.019	-6.019	0	%100
105	M112	X	-3.155	-3.155	0	%100
106	M112	Z	-5.465	-5.465	0	%100
107	M117	X	0	0	0	%100
108	M117	Z	0	0	0	%100
109	M122	X	-3.155	-3.155	0	%100
110	M122	Z	-5.465	-5.465	0	%100
111	M127	X	0	0	0	%100
112	M127	Z	0	0	0	%100
113	M128	X	-3.545	-3.545	0	%100
114	M128	Z	-6.14	-6.14	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,%]
115	M129	X	-3.545	-3.545	0	%100
116	M129	Z	-6.14	-6.14	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	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	-2.763	-2.763	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	-2.763	-2.763	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	-4.163	-4.163	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	-.784	-.784	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	-.784	-.784	0	%100
13	M76	X	0	0	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	-1.045	-1.045	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	-1.088	-1.088	0	%100
19	M84	X	0	0	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	-1.045	-1.045	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	-1.088	-1.088	0	%100
25	M101	X	0	0	0	%100
26	M101	Z	-2.28	-2.28	0	%100
27	M128A	X	0	0	0	%100
28	M128A	Z	-2.529	-2.529	0	%100
29	M129A	X	0	0	0	%100
30	M129A	Z	-.691	-.691	0	%100
31	M130A	X	0	0	0	%100
32	M130A	Z	-.691	-.691	0	%100
33	M131A	X	0	0	0	%100
34	M131A	Z	-1.041	-1.041	0	%100
35	M134A	X	0	0	0	%100
36	M134A	Z	-.784	-.784	0	%100
37	M135A	X	0	0	0	%100
38	M135A	Z	-3.137	-3.137	0	%100
39	M139A	X	0	0	0	%100
40	M139A	Z	-3.093	-3.093	0	%100
41	M140A	X	0	0	0	%100
42	M140A	Z	-1.045	-1.045	0	%100
43	M142A	X	0	0	0	%100
44	M142A	Z	-1.088	-1.088	0	%100
45	M144A	X	0	0	0	%100
46	M144A	Z	-3.093	-3.093	0	%100
47	M145A	X	0	0	0	%100
48	M145A	Z	-4.181	-4.181	0	%100
49	M147A	X	0	0	0	%100
50	M147A	Z	-4.35	-4.35	0	%100
51	M154A	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,%]
52	M154A	Z	-2.529	-2.529	0	%100
53	M155A	X	0	0	0	%100
54	M155A	Z	-.691	-.691	0	%100
55	M156A	X	0	0	0	%100
56	M156A	Z	-.691	-.691	0	%100
57	M157A	X	0	0	0	%100
58	M157A	Z	-1.041	-1.041	0	%100
59	M160A	X	0	0	0	%100
60	M160A	Z	-3.137	-3.137	0	%100
61	M161A	X	0	0	0	%100
62	M161A	Z	-.784	-.784	0	%100
63	M165A	X	0	0	0	%100
64	M165A	Z	-3.093	-3.093	0	%100
65	M166A	X	0	0	0	%100
66	M166A	Z	-4.181	-4.181	0	%100
67	M168A	X	0	0	0	%100
68	M168A	Z	-4.35	-4.35	0	%100
69	M170A	X	0	0	0	%100
70	M170A	Z	-3.093	-3.093	0	%100
71	M171A	X	0	0	0	%100
72	M171A	Z	-1.045	-1.045	0	%100
73	M173A	X	0	0	0	%100
74	M173A	Z	-1.088	-1.088	0	%100
75	M180A	X	0	0	0	%100
76	M180A	Z	-3.54	-3.54	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	-2.855	-2.855	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	-2.855	-2.855	0	%100
81	MP2A	X	0	0	0	%100
82	MP2A	Z	-2.855	-2.855	0	%100
83	MP1A	X	0	0	0	%100
84	MP1A	Z	-2.855	-2.855	0	%100
85	M189A	X	0	0	0	%100
86	M189A	Z	-.885	-.885	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	-2.855	-2.855	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	-2.855	-2.855	0	%100
91	MP2C	X	0	0	0	%100
92	MP2C	Z	-2.855	-2.855	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	-2.855	-2.855	0	%100
95	M198A	X	0	0	0	%100
96	M198A	Z	-.885	-.885	0	%100
97	MP3B	X	0	0	0	%100
98	MP3B	Z	-2.855	-2.855	0	%100
99	MP4B	X	0	0	0	%100
100	MP4B	Z	-2.855	-2.855	0	%100
101	MP2B	X	0	0	0	%100
102	MP2B	Z	-2.855	-2.855	0	%100
103	MP1B	X	0	0	0	%100
104	MP1B	Z	-2.855	-2.855	0	%100
105	M112	X	0	0	0	%100
106	M112	Z	-3.215	-3.215	0	%100
107	M117	X	0	0	0	%100
108	M117	Z	-.804	-.804	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,%]
109	M122	X	0	0	0	%100
110	M122	Z	-.804	-.804	0	%100
111	M127	X	0	0	0	%100
112	M127	Z	-.684	-.684	0	%100
113	M128	X	0	0	0	%100
114	M128	Z	-2.736	-2.736	0	%100
115	M129	X	0	0	0	%100
116	M129	Z	-.684	-.684	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	M4	X	.421	.421	0	%100
2	M4	Z	-.73	-.73	0	%100
3	M10	X	1.036	1.036	0	%100
4	M10	Z	-1.794	-1.794	0	%100
5	M43	X	1.036	1.036	0	%100
6	M43	Z	-1.794	-1.794	0	%100
7	M46	X	1.561	1.561	0	%100
8	M46	Z	-2.704	-2.704	0	%100
9	M51B	X	1.176	1.176	0	%100
10	M51B	Z	-2.038	-2.038	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	.515	.515	0	%100
14	M76	Z	-.893	-.893	0	%100
15	M77	X	1.568	1.568	0	%100
16	M77	Z	-2.716	-2.716	0	%100
17	M80	X	1.631	1.631	0	%100
18	M80	Z	-2.826	-2.826	0	%100
19	M84	X	.515	.515	0	%100
20	M84	Z	-.893	-.893	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	0	0	0	%100
25	M101	X	1.14	1.14	0	%100
26	M101	Z	-1.975	-1.975	0	%100
27	M128A	X	.421	.421	0	%100
28	M128A	Z	-.73	-.73	0	%100
29	M129A	X	1.036	1.036	0	%100
30	M129A	Z	-1.794	-1.794	0	%100
31	M130A	X	1.036	1.036	0	%100
32	M130A	Z	-1.794	-1.794	0	%100
33	M131A	X	1.561	1.561	0	%100
34	M131A	Z	-2.704	-2.704	0	%100
35	M134A	X	0	0	0	%100
36	M134A	Z	0	0	0	%100
37	M135A	X	1.176	1.176	0	%100
38	M135A	Z	-2.038	-2.038	0	%100
39	M139A	X	.515	.515	0	%100
40	M139A	Z	-.893	-.893	0	%100
41	M140A	X	0	0	0	%100
42	M140A	Z	0	0	0	%100
43	M142A	X	0	0	0	%100
44	M142A	Z	0	0	0	%100
45	M144A	X	.515	.515	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,%]
46	M144A	Z	-.893	-.893	0	%100
47	M145A	X	1.568	1.568	0	%100
48	M145A	Z	-2.716	-2.716	0	%100
49	M147A	X	1.631	1.631	0	%100
50	M147A	Z	-2.826	-2.826	0	%100
51	M154A	X	1.686	1.686	0	%100
52	M154A	Z	-2.92	-2.92	0	%100
53	M155A	X	0	0	0	%100
54	M155A	Z	0	0	0	%100
55	M156A	X	0	0	0	%100
56	M156A	Z	0	0	0	%100
57	M157A	X	0	0	0	%100
58	M157A	Z	0	0	0	%100
59	M160A	X	1.176	1.176	0	%100
60	M160A	Z	-2.038	-2.038	0	%100
61	M161A	X	1.176	1.176	0	%100
62	M161A	Z	-2.038	-2.038	0	%100
63	M165A	X	2.062	2.062	0	%100
64	M165A	Z	-3.571	-3.571	0	%100
65	M166A	X	1.568	1.568	0	%100
66	M166A	Z	-2.716	-2.716	0	%100
67	M168A	X	1.631	1.631	0	%100
68	M168A	Z	-2.826	-2.826	0	%100
69	M170A	X	2.062	2.062	0	%100
70	M170A	Z	-3.571	-3.571	0	%100
71	M171A	X	1.568	1.568	0	%100
72	M171A	Z	-2.716	-2.716	0	%100
73	M173A	X	1.631	1.631	0	%100
74	M173A	Z	-2.826	-2.826	0	%100
75	M180A	X	1.328	1.328	0	%100
76	M180A	Z	-2.3	-2.3	0	%100
77	MP3A	X	1.427	1.427	0	%100
78	MP3A	Z	-2.472	-2.472	0	%100
79	MP4A	X	1.427	1.427	0	%100
80	MP4A	Z	-2.472	-2.472	0	%100
81	MP2A	X	1.427	1.427	0	%100
82	MP2A	Z	-2.472	-2.472	0	%100
83	MP1A	X	1.427	1.427	0	%100
84	MP1A	Z	-2.472	-2.472	0	%100
85	M189A	X	1.328	1.328	0	%100
86	M189A	Z	-2.3	-2.3	0	%100
87	MP3C	X	1.427	1.427	0	%100
88	MP3C	Z	-2.472	-2.472	0	%100
89	MP4C	X	1.427	1.427	0	%100
90	MP4C	Z	-2.472	-2.472	0	%100
91	MP2C	X	1.427	1.427	0	%100
92	MP2C	Z	-2.472	-2.472	0	%100
93	MP1C	X	1.427	1.427	0	%100
94	MP1C	Z	-2.472	-2.472	0	%100
95	M198A	X	0	0	0	%100
96	M198A	Z	0	0	0	%100
97	MP3B	X	1.427	1.427	0	%100
98	MP3B	Z	-2.472	-2.472	0	%100
99	MP4B	X	1.427	1.427	0	%100
100	MP4B	Z	-2.472	-2.472	0	%100
101	MP2B	X	1.427	1.427	0	%100
102	MP2B	Z	-2.472	-2.472	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,%]
103	MP1B	X	1.427	1.427	0	%100
104	MP1B	Z	-2.472	-2.472	0	%100
105	M112	X	1.206	1.206	0	%100
106	M112	Z	-2.089	-2.089	0	%100
107	M117	X	1.206	1.206	0	%100
108	M117	Z	-2.089	-2.089	0	%100
109	M122	X	0	0	0	%100
110	M122	Z	0	0	0	%100
111	M127	X	1.026	1.026	0	%100
112	M127	Z	-1.777	-1.777	0	%100
113	M128	X	1.026	1.026	0	%100
114	M128	Z	-1.777	-1.777	0	%100
115	M129	X	0	0	0	%100
116	M129	Z	0	0	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	M4	X	2.19	2.19	0	%100
2	M4	Z	-1.264	-1.264	0	%100
3	M10	X	.598	.598	0	%100
4	M10	Z	-.345	-.345	0	%100
5	M43	X	.598	.598	0	%100
6	M43	Z	-.345	-.345	0	%100
7	M46	X	.901	.901	0	%100
8	M46	Z	-.52	-.52	0	%100
9	M51B	X	2.717	2.717	0	%100
10	M51B	Z	-1.569	-1.569	0	%100
11	M52B	X	.679	.679	0	%100
12	M52B	Z	-.392	-.392	0	%100
13	M76	X	2.678	2.678	0	%100
14	M76	Z	-1.546	-1.546	0	%100
15	M77	X	3.621	3.621	0	%100
16	M77	Z	-2.091	-2.091	0	%100
17	M80	X	3.768	3.768	0	%100
18	M80	Z	-2.175	-2.175	0	%100
19	M84	X	2.678	2.678	0	%100
20	M84	Z	-1.546	-1.546	0	%100
21	M85	X	.905	.905	0	%100
22	M85	Z	-.523	-.523	0	%100
23	M91	X	.942	.942	0	%100
24	M91	Z	-.544	-.544	0	%100
25	M101	X	1.975	1.975	0	%100
26	M101	Z	-1.14	-1.14	0	%100
27	M128A	X	0	0	0	%100
28	M128A	Z	0	0	0	%100
29	M129A	X	2.392	2.392	0	%100
30	M129A	Z	-1.381	-1.381	0	%100
31	M130A	X	2.392	2.392	0	%100
32	M130A	Z	-1.381	-1.381	0	%100
33	M131A	X	3.605	3.605	0	%100
34	M131A	Z	-2.081	-2.081	0	%100
35	M134A	X	.679	.679	0	%100
36	M134A	Z	-.392	-.392	0	%100
37	M135A	X	.679	.679	0	%100
38	M135A	Z	-.392	-.392	0	%100
39	M139A	X	0	0	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,%]
40	M139A	Z	0	0	0	%100
41	M140A	X	.905	.905	0	%100
42	M140A	Z	-.523	-.523	0	%100
43	M142A	X	.942	.942	0	%100
44	M142A	Z	-.544	-.544	0	%100
45	M144A	X	0	0	0	%100
46	M144A	Z	0	0	0	%100
47	M145A	X	.905	.905	0	%100
48	M145A	Z	-.523	-.523	0	%100
49	M147A	X	.942	.942	0	%100
50	M147A	Z	-.544	-.544	0	%100
51	M154A	X	2.19	2.19	0	%100
52	M154A	Z	-1.264	-1.264	0	%100
53	M155A	X	.598	.598	0	%100
54	M155A	Z	-.345	-.345	0	%100
55	M156A	X	.598	.598	0	%100
56	M156A	Z	-.345	-.345	0	%100
57	M157A	X	.901	.901	0	%100
58	M157A	Z	-.52	-.52	0	%100
59	M160A	X	.679	.679	0	%100
60	M160A	Z	-.392	-.392	0	%100
61	M161A	X	2.717	2.717	0	%100
62	M161A	Z	-1.569	-1.569	0	%100
63	M165A	X	2.678	2.678	0	%100
64	M165A	Z	-1.546	-1.546	0	%100
65	M166A	X	.905	.905	0	%100
66	M166A	Z	-.523	-.523	0	%100
67	M168A	X	.942	.942	0	%100
68	M168A	Z	-.544	-.544	0	%100
69	M170A	X	2.678	2.678	0	%100
70	M170A	Z	-1.546	-1.546	0	%100
71	M171A	X	3.621	3.621	0	%100
72	M171A	Z	-2.091	-2.091	0	%100
73	M173A	X	3.768	3.768	0	%100
74	M173A	Z	-2.175	-2.175	0	%100
75	M180A	X	.767	.767	0	%100
76	M180A	Z	-.443	-.443	0	%100
77	MP3A	X	2.472	2.472	0	%100
78	MP3A	Z	-1.427	-1.427	0	%100
79	MP4A	X	2.472	2.472	0	%100
80	MP4A	Z	-1.427	-1.427	0	%100
81	MP2A	X	2.472	2.472	0	%100
82	MP2A	Z	-1.427	-1.427	0	%100
83	MP1A	X	2.472	2.472	0	%100
84	MP1A	Z	-1.427	-1.427	0	%100
85	M189A	X	3.066	3.066	0	%100
86	M189A	Z	-1.77	-1.77	0	%100
87	MP3C	X	2.472	2.472	0	%100
88	MP3C	Z	-1.427	-1.427	0	%100
89	MP4C	X	2.472	2.472	0	%100
90	MP4C	Z	-1.427	-1.427	0	%100
91	MP2C	X	2.472	2.472	0	%100
92	MP2C	Z	-1.427	-1.427	0	%100
93	MP1C	X	2.472	2.472	0	%100
94	MP1C	Z	-1.427	-1.427	0	%100
95	M198A	X	.767	.767	0	%100
96	M198A	Z	-.443	-.443	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,%]
97	MP3B	X	2.472	2.472	0	%100
98	MP3B	Z	-1.427	-1.427	0	%100
99	MP4B	X	2.472	2.472	0	%100
100	MP4B	Z	-1.427	-1.427	0	%100
101	MP2B	X	2.472	2.472	0	%100
102	MP2B	Z	-1.427	-1.427	0	%100
103	MP1B	X	2.472	2.472	0	%100
104	MP1B	Z	-1.427	-1.427	0	%100
105	M112	X	.696	.696	0	%100
106	M112	Z	-.402	-.402	0	%100
107	M117	X	2.785	2.785	0	%100
108	M117	Z	-1.608	-1.608	0	%100
109	M122	X	.696	.696	0	%100
110	M122	Z	-.402	-.402	0	%100
111	M127	X	2.369	2.369	0	%100
112	M127	Z	-1.368	-1.368	0	%100
113	M128	X	.592	.592	0	%100
114	M128	Z	-.342	-.342	0	%100
115	M129	X	.592	.592	0	%100
116	M129	Z	-.342	-.342	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	M4	X	3.372	3.372	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	0	0	0	%100
9	M51B	X	2.353	2.353	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	2.353	2.353	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	4.123	4.123	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	3.136	3.136	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	3.263	3.263	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	4.123	4.123	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	3.136	3.136	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	3.263	3.263	0	%100
24	M91	Z	0	0	0	%100
25	M101	X	2.28	2.28	0	%100
26	M101	Z	0	0	0	%100
27	M128A	X	.843	.843	0	%100
28	M128A	Z	0	0	0	%100
29	M129A	X	2.072	2.072	0	%100
30	M129A	Z	0	0	0	%100
31	M130A	X	2.072	2.072	0	%100
32	M130A	Z	0	0	0	%100
33	M131A	X	3.122	3.122	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,%]
34	M131A	Z	0	0	0	%100
35	M134A	X	2.353	2.353	0	%100
36	M134A	Z	0	0	0	%100
37	M135A	X	0	0	0	%100
38	M135A	Z	0	0	0	%100
39	M139A	X	1.031	1.031	0	%100
40	M139A	Z	0	0	0	%100
41	M140A	X	3.136	3.136	0	%100
42	M140A	Z	0	0	0	%100
43	M142A	X	3.263	3.263	0	%100
44	M142A	Z	0	0	0	%100
45	M144A	X	1.031	1.031	0	%100
46	M144A	Z	0	0	0	%100
47	M145A	X	0	0	0	%100
48	M145A	Z	0	0	0	%100
49	M147A	X	0	0	0	%100
50	M147A	Z	0	0	0	%100
51	M154A	X	.843	.843	0	%100
52	M154A	Z	0	0	0	%100
53	M155A	X	2.072	2.072	0	%100
54	M155A	Z	0	0	0	%100
55	M156A	X	2.072	2.072	0	%100
56	M156A	Z	0	0	0	%100
57	M157A	X	3.122	3.122	0	%100
58	M157A	Z	0	0	0	%100
59	M160A	X	0	0	0	%100
60	M160A	Z	0	0	0	%100
61	M161A	X	2.353	2.353	0	%100
62	M161A	Z	0	0	0	%100
63	M165A	X	1.031	1.031	0	%100
64	M165A	Z	0	0	0	%100
65	M166A	X	0	0	0	%100
66	M166A	Z	0	0	0	%100
67	M168A	X	0	0	0	%100
68	M168A	Z	0	0	0	%100
69	M170A	X	1.031	1.031	0	%100
70	M170A	Z	0	0	0	%100
71	M171A	X	3.136	3.136	0	%100
72	M171A	Z	0	0	0	%100
73	M173A	X	3.263	3.263	0	%100
74	M173A	Z	0	0	0	%100
75	M180A	X	0	0	0	%100
76	M180A	Z	0	0	0	%100
77	MP3A	X	2.855	2.855	0	%100
78	MP3A	Z	0	0	0	%100
79	MP4A	X	2.855	2.855	0	%100
80	MP4A	Z	0	0	0	%100
81	MP2A	X	2.855	2.855	0	%100
82	MP2A	Z	0	0	0	%100
83	MP1A	X	2.855	2.855	0	%100
84	MP1A	Z	0	0	0	%100
85	M189A	X	2.655	2.655	0	%100
86	M189A	Z	0	0	0	%100
87	MP3C	X	2.855	2.855	0	%100
88	MP3C	Z	0	0	0	%100
89	MP4C	X	2.855	2.855	0	%100
90	MP4C	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
91	MP2C	X	2.855	2.855	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	2.855	2.855	0	%100
94	MP1C	Z	0	0	0	%100
95	M198A	X	2.655	2.655	0	%100
96	M198A	Z	0	0	0	%100
97	MP3B	X	2.855	2.855	0	%100
98	MP3B	Z	0	0	0	%100
99	MP4B	X	2.855	2.855	0	%100
100	MP4B	Z	0	0	0	%100
101	MP2B	X	2.855	2.855	0	%100
102	MP2B	Z	0	0	0	%100
103	MP1B	X	2.855	2.855	0	%100
104	MP1B	Z	0	0	0	%100
105	M112	X	0	0	0	%100
106	M112	Z	0	0	0	%100
107	M117	X	2.412	2.412	0	%100
108	M117	Z	0	0	0	%100
109	M122	X	2.412	2.412	0	%100
110	M122	Z	0	0	0	%100
111	M127	X	2.052	2.052	0	%100
112	M127	Z	0	0	0	%100
113	M128	X	0	0	0	%100
114	M128	Z	0	0	0	%100
115	M129	X	2.052	2.052	0	%100
116	M129	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	M4	X	2.19	2.19	0	%100
2	M4	Z	1.264	1.264	0	%100
3	M10	X	.598	.598	0	%100
4	M10	Z	.345	.345	0	%100
5	M43	X	.598	.598	0	%100
6	M43	Z	.345	.345	0	%100
7	M46	X	.901	.901	0	%100
8	M46	Z	.52	.52	0	%100
9	M51B	X	.679	.679	0	%100
10	M51B	Z	.392	.392	0	%100
11	M52B	X	2.717	2.717	0	%100
12	M52B	Z	1.569	1.569	0	%100
13	M76	X	2.678	2.678	0	%100
14	M76	Z	1.546	1.546	0	%100
15	M77	X	.905	.905	0	%100
16	M77	Z	.523	.523	0	%100
17	M80	X	.942	.942	0	%100
18	M80	Z	.544	.544	0	%100
19	M84	X	2.678	2.678	0	%100
20	M84	Z	1.546	1.546	0	%100
21	M85	X	3.621	3.621	0	%100
22	M85	Z	2.091	2.091	0	%100
23	M91	X	3.768	3.768	0	%100
24	M91	Z	2.175	2.175	0	%100
25	M101	X	1.975	1.975	0	%100
26	M101	Z	1.14	1.14	0	%100
27	M128A	X	2.19	2.19	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,%]
28	M128A	Z	1.264	1.264	0	%100
29	M129A	X	.598	.598	0	%100
30	M129A	Z	.345	.345	0	%100
31	M130A	X	.598	.598	0	%100
32	M130A	Z	.345	.345	0	%100
33	M131A	X	.901	.901	0	%100
34	M131A	Z	.52	.52	0	%100
35	M134A	X	2.717	2.717	0	%100
36	M134A	Z	1.569	1.569	0	%100
37	M135A	X	.679	.679	0	%100
38	M135A	Z	.392	.392	0	%100
39	M139A	X	2.678	2.678	0	%100
40	M139A	Z	1.546	1.546	0	%100
41	M140A	X	3.621	3.621	0	%100
42	M140A	Z	2.091	2.091	0	%100
43	M142A	X	3.768	3.768	0	%100
44	M142A	Z	2.175	2.175	0	%100
45	M144A	X	2.678	2.678	0	%100
46	M144A	Z	1.546	1.546	0	%100
47	M145A	X	.905	.905	0	%100
48	M145A	Z	.523	.523	0	%100
49	M147A	X	.942	.942	0	%100
50	M147A	Z	.544	.544	0	%100
51	M154A	X	0	0	0	%100
52	M154A	Z	0	0	0	%100
53	M155A	X	2.392	2.392	0	%100
54	M155A	Z	1.381	1.381	0	%100
55	M156A	X	2.392	2.392	0	%100
56	M156A	Z	1.381	1.381	0	%100
57	M157A	X	3.605	3.605	0	%100
58	M157A	Z	2.081	2.081	0	%100
59	M160A	X	.679	.679	0	%100
60	M160A	Z	.392	.392	0	%100
61	M161A	X	.679	.679	0	%100
62	M161A	Z	.392	.392	0	%100
63	M165A	X	0	0	0	%100
64	M165A	Z	0	0	0	%100
65	M166A	X	.905	.905	0	%100
66	M166A	Z	.523	.523	0	%100
67	M168A	X	.942	.942	0	%100
68	M168A	Z	.544	.544	0	%100
69	M170A	X	0	0	0	%100
70	M170A	Z	0	0	0	%100
71	M171A	X	.905	.905	0	%100
72	M171A	Z	.523	.523	0	%100
73	M173A	X	.942	.942	0	%100
74	M173A	Z	.544	.544	0	%100
75	M180A	X	.767	.767	0	%100
76	M180A	Z	.443	.443	0	%100
77	MP3A	X	2.472	2.472	0	%100
78	MP3A	Z	1.427	1.427	0	%100
79	MP4A	X	2.472	2.472	0	%100
80	MP4A	Z	1.427	1.427	0	%100
81	MP2A	X	2.472	2.472	0	%100
82	MP2A	Z	1.427	1.427	0	%100
83	MP1A	X	2.472	2.472	0	%100
84	MP1A	Z	1.427	1.427	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,%]
85	M189A	X	.767	.767	0	%100
86	M189A	Z	.443	.443	0	%100
87	MP3C	X	2.472	2.472	0	%100
88	MP3C	Z	1.427	1.427	0	%100
89	MP4C	X	2.472	2.472	0	%100
90	MP4C	Z	1.427	1.427	0	%100
91	MP2C	X	2.472	2.472	0	%100
92	MP2C	Z	1.427	1.427	0	%100
93	MP1C	X	2.472	2.472	0	%100
94	MP1C	Z	1.427	1.427	0	%100
95	M198A	X	3.066	3.066	0	%100
96	M198A	Z	1.77	1.77	0	%100
97	MP3B	X	2.472	2.472	0	%100
98	MP3B	Z	1.427	1.427	0	%100
99	MP4B	X	2.472	2.472	0	%100
100	MP4B	Z	1.427	1.427	0	%100
101	MP2B	X	2.472	2.472	0	%100
102	MP2B	Z	1.427	1.427	0	%100
103	MP1B	X	2.472	2.472	0	%100
104	MP1B	Z	1.427	1.427	0	%100
105	M112	X	.696	.696	0	%100
106	M112	Z	.402	.402	0	%100
107	M117	X	.696	.696	0	%100
108	M117	Z	.402	.402	0	%100
109	M122	X	2.785	2.785	0	%100
110	M122	Z	1.608	1.608	0	%100
111	M127	X	.592	.592	0	%100
112	M127	Z	.342	.342	0	%100
113	M128	X	.592	.592	0	%100
114	M128	Z	.342	.342	0	%100
115	M129	X	2.369	2.369	0	%100
116	M129	Z	1.368	1.368	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	M4	X	.421	.421	0	%100
2	M4	Z	.73	.73	0	%100
3	M10	X	1.036	1.036	0	%100
4	M10	Z	1.794	1.794	0	%100
5	M43	X	1.036	1.036	0	%100
6	M43	Z	1.794	1.794	0	%100
7	M46	X	1.561	1.561	0	%100
8	M46	Z	2.704	2.704	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	1.176	1.176	0	%100
12	M52B	Z	2.038	2.038	0	%100
13	M76	X	.515	.515	0	%100
14	M76	Z	.893	.893	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	.515	.515	0	%100
20	M84	Z	.893	.893	0	%100
21	M85	X	1.568	1.568	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,%]
22	M85	Z	2.716	2.716	0	%100
23	M91	X	1.631	1.631	0	%100
24	M91	Z	2.826	2.826	0	%100
25	M101	X	1.14	1.14	0	%100
26	M101	Z	1.975	1.975	0	%100
27	M128A	X	1.686	1.686	0	%100
28	M128A	Z	2.92	2.92	0	%100
29	M129A	X	0	0	0	%100
30	M129A	Z	0	0	0	%100
31	M130A	X	0	0	0	%100
32	M130A	Z	0	0	0	%100
33	M131A	X	0	0	0	%100
34	M131A	Z	0	0	0	%100
35	M134A	X	1.176	1.176	0	%100
36	M134A	Z	2.038	2.038	0	%100
37	M135A	X	1.176	1.176	0	%100
38	M135A	Z	2.038	2.038	0	%100
39	M139A	X	2.062	2.062	0	%100
40	M139A	Z	3.571	3.571	0	%100
41	M140A	X	1.568	1.568	0	%100
42	M140A	Z	2.716	2.716	0	%100
43	M142A	X	1.631	1.631	0	%100
44	M142A	Z	2.826	2.826	0	%100
45	M144A	X	2.062	2.062	0	%100
46	M144A	Z	3.571	3.571	0	%100
47	M145A	X	1.568	1.568	0	%100
48	M145A	Z	2.716	2.716	0	%100
49	M147A	X	1.631	1.631	0	%100
50	M147A	Z	2.826	2.826	0	%100
51	M154A	X	.421	.421	0	%100
52	M154A	Z	.73	.73	0	%100
53	M155A	X	1.036	1.036	0	%100
54	M155A	Z	1.794	1.794	0	%100
55	M156A	X	1.036	1.036	0	%100
56	M156A	Z	1.794	1.794	0	%100
57	M157A	X	1.561	1.561	0	%100
58	M157A	Z	2.704	2.704	0	%100
59	M160A	X	1.176	1.176	0	%100
60	M160A	Z	2.038	2.038	0	%100
61	M161A	X	0	0	0	%100
62	M161A	Z	0	0	0	%100
63	M165A	X	.515	.515	0	%100
64	M165A	Z	.893	.893	0	%100
65	M166A	X	1.568	1.568	0	%100
66	M166A	Z	2.716	2.716	0	%100
67	M168A	X	1.631	1.631	0	%100
68	M168A	Z	2.826	2.826	0	%100
69	M170A	X	.515	.515	0	%100
70	M170A	Z	.893	.893	0	%100
71	M171A	X	0	0	0	%100
72	M171A	Z	0	0	0	%100
73	M173A	X	0	0	0	%100
74	M173A	Z	0	0	0	%100
75	M180A	X	1.328	1.328	0	%100
76	M180A	Z	2.3	2.3	0	%100
77	MP3A	X	1.427	1.427	0	%100
78	MP3A	Z	2.472	2.472	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,%]
79	MP4A	X	1.427	1.427	0	%100
80	MP4A	Z	2.472	2.472	0	%100
81	MP2A	X	1.427	1.427	0	%100
82	MP2A	Z	2.472	2.472	0	%100
83	MP1A	X	1.427	1.427	0	%100
84	MP1A	Z	2.472	2.472	0	%100
85	M189A	X	0	0	0	%100
86	M189A	Z	0	0	0	%100
87	MP3C	X	1.427	1.427	0	%100
88	MP3C	Z	2.472	2.472	0	%100
89	MP4C	X	1.427	1.427	0	%100
90	MP4C	Z	2.472	2.472	0	%100
91	MP2C	X	1.427	1.427	0	%100
92	MP2C	Z	2.472	2.472	0	%100
93	MP1C	X	1.427	1.427	0	%100
94	MP1C	Z	2.472	2.472	0	%100
95	M198A	X	1.328	1.328	0	%100
96	M198A	Z	2.3	2.3	0	%100
97	MP3B	X	1.427	1.427	0	%100
98	MP3B	Z	2.472	2.472	0	%100
99	MP4B	X	1.427	1.427	0	%100
100	MP4B	Z	2.472	2.472	0	%100
101	MP2B	X	1.427	1.427	0	%100
102	MP2B	Z	2.472	2.472	0	%100
103	MP1B	X	1.427	1.427	0	%100
104	MP1B	Z	2.472	2.472	0	%100
105	M112	X	1.206	1.206	0	%100
106	M112	Z	2.089	2.089	0	%100
107	M117	X	0	0	0	%100
108	M117	Z	0	0	0	%100
109	M122	X	1.206	1.206	0	%100
110	M122	Z	2.089	2.089	0	%100
111	M127	X	0	0	0	%100
112	M127	Z	0	0	0	%100
113	M128	X	1.026	1.026	0	%100
114	M128	Z	1.777	1.777	0	%100
115	M129	X	1.026	1.026	0	%100
116	M129	Z	1.777	1.777	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	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	2.763	2.763	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	2.763	2.763	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	4.163	4.163	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	.784	.784	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	.784	.784	0	%100
13	M76	X	0	0	0	%100
14	M76	Z	0	0	0	%100
15	M77	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,%]
16	M77	Z	1.045	1.045	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	1.088	1.088	0	%100
19	M84	X	0	0	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	1.045	1.045	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	1.088	1.088	0	%100
25	M101	X	0	0	0	%100
26	M101	Z	2.28	2.28	0	%100
27	M128A	X	0	0	0	%100
28	M128A	Z	2.529	2.529	0	%100
29	M129A	X	0	0	0	%100
30	M129A	Z	.691	.691	0	%100
31	M130A	X	0	0	0	%100
32	M130A	Z	.691	.691	0	%100
33	M131A	X	0	0	0	%100
34	M131A	Z	1.041	1.041	0	%100
35	M134A	X	0	0	0	%100
36	M134A	Z	.784	.784	0	%100
37	M135A	X	0	0	0	%100
38	M135A	Z	3.137	3.137	0	%100
39	M139A	X	0	0	0	%100
40	M139A	Z	3.093	3.093	0	%100
41	M140A	X	0	0	0	%100
42	M140A	Z	1.045	1.045	0	%100
43	M142A	X	0	0	0	%100
44	M142A	Z	1.088	1.088	0	%100
45	M144A	X	0	0	0	%100
46	M144A	Z	3.093	3.093	0	%100
47	M145A	X	0	0	0	%100
48	M145A	Z	4.181	4.181	0	%100
49	M147A	X	0	0	0	%100
50	M147A	Z	4.35	4.35	0	%100
51	M154A	X	0	0	0	%100
52	M154A	Z	2.529	2.529	0	%100
53	M155A	X	0	0	0	%100
54	M155A	Z	.691	.691	0	%100
55	M156A	X	0	0	0	%100
56	M156A	Z	.691	.691	0	%100
57	M157A	X	0	0	0	%100
58	M157A	Z	1.041	1.041	0	%100
59	M160A	X	0	0	0	%100
60	M160A	Z	3.137	3.137	0	%100
61	M161A	X	0	0	0	%100
62	M161A	Z	.784	.784	0	%100
63	M165A	X	0	0	0	%100
64	M165A	Z	3.093	3.093	0	%100
65	M166A	X	0	0	0	%100
66	M166A	Z	4.181	4.181	0	%100
67	M168A	X	0	0	0	%100
68	M168A	Z	4.35	4.35	0	%100
69	M170A	X	0	0	0	%100
70	M170A	Z	3.093	3.093	0	%100
71	M171A	X	0	0	0	%100
72	M171A	Z	1.045	1.045	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,%]
73	M173A	X	0	0	0	%100
74	M173A	Z	1.088	1.088	0	%100
75	M180A	X	0	0	0	%100
76	M180A	Z	3.54	3.54	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	2.855	2.855	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	2.855	2.855	0	%100
81	MP2A	X	0	0	0	%100
82	MP2A	Z	2.855	2.855	0	%100
83	MP1A	X	0	0	0	%100
84	MP1A	Z	2.855	2.855	0	%100
85	M189A	X	0	0	0	%100
86	M189A	Z	.885	.885	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	2.855	2.855	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	2.855	2.855	0	%100
91	MP2C	X	0	0	0	%100
92	MP2C	Z	2.855	2.855	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	2.855	2.855	0	%100
95	M198A	X	0	0	0	%100
96	M198A	Z	.885	.885	0	%100
97	MP3B	X	0	0	0	%100
98	MP3B	Z	2.855	2.855	0	%100
99	MP4B	X	0	0	0	%100
100	MP4B	Z	2.855	2.855	0	%100
101	MP2B	X	0	0	0	%100
102	MP2B	Z	2.855	2.855	0	%100
103	MP1B	X	0	0	0	%100
104	MP1B	Z	2.855	2.855	0	%100
105	M112	X	0	0	0	%100
106	M112	Z	3.215	3.215	0	%100
107	M117	X	0	0	0	%100
108	M117	Z	.804	.804	0	%100
109	M122	X	0	0	0	%100
110	M122	Z	.804	.804	0	%100
111	M127	X	0	0	0	%100
112	M127	Z	.684	.684	0	%100
113	M128	X	0	0	0	%100
114	M128	Z	2.736	2.736	0	%100
115	M129	X	0	0	0	%100
116	M129	Z	.684	.684	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	M4	X	-.421	-.421	0	%100
2	M4	Z	.73	.73	0	%100
3	M10	X	-1.036	-1.036	0	%100
4	M10	Z	1.794	1.794	0	%100
5	M43	X	-1.036	-1.036	0	%100
6	M43	Z	1.794	1.794	0	%100
7	M46	X	-1.561	-1.561	0	%100
8	M46	Z	2.704	2.704	0	%100
9	M51B	X	-1.176	-1.176	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,%]
10	M51B	Z	2.038	2.038	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	-.515	-.515	0	%100
14	M76	Z	.893	.893	0	%100
15	M77	X	-1.568	-1.568	0	%100
16	M77	Z	2.716	2.716	0	%100
17	M80	X	-1.631	-1.631	0	%100
18	M80	Z	2.826	2.826	0	%100
19	M84	X	-.515	-.515	0	%100
20	M84	Z	.893	.893	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	0	0	0	%100
25	M101	X	-1.14	-1.14	0	%100
26	M101	Z	1.975	1.975	0	%100
27	M128A	X	-.421	-.421	0	%100
28	M128A	Z	.73	.73	0	%100
29	M129A	X	-1.036	-1.036	0	%100
30	M129A	Z	1.794	1.794	0	%100
31	M130A	X	-1.036	-1.036	0	%100
32	M130A	Z	1.794	1.794	0	%100
33	M131A	X	-1.561	-1.561	0	%100
34	M131A	Z	2.704	2.704	0	%100
35	M134A	X	0	0	0	%100
36	M134A	Z	0	0	0	%100
37	M135A	X	-1.176	-1.176	0	%100
38	M135A	Z	2.038	2.038	0	%100
39	M139A	X	-.515	-.515	0	%100
40	M139A	Z	.893	.893	0	%100
41	M140A	X	0	0	0	%100
42	M140A	Z	0	0	0	%100
43	M142A	X	0	0	0	%100
44	M142A	Z	0	0	0	%100
45	M144A	X	-.515	-.515	0	%100
46	M144A	Z	.893	.893	0	%100
47	M145A	X	-1.568	-1.568	0	%100
48	M145A	Z	2.716	2.716	0	%100
49	M147A	X	-1.631	-1.631	0	%100
50	M147A	Z	2.826	2.826	0	%100
51	M154A	X	-1.686	-1.686	0	%100
52	M154A	Z	2.92	2.92	0	%100
53	M155A	X	0	0	0	%100
54	M155A	Z	0	0	0	%100
55	M156A	X	0	0	0	%100
56	M156A	Z	0	0	0	%100
57	M157A	X	0	0	0	%100
58	M157A	Z	0	0	0	%100
59	M160A	X	-1.176	-1.176	0	%100
60	M160A	Z	2.038	2.038	0	%100
61	M161A	X	-1.176	-1.176	0	%100
62	M161A	Z	2.038	2.038	0	%100
63	M165A	X	-2.062	-2.062	0	%100
64	M165A	Z	3.571	3.571	0	%100
65	M166A	X	-1.568	-1.568	0	%100
66	M166A	Z	2.716	2.716	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,%]
67	M168A	X	-1.631	-1.631	0	%100
68	M168A	Z	2.826	2.826	0	%100
69	M170A	X	-2.062	-2.062	0	%100
70	M170A	Z	3.571	3.571	0	%100
71	M171A	X	-1.568	-1.568	0	%100
72	M171A	Z	2.716	2.716	0	%100
73	M173A	X	-1.631	-1.631	0	%100
74	M173A	Z	2.826	2.826	0	%100
75	M180A	X	-1.328	-1.328	0	%100
76	M180A	Z	2.3	2.3	0	%100
77	MP3A	X	-1.427	-1.427	0	%100
78	MP3A	Z	2.472	2.472	0	%100
79	MP4A	X	-1.427	-1.427	0	%100
80	MP4A	Z	2.472	2.472	0	%100
81	MP2A	X	-1.427	-1.427	0	%100
82	MP2A	Z	2.472	2.472	0	%100
83	MP1A	X	-1.427	-1.427	0	%100
84	MP1A	Z	2.472	2.472	0	%100
85	M189A	X	-1.328	-1.328	0	%100
86	M189A	Z	2.3	2.3	0	%100
87	MP3C	X	-1.427	-1.427	0	%100
88	MP3C	Z	2.472	2.472	0	%100
89	MP4C	X	-1.427	-1.427	0	%100
90	MP4C	Z	2.472	2.472	0	%100
91	MP2C	X	-1.427	-1.427	0	%100
92	MP2C	Z	2.472	2.472	0	%100
93	MP1C	X	-1.427	-1.427	0	%100
94	MP1C	Z	2.472	2.472	0	%100
95	M198A	X	0	0	0	%100
96	M198A	Z	0	0	0	%100
97	MP3B	X	-1.427	-1.427	0	%100
98	MP3B	Z	2.472	2.472	0	%100
99	MP4B	X	-1.427	-1.427	0	%100
100	MP4B	Z	2.472	2.472	0	%100
101	MP2B	X	-1.427	-1.427	0	%100
102	MP2B	Z	2.472	2.472	0	%100
103	MP1B	X	-1.427	-1.427	0	%100
104	MP1B	Z	2.472	2.472	0	%100
105	M112	X	-1.206	-1.206	0	%100
106	M112	Z	2.089	2.089	0	%100
107	M117	X	-1.206	-1.206	0	%100
108	M117	Z	2.089	2.089	0	%100
109	M122	X	0	0	0	%100
110	M122	Z	0	0	0	%100
111	M127	X	-1.026	-1.026	0	%100
112	M127	Z	1.777	1.777	0	%100
113	M128	X	-1.026	-1.026	0	%100
114	M128	Z	1.777	1.777	0	%100
115	M129	X	0	0	0	%100
116	M129	Z	0	0	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	M4	X	-2.19	-2.19	0	%100
2	M4	Z	1.264	1.264	0	%100
3	M10	X	-.598	-.598	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,%]
4	M10	Z	.345	.345	0	%100
5	M43	X	-.598	-.598	0	%100
6	M43	Z	.345	.345	0	%100
7	M46	X	-.901	-.901	0	%100
8	M46	Z	.52	.52	0	%100
9	M51B	X	-2.717	-2.717	0	%100
10	M51B	Z	1.569	1.569	0	%100
11	M52B	X	-.679	-.679	0	%100
12	M52B	Z	.392	.392	0	%100
13	M76	X	-2.678	-2.678	0	%100
14	M76	Z	1.546	1.546	0	%100
15	M77	X	-3.621	-3.621	0	%100
16	M77	Z	2.091	2.091	0	%100
17	M80	X	-3.768	-3.768	0	%100
18	M80	Z	2.175	2.175	0	%100
19	M84	X	-2.678	-2.678	0	%100
20	M84	Z	1.546	1.546	0	%100
21	M85	X	-.905	-.905	0	%100
22	M85	Z	.523	.523	0	%100
23	M91	X	-.942	-.942	0	%100
24	M91	Z	.544	.544	0	%100
25	M101	X	-1.975	-1.975	0	%100
26	M101	Z	1.14	1.14	0	%100
27	M128A	X	0	0	0	%100
28	M128A	Z	0	0	0	%100
29	M129A	X	-2.392	-2.392	0	%100
30	M129A	Z	1.381	1.381	0	%100
31	M130A	X	-2.392	-2.392	0	%100
32	M130A	Z	1.381	1.381	0	%100
33	M131A	X	-3.605	-3.605	0	%100
34	M131A	Z	2.081	2.081	0	%100
35	M134A	X	-.679	-.679	0	%100
36	M134A	Z	.392	.392	0	%100
37	M135A	X	-.679	-.679	0	%100
38	M135A	Z	.392	.392	0	%100
39	M139A	X	0	0	0	%100
40	M139A	Z	0	0	0	%100
41	M140A	X	-.905	-.905	0	%100
42	M140A	Z	.523	.523	0	%100
43	M142A	X	-.942	-.942	0	%100
44	M142A	Z	.544	.544	0	%100
45	M144A	X	0	0	0	%100
46	M144A	Z	0	0	0	%100
47	M145A	X	-.905	-.905	0	%100
48	M145A	Z	.523	.523	0	%100
49	M147A	X	-.942	-.942	0	%100
50	M147A	Z	.544	.544	0	%100
51	M154A	X	-2.19	-2.19	0	%100
52	M154A	Z	1.264	1.264	0	%100
53	M155A	X	-.598	-.598	0	%100
54	M155A	Z	.345	.345	0	%100
55	M156A	X	-.598	-.598	0	%100
56	M156A	Z	.345	.345	0	%100
57	M157A	X	-.901	-.901	0	%100
58	M157A	Z	.52	.52	0	%100
59	M160A	X	-.679	-.679	0	%100
60	M160A	Z	.392	.392	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,%]
61	M161A	X	-2.717	-2.717	0	%100
62	M161A	Z	1.569	1.569	0	%100
63	M165A	X	-2.678	-2.678	0	%100
64	M165A	Z	1.546	1.546	0	%100
65	M166A	X	-.905	-.905	0	%100
66	M166A	Z	.523	.523	0	%100
67	M168A	X	-.942	-.942	0	%100
68	M168A	Z	.544	.544	0	%100
69	M170A	X	-2.678	-2.678	0	%100
70	M170A	Z	1.546	1.546	0	%100
71	M171A	X	-3.621	-3.621	0	%100
72	M171A	Z	2.091	2.091	0	%100
73	M173A	X	-3.768	-3.768	0	%100
74	M173A	Z	2.175	2.175	0	%100
75	M180A	X	-.767	-.767	0	%100
76	M180A	Z	.443	.443	0	%100
77	MP3A	X	-2.472	-2.472	0	%100
78	MP3A	Z	1.427	1.427	0	%100
79	MP4A	X	-2.472	-2.472	0	%100
80	MP4A	Z	1.427	1.427	0	%100
81	MP2A	X	-2.472	-2.472	0	%100
82	MP2A	Z	1.427	1.427	0	%100
83	MP1A	X	-2.472	-2.472	0	%100
84	MP1A	Z	1.427	1.427	0	%100
85	M189A	X	-3.066	-3.066	0	%100
86	M189A	Z	1.77	1.77	0	%100
87	MP3C	X	-2.472	-2.472	0	%100
88	MP3C	Z	1.427	1.427	0	%100
89	MP4C	X	-2.472	-2.472	0	%100
90	MP4C	Z	1.427	1.427	0	%100
91	MP2C	X	-2.472	-2.472	0	%100
92	MP2C	Z	1.427	1.427	0	%100
93	MP1C	X	-2.472	-2.472	0	%100
94	MP1C	Z	1.427	1.427	0	%100
95	M198A	X	-.767	-.767	0	%100
96	M198A	Z	.443	.443	0	%100
97	MP3B	X	-2.472	-2.472	0	%100
98	MP3B	Z	1.427	1.427	0	%100
99	MP4B	X	-2.472	-2.472	0	%100
100	MP4B	Z	1.427	1.427	0	%100
101	MP2B	X	-2.472	-2.472	0	%100
102	MP2B	Z	1.427	1.427	0	%100
103	MP1B	X	-2.472	-2.472	0	%100
104	MP1B	Z	1.427	1.427	0	%100
105	M112	X	-.696	-.696	0	%100
106	M112	Z	.402	.402	0	%100
107	M117	X	-2.785	-2.785	0	%100
108	M117	Z	1.608	1.608	0	%100
109	M122	X	-.696	-.696	0	%100
110	M122	Z	.402	.402	0	%100
111	M127	X	-2.369	-2.369	0	%100
112	M127	Z	1.368	1.368	0	%100
113	M128	X	-.592	-.592	0	%100
114	M128	Z	.342	.342	0	%100
115	M129	X	-.592	-.592	0	%100
116	M129	Z	.342	.342	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	M4	X	-3.372	-3.372	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	0	0	0	%100
9	M51B	X	-2.353	-2.353	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	-2.353	-2.353	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	-4.123	-4.123	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	-3.136	-3.136	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	-3.263	-3.263	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	-4.123	-4.123	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	-3.136	-3.136	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	-3.263	-3.263	0	%100
24	M91	Z	0	0	0	%100
25	M101	X	-2.28	-2.28	0	%100
26	M101	Z	0	0	0	%100
27	M128A	X	-.843	-.843	0	%100
28	M128A	Z	0	0	0	%100
29	M129A	X	-2.072	-2.072	0	%100
30	M129A	Z	0	0	0	%100
31	M130A	X	-2.072	-2.072	0	%100
32	M130A	Z	0	0	0	%100
33	M131A	X	-3.122	-3.122	0	%100
34	M131A	Z	0	0	0	%100
35	M134A	X	-2.353	-2.353	0	%100
36	M134A	Z	0	0	0	%100
37	M135A	X	0	0	0	%100
38	M135A	Z	0	0	0	%100
39	M139A	X	-1.031	-1.031	0	%100
40	M139A	Z	0	0	0	%100
41	M140A	X	-3.136	-3.136	0	%100
42	M140A	Z	0	0	0	%100
43	M142A	X	-3.263	-3.263	0	%100
44	M142A	Z	0	0	0	%100
45	M144A	X	-1.031	-1.031	0	%100
46	M144A	Z	0	0	0	%100
47	M145A	X	0	0	0	%100
48	M145A	Z	0	0	0	%100
49	M147A	X	0	0	0	%100
50	M147A	Z	0	0	0	%100
51	M154A	X	-.843	-.843	0	%100
52	M154A	Z	0	0	0	%100
53	M155A	X	-2.072	-2.072	0	%100
54	M155A	Z	0	0	0	%100
55	M156A	X	-2.072	-2.072	0	%100
56	M156A	Z	0	0	0	%100
57	M157A	X	-3.122	-3.122	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,%]
58	M157A	Z	0	0	0	%100
59	M160A	X	0	0	0	%100
60	M160A	Z	0	0	0	%100
61	M161A	X	-2.353	-2.353	0	%100
62	M161A	Z	0	0	0	%100
63	M165A	X	-1.031	-1.031	0	%100
64	M165A	Z	0	0	0	%100
65	M166A	X	0	0	0	%100
66	M166A	Z	0	0	0	%100
67	M168A	X	0	0	0	%100
68	M168A	Z	0	0	0	%100
69	M170A	X	-1.031	-1.031	0	%100
70	M170A	Z	0	0	0	%100
71	M171A	X	-3.136	-3.136	0	%100
72	M171A	Z	0	0	0	%100
73	M173A	X	-3.263	-3.263	0	%100
74	M173A	Z	0	0	0	%100
75	M180A	X	0	0	0	%100
76	M180A	Z	0	0	0	%100
77	MP3A	X	-2.855	-2.855	0	%100
78	MP3A	Z	0	0	0	%100
79	MP4A	X	-2.855	-2.855	0	%100
80	MP4A	Z	0	0	0	%100
81	MP2A	X	-2.855	-2.855	0	%100
82	MP2A	Z	0	0	0	%100
83	MP1A	X	-2.855	-2.855	0	%100
84	MP1A	Z	0	0	0	%100
85	M189A	X	-2.655	-2.655	0	%100
86	M189A	Z	0	0	0	%100
87	MP3C	X	-2.855	-2.855	0	%100
88	MP3C	Z	0	0	0	%100
89	MP4C	X	-2.855	-2.855	0	%100
90	MP4C	Z	0	0	0	%100
91	MP2C	X	-2.855	-2.855	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	-2.855	-2.855	0	%100
94	MP1C	Z	0	0	0	%100
95	M198A	X	-2.655	-2.655	0	%100
96	M198A	Z	0	0	0	%100
97	MP3B	X	-2.855	-2.855	0	%100
98	MP3B	Z	0	0	0	%100
99	MP4B	X	-2.855	-2.855	0	%100
100	MP4B	Z	0	0	0	%100
101	MP2B	X	-2.855	-2.855	0	%100
102	MP2B	Z	0	0	0	%100
103	MP1B	X	-2.855	-2.855	0	%100
104	MP1B	Z	0	0	0	%100
105	M112	X	0	0	0	%100
106	M112	Z	0	0	0	%100
107	M117	X	-2.412	-2.412	0	%100
108	M117	Z	0	0	0	%100
109	M122	X	-2.412	-2.412	0	%100
110	M122	Z	0	0	0	%100
111	M127	X	-2.052	-2.052	0	%100
112	M127	Z	0	0	0	%100
113	M128	X	0	0	0	%100
114	M128	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,%]
115	M129	X	-2.052	-2.052	0	%100
116	M129	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	M4	X	-2.19	-2.19	0	%100
2	M4	Z	-1.264	-1.264	0	%100
3	M10	X	-.598	-.598	0	%100
4	M10	Z	-.345	-.345	0	%100
5	M43	X	-.598	-.598	0	%100
6	M43	Z	-.345	-.345	0	%100
7	M46	X	-.901	-.901	0	%100
8	M46	Z	-.52	-.52	0	%100
9	M51B	X	-.679	-.679	0	%100
10	M51B	Z	-.392	-.392	0	%100
11	M52B	X	-2.717	-2.717	0	%100
12	M52B	Z	-1.569	-1.569	0	%100
13	M76	X	-2.678	-2.678	0	%100
14	M76	Z	-1.546	-1.546	0	%100
15	M77	X	-.905	-.905	0	%100
16	M77	Z	-.523	-.523	0	%100
17	M80	X	-.942	-.942	0	%100
18	M80	Z	-.544	-.544	0	%100
19	M84	X	-2.678	-2.678	0	%100
20	M84	Z	-1.546	-1.546	0	%100
21	M85	X	-3.621	-3.621	0	%100
22	M85	Z	-2.091	-2.091	0	%100
23	M91	X	-3.768	-3.768	0	%100
24	M91	Z	-2.175	-2.175	0	%100
25	M101	X	-1.975	-1.975	0	%100
26	M101	Z	-1.14	-1.14	0	%100
27	M128A	X	-2.19	-2.19	0	%100
28	M128A	Z	-1.264	-1.264	0	%100
29	M129A	X	-.598	-.598	0	%100
30	M129A	Z	-.345	-.345	0	%100
31	M130A	X	-.598	-.598	0	%100
32	M130A	Z	-.345	-.345	0	%100
33	M131A	X	-.901	-.901	0	%100
34	M131A	Z	-.52	-.52	0	%100
35	M134A	X	-2.717	-2.717	0	%100
36	M134A	Z	-1.569	-1.569	0	%100
37	M135A	X	-.679	-.679	0	%100
38	M135A	Z	-.392	-.392	0	%100
39	M139A	X	-2.678	-2.678	0	%100
40	M139A	Z	-1.546	-1.546	0	%100
41	M140A	X	-3.621	-3.621	0	%100
42	M140A	Z	-2.091	-2.091	0	%100
43	M142A	X	-3.768	-3.768	0	%100
44	M142A	Z	-2.175	-2.175	0	%100
45	M144A	X	-2.678	-2.678	0	%100
46	M144A	Z	-1.546	-1.546	0	%100
47	M145A	X	-.905	-.905	0	%100
48	M145A	Z	-.523	-.523	0	%100
49	M147A	X	-.942	-.942	0	%100
50	M147A	Z	-.544	-.544	0	%100
51	M154A	X	0	0	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,%]
52	M154A	Z	0	0	0	%100
53	M155A	X	-2.392	-2.392	0	%100
54	M155A	Z	-1.381	-1.381	0	%100
55	M156A	X	-2.392	-2.392	0	%100
56	M156A	Z	-1.381	-1.381	0	%100
57	M157A	X	-3.605	-3.605	0	%100
58	M157A	Z	-2.081	-2.081	0	%100
59	M160A	X	-.679	-.679	0	%100
60	M160A	Z	-.392	-.392	0	%100
61	M161A	X	-.679	-.679	0	%100
62	M161A	Z	-.392	-.392	0	%100
63	M165A	X	0	0	0	%100
64	M165A	Z	0	0	0	%100
65	M166A	X	-.905	-.905	0	%100
66	M166A	Z	-.523	-.523	0	%100
67	M168A	X	-.942	-.942	0	%100
68	M168A	Z	-.544	-.544	0	%100
69	M170A	X	0	0	0	%100
70	M170A	Z	0	0	0	%100
71	M171A	X	-.905	-.905	0	%100
72	M171A	Z	-.523	-.523	0	%100
73	M173A	X	-.942	-.942	0	%100
74	M173A	Z	-.544	-.544	0	%100
75	M180A	X	-.767	-.767	0	%100
76	M180A	Z	-.443	-.443	0	%100
77	MP3A	X	-2.472	-2.472	0	%100
78	MP3A	Z	-1.427	-1.427	0	%100
79	MP4A	X	-2.472	-2.472	0	%100
80	MP4A	Z	-1.427	-1.427	0	%100
81	MP2A	X	-2.472	-2.472	0	%100
82	MP2A	Z	-1.427	-1.427	0	%100
83	MP1A	X	-2.472	-2.472	0	%100
84	MP1A	Z	-1.427	-1.427	0	%100
85	M189A	X	-.767	-.767	0	%100
86	M189A	Z	-.443	-.443	0	%100
87	MP3C	X	-2.472	-2.472	0	%100
88	MP3C	Z	-1.427	-1.427	0	%100
89	MP4C	X	-2.472	-2.472	0	%100
90	MP4C	Z	-1.427	-1.427	0	%100
91	MP2C	X	-2.472	-2.472	0	%100
92	MP2C	Z	-1.427	-1.427	0	%100
93	MP1C	X	-2.472	-2.472	0	%100
94	MP1C	Z	-1.427	-1.427	0	%100
95	M198A	X	-3.066	-3.066	0	%100
96	M198A	Z	-1.77	-1.77	0	%100
97	MP3B	X	-2.472	-2.472	0	%100
98	MP3B	Z	-1.427	-1.427	0	%100
99	MP4B	X	-2.472	-2.472	0	%100
100	MP4B	Z	-1.427	-1.427	0	%100
101	MP2B	X	-2.472	-2.472	0	%100
102	MP2B	Z	-1.427	-1.427	0	%100
103	MP1B	X	-2.472	-2.472	0	%100
104	MP1B	Z	-1.427	-1.427	0	%100
105	M112	X	-.696	-.696	0	%100
106	M112	Z	-.402	-.402	0	%100
107	M117	X	-.696	-.696	0	%100
108	M117	Z	-.402	-.402	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,%]
109	M122	X	-2.785	-2.785	0	%100
110	M122	Z	-1.608	-1.608	0	%100
111	M127	X	-.592	-.592	0	%100
112	M127	Z	-.342	-.342	0	%100
113	M128	X	-.592	-.592	0	%100
114	M128	Z	-.342	-.342	0	%100
115	M129	X	-2.369	-2.369	0	%100
116	M129	Z	-1.368	-1.368	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	M4	X	-.421	-.421	0	%100
2	M4	Z	-.73	-.73	0	%100
3	M10	X	-1.036	-1.036	0	%100
4	M10	Z	-1.794	-1.794	0	%100
5	M43	X	-1.036	-1.036	0	%100
6	M43	Z	-1.794	-1.794	0	%100
7	M46	X	-1.561	-1.561	0	%100
8	M46	Z	-2.704	-2.704	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	-1.176	-1.176	0	%100
12	M52B	Z	-2.038	-2.038	0	%100
13	M76	X	-.515	-.515	0	%100
14	M76	Z	-.893	-.893	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	-.515	-.515	0	%100
20	M84	Z	-.893	-.893	0	%100
21	M85	X	-1.568	-1.568	0	%100
22	M85	Z	-2.716	-2.716	0	%100
23	M91	X	-1.631	-1.631	0	%100
24	M91	Z	-2.826	-2.826	0	%100
25	M101	X	-1.14	-1.14	0	%100
26	M101	Z	-1.975	-1.975	0	%100
27	M128A	X	-1.686	-1.686	0	%100
28	M128A	Z	-2.92	-2.92	0	%100
29	M129A	X	0	0	0	%100
30	M129A	Z	0	0	0	%100
31	M130A	X	0	0	0	%100
32	M130A	Z	0	0	0	%100
33	M131A	X	0	0	0	%100
34	M131A	Z	0	0	0	%100
35	M134A	X	-1.176	-1.176	0	%100
36	M134A	Z	-2.038	-2.038	0	%100
37	M135A	X	-1.176	-1.176	0	%100
38	M135A	Z	-2.038	-2.038	0	%100
39	M139A	X	-2.062	-2.062	0	%100
40	M139A	Z	-3.571	-3.571	0	%100
41	M140A	X	-1.568	-1.568	0	%100
42	M140A	Z	-2.716	-2.716	0	%100
43	M142A	X	-1.631	-1.631	0	%100
44	M142A	Z	-2.826	-2.826	0	%100
45	M144A	X	-2.062	-2.062	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,%]
46	M144A	Z	-3.571	-3.571	0	%100
47	M145A	X	-1.568	-1.568	0	%100
48	M145A	Z	-2.716	-2.716	0	%100
49	M147A	X	-1.631	-1.631	0	%100
50	M147A	Z	-2.826	-2.826	0	%100
51	M154A	X	-.421	-.421	0	%100
52	M154A	Z	-.73	-.73	0	%100
53	M155A	X	-1.036	-1.036	0	%100
54	M155A	Z	-1.794	-1.794	0	%100
55	M156A	X	-1.036	-1.036	0	%100
56	M156A	Z	-1.794	-1.794	0	%100
57	M157A	X	-1.561	-1.561	0	%100
58	M157A	Z	-2.704	-2.704	0	%100
59	M160A	X	-1.176	-1.176	0	%100
60	M160A	Z	-2.038	-2.038	0	%100
61	M161A	X	0	0	0	%100
62	M161A	Z	0	0	0	%100
63	M165A	X	-.515	-.515	0	%100
64	M165A	Z	-.893	-.893	0	%100
65	M166A	X	-1.568	-1.568	0	%100
66	M166A	Z	-2.716	-2.716	0	%100
67	M168A	X	-1.631	-1.631	0	%100
68	M168A	Z	-2.826	-2.826	0	%100
69	M170A	X	-.515	-.515	0	%100
70	M170A	Z	-.893	-.893	0	%100
71	M171A	X	0	0	0	%100
72	M171A	Z	0	0	0	%100
73	M173A	X	0	0	0	%100
74	M173A	Z	0	0	0	%100
75	M180A	X	-1.328	-1.328	0	%100
76	M180A	Z	-2.3	-2.3	0	%100
77	MP3A	X	-1.427	-1.427	0	%100
78	MP3A	Z	-2.472	-2.472	0	%100
79	MP4A	X	-1.427	-1.427	0	%100
80	MP4A	Z	-2.472	-2.472	0	%100
81	MP2A	X	-1.427	-1.427	0	%100
82	MP2A	Z	-2.472	-2.472	0	%100
83	MP1A	X	-1.427	-1.427	0	%100
84	MP1A	Z	-2.472	-2.472	0	%100
85	M189A	X	0	0	0	%100
86	M189A	Z	0	0	0	%100
87	MP3C	X	-1.427	-1.427	0	%100
88	MP3C	Z	-2.472	-2.472	0	%100
89	MP4C	X	-1.427	-1.427	0	%100
90	MP4C	Z	-2.472	-2.472	0	%100
91	MP2C	X	-1.427	-1.427	0	%100
92	MP2C	Z	-2.472	-2.472	0	%100
93	MP1C	X	-1.427	-1.427	0	%100
94	MP1C	Z	-2.472	-2.472	0	%100
95	M198A	X	-1.328	-1.328	0	%100
96	M198A	Z	-2.3	-2.3	0	%100
97	MP3B	X	-1.427	-1.427	0	%100
98	MP3B	Z	-2.472	-2.472	0	%100
99	MP4B	X	-1.427	-1.427	0	%100
100	MP4B	Z	-2.472	-2.472	0	%100
101	MP2B	X	-1.427	-1.427	0	%100
102	MP2B	Z	-2.472	-2.472	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,%]
103	MP1B	X	-1.427	-1.427	0	%100
104	MP1B	Z	-2.472	-2.472	0	%100
105	M112	X	-1.206	-1.206	0	%100
106	M112	Z	-2.089	-2.089	0	%100
107	M117	X	0	0	0	%100
108	M117	Z	0	0	0	%100
109	M122	X	-1.206	-1.206	0	%100
110	M122	Z	-2.089	-2.089	0	%100
111	M127	X	0	0	0	%100
112	M127	Z	0	0	0	%100
113	M128	X	-1.026	-1.026	0	%100
114	M128	Z	-1.777	-1.777	0	%100
115	M129	X	-1.026	-1.026	0	%100
116	M129	Z	-1.777	-1.777	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	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	-.563	-.563	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	-.563	-.563	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	-1.123	-1.123	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	-.156	-.156	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	-.156	-.156	0	%100
13	M76	X	0	0	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	-.286	-.286	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	-.301	-.301	0	%100
19	M84	X	0	0	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	-.286	-.286	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	-.301	-.301	0	%100
25	M101	X	0	0	0	%100
26	M101	Z	-.364	-.364	0	%100
27	M128A	X	0	0	0	%100
28	M128A	Z	-.499	-.499	0	%100
29	M129A	X	0	0	0	%100
30	M129A	Z	-.141	-.141	0	%100
31	M130A	X	0	0	0	%100
32	M130A	Z	-.141	-.141	0	%100
33	M131A	X	0	0	0	%100
34	M131A	Z	-.281	-.281	0	%100
35	M134A	X	0	0	0	%100
36	M134A	Z	-.156	-.156	0	%100
37	M135A	X	0	0	0	%100
38	M135A	Z	-.624	-.624	0	%100
39	M139A	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,%]
40	M139A	Z	-.842	-.842	0	%100
41	M140A	X	0	0	0	%100
42	M140A	Z	-.286	-.286	0	%100
43	M142A	X	0	0	0	%100
44	M142A	Z	-.301	-.301	0	%100
45	M144A	X	0	0	0	%100
46	M144A	Z	-.842	-.842	0	%100
47	M145A	X	0	0	0	%100
48	M145A	Z	-1.144	-1.144	0	%100
49	M147A	X	0	0	0	%100
50	M147A	Z	-1.205	-1.205	0	%100
51	M154A	X	0	0	0	%100
52	M154A	Z	-.499	-.499	0	%100
53	M155A	X	0	0	0	%100
54	M155A	Z	-.141	-.141	0	%100
55	M156A	X	0	0	0	%100
56	M156A	Z	-.141	-.141	0	%100
57	M157A	X	0	0	0	%100
58	M157A	Z	-.281	-.281	0	%100
59	M160A	X	0	0	0	%100
60	M160A	Z	-.624	-.624	0	%100
61	M161A	X	0	0	0	%100
62	M161A	Z	-.156	-.156	0	%100
63	M165A	X	0	0	0	%100
64	M165A	Z	-.842	-.842	0	%100
65	M166A	X	0	0	0	%100
66	M166A	Z	-1.144	-1.144	0	%100
67	M168A	X	0	0	0	%100
68	M168A	Z	-1.205	-1.205	0	%100
69	M170A	X	0	0	0	%100
70	M170A	Z	-.842	-.842	0	%100
71	M171A	X	0	0	0	%100
72	M171A	Z	-.286	-.286	0	%100
73	M173A	X	0	0	0	%100
74	M173A	Z	-.301	-.301	0	%100
75	M180A	X	0	0	0	%100
76	M180A	Z	-.655	-.655	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	-.445	-.445	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	-.445	-.445	0	%100
81	MP2A	X	0	0	0	%100
82	MP2A	Z	-.445	-.445	0	%100
83	MP1A	X	0	0	0	%100
84	MP1A	Z	-.445	-.445	0	%100
85	M189A	X	0	0	0	%100
86	M189A	Z	-.164	-.164	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	-.445	-.445	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	-.445	-.445	0	%100
91	MP2C	X	0	0	0	%100
92	MP2C	Z	-.445	-.445	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	-.445	-.445	0	%100
95	M198A	X	0	0	0	%100
96	M198A	Z	-.164	-.164	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,%]
97	MP3B	X	0	0	0	%100
98	MP3B	Z	-.445	-.445	0	%100
99	MP4B	X	0	0	0	%100
100	MP4B	Z	-.445	-.445	0	%100
101	MP2B	X	0	0	0	%100
102	MP2B	Z	-.445	-.445	0	%100
103	MP1B	X	0	0	0	%100
104	MP1B	Z	-.445	-.445	0	%100
105	M112	X	0	0	0	%100
106	M112	Z	-.538	-.538	0	%100
107	M117	X	0	0	0	%100
108	M117	Z	-.135	-.135	0	%100
109	M122	X	0	0	0	%100
110	M122	Z	-.135	-.135	0	%100
111	M127	X	0	0	0	%100
112	M127	Z	-.151	-.151	0	%100
113	M128	X	0	0	0	%100
114	M128	Z	-.605	-.605	0	%100
115	M129	X	0	0	0	%100
116	M129	Z	-.151	-.151	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	M4	X	.083	.083	0	%100
2	M4	Z	-.144	-.144	0	%100
3	M10	X	.211	.211	0	%100
4	M10	Z	-.366	-.366	0	%100
5	M43	X	.211	.211	0	%100
6	M43	Z	-.366	-.366	0	%100
7	M46	X	.421	.421	0	%100
8	M46	Z	-.729	-.729	0	%100
9	M51B	X	.234	.234	0	%100
10	M51B	Z	-.405	-.405	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	.14	.14	0	%100
14	M76	Z	-.243	-.243	0	%100
15	M77	X	.429	.429	0	%100
16	M77	Z	-.743	-.743	0	%100
17	M80	X	.452	.452	0	%100
18	M80	Z	-.783	-.783	0	%100
19	M84	X	.14	.14	0	%100
20	M84	Z	-.243	-.243	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	0	0	0	%100
25	M101	X	.182	.182	0	%100
26	M101	Z	-.315	-.315	0	%100
27	M128A	X	.083	.083	0	%100
28	M128A	Z	-.144	-.144	0	%100
29	M129A	X	.211	.211	0	%100
30	M129A	Z	-.366	-.366	0	%100
31	M130A	X	.211	.211	0	%100
32	M130A	Z	-.366	-.366	0	%100
33	M131A	X	.421	.421	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
34	M131A	Z	-.729	-.729	0	%100
35	M134A	X	0	0	0	%100
36	M134A	Z	0	0	0	%100
37	M135A	X	.234	.234	0	%100
38	M135A	Z	-.405	-.405	0	%100
39	M139A	X	.14	.14	0	%100
40	M139A	Z	-.243	-.243	0	%100
41	M140A	X	0	0	0	%100
42	M140A	Z	0	0	0	%100
43	M142A	X	0	0	0	%100
44	M142A	Z	0	0	0	%100
45	M144A	X	.14	.14	0	%100
46	M144A	Z	-.243	-.243	0	%100
47	M145A	X	.429	.429	0	%100
48	M145A	Z	-.743	-.743	0	%100
49	M147A	X	.452	.452	0	%100
50	M147A	Z	-.783	-.783	0	%100
51	M154A	X	.333	.333	0	%100
52	M154A	Z	-.576	-.576	0	%100
53	M155A	X	0	0	0	%100
54	M155A	Z	0	0	0	%100
55	M156A	X	0	0	0	%100
56	M156A	Z	0	0	0	%100
57	M157A	X	0	0	0	%100
58	M157A	Z	0	0	0	%100
59	M160A	X	.234	.234	0	%100
60	M160A	Z	-.405	-.405	0	%100
61	M161A	X	.234	.234	0	%100
62	M161A	Z	-.405	-.405	0	%100
63	M165A	X	.562	.562	0	%100
64	M165A	Z	-.973	-.973	0	%100
65	M166A	X	.429	.429	0	%100
66	M166A	Z	-.743	-.743	0	%100
67	M168A	X	.452	.452	0	%100
68	M168A	Z	-.783	-.783	0	%100
69	M170A	X	.562	.562	0	%100
70	M170A	Z	-.973	-.973	0	%100
71	M171A	X	.429	.429	0	%100
72	M171A	Z	-.743	-.743	0	%100
73	M173A	X	.452	.452	0	%100
74	M173A	Z	-.783	-.783	0	%100
75	M180A	X	.246	.246	0	%100
76	M180A	Z	-.426	-.426	0	%100
77	MP3A	X	.222	.222	0	%100
78	MP3A	Z	-.385	-.385	0	%100
79	MP4A	X	.222	.222	0	%100
80	MP4A	Z	-.385	-.385	0	%100
81	MP2A	X	.222	.222	0	%100
82	MP2A	Z	-.385	-.385	0	%100
83	MP1A	X	.222	.222	0	%100
84	MP1A	Z	-.385	-.385	0	%100
85	M189A	X	.246	.246	0	%100
86	M189A	Z	-.426	-.426	0	%100
87	MP3C	X	.222	.222	0	%100
88	MP3C	Z	-.385	-.385	0	%100
89	MP4C	X	.222	.222	0	%100
90	MP4C	Z	-.385	-.385	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,%]
91	MP2C	X	.222	.222	0	%100
92	MP2C	Z	-.385	-.385	0	%100
93	MP1C	X	.222	.222	0	%100
94	MP1C	Z	-.385	-.385	0	%100
95	M198A	X	0	0	0	%100
96	M198A	Z	0	0	0	%100
97	MP3B	X	.222	.222	0	%100
98	MP3B	Z	-.385	-.385	0	%100
99	MP4B	X	.222	.222	0	%100
100	MP4B	Z	-.385	-.385	0	%100
101	MP2B	X	.222	.222	0	%100
102	MP2B	Z	-.385	-.385	0	%100
103	MP1B	X	.222	.222	0	%100
104	MP1B	Z	-.385	-.385	0	%100
105	M112	X	.202	.202	0	%100
106	M112	Z	-.35	-.35	0	%100
107	M117	X	.202	.202	0	%100
108	M117	Z	-.35	-.35	0	%100
109	M122	X	0	0	0	%100
110	M122	Z	0	0	0	%100
111	M127	X	.227	.227	0	%100
112	M127	Z	-.393	-.393	0	%100
113	M128	X	.227	.227	0	%100
114	M128	Z	-.393	-.393	0	%100
115	M129	X	0	0	0	%100
116	M129	Z	0	0	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	M4	X	.432	.432	0	%100
2	M4	Z	-.25	-.25	0	%100
3	M10	X	.122	.122	0	%100
4	M10	Z	-.07	-.07	0	%100
5	M43	X	.122	.122	0	%100
6	M43	Z	-.07	-.07	0	%100
7	M46	X	.243	.243	0	%100
8	M46	Z	-.14	-.14	0	%100
9	M51B	X	.54	.54	0	%100
10	M51B	Z	-.312	-.312	0	%100
11	M52B	X	.135	.135	0	%100
12	M52B	Z	-.078	-.078	0	%100
13	M76	X	.729	.729	0	%100
14	M76	Z	-.421	-.421	0	%100
15	M77	X	.991	.991	0	%100
16	M77	Z	-.572	-.572	0	%100
17	M80	X	1.043	1.043	0	%100
18	M80	Z	-.602	-.602	0	%100
19	M84	X	.729	.729	0	%100
20	M84	Z	-.421	-.421	0	%100
21	M85	X	.248	.248	0	%100
22	M85	Z	-.143	-.143	0	%100
23	M91	X	.261	.261	0	%100
24	M91	Z	-.151	-.151	0	%100
25	M101	X	.315	.315	0	%100
26	M101	Z	-.182	-.182	0	%100
27	M128A	X	0	0	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,%]
28	M128A	Z	0	0	0	%100
29	M129A	X	.488	.488	0	%100
30	M129A	Z	-.282	-.282	0	%100
31	M130A	X	.488	.488	0	%100
32	M130A	Z	-.282	-.282	0	%100
33	M131A	X	.973	.973	0	%100
34	M131A	Z	-.562	-.562	0	%100
35	M134A	X	.135	.135	0	%100
36	M134A	Z	-.078	-.078	0	%100
37	M135A	X	.135	.135	0	%100
38	M135A	Z	-.078	-.078	0	%100
39	M139A	X	0	0	0	%100
40	M139A	Z	0	0	0	%100
41	M140A	X	.248	.248	0	%100
42	M140A	Z	-.143	-.143	0	%100
43	M142A	X	.261	.261	0	%100
44	M142A	Z	-.151	-.151	0	%100
45	M144A	X	0	0	0	%100
46	M144A	Z	0	0	0	%100
47	M145A	X	.248	.248	0	%100
48	M145A	Z	-.143	-.143	0	%100
49	M147A	X	.261	.261	0	%100
50	M147A	Z	-.151	-.151	0	%100
51	M154A	X	.432	.432	0	%100
52	M154A	Z	-.25	-.25	0	%100
53	M155A	X	.122	.122	0	%100
54	M155A	Z	-.07	-.07	0	%100
55	M156A	X	.122	.122	0	%100
56	M156A	Z	-.07	-.07	0	%100
57	M157A	X	.243	.243	0	%100
58	M157A	Z	-.14	-.14	0	%100
59	M160A	X	.135	.135	0	%100
60	M160A	Z	-.078	-.078	0	%100
61	M161A	X	.54	.54	0	%100
62	M161A	Z	-.312	-.312	0	%100
63	M165A	X	.729	.729	0	%100
64	M165A	Z	-.421	-.421	0	%100
65	M166A	X	.248	.248	0	%100
66	M166A	Z	-.143	-.143	0	%100
67	M168A	X	.261	.261	0	%100
68	M168A	Z	-.151	-.151	0	%100
69	M170A	X	.729	.729	0	%100
70	M170A	Z	-.421	-.421	0	%100
71	M171A	X	.991	.991	0	%100
72	M171A	Z	-.572	-.572	0	%100
73	M173A	X	1.043	1.043	0	%100
74	M173A	Z	-.602	-.602	0	%100
75	M180A	X	.142	.142	0	%100
76	M180A	Z	-.082	-.082	0	%100
77	MP3A	X	.385	.385	0	%100
78	MP3A	Z	-.222	-.222	0	%100
79	MP4A	X	.385	.385	0	%100
80	MP4A	Z	-.222	-.222	0	%100
81	MP2A	X	.385	.385	0	%100
82	MP2A	Z	-.222	-.222	0	%100
83	MP1A	X	.385	.385	0	%100
84	MP1A	Z	-.222	-.222	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,%]
85	M189A	X	.567	.567	0	%100
86	M189A	Z	-.328	-.328	0	%100
87	MP3C	X	.385	.385	0	%100
88	MP3C	Z	-.222	-.222	0	%100
89	MP4C	X	.385	.385	0	%100
90	MP4C	Z	-.222	-.222	0	%100
91	MP2C	X	.385	.385	0	%100
92	MP2C	Z	-.222	-.222	0	%100
93	MP1C	X	.385	.385	0	%100
94	MP1C	Z	-.222	-.222	0	%100
95	M198A	X	.142	.142	0	%100
96	M198A	Z	-.082	-.082	0	%100
97	MP3B	X	.385	.385	0	%100
98	MP3B	Z	-.222	-.222	0	%100
99	MP4B	X	.385	.385	0	%100
100	MP4B	Z	-.222	-.222	0	%100
101	MP2B	X	.385	.385	0	%100
102	MP2B	Z	-.222	-.222	0	%100
103	MP1B	X	.385	.385	0	%100
104	MP1B	Z	-.222	-.222	0	%100
105	M112	X	.117	.117	0	%100
106	M112	Z	-.067	-.067	0	%100
107	M117	X	.466	.466	0	%100
108	M117	Z	-.269	-.269	0	%100
109	M122	X	.117	.117	0	%100
110	M122	Z	-.067	-.067	0	%100
111	M127	X	.524	.524	0	%100
112	M127	Z	-.302	-.302	0	%100
113	M128	X	.131	.131	0	%100
114	M128	Z	-.076	-.076	0	%100
115	M129	X	.131	.131	0	%100
116	M129	Z	-.076	-.076	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	M4	X	.665	.665	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	0	0	0	%100
9	M51B	X	.468	.468	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	.468	.468	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	1.123	1.123	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	.858	.858	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	.904	.904	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	1.123	1.123	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	.858	.858	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,%]
22	M85	Z	0	0	0	%100
23	M91	X	.904	.904	0	%100
24	M91	Z	0	0	0	%100
25	M101	X	.364	.364	0	%100
26	M101	Z	0	0	0	%100
27	M128A	X	.166	.166	0	%100
28	M128A	Z	0	0	0	%100
29	M129A	X	.422	.422	0	%100
30	M129A	Z	0	0	0	%100
31	M130A	X	.422	.422	0	%100
32	M130A	Z	0	0	0	%100
33	M131A	X	.842	.842	0	%100
34	M131A	Z	0	0	0	%100
35	M134A	X	.468	.468	0	%100
36	M134A	Z	0	0	0	%100
37	M135A	X	0	0	0	%100
38	M135A	Z	0	0	0	%100
39	M139A	X	.281	.281	0	%100
40	M139A	Z	0	0	0	%100
41	M140A	X	.858	.858	0	%100
42	M140A	Z	0	0	0	%100
43	M142A	X	.904	.904	0	%100
44	M142A	Z	0	0	0	%100
45	M144A	X	.281	.281	0	%100
46	M144A	Z	0	0	0	%100
47	M145A	X	0	0	0	%100
48	M145A	Z	0	0	0	%100
49	M147A	X	0	0	0	%100
50	M147A	Z	0	0	0	%100
51	M154A	X	.166	.166	0	%100
52	M154A	Z	0	0	0	%100
53	M155A	X	.422	.422	0	%100
54	M155A	Z	0	0	0	%100
55	M156A	X	.422	.422	0	%100
56	M156A	Z	0	0	0	%100
57	M157A	X	.842	.842	0	%100
58	M157A	Z	0	0	0	%100
59	M160A	X	0	0	0	%100
60	M160A	Z	0	0	0	%100
61	M161A	X	.468	.468	0	%100
62	M161A	Z	0	0	0	%100
63	M165A	X	.281	.281	0	%100
64	M165A	Z	0	0	0	%100
65	M166A	X	0	0	0	%100
66	M166A	Z	0	0	0	%100
67	M168A	X	0	0	0	%100
68	M168A	Z	0	0	0	%100
69	M170A	X	.281	.281	0	%100
70	M170A	Z	0	0	0	%100
71	M171A	X	.858	.858	0	%100
72	M171A	Z	0	0	0	%100
73	M173A	X	.904	.904	0	%100
74	M173A	Z	0	0	0	%100
75	M180A	X	0	0	0	%100
76	M180A	Z	0	0	0	%100
77	MP3A	X	.445	.445	0	%100
78	MP3A	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,%]
79	MP4A	X	.445	.445	0	%100
80	MP4A	Z	0	0	0	%100
81	MP2A	X	.445	.445	0	%100
82	MP2A	Z	0	0	0	%100
83	MP1A	X	.445	.445	0	%100
84	MP1A	Z	0	0	0	%100
85	M189A	X	.491	.491	0	%100
86	M189A	Z	0	0	0	%100
87	MP3C	X	.445	.445	0	%100
88	MP3C	Z	0	0	0	%100
89	MP4C	X	.445	.445	0	%100
90	MP4C	Z	0	0	0	%100
91	MP2C	X	.445	.445	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	.445	.445	0	%100
94	MP1C	Z	0	0	0	%100
95	M198A	X	.491	.491	0	%100
96	M198A	Z	0	0	0	%100
97	MP3B	X	.445	.445	0	%100
98	MP3B	Z	0	0	0	%100
99	MP4B	X	.445	.445	0	%100
100	MP4B	Z	0	0	0	%100
101	MP2B	X	.445	.445	0	%100
102	MP2B	Z	0	0	0	%100
103	MP1B	X	.445	.445	0	%100
104	MP1B	Z	0	0	0	%100
105	M112	X	0	0	0	%100
106	M112	Z	0	0	0	%100
107	M117	X	.404	.404	0	%100
108	M117	Z	0	0	0	%100
109	M122	X	.404	.404	0	%100
110	M122	Z	0	0	0	%100
111	M127	X	.453	.453	0	%100
112	M127	Z	0	0	0	%100
113	M128	X	0	0	0	%100
114	M128	Z	0	0	0	%100
115	M129	X	.453	.453	0	%100
116	M129	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	M4	X	.432	.432	0	%100
2	M4	Z	.25	.25	0	%100
3	M10	X	.122	.122	0	%100
4	M10	Z	.07	.07	0	%100
5	M43	X	.122	.122	0	%100
6	M43	Z	.07	.07	0	%100
7	M46	X	.243	.243	0	%100
8	M46	Z	.14	.14	0	%100
9	M51B	X	.135	.135	0	%100
10	M51B	Z	.078	.078	0	%100
11	M52B	X	.54	.54	0	%100
12	M52B	Z	.312	.312	0	%100
13	M76	X	.729	.729	0	%100
14	M76	Z	.421	.421	0	%100
15	M77	X	.248	.248	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,%]
16	M77	Z	.143	.143	0	%100
17	M80	X	.261	.261	0	%100
18	M80	Z	.151	.151	0	%100
19	M84	X	.729	.729	0	%100
20	M84	Z	.421	.421	0	%100
21	M85	X	.991	.991	0	%100
22	M85	Z	.572	.572	0	%100
23	M91	X	1.043	1.043	0	%100
24	M91	Z	.602	.602	0	%100
25	M101	X	.315	.315	0	%100
26	M101	Z	.182	.182	0	%100
27	M128A	X	.432	.432	0	%100
28	M128A	Z	.25	.25	0	%100
29	M129A	X	.122	.122	0	%100
30	M129A	Z	.07	.07	0	%100
31	M130A	X	.122	.122	0	%100
32	M130A	Z	.07	.07	0	%100
33	M131A	X	.243	.243	0	%100
34	M131A	Z	.14	.14	0	%100
35	M134A	X	.54	.54	0	%100
36	M134A	Z	.312	.312	0	%100
37	M135A	X	.135	.135	0	%100
38	M135A	Z	.078	.078	0	%100
39	M139A	X	.729	.729	0	%100
40	M139A	Z	.421	.421	0	%100
41	M140A	X	.991	.991	0	%100
42	M140A	Z	.572	.572	0	%100
43	M142A	X	1.043	1.043	0	%100
44	M142A	Z	.602	.602	0	%100
45	M144A	X	.729	.729	0	%100
46	M144A	Z	.421	.421	0	%100
47	M145A	X	.248	.248	0	%100
48	M145A	Z	.143	.143	0	%100
49	M147A	X	.261	.261	0	%100
50	M147A	Z	.151	.151	0	%100
51	M154A	X	0	0	0	%100
52	M154A	Z	0	0	0	%100
53	M155A	X	.488	.488	0	%100
54	M155A	Z	.282	.282	0	%100
55	M156A	X	.488	.488	0	%100
56	M156A	Z	.282	.282	0	%100
57	M157A	X	.973	.973	0	%100
58	M157A	Z	.562	.562	0	%100
59	M160A	X	.135	.135	0	%100
60	M160A	Z	.078	.078	0	%100
61	M161A	X	.135	.135	0	%100
62	M161A	Z	.078	.078	0	%100
63	M165A	X	0	0	0	%100
64	M165A	Z	0	0	0	%100
65	M166A	X	.248	.248	0	%100
66	M166A	Z	.143	.143	0	%100
67	M168A	X	.261	.261	0	%100
68	M168A	Z	.151	.151	0	%100
69	M170A	X	0	0	0	%100
70	M170A	Z	0	0	0	%100
71	M171A	X	.248	.248	0	%100
72	M171A	Z	.143	.143	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,%]
73	M173A	X	.261	.261	0	%100
74	M173A	Z	.151	.151	0	%100
75	M180A	X	.142	.142	0	%100
76	M180A	Z	.082	.082	0	%100
77	MP3A	X	.385	.385	0	%100
78	MP3A	Z	.222	.222	0	%100
79	MP4A	X	.385	.385	0	%100
80	MP4A	Z	.222	.222	0	%100
81	MP2A	X	.385	.385	0	%100
82	MP2A	Z	.222	.222	0	%100
83	MP1A	X	.385	.385	0	%100
84	MP1A	Z	.222	.222	0	%100
85	M189A	X	.142	.142	0	%100
86	M189A	Z	.082	.082	0	%100
87	MP3C	X	.385	.385	0	%100
88	MP3C	Z	.222	.222	0	%100
89	MP4C	X	.385	.385	0	%100
90	MP4C	Z	.222	.222	0	%100
91	MP2C	X	.385	.385	0	%100
92	MP2C	Z	.222	.222	0	%100
93	MP1C	X	.385	.385	0	%100
94	MP1C	Z	.222	.222	0	%100
95	M198A	X	.567	.567	0	%100
96	M198A	Z	.328	.328	0	%100
97	MP3B	X	.385	.385	0	%100
98	MP3B	Z	.222	.222	0	%100
99	MP4B	X	.385	.385	0	%100
100	MP4B	Z	.222	.222	0	%100
101	MP2B	X	.385	.385	0	%100
102	MP2B	Z	.222	.222	0	%100
103	MP1B	X	.385	.385	0	%100
104	MP1B	Z	.222	.222	0	%100
105	M112	X	.117	.117	0	%100
106	M112	Z	.067	.067	0	%100
107	M117	X	.117	.117	0	%100
108	M117	Z	.067	.067	0	%100
109	M122	X	.466	.466	0	%100
110	M122	Z	.269	.269	0	%100
111	M127	X	.131	.131	0	%100
112	M127	Z	.076	.076	0	%100
113	M128	X	.131	.131	0	%100
114	M128	Z	.076	.076	0	%100
115	M129	X	.524	.524	0	%100
116	M129	Z	.302	.302	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	M4	X	.083	.083	0	%100
2	M4	Z	.144	.144	0	%100
3	M10	X	.211	.211	0	%100
4	M10	Z	.366	.366	0	%100
5	M43	X	.211	.211	0	%100
6	M43	Z	.366	.366	0	%100
7	M46	X	.421	.421	0	%100
8	M46	Z	.729	.729	0	%100
9	M51B	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
10	M51B	Z	0	0	0	%100
11	M52B	X	.234	.234	0	%100
12	M52B	Z	.405	.405	0	%100
13	M76	X	.14	.14	0	%100
14	M76	Z	.243	.243	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	.14	.14	0	%100
20	M84	Z	.243	.243	0	%100
21	M85	X	.429	.429	0	%100
22	M85	Z	.743	.743	0	%100
23	M91	X	.452	.452	0	%100
24	M91	Z	.783	.783	0	%100
25	M101	X	.182	.182	0	%100
26	M101	Z	.315	.315	0	%100
27	M128A	X	.333	.333	0	%100
28	M128A	Z	.576	.576	0	%100
29	M129A	X	0	0	0	%100
30	M129A	Z	0	0	0	%100
31	M130A	X	0	0	0	%100
32	M130A	Z	0	0	0	%100
33	M131A	X	0	0	0	%100
34	M131A	Z	0	0	0	%100
35	M134A	X	.234	.234	0	%100
36	M134A	Z	.405	.405	0	%100
37	M135A	X	.234	.234	0	%100
38	M135A	Z	.405	.405	0	%100
39	M139A	X	.562	.562	0	%100
40	M139A	Z	.973	.973	0	%100
41	M140A	X	.429	.429	0	%100
42	M140A	Z	.743	.743	0	%100
43	M142A	X	.452	.452	0	%100
44	M142A	Z	.783	.783	0	%100
45	M144A	X	.562	.562	0	%100
46	M144A	Z	.973	.973	0	%100
47	M145A	X	.429	.429	0	%100
48	M145A	Z	.743	.743	0	%100
49	M147A	X	.452	.452	0	%100
50	M147A	Z	.783	.783	0	%100
51	M154A	X	.083	.083	0	%100
52	M154A	Z	.144	.144	0	%100
53	M155A	X	.211	.211	0	%100
54	M155A	Z	.366	.366	0	%100
55	M156A	X	.211	.211	0	%100
56	M156A	Z	.366	.366	0	%100
57	M157A	X	.421	.421	0	%100
58	M157A	Z	.729	.729	0	%100
59	M160A	X	.234	.234	0	%100
60	M160A	Z	.405	.405	0	%100
61	M161A	X	0	0	0	%100
62	M161A	Z	0	0	0	%100
63	M165A	X	.14	.14	0	%100
64	M165A	Z	.243	.243	0	%100
65	M166A	X	.429	.429	0	%100
66	M166A	Z	.743	.743	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,%]
67	M168A	X	.452	.452	0	%100
68	M168A	Z	.783	.783	0	%100
69	M170A	X	.14	.14	0	%100
70	M170A	Z	.243	.243	0	%100
71	M171A	X	0	0	0	%100
72	M171A	Z	0	0	0	%100
73	M173A	X	0	0	0	%100
74	M173A	Z	0	0	0	%100
75	M180A	X	.246	.246	0	%100
76	M180A	Z	.426	.426	0	%100
77	MP3A	X	.222	.222	0	%100
78	MP3A	Z	.385	.385	0	%100
79	MP4A	X	.222	.222	0	%100
80	MP4A	Z	.385	.385	0	%100
81	MP2A	X	.222	.222	0	%100
82	MP2A	Z	.385	.385	0	%100
83	MP1A	X	.222	.222	0	%100
84	MP1A	Z	.385	.385	0	%100
85	M189A	X	0	0	0	%100
86	M189A	Z	0	0	0	%100
87	MP3C	X	.222	.222	0	%100
88	MP3C	Z	.385	.385	0	%100
89	MP4C	X	.222	.222	0	%100
90	MP4C	Z	.385	.385	0	%100
91	MP2C	X	.222	.222	0	%100
92	MP2C	Z	.385	.385	0	%100
93	MP1C	X	.222	.222	0	%100
94	MP1C	Z	.385	.385	0	%100
95	M198A	X	.246	.246	0	%100
96	M198A	Z	.426	.426	0	%100
97	MP3B	X	.222	.222	0	%100
98	MP3B	Z	.385	.385	0	%100
99	MP4B	X	.222	.222	0	%100
100	MP4B	Z	.385	.385	0	%100
101	MP2B	X	.222	.222	0	%100
102	MP2B	Z	.385	.385	0	%100
103	MP1B	X	.222	.222	0	%100
104	MP1B	Z	.385	.385	0	%100
105	M112	X	.202	.202	0	%100
106	M112	Z	.35	.35	0	%100
107	M117	X	0	0	0	%100
108	M117	Z	0	0	0	%100
109	M122	X	.202	.202	0	%100
110	M122	Z	.35	.35	0	%100
111	M127	X	0	0	0	%100
112	M127	Z	0	0	0	%100
113	M128	X	.227	.227	0	%100
114	M128	Z	.393	.393	0	%100
115	M129	X	.227	.227	0	%100
116	M129	Z	.393	.393	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	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
4	M10	Z	.563	.563	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	.563	.563	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	1.123	1.123	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	.156	.156	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	.156	.156	0	%100
13	M76	X	0	0	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	.286	.286	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	.301	.301	0	%100
19	M84	X	0	0	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	.286	.286	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	.301	.301	0	%100
25	M101	X	0	0	0	%100
26	M101	Z	.364	.364	0	%100
27	M128A	X	0	0	0	%100
28	M128A	Z	.499	.499	0	%100
29	M129A	X	0	0	0	%100
30	M129A	Z	.141	.141	0	%100
31	M130A	X	0	0	0	%100
32	M130A	Z	.141	.141	0	%100
33	M131A	X	0	0	0	%100
34	M131A	Z	.281	.281	0	%100
35	M134A	X	0	0	0	%100
36	M134A	Z	.156	.156	0	%100
37	M135A	X	0	0	0	%100
38	M135A	Z	.624	.624	0	%100
39	M139A	X	0	0	0	%100
40	M139A	Z	.842	.842	0	%100
41	M140A	X	0	0	0	%100
42	M140A	Z	.286	.286	0	%100
43	M142A	X	0	0	0	%100
44	M142A	Z	.301	.301	0	%100
45	M144A	X	0	0	0	%100
46	M144A	Z	.842	.842	0	%100
47	M145A	X	0	0	0	%100
48	M145A	Z	1.144	1.144	0	%100
49	M147A	X	0	0	0	%100
50	M147A	Z	1.205	1.205	0	%100
51	M154A	X	0	0	0	%100
52	M154A	Z	.499	.499	0	%100
53	M155A	X	0	0	0	%100
54	M155A	Z	.141	.141	0	%100
55	M156A	X	0	0	0	%100
56	M156A	Z	.141	.141	0	%100
57	M157A	X	0	0	0	%100
58	M157A	Z	.281	.281	0	%100
59	M160A	X	0	0	0	%100
60	M160A	Z	.624	.624	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,%]
61	M161A	X	0	0	0	%100
62	M161A	Z	.156	.156	0	%100
63	M165A	X	0	0	0	%100
64	M165A	Z	.842	.842	0	%100
65	M166A	X	0	0	0	%100
66	M166A	Z	1.144	1.144	0	%100
67	M168A	X	0	0	0	%100
68	M168A	Z	1.205	1.205	0	%100
69	M170A	X	0	0	0	%100
70	M170A	Z	.842	.842	0	%100
71	M171A	X	0	0	0	%100
72	M171A	Z	.286	.286	0	%100
73	M173A	X	0	0	0	%100
74	M173A	Z	.301	.301	0	%100
75	M180A	X	0	0	0	%100
76	M180A	Z	.655	.655	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	.445	.445	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	.445	.445	0	%100
81	MP2A	X	0	0	0	%100
82	MP2A	Z	.445	.445	0	%100
83	MP1A	X	0	0	0	%100
84	MP1A	Z	.445	.445	0	%100
85	M189A	X	0	0	0	%100
86	M189A	Z	.164	.164	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	.445	.445	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	.445	.445	0	%100
91	MP2C	X	0	0	0	%100
92	MP2C	Z	.445	.445	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	.445	.445	0	%100
95	M198A	X	0	0	0	%100
96	M198A	Z	.164	.164	0	%100
97	MP3B	X	0	0	0	%100
98	MP3B	Z	.445	.445	0	%100
99	MP4B	X	0	0	0	%100
100	MP4B	Z	.445	.445	0	%100
101	MP2B	X	0	0	0	%100
102	MP2B	Z	.445	.445	0	%100
103	MP1B	X	0	0	0	%100
104	MP1B	Z	.445	.445	0	%100
105	M112	X	0	0	0	%100
106	M112	Z	.538	.538	0	%100
107	M117	X	0	0	0	%100
108	M117	Z	.135	.135	0	%100
109	M122	X	0	0	0	%100
110	M122	Z	.135	.135	0	%100
111	M127	X	0	0	0	%100
112	M127	Z	.151	.151	0	%100
113	M128	X	0	0	0	%100
114	M128	Z	.605	.605	0	%100
115	M129	X	0	0	0	%100
116	M129	Z	.151	.151	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	M4	X	-.083	-.083	0	%100
2	M4	Z	.144	.144	0	%100
3	M10	X	-.211	-.211	0	%100
4	M10	Z	.366	.366	0	%100
5	M43	X	-.211	-.211	0	%100
6	M43	Z	.366	.366	0	%100
7	M46	X	-.421	-.421	0	%100
8	M46	Z	.729	.729	0	%100
9	M51B	X	-.234	-.234	0	%100
10	M51B	Z	.405	.405	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	-.14	-.14	0	%100
14	M76	Z	.243	.243	0	%100
15	M77	X	-.429	-.429	0	%100
16	M77	Z	.743	.743	0	%100
17	M80	X	-.452	-.452	0	%100
18	M80	Z	.783	.783	0	%100
19	M84	X	-.14	-.14	0	%100
20	M84	Z	.243	.243	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	0	0	0	%100
25	M101	X	-.182	-.182	0	%100
26	M101	Z	.315	.315	0	%100
27	M128A	X	-.083	-.083	0	%100
28	M128A	Z	.144	.144	0	%100
29	M129A	X	-.211	-.211	0	%100
30	M129A	Z	.366	.366	0	%100
31	M130A	X	-.211	-.211	0	%100
32	M130A	Z	.366	.366	0	%100
33	M131A	X	-.421	-.421	0	%100
34	M131A	Z	.729	.729	0	%100
35	M134A	X	0	0	0	%100
36	M134A	Z	0	0	0	%100
37	M135A	X	-.234	-.234	0	%100
38	M135A	Z	.405	.405	0	%100
39	M139A	X	-.14	-.14	0	%100
40	M139A	Z	.243	.243	0	%100
41	M140A	X	0	0	0	%100
42	M140A	Z	0	0	0	%100
43	M142A	X	0	0	0	%100
44	M142A	Z	0	0	0	%100
45	M144A	X	-.14	-.14	0	%100
46	M144A	Z	.243	.243	0	%100
47	M145A	X	-.429	-.429	0	%100
48	M145A	Z	.743	.743	0	%100
49	M147A	X	-.452	-.452	0	%100
50	M147A	Z	.783	.783	0	%100
51	M154A	X	-.333	-.333	0	%100
52	M154A	Z	.576	.576	0	%100
53	M155A	X	0	0	0	%100
54	M155A	Z	0	0	0	%100
55	M156A	X	0	0	0	%100
56	M156A	Z	0	0	0	%100
57	M157A	X	0	0	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,%]
58	M157A	Z	0	0	0	%100
59	M160A	X	-.234	-.234	0	%100
60	M160A	Z	.405	.405	0	%100
61	M161A	X	-.234	-.234	0	%100
62	M161A	Z	.405	.405	0	%100
63	M165A	X	-.562	-.562	0	%100
64	M165A	Z	.973	.973	0	%100
65	M166A	X	-.429	-.429	0	%100
66	M166A	Z	.743	.743	0	%100
67	M168A	X	-.452	-.452	0	%100
68	M168A	Z	.783	.783	0	%100
69	M170A	X	-.562	-.562	0	%100
70	M170A	Z	.973	.973	0	%100
71	M171A	X	-.429	-.429	0	%100
72	M171A	Z	.743	.743	0	%100
73	M173A	X	-.452	-.452	0	%100
74	M173A	Z	.783	.783	0	%100
75	M180A	X	-.246	-.246	0	%100
76	M180A	Z	.426	.426	0	%100
77	MP3A	X	-.222	-.222	0	%100
78	MP3A	Z	.385	.385	0	%100
79	MP4A	X	-.222	-.222	0	%100
80	MP4A	Z	.385	.385	0	%100
81	MP2A	X	-.222	-.222	0	%100
82	MP2A	Z	.385	.385	0	%100
83	MP1A	X	-.222	-.222	0	%100
84	MP1A	Z	.385	.385	0	%100
85	M189A	X	-.246	-.246	0	%100
86	M189A	Z	.426	.426	0	%100
87	MP3C	X	-.222	-.222	0	%100
88	MP3C	Z	.385	.385	0	%100
89	MP4C	X	-.222	-.222	0	%100
90	MP4C	Z	.385	.385	0	%100
91	MP2C	X	-.222	-.222	0	%100
92	MP2C	Z	.385	.385	0	%100
93	MP1C	X	-.222	-.222	0	%100
94	MP1C	Z	.385	.385	0	%100
95	M198A	X	0	0	0	%100
96	M198A	Z	0	0	0	%100
97	MP3B	X	-.222	-.222	0	%100
98	MP3B	Z	.385	.385	0	%100
99	MP4B	X	-.222	-.222	0	%100
100	MP4B	Z	.385	.385	0	%100
101	MP2B	X	-.222	-.222	0	%100
102	MP2B	Z	.385	.385	0	%100
103	MP1B	X	-.222	-.222	0	%100
104	MP1B	Z	.385	.385	0	%100
105	M112	X	-.202	-.202	0	%100
106	M112	Z	.35	.35	0	%100
107	M117	X	-.202	-.202	0	%100
108	M117	Z	.35	.35	0	%100
109	M122	X	0	0	0	%100
110	M122	Z	0	0	0	%100
111	M127	X	-.227	-.227	0	%100
112	M127	Z	.393	.393	0	%100
113	M128	X	-.227	-.227	0	%100
114	M128	Z	.393	.393	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,%]
115	M129	X	0	0	0	%100
116	M129	Z	0	0	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	M4	X	-.432	-.432	0	%100
2	M4	Z	.25	.25	0	%100
3	M10	X	-.122	-.122	0	%100
4	M10	Z	.07	.07	0	%100
5	M43	X	-.122	-.122	0	%100
6	M43	Z	.07	.07	0	%100
7	M46	X	-.243	-.243	0	%100
8	M46	Z	.14	.14	0	%100
9	M51B	X	-.54	-.54	0	%100
10	M51B	Z	.312	.312	0	%100
11	M52B	X	-.135	-.135	0	%100
12	M52B	Z	.078	.078	0	%100
13	M76	X	-.729	-.729	0	%100
14	M76	Z	.421	.421	0	%100
15	M77	X	-.991	-.991	0	%100
16	M77	Z	.572	.572	0	%100
17	M80	X	-1.043	-1.043	0	%100
18	M80	Z	.602	.602	0	%100
19	M84	X	-.729	-.729	0	%100
20	M84	Z	.421	.421	0	%100
21	M85	X	-.248	-.248	0	%100
22	M85	Z	.143	.143	0	%100
23	M91	X	-.261	-.261	0	%100
24	M91	Z	.151	.151	0	%100
25	M101	X	-.315	-.315	0	%100
26	M101	Z	.182	.182	0	%100
27	M128A	X	0	0	0	%100
28	M128A	Z	0	0	0	%100
29	M129A	X	-.488	-.488	0	%100
30	M129A	Z	.282	.282	0	%100
31	M130A	X	-.488	-.488	0	%100
32	M130A	Z	.282	.282	0	%100
33	M131A	X	-.973	-.973	0	%100
34	M131A	Z	.562	.562	0	%100
35	M134A	X	-.135	-.135	0	%100
36	M134A	Z	.078	.078	0	%100
37	M135A	X	-.135	-.135	0	%100
38	M135A	Z	.078	.078	0	%100
39	M139A	X	0	0	0	%100
40	M139A	Z	0	0	0	%100
41	M140A	X	-.248	-.248	0	%100
42	M140A	Z	.143	.143	0	%100
43	M142A	X	-.261	-.261	0	%100
44	M142A	Z	.151	.151	0	%100
45	M144A	X	0	0	0	%100
46	M144A	Z	0	0	0	%100
47	M145A	X	-.248	-.248	0	%100
48	M145A	Z	.143	.143	0	%100
49	M147A	X	-.261	-.261	0	%100
50	M147A	Z	.151	.151	0	%100
51	M154A	X	-.432	-.432	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,%]
52	M154A	Z	.25	.25	0	%100
53	M155A	X	-.122	-.122	0	%100
54	M155A	Z	.07	.07	0	%100
55	M156A	X	-.122	-.122	0	%100
56	M156A	Z	.07	.07	0	%100
57	M157A	X	-.243	-.243	0	%100
58	M157A	Z	.14	.14	0	%100
59	M160A	X	-.135	-.135	0	%100
60	M160A	Z	.078	.078	0	%100
61	M161A	X	-.54	-.54	0	%100
62	M161A	Z	.312	.312	0	%100
63	M165A	X	-.729	-.729	0	%100
64	M165A	Z	.421	.421	0	%100
65	M166A	X	-.248	-.248	0	%100
66	M166A	Z	.143	.143	0	%100
67	M168A	X	-.261	-.261	0	%100
68	M168A	Z	.151	.151	0	%100
69	M170A	X	-.729	-.729	0	%100
70	M170A	Z	.421	.421	0	%100
71	M171A	X	-.991	-.991	0	%100
72	M171A	Z	.572	.572	0	%100
73	M173A	X	-1.043	-1.043	0	%100
74	M173A	Z	.602	.602	0	%100
75	M180A	X	-.142	-.142	0	%100
76	M180A	Z	.082	.082	0	%100
77	MP3A	X	-.385	-.385	0	%100
78	MP3A	Z	.222	.222	0	%100
79	MP4A	X	-.385	-.385	0	%100
80	MP4A	Z	.222	.222	0	%100
81	MP2A	X	-.385	-.385	0	%100
82	MP2A	Z	.222	.222	0	%100
83	MP1A	X	-.385	-.385	0	%100
84	MP1A	Z	.222	.222	0	%100
85	M189A	X	-.567	-.567	0	%100
86	M189A	Z	.328	.328	0	%100
87	MP3C	X	-.385	-.385	0	%100
88	MP3C	Z	.222	.222	0	%100
89	MP4C	X	-.385	-.385	0	%100
90	MP4C	Z	.222	.222	0	%100
91	MP2C	X	-.385	-.385	0	%100
92	MP2C	Z	.222	.222	0	%100
93	MP1C	X	-.385	-.385	0	%100
94	MP1C	Z	.222	.222	0	%100
95	M198A	X	-.142	-.142	0	%100
96	M198A	Z	.082	.082	0	%100
97	MP3B	X	-.385	-.385	0	%100
98	MP3B	Z	.222	.222	0	%100
99	MP4B	X	-.385	-.385	0	%100
100	MP4B	Z	.222	.222	0	%100
101	MP2B	X	-.385	-.385	0	%100
102	MP2B	Z	.222	.222	0	%100
103	MP1B	X	-.385	-.385	0	%100
104	MP1B	Z	.222	.222	0	%100
105	M112	X	-.117	-.117	0	%100
106	M112	Z	.067	.067	0	%100
107	M117	X	-.466	-.466	0	%100
108	M117	Z	.269	.269	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,%]
109	M122	X	-.117	-.117	0	%100
110	M122	Z	.067	.067	0	%100
111	M127	X	-.524	-.524	0	%100
112	M127	Z	.302	.302	0	%100
113	M128	X	-.131	-.131	0	%100
114	M128	Z	.076	.076	0	%100
115	M129	X	-.131	-.131	0	%100
116	M129	Z	.076	.076	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	M4	X	-.665	-.665	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	0	0	0	%100
9	M51B	X	-.468	-.468	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	-.468	-.468	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	-1.123	-1.123	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	-.858	-.858	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	-.904	-.904	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	-1.123	-1.123	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	-.858	-.858	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	-.904	-.904	0	%100
24	M91	Z	0	0	0	%100
25	M101	X	-.364	-.364	0	%100
26	M101	Z	0	0	0	%100
27	M128A	X	-.166	-.166	0	%100
28	M128A	Z	0	0	0	%100
29	M129A	X	-.422	-.422	0	%100
30	M129A	Z	0	0	0	%100
31	M130A	X	-.422	-.422	0	%100
32	M130A	Z	0	0	0	%100
33	M131A	X	-.842	-.842	0	%100
34	M131A	Z	0	0	0	%100
35	M134A	X	-.468	-.468	0	%100
36	M134A	Z	0	0	0	%100
37	M135A	X	0	0	0	%100
38	M135A	Z	0	0	0	%100
39	M139A	X	-.281	-.281	0	%100
40	M139A	Z	0	0	0	%100
41	M140A	X	-.858	-.858	0	%100
42	M140A	Z	0	0	0	%100
43	M142A	X	-.904	-.904	0	%100
44	M142A	Z	0	0	0	%100
45	M144A	X	-.281	-.281	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,%]
46	M144A	Z	0	0	0	%100
47	M145A	X	0	0	0	%100
48	M145A	Z	0	0	0	%100
49	M147A	X	0	0	0	%100
50	M147A	Z	0	0	0	%100
51	M154A	X	-.166	-.166	0	%100
52	M154A	Z	0	0	0	%100
53	M155A	X	-.422	-.422	0	%100
54	M155A	Z	0	0	0	%100
55	M156A	X	-.422	-.422	0	%100
56	M156A	Z	0	0	0	%100
57	M157A	X	-.842	-.842	0	%100
58	M157A	Z	0	0	0	%100
59	M160A	X	0	0	0	%100
60	M160A	Z	0	0	0	%100
61	M161A	X	-.468	-.468	0	%100
62	M161A	Z	0	0	0	%100
63	M165A	X	-.281	-.281	0	%100
64	M165A	Z	0	0	0	%100
65	M166A	X	0	0	0	%100
66	M166A	Z	0	0	0	%100
67	M168A	X	0	0	0	%100
68	M168A	Z	0	0	0	%100
69	M170A	X	-.281	-.281	0	%100
70	M170A	Z	0	0	0	%100
71	M171A	X	-.858	-.858	0	%100
72	M171A	Z	0	0	0	%100
73	M173A	X	-.904	-.904	0	%100
74	M173A	Z	0	0	0	%100
75	M180A	X	0	0	0	%100
76	M180A	Z	0	0	0	%100
77	MP3A	X	-.445	-.445	0	%100
78	MP3A	Z	0	0	0	%100
79	MP4A	X	-.445	-.445	0	%100
80	MP4A	Z	0	0	0	%100
81	MP2A	X	-.445	-.445	0	%100
82	MP2A	Z	0	0	0	%100
83	MP1A	X	-.445	-.445	0	%100
84	MP1A	Z	0	0	0	%100
85	M189A	X	-.491	-.491	0	%100
86	M189A	Z	0	0	0	%100
87	MP3C	X	-.445	-.445	0	%100
88	MP3C	Z	0	0	0	%100
89	MP4C	X	-.445	-.445	0	%100
90	MP4C	Z	0	0	0	%100
91	MP2C	X	-.445	-.445	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	-.445	-.445	0	%100
94	MP1C	Z	0	0	0	%100
95	M198A	X	-.491	-.491	0	%100
96	M198A	Z	0	0	0	%100
97	MP3B	X	-.445	-.445	0	%100
98	MP3B	Z	0	0	0	%100
99	MP4B	X	-.445	-.445	0	%100
100	MP4B	Z	0	0	0	%100
101	MP2B	X	-.445	-.445	0	%100
102	MP2B	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,%]
103	MP1B	X	-.445	-.445	0	%100
104	MP1B	Z	0	0	0	%100
105	M112	X	0	0	0	%100
106	M112	Z	0	0	0	%100
107	M117	X	-.404	-.404	0	%100
108	M117	Z	0	0	0	%100
109	M122	X	-.404	-.404	0	%100
110	M122	Z	0	0	0	%100
111	M127	X	-.453	-.453	0	%100
112	M127	Z	0	0	0	%100
113	M128	X	0	0	0	%100
114	M128	Z	0	0	0	%100
115	M129	X	-.453	-.453	0	%100
116	M129	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	M4	X	-.432	-.432	0	%100
2	M4	Z	-.25	-.25	0	%100
3	M10	X	-.122	-.122	0	%100
4	M10	Z	-.07	-.07	0	%100
5	M43	X	-.122	-.122	0	%100
6	M43	Z	-.07	-.07	0	%100
7	M46	X	-.243	-.243	0	%100
8	M46	Z	-.14	-.14	0	%100
9	M51B	X	-.135	-.135	0	%100
10	M51B	Z	-.078	-.078	0	%100
11	M52B	X	-.54	-.54	0	%100
12	M52B	Z	-.312	-.312	0	%100
13	M76	X	-.729	-.729	0	%100
14	M76	Z	-.421	-.421	0	%100
15	M77	X	-.248	-.248	0	%100
16	M77	Z	-.143	-.143	0	%100
17	M80	X	-.261	-.261	0	%100
18	M80	Z	-.151	-.151	0	%100
19	M84	X	-.729	-.729	0	%100
20	M84	Z	-.421	-.421	0	%100
21	M85	X	-.991	-.991	0	%100
22	M85	Z	-.572	-.572	0	%100
23	M91	X	-1.043	-1.043	0	%100
24	M91	Z	-.602	-.602	0	%100
25	M101	X	-.315	-.315	0	%100
26	M101	Z	-.182	-.182	0	%100
27	M128A	X	-.432	-.432	0	%100
28	M128A	Z	-.25	-.25	0	%100
29	M129A	X	-.122	-.122	0	%100
30	M129A	Z	-.07	-.07	0	%100
31	M130A	X	-.122	-.122	0	%100
32	M130A	Z	-.07	-.07	0	%100
33	M131A	X	-.243	-.243	0	%100
34	M131A	Z	-.14	-.14	0	%100
35	M134A	X	-.54	-.54	0	%100
36	M134A	Z	-.312	-.312	0	%100
37	M135A	X	-.135	-.135	0	%100
38	M135A	Z	-.078	-.078	0	%100
39	M139A	X	-.729	-.729	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,%]
40	M139A	Z	-.421	-.421	0	%100
41	M140A	X	-.991	-.991	0	%100
42	M140A	Z	-.572	-.572	0	%100
43	M142A	X	-1.043	-1.043	0	%100
44	M142A	Z	-.602	-.602	0	%100
45	M144A	X	-.729	-.729	0	%100
46	M144A	Z	-.421	-.421	0	%100
47	M145A	X	-.248	-.248	0	%100
48	M145A	Z	-.143	-.143	0	%100
49	M147A	X	-.261	-.261	0	%100
50	M147A	Z	-.151	-.151	0	%100
51	M154A	X	0	0	0	%100
52	M154A	Z	0	0	0	%100
53	M155A	X	-.488	-.488	0	%100
54	M155A	Z	-.282	-.282	0	%100
55	M156A	X	-.488	-.488	0	%100
56	M156A	Z	-.282	-.282	0	%100
57	M157A	X	-.973	-.973	0	%100
58	M157A	Z	-.562	-.562	0	%100
59	M160A	X	-.135	-.135	0	%100
60	M160A	Z	-.078	-.078	0	%100
61	M161A	X	-.135	-.135	0	%100
62	M161A	Z	-.078	-.078	0	%100
63	M165A	X	0	0	0	%100
64	M165A	Z	0	0	0	%100
65	M166A	X	-.248	-.248	0	%100
66	M166A	Z	-.143	-.143	0	%100
67	M168A	X	-.261	-.261	0	%100
68	M168A	Z	-.151	-.151	0	%100
69	M170A	X	0	0	0	%100
70	M170A	Z	0	0	0	%100
71	M171A	X	-.248	-.248	0	%100
72	M171A	Z	-.143	-.143	0	%100
73	M173A	X	-.261	-.261	0	%100
74	M173A	Z	-.151	-.151	0	%100
75	M180A	X	-.142	-.142	0	%100
76	M180A	Z	-.082	-.082	0	%100
77	MP3A	X	-.385	-.385	0	%100
78	MP3A	Z	-.222	-.222	0	%100
79	MP4A	X	-.385	-.385	0	%100
80	MP4A	Z	-.222	-.222	0	%100
81	MP2A	X	-.385	-.385	0	%100
82	MP2A	Z	-.222	-.222	0	%100
83	MP1A	X	-.385	-.385	0	%100
84	MP1A	Z	-.222	-.222	0	%100
85	M189A	X	-.142	-.142	0	%100
86	M189A	Z	-.082	-.082	0	%100
87	MP3C	X	-.385	-.385	0	%100
88	MP3C	Z	-.222	-.222	0	%100
89	MP4C	X	-.385	-.385	0	%100
90	MP4C	Z	-.222	-.222	0	%100
91	MP2C	X	-.385	-.385	0	%100
92	MP2C	Z	-.222	-.222	0	%100
93	MP1C	X	-.385	-.385	0	%100
94	MP1C	Z	-.222	-.222	0	%100
95	M198A	X	-.567	-.567	0	%100
96	M198A	Z	-.328	-.328	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,%]
97	MP3B	X	-.385	-.385	0	%100
98	MP3B	Z	-.222	-.222	0	%100
99	MP4B	X	-.385	-.385	0	%100
100	MP4B	Z	-.222	-.222	0	%100
101	MP2B	X	-.385	-.385	0	%100
102	MP2B	Z	-.222	-.222	0	%100
103	MP1B	X	-.385	-.385	0	%100
104	MP1B	Z	-.222	-.222	0	%100
105	M112	X	-.117	-.117	0	%100
106	M112	Z	-.067	-.067	0	%100
107	M117	X	-.117	-.117	0	%100
108	M117	Z	-.067	-.067	0	%100
109	M122	X	-.466	-.466	0	%100
110	M122	Z	-.269	-.269	0	%100
111	M127	X	-.131	-.131	0	%100
112	M127	Z	-.076	-.076	0	%100
113	M128	X	-.131	-.131	0	%100
114	M128	Z	-.076	-.076	0	%100
115	M129	X	-.524	-.524	0	%100
116	M129	Z	-.302	-.302	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	M4	X	-.083	-.083	0	%100
2	M4	Z	-.144	-.144	0	%100
3	M10	X	-.211	-.211	0	%100
4	M10	Z	-.366	-.366	0	%100
5	M43	X	-.211	-.211	0	%100
6	M43	Z	-.366	-.366	0	%100
7	M46	X	-.421	-.421	0	%100
8	M46	Z	-.729	-.729	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	-.234	-.234	0	%100
12	M52B	Z	-.405	-.405	0	%100
13	M76	X	-.14	-.14	0	%100
14	M76	Z	-.243	-.243	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	-.14	-.14	0	%100
20	M84	Z	-.243	-.243	0	%100
21	M85	X	-.429	-.429	0	%100
22	M85	Z	-.743	-.743	0	%100
23	M91	X	-.452	-.452	0	%100
24	M91	Z	-.783	-.783	0	%100
25	M101	X	-.182	-.182	0	%100
26	M101	Z	-.315	-.315	0	%100
27	M128A	X	-.333	-.333	0	%100
28	M128A	Z	-.576	-.576	0	%100
29	M129A	X	0	0	0	%100
30	M129A	Z	0	0	0	%100
31	M130A	X	0	0	0	%100
32	M130A	Z	0	0	0	%100
33	M131A	X	0	0	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,%]
34	M131A	Z	0	0	0	%100
35	M134A	X	-.234	-.234	0	%100
36	M134A	Z	-.405	-.405	0	%100
37	M135A	X	-.234	-.234	0	%100
38	M135A	Z	-.405	-.405	0	%100
39	M139A	X	-.562	-.562	0	%100
40	M139A	Z	-.973	-.973	0	%100
41	M140A	X	-.429	-.429	0	%100
42	M140A	Z	-.743	-.743	0	%100
43	M142A	X	-.452	-.452	0	%100
44	M142A	Z	-.783	-.783	0	%100
45	M144A	X	-.562	-.562	0	%100
46	M144A	Z	-.973	-.973	0	%100
47	M145A	X	-.429	-.429	0	%100
48	M145A	Z	-.743	-.743	0	%100
49	M147A	X	-.452	-.452	0	%100
50	M147A	Z	-.783	-.783	0	%100
51	M154A	X	-.083	-.083	0	%100
52	M154A	Z	-.144	-.144	0	%100
53	M155A	X	-.211	-.211	0	%100
54	M155A	Z	-.366	-.366	0	%100
55	M156A	X	-.211	-.211	0	%100
56	M156A	Z	-.366	-.366	0	%100
57	M157A	X	-.421	-.421	0	%100
58	M157A	Z	-.729	-.729	0	%100
59	M160A	X	-.234	-.234	0	%100
60	M160A	Z	-.405	-.405	0	%100
61	M161A	X	0	0	0	%100
62	M161A	Z	0	0	0	%100
63	M165A	X	-.14	-.14	0	%100
64	M165A	Z	-.243	-.243	0	%100
65	M166A	X	-.429	-.429	0	%100
66	M166A	Z	-.743	-.743	0	%100
67	M168A	X	-.452	-.452	0	%100
68	M168A	Z	-.783	-.783	0	%100
69	M170A	X	-.14	-.14	0	%100
70	M170A	Z	-.243	-.243	0	%100
71	M171A	X	0	0	0	%100
72	M171A	Z	0	0	0	%100
73	M173A	X	0	0	0	%100
74	M173A	Z	0	0	0	%100
75	M180A	X	-.246	-.246	0	%100
76	M180A	Z	-.426	-.426	0	%100
77	MP3A	X	-.222	-.222	0	%100
78	MP3A	Z	-.385	-.385	0	%100
79	MP4A	X	-.222	-.222	0	%100
80	MP4A	Z	-.385	-.385	0	%100
81	MP2A	X	-.222	-.222	0	%100
82	MP2A	Z	-.385	-.385	0	%100
83	MP1A	X	-.222	-.222	0	%100
84	MP1A	Z	-.385	-.385	0	%100
85	M189A	X	0	0	0	%100
86	M189A	Z	0	0	0	%100
87	MP3C	X	-.222	-.222	0	%100
88	MP3C	Z	-.385	-.385	0	%100
89	MP4C	X	-.222	-.222	0	%100
90	MP4C	Z	-.385	-.385	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,%]
91	MP2C	X	-.222	-.222	0	%100
92	MP2C	Z	-.385	-.385	0	%100
93	MP1C	X	-.222	-.222	0	%100
94	MP1C	Z	-.385	-.385	0	%100
95	M198A	X	-.246	-.246	0	%100
96	M198A	Z	-.426	-.426	0	%100
97	MP3B	X	-.222	-.222	0	%100
98	MP3B	Z	-.385	-.385	0	%100
99	MP4B	X	-.222	-.222	0	%100
100	MP4B	Z	-.385	-.385	0	%100
101	MP2B	X	-.222	-.222	0	%100
102	MP2B	Z	-.385	-.385	0	%100
103	MP1B	X	-.222	-.222	0	%100
104	MP1B	Z	-.385	-.385	0	%100
105	M112	X	-.202	-.202	0	%100
106	M112	Z	-.35	-.35	0	%100
107	M117	X	0	0	0	%100
108	M117	Z	0	0	0	%100
109	M122	X	-.202	-.202	0	%100
110	M122	Z	-.35	-.35	0	%100
111	M127	X	0	0	0	%100
112	M127	Z	0	0	0	%100
113	M128	X	-.227	-.227	0	%100
114	M128	Z	-.393	-.393	0	%100
115	M129	X	-.227	-.227	0	%100
116	M129	Z	-.393	-.393	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M134A	Y	-1.879	-4.428	0	.832
2	M134A	Y	-4.428	-7.042	.832	1.665
3	M134A	Y	-7.042	-8.256	1.665	2.497
4	M134A	Y	-8.256	-6.578	2.497	3.329
5	M134A	Y	-6.578	-3.47	3.329	4.162
6	M135A	Y	-3.463	-6.545	0	.832
7	M135A	Y	-6.545	-8.189	.832	1.665
8	M135A	Y	-8.189	-6.9	1.665	2.497
9	M135A	Y	-6.9	-4.227	2.497	3.329
10	M135A	Y	-4.227	-1.665	3.329	4.162
11	M160A	Y	-1.884	-4.426	0	.832
12	M160A	Y	-4.426	-7.044	.832	1.665
13	M160A	Y	-7.044	-8.26	1.665	2.497
14	M160A	Y	-8.26	-6.573	2.497	3.329
15	M160A	Y	-6.573	-3.462	3.329	4.162
16	M161A	Y	-3.463	-6.545	0	.832
17	M161A	Y	-6.545	-8.189	.832	1.665
18	M161A	Y	-8.189	-6.902	1.665	2.497
19	M161A	Y	-6.902	-4.228	2.497	3.329
20	M161A	Y	-4.228	-1.661	3.329	4.162
21	M51B	Y	-1.884	-4.426	0	.832
22	M51B	Y	-4.426	-7.044	.832	1.665
23	M51B	Y	-7.044	-8.26	1.665	2.497
24	M51B	Y	-8.26	-6.573	2.497	3.329
25	M51B	Y	-6.573	-3.462	3.329	4.162
26	M52B	Y	-3.463	-6.545	0	.832
27	M52B	Y	-6.545	-8.189	.832	1.665

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
28	M52B	Y	-8.189	-6.902	1.665	2.497
29	M52B	Y	-6.902	-4.228	2.497	3.329
30	M52B	Y	-4.228	-1.661	3.329	4.162

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M134A	Y	-4.477	-10.549	0	.832
2	M134A	Y	-10.549	-16.775	.832	1.665
3	M134A	Y	-16.775	-19.669	1.665	2.497
4	M134A	Y	-19.669	-15.671	2.497	3.329
5	M134A	Y	-15.671	-8.266	3.329	4.162
6	M135A	Y	-8.249	-15.591	0	.832
7	M135A	Y	-15.591	-19.508	.832	1.665
8	M135A	Y	-19.508	-16.437	1.665	2.497
9	M135A	Y	-16.437	-10.07	2.497	3.329
10	M135A	Y	-10.07	-3.968	3.329	4.162
11	M160A	Y	-4.489	-10.544	0	.832
12	M160A	Y	-10.544	-16.782	.832	1.665
13	M160A	Y	-16.782	-19.679	1.665	2.497
14	M160A	Y	-19.679	-15.659	2.497	3.329
15	M160A	Y	-15.659	-8.247	3.329	4.162
16	M161A	Y	-8.25	-15.591	0	.832
17	M161A	Y	-15.591	-19.508	.832	1.665
18	M161A	Y	-19.508	-16.442	1.665	2.497
19	M161A	Y	-16.442	-10.073	2.497	3.329
20	M161A	Y	-10.073	-3.958	3.329	4.162
21	M51B	Y	-4.489	-10.544	0	.832
22	M51B	Y	-10.544	-16.782	.832	1.665
23	M51B	Y	-16.782	-19.679	1.665	2.497
24	M51B	Y	-19.679	-15.659	2.497	3.329
25	M51B	Y	-15.659	-8.247	3.329	4.162
26	M52B	Y	-8.25	-15.591	0	.832
27	M52B	Y	-15.591	-19.508	.832	1.665
28	M52B	Y	-19.508	-16.442	1.665	2.497
29	M52B	Y	-16.442	-10.073	2.497	3.329
30	M52B	Y	-10.073	-3.958	3.329	4.162

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Dis...	Magnitude[ksf]
1	N179A	N180A	N203A	N201A	Y	Tw...	-.005
2	N212A	N211A	N233A	N235A	Y	Tw...	-.005
3	N7	N6	N87C	N87B	Y	Tw...	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Dis...	Magnitude[ksf]
1	N179A	N180A	N203A	N201A	Y	Tw...	-.012
2	N212A	N211A	N233A	N235A	Y	Tw...	-.012
3	N7	N6	N87C	N87B	Y	Tw...	-.012

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N3	max	867.65	10	3008.6	13	1728.198	1	5.732	13	1.025	4	.077	2
2		min	-875.223	4	554.291	7	-2051.028	7	.206	7	-1.055	10	-.286	20
3	N177A	max	1230.462	9	2742.6...	21	1230.298	1	-.305	3	1.085	12	-.203	3
4		min	-1499.835	3	513.255	3	-1053.25	7	-2.865	21	-1.107	6	-4.571	21
5	N209A	max	1629.334	11	2822.2...	17	944.409	1	-.054	11	.973	8	4.956	17
6		min	-1352.174	5	530.104	11	-798.628	7	-2.661	17	-1	2	.4	11
7	Totals:	max	3586.351	10	8186.3...	24	3902.905	1						
8		min	-3586.351	4	3098.3...	6	-3902.906	7						

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear..	Loc[ft]	Dir	LC	phi*Pn...	phi*Pnt...	phi*Mn...	phi*Mn...	Cb	Eqn
1	M4	HSS4X4X4	.356	0	13	.096	0	y	24	124657..	139518	16.181	16.181	3..	H1-1b
2	M10	HSS4X4X4	.186	2.375	14	.054	2.375	y	13	136263..	139518	16.181	16.181	1..	H1-1b
3	M43	HSS4X4X4	.190	0	24	.063	0	y	13	136263..	139518	16.181	16.181	1..	H1-1b
4	M46	PL1/2x6_HRA	.132	.516	1	.217	.516	y	16	122768..	145800	2.279	18.225	1..	H1-1b
5	M51B	L2x2x3	.102	2.211	20	.014	4.162	y	16	9823.1...	23392.8	.558	1.077	1..	H2-1
6	M52B	L2x2x3	.105	1.907	18	.014	0	y	21	9823.1...	23392.8	.558	1.077	1..	H2-1
7	M76	PL3/8x6	.154	0	10	.361	0	y	13	70677....	72900	.57	9.113	1..	H1-1b
8	M77	PL3/8x6	.135	.167	8	.381	0	y	13	71601....	72900	.57	9.113	1..	H1-1b
9	M80	PL1/2x6_HRA	.047	.112	1	.040	0	y	11	145504..	145800	2.279	18.225	1..	H1-1b
10	M84	PL3/8x6	.144	0	4	.278	0	y	21	70677....	72900	.57	9.113	1..	H1-1b
11	M85	PL3/8x6	.164	.167	6	.404	0	y	24	71601....	72900	.57	9.113	1..	H1-1b
12	M91	PL1/2x6_HRA	.046	.112	1	.056	.112	y	9	145504..	145800	2.279	18.225	1..	H1-1b
13	M101	PIPE_2.0	.077	2	7	.032	2		3	28843....	32130	1.872	1.872	1	H1-1b
14	M128A	HSS4X4X4	.336	0	22	.087	0	y	44	124657..	139518	16.181	16.181	3..	H1-1b
15	M129A	HSS4X4X4	.181	2.375	22	.052	2.375	y	21	136263..	139518	16.181	16.181	1..	H1-1b
16	M130A	HSS4X4X4	.187	0	20	.062	0	y	21	136263..	139518	16.181	16.181	1..	H1-1b
17	M131A	PL1/2x6_HRA	.124	.516	9	.243	.516	y	48	122768..	145800	2.279	18.225	1..	H1-1b
18	M134A	L2x2x3	.102	2.211	17	.014	4.162	y	24	9823.1...	23392.8	.558	1.076	1..	H2-1
19	M135A	L2x2x3	.106	1.907	13	.014	0	y	17	9823.1...	23392.8	.558	1.076	1..	H2-1
20	M139A	PL3/8x6	.171	0	7	.355	0	y	21	70677....	72900	.57	9.113	1..	H1-1b
21	M140A	PL3/8x6	.123	.167	4	.369	0	y	21	71601....	72900	.57	9.113	1..	H1-1b
22	M142A	PL1/2x6_HRA	.044	.112	9	.044	0	y	7	145504..	145800	2.279	18.225	1..	H1-1b
23	M144A	PL3/8x6	.165	0	12	.282	0	y	17	70677....	72900	.57	9.113	1..	H1-1b
24	M145A	PL3/8x6	.159	.167	2	.400	0	y	20	71601....	72900	.57	9.113	1..	H1-1b
25	M147A	PL1/2x6_HRA	.043	.112	9	.104	0	y	47	145504..	145800	2.279	18.225	1..	H1-1b
26	M154A	HSS4X4X4	.351	0	18	.087	0	y	17	124657..	139518	16.181	16.181	3..	H1-1b
27	M155A	HSS4X4X4	.187	2.375	18	.054	2.375	y	17	136263..	139518	16.181	16.181	1..	H1-1b
28	M156A	HSS4X4X4	.191	0	16	.063	0	y	17	136263..	139518	16.181	16.181	1..	H1-1b
29	M157A	PL1/2x6_HRA	.130	.516	5	.203	.516	y	20	122768..	145800	2.279	18.225	1..	H1-1b
30	M160A	L2x2x3	.102	2.211	24	.014	4.162	y	20	9823.1...	23392.8	.558	1.077	1..	H2-1
31	M161A	L2x2x3	.105	1.907	21	.015	0	y	13	9823.1...	23392.8	.558	1.076	1..	H2-1
32	M165A	PL3/8x6	.155	0	3	.359	0	y	17	70677....	72900	.57	9.113	1..	H1-1b
33	M166A	PL3/8x6	.138	.167	12	.381	0	y	17	71601....	72900	.57	9.113	1..	H1-1b
34	M168A	PL1/2x6_HRA	.046	.112	5	.042	0	y	3	145504..	145800	2.279	18.225	1..	H1-1b
35	M170A	PL3/8x6	.152	0	8	.287	0	y	13	70677....	72900	.57	9.113	1..	H1-1b
36	M171A	PL3/8x6	.158	.167	10	.408	0	y	16	71601....	72900	.57	9.113	1..	H1-1b
37	M173A	PL1/2x6_HRA	.045	.112	5	.063	.112	y	1	145504..	145800	2.279	18.225	1..	H1-1b
38	M180A	PIPE_3.0	.176	4.167	18	.065	8.333		21	28250....	65205	5.749	5.749	2..	H1-1b
39	MP3A	PIPE_2.0	.229	3.888	5	.073	3.888		7	20804....	32130	1.872	1.872	1..	H1-1b
40	MP4A	PIPE_2.0	.208	3.888	17	.053	1.442		7	20804....	32130	1.872	1.872	1..	H1-1b
41	MP2A	PIPE_2.0	.286	3.888	3	.099	1.38		9	20804....	32130	1.872	1.872	2..	H1-1b
42	MP1A	PIPE_2.0	.299	3.888	21	.086	1.944		8	20804....	32130	1.872	1.872	2..	H1-1b
43	M189A	PIPE_3.0	.179	4.167	14	.068	8.333		17	28250....	65205	5.749	5.749	2..	H1-1b
44	MP3C	PIPE_2.0	.235	3.888	1	.070	3.888		2	20804....	32130	1.872	1.872	2..	H1-1b

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear..	Loc[ft]	Dir	LC	phi*Pn...	phi*Pnt...	phi*Mn...	phi*Mn...	Cb	Eqn
45	MP4C	PIPE_2.0	.213	3.888	1	.050	3.888		2	20804....	32130	1.872	1.872	2..	H1-1b
46	MP2C	PIPE_2.0	.302	3.888	6	.105	3.888		6	20804....	32130	1.872	1.872	2..	H1-1b
47	MP1C	PIPE_2.0	.323	3.888	17	.083	1.944		4	20804....	32130	1.872	1.872	2..	H1-1b
48	M198A	PIPE_3.0	.174	4.167	22	.065	8.333		1	28250....	65205	5.749	5.749	2..	H1-1b
49	MP3B	PIPE_2.0	.223	3.888	8	.067	3.888		11	20804....	32130	1.872	1.872	1..	H1-1b
50	MP4B	PIPE_2.0	.201	3.888	21	.047	3.951		4	20804....	32130	1.872	1.872	1..	H1-1b
51	MP2B	PIPE_2.0	.306	3.888	1	.101	3.888		2	20804....	32130	1.872	1.872	1..	H1-1b
52	MP1B	PIPE_2.0	.318	3.888	13	.087	3.888		12	20804....	32130	1.872	1.872	2..	H1-1b
53	M112	PIPE_2.5	.158	2.474	4	.081	2.344		6	14558....	50715	3.596	3.596	2..	H1-1b
54	M117	PIPE_2.5	.166	2.474	12	.076	2.344		2	14558....	50715	3.596	3.596	2..	H1-1b
55	M122	PIPE_2.5	.156	2.474	8	.077	9.635		1	14558....	50715	3.596	3.596	2..	H1-1b
56	M127	L3X3X4	.297	0	6	.023	3.143	y	7	37485....	46656	1.688	3.756	2..	H2-1
57	M128	L3X3X4	.275	0	10	.021	3.143	y	11	37485....	46656	1.688	3.756	2..	H2-1
58	M129	L3X3X4	.285	0	2	.022	3.143	y	3	37485....	46656	1.688	3.756	2..	H2-1

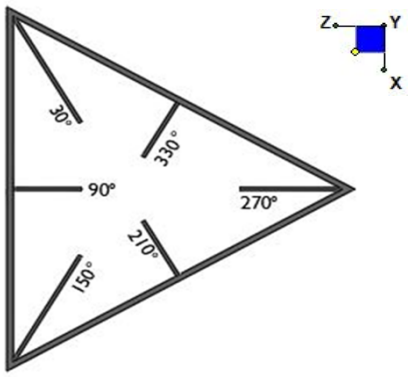
Client:	Verizon	Date:	2/19/2021
Site Name:	GLASTONBURY NEIPSIC CT		
Project No.	20777627A		
Title:	Antenna Mount Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

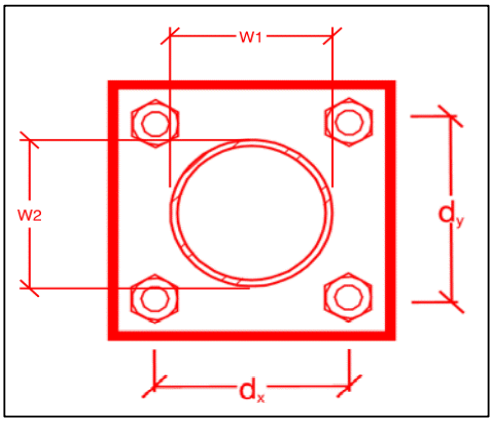
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N177A	30
N209A	150
N3	270



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)* :	6
Bolt Type:	A325N
Bolt Diameter (in):	0.625
Required Tensile Strength (kips):	26.0
Required Shear Strength (kips):	5.3
Tensile Strength / bolt (kips):	20.7
Shear Strength / bolt (kips):	12.4
Tensile Capacity Overall:	**31.3%***
Shear Capacity Overall:	**10.6%**



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

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:	Rect
Plate Width (in):	8
Plate Height (in):	8
W1 (in):	4
W2 (in):	4
Fy (ksi, plate):	36
t_{Plate} (in):	0.75
Weld Size (1/16 in):	6
Phi*Rn (kip/in):	8.35
Required Weld Strength (kip/in):	3.24
Plate Bending Capacity:	**31.7%**
Weld Capacity:	**38.8%**

Max Plate Bending Strengths

Mu_{xx} *(kip-in)* :	11.5
Phi*Mn_{xx} *(kip-in)* :	36.5
Mu_{yy} *(kip-in)* :	0.1
Phi*Mn_{yy} *(kip-in)* :	36.5

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: Insta new cable guide (Site Pro 1 Part #: 120-123/317 or EOR approved equal)

_____

_____

_____

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: 469043-VZW - GLASTONBURY NEIPSIC CT

Sector: **A**

Structure Type: Monopole

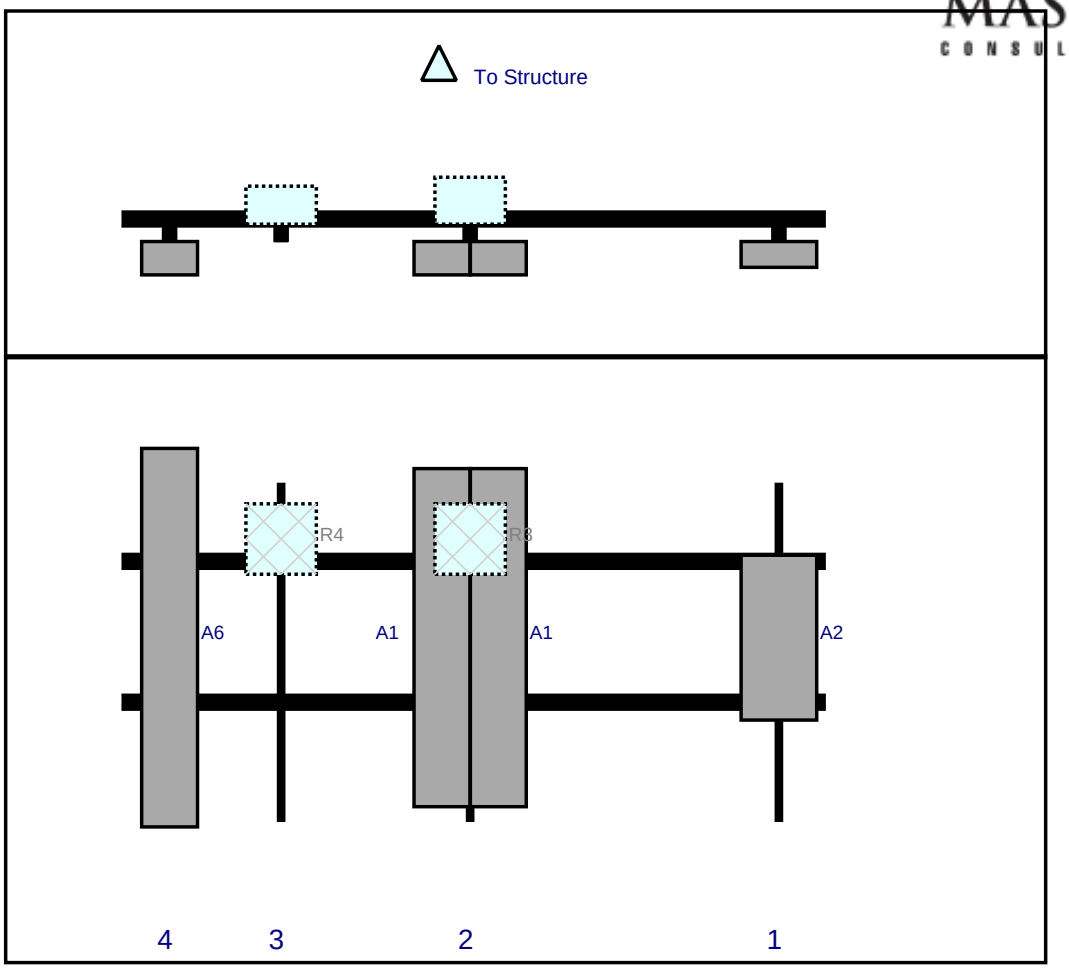
Mount Elev: 88.00

2/19/2021

Page: 1

Plan View

Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	VZS01	35.1	16.1	140	1	a	Front	33	0	Added	
A1	NHH-65B-R2B	72	11.9	74.25	2	a	Front	33	6	Added	
A1	NHH-65B-R2B	72	11.9	74.25	2	b	Front	33	-6	Added	
R3	B2/B66A RRH-BR049	15	15	74.25	2	a	Behind	12	0	Added	
R4	B5/B13 RRH-BR04C	15	15	34	3	a	Behind	12	0	Added	
A6	LNX-6514DS-A1M	80.6	11.9	10.25	4	a	Front	33	0	Retained	01/10/2021

Sector: **B**

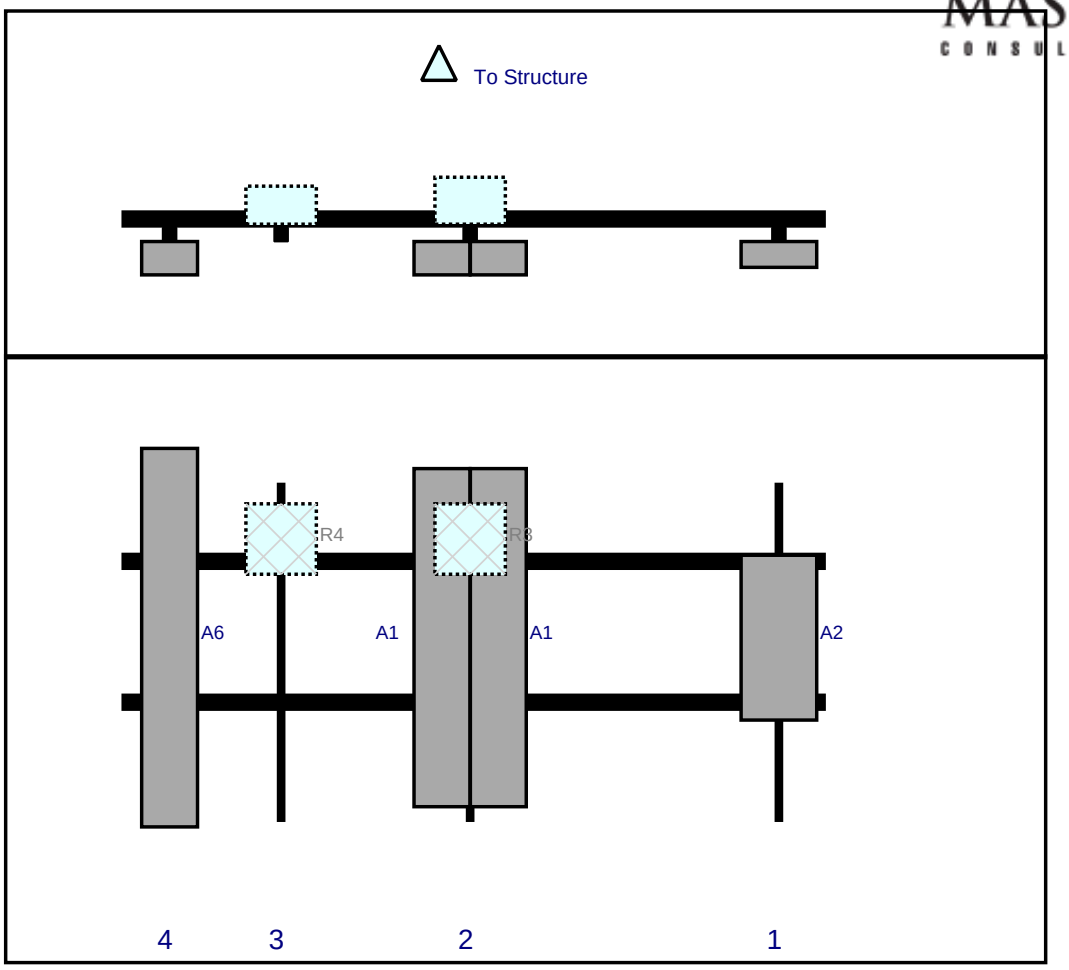
Structure Type: Monopole

Mount Elev: 88.00

2/19/2021

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
A2	VZS01	35.1	16.1	140	1	a	Front	33	0	Added	
A1	NHH-65B-R2B	72	11.9	74.25	2	a	Front	33	6	Added	
A1	NHH-65B-R2B	72	11.9	74.25	2	b	Front	33	-6	Added	
R3	B2/B66A RRH-BR049	15	15	74.25	2	a	Behind	12	0	Added	
R4	B5/B13 RRH-BR04C	15	15	34	3	a	Behind	12	0	Added	
A6	LNX-6514DS-A1M	80.6	11.9	10.25	4	a	Front	33	0	Retained	01/10/2021

Sector: **C**

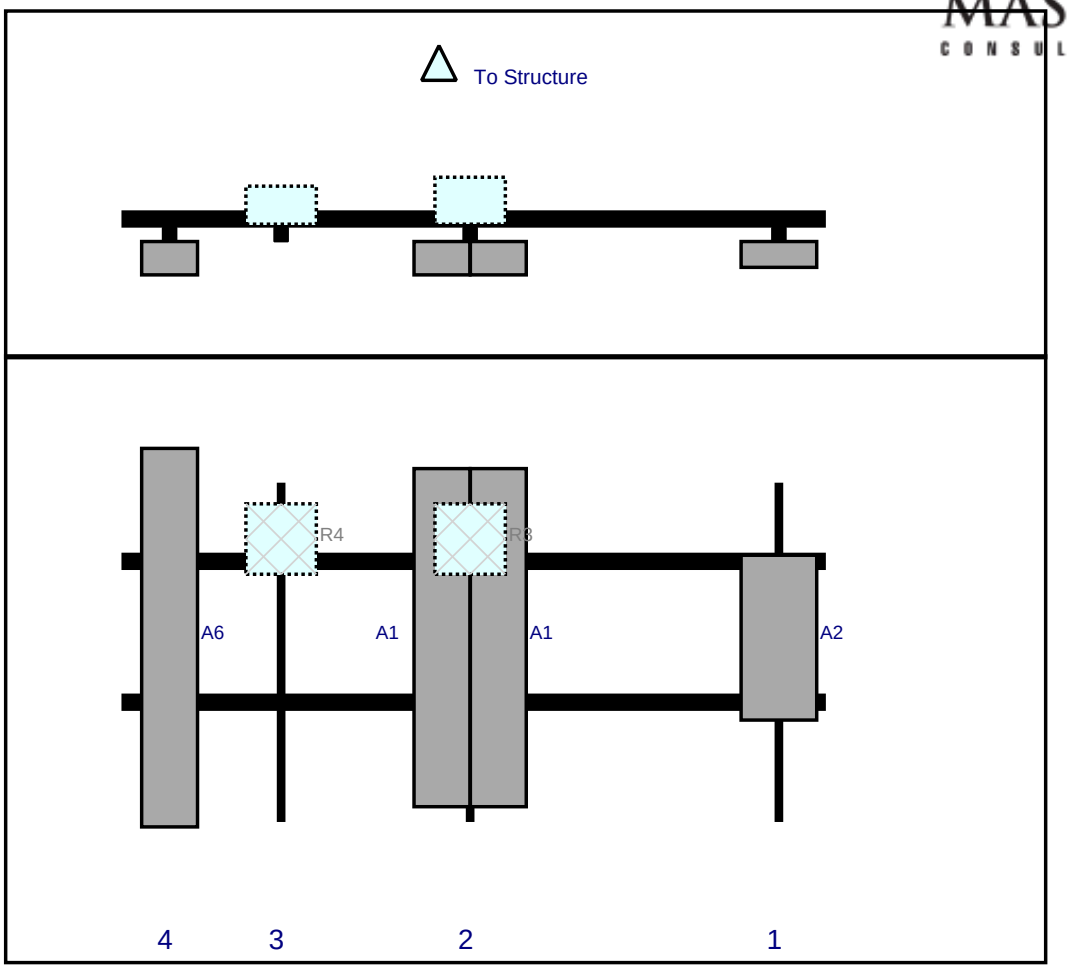
Structure Type: Monopole

Mount Elev: 88.00

2/19/2021

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
A2	VZS01	35.1	16.1	140	1	a	Front	33	0	Added	
A1	NHH-65B-R2B	72	11.9	74.25	2	a	Front	33	6	Added	
A1	NHH-65B-R2B	72	11.9	74.25	2	b	Front	33	-6	Added	
R3	B2/B66A RRH-BR049	15	15	74.25	2	a	Behind	12	0	Added	
R4	B5/B13 RRH-BR04C	15	15	34	3	a	Behind	12	0	Added	
A6	LNX-6514DS-A1M	80.6	11.9	10.25	4	a	Front	33	0	Retained	01/10/2021

Maser Consulting Connecticut

Subject	TIA-222-H Usage
Site Information	Site ID: 469043-VZW Site Name: GLASTONBURY NEIPSIC CT Carrier Name: Verizon Wireless Address: 58A Montano Drive Glastonbury, CT 06033 Hartford County Latitude: 41.69944444° Longitude: -72.56400000°
Structure Information	Tower Type: 120-Ft Monopole Mount Type: 12.50-Ft Platform

To Whom It May Concern,

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

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

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

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

Sincerely,

Dejian Xu

Dejian Xu, PE
Technical Specialist

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).

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MOUNT MODIFICATION DRAWINGS
12.50' PLATFORM

SITE NAME: GLASTONBURY NEIPSIC CT
SITE NUMBER: 469043

58A MONTANO DRIVE
GLASTONBURY, CT 06033
HARTFORD COUNTY

PROJECT INFORMATION

SITE INFORMATION

LATITUDE:	41.69944444° N
LONGITUDE:	-72.564000° W
JURISDICTION:	HARTFORD COUNTY

APPLICANT/LESSEE

COMPANY:	VERIZON WIRELESS

CLIENT REPRESENTATIVE

COMPANY:	VERIZON
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
CONTACT:	GREG DULNIK
PHONE:	(615) 686-2575
E-MAIL:	GDULNIK@MASERCONSULTING.COM

SHEET INDEX

CONTRACTOR PMI REQUIREMENTS

PMI LOCATION:	HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #:	10037719
VZW LOCATION CODE (PSLC):	469043
FUZE ID:	16232059

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

CONTRACTOR PMI REQUIREMENTS

FAILING MOUNT ANALYSIS REPORT

SMART TOOL PROJECT #:	10032199
MASER CONSULTING PROJECT #:	20777627A
ANALYSIS DATE:	1/21/2021

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0	2/17/21	ISSUED FOR CONSTRUCTION	MPC	DX

STATE OF CONNECTICUT
DEJIAN XU
No. 33733
LICENSED PROFESSIONAL ENGINEER
02/19/2021

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

SITE NAME:
GLASTONBURY NEIPSIC CT
469043
58A MONTANO DRIVE
GLASTONBURY, CT 06033
HARTFORD 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.

BILL OF MATERIALS

VZWSMART KITS				
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
1	VZWSMART	PLK1	SUPPORT RAIL KIT	
		-		
		-		
		-		
		-		
		-		
		-		
		-		
		-		

OTHER REQUIRED PARTS				
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
1	SITE PRO 1	115-352	MONOPOLE T-ARM OR PLATFORM STAND-OFF ASSEMBLIES	

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

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STATE OF CONNECTICUT
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SITE NAME:

GLASTONBURY NEIPSIC CT
469043

58A MONTANO DRIVE
GLASTONBURY, CT 06033
HARTFORD 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

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

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 = 119 MPH
b. EXPOSURE CATEGORY B
c. TOPOGRAPHIC CATEGORY 1
d. MEAN BASE ELEVATION (AMSL) = 252.5'

ICE LOADS

a. ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
b. ICE THICKNESS = 1.500 IN

SEISMIC LOADS

a. SEISMIC DESIGN CATEGORY B
b. SHORT TERM MCER GROUND MOTION, S_S = .198
c. LONG TERM MCER GROUND MOTION, S_1 = .055

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 GDULNIK@MASERCONSULTING.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.

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STATE OF CONNECTICUT DEJIAN XU No. 33733 LICENSED PROFESSIONAL ENGINEER

02/19/2021

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SITE NAME:

GLASTONBURY NEIPSIC CT
469043

58A MONTANO DRIVE
GLASTONBURY, CT 06033
HARTFORD 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.

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.

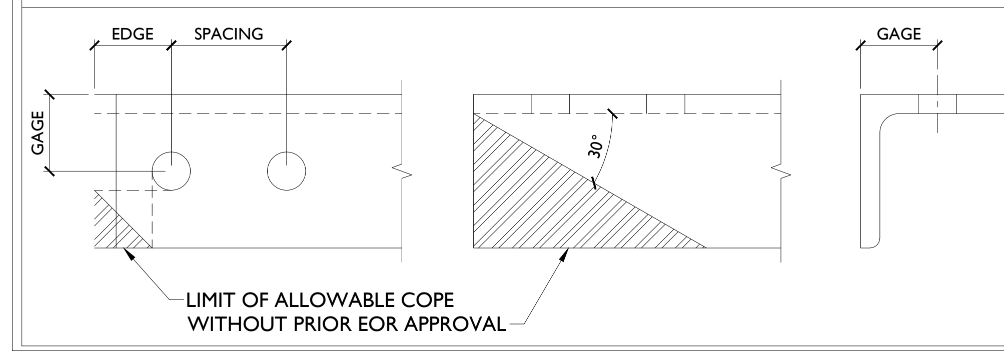
REQUIRED PHOTOS

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

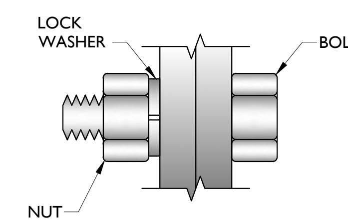


BOLT SCHEDULE (IN.)

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.

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811 Know what's below. Call before you dig.
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE: AS SHOWN	JOB NUMBER: 20777627A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
0	2/17/21	ISSUED FOR CONSTRUCTION	MPC	DX

STATE OF CONNECTICUT DEJIAN XU LICENSED PROFESSIONAL ENGINEER
CONNECTICUT LICENSED PROFESSIONAL ENGINEER LICENSE NUMBER: 33733
02/19/2021

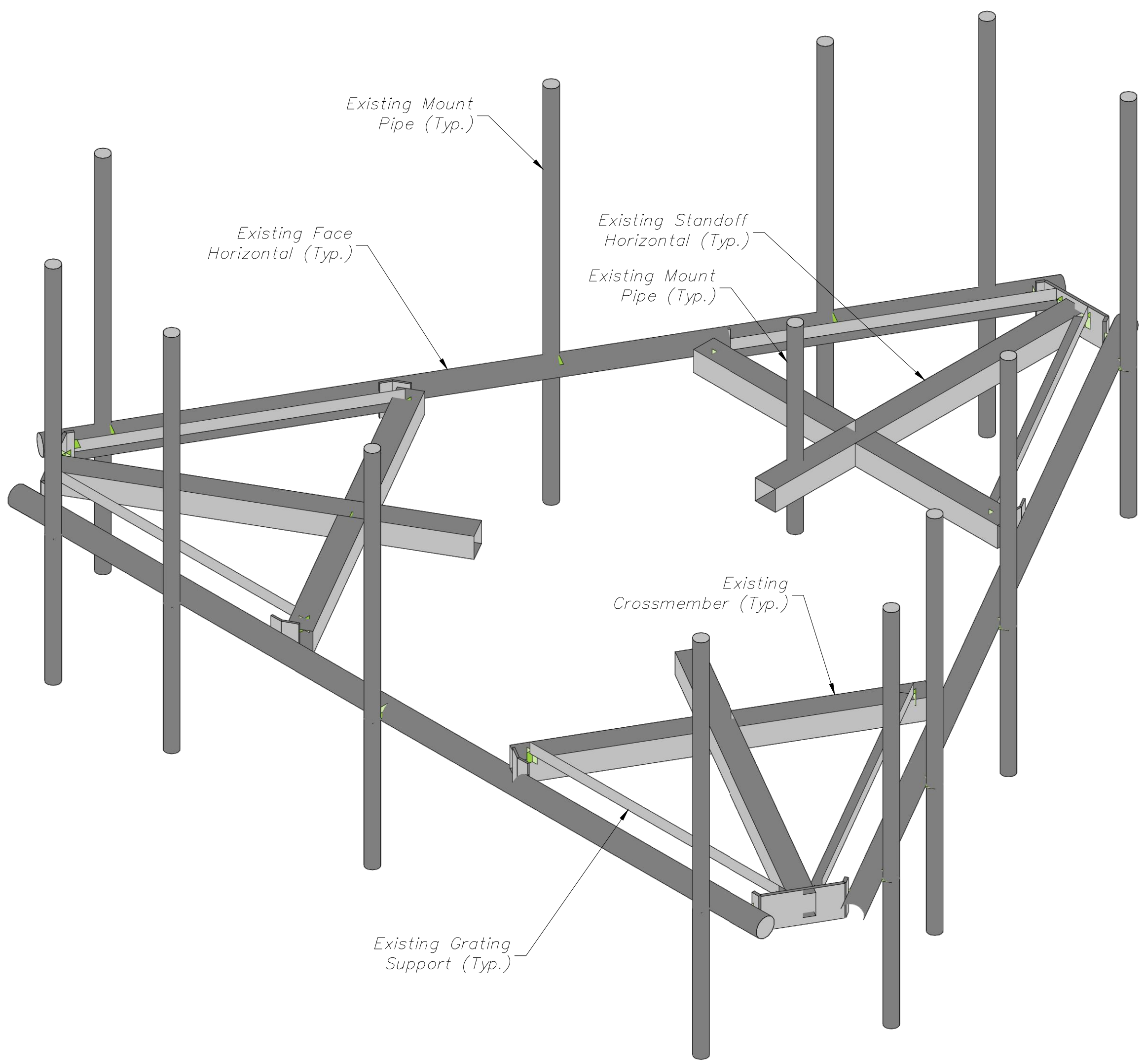
SITE NAME:
GLASTONBURY NEIPSIC CT
469043
58A MONTANO DRIVE
GLASTONBURY, CT 06033
HARTFORD COUNTY

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

SHEET TITLE: MODIFICATION NOTES

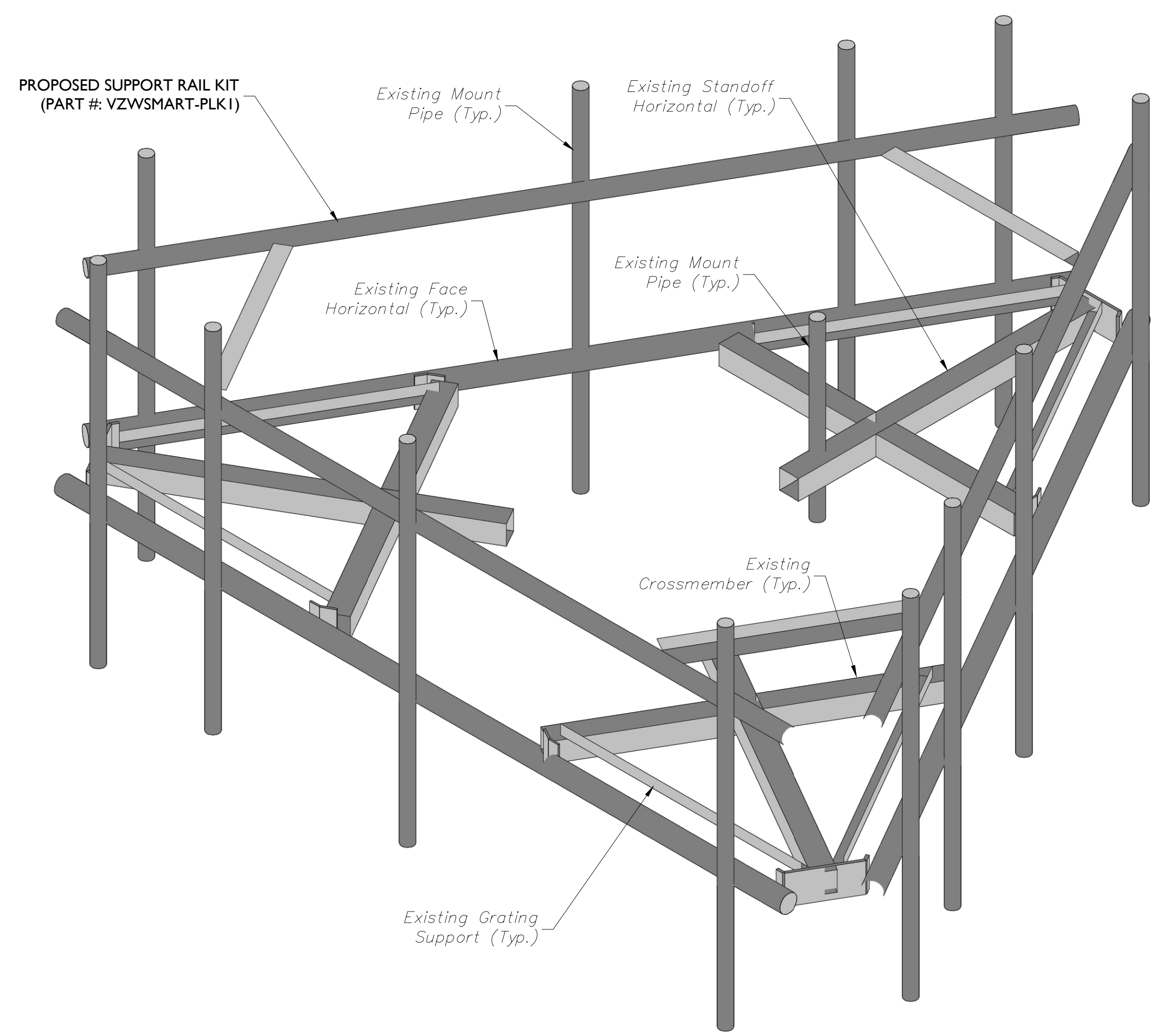
SHEET NUMBER: S-3

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



1 EXISTING PLATFORM ISOMETRIC VIEW

SCALE : N.T.S.



2 PROPOSED PLATFORM ISOMETRIC VIEW

SCALE : N.T.S.

STRUCTURAL NOTES:

1. PER THE MOUNT MAPPING COMPLETED BY RKS DESIGN & ENGINEERING, LLC ON 1/10/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (88'-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. 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.

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AS SHOWN	20777627A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
0	2/17/21	ISSUED FOR CONSTRUCTION	MPC	DX

STATE OF CONNECTICUT · DEJIAN XU · No. 33733 · LICENSED · PROFESSIONAL ENGINEER

02/19/2021

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

SITE NAME:

GLASTONBURY NEIPSIC CT
469043

58A MONTANO DRIVE
GLASTONBURY, CT 06033
HARTFORD COUNTY

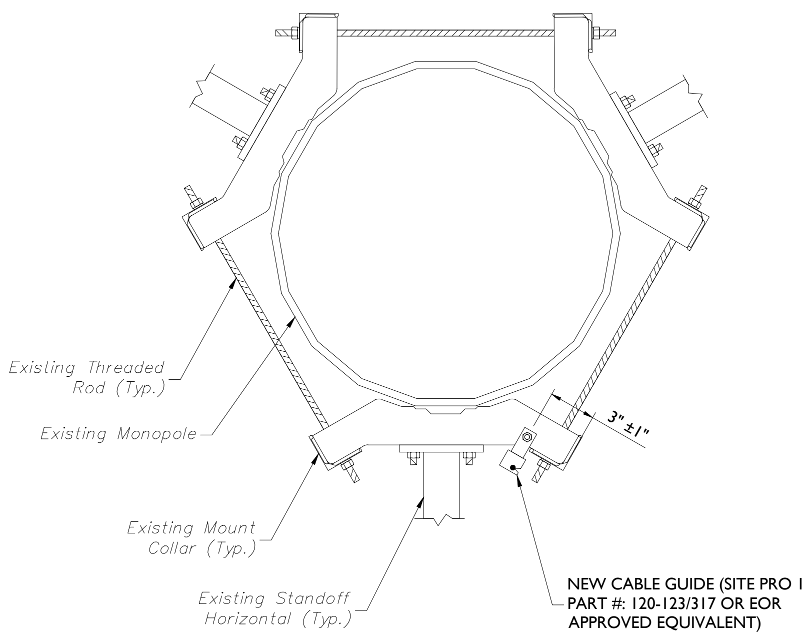
MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054

Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE:
MODIFICATION DETAILS

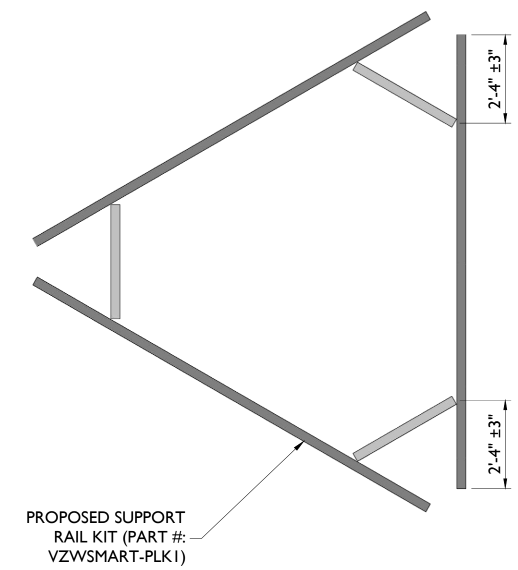
SHEET NUMBER:
S-4

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



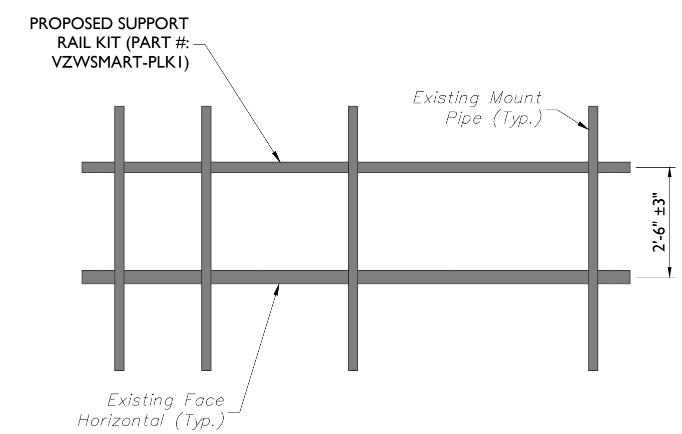
1 CABLE GUIDE COLLAR ATTACHMENT - PLAN VIEW

SCALE : N.T.S.



2 PROPOSED PLATFORM VIEW VIEW

SCALE : N.T.S.



3 PROPOSED PLATFORM FRONT VIEW

SCALE : N.T.S.

MODIFICATION NOTES:

1. 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.

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AS SHOWN	20777627A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
0	2/17/21	ISSUED FOR CONSTRUCTION	MPC	DX

STATE OF CONNECTICUT DEJIAN XU No. 33733 LICENSED PROFESSIONAL ENGINEER

02/19/2021

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

SITE NAME:

GLASTONBURY NEIPSIC CT
469043

58A MONTANO DRIVE
GLASTONBURY, CT 06033
HARTFORD 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

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

MOUNT PHOTO 1

MOUNT PHOTO 2

MOUNT PHOTO 3

MOUNT PHOTO 4

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SCALE :	JOB NUMBER :
AS SHOWN	20777627A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
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.	.	.	.	.
.	.	.	.	.
0	2/17/21	ISSUED FOR CONSTRUCTION	MPC	DX

STATE OF CONNECTICUT
DEJIAN XU
No. 33733
LICENSED
PROFESSIONAL ENGINEER

02/19/2021

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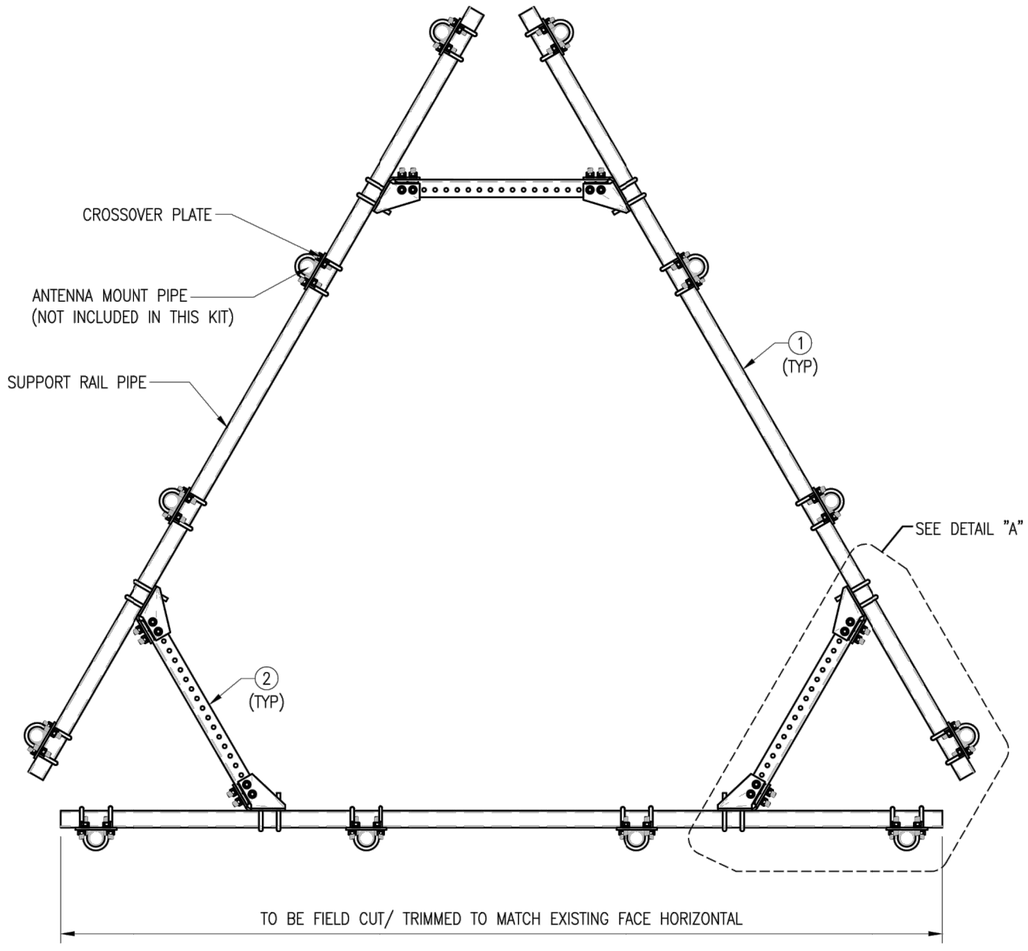
Mount Laurel, NJ 08054

Phone: 856.797.0412
Fax: 856.722.1120

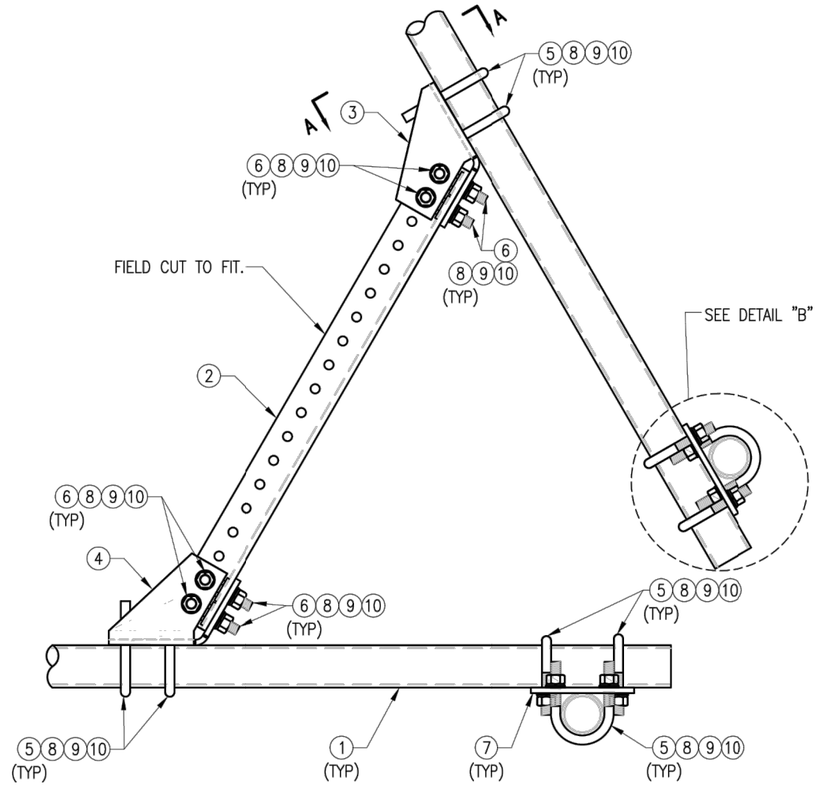
SHEET TITLE :
MOUNT PHOTOS

SHEET NUMBER :
S-6

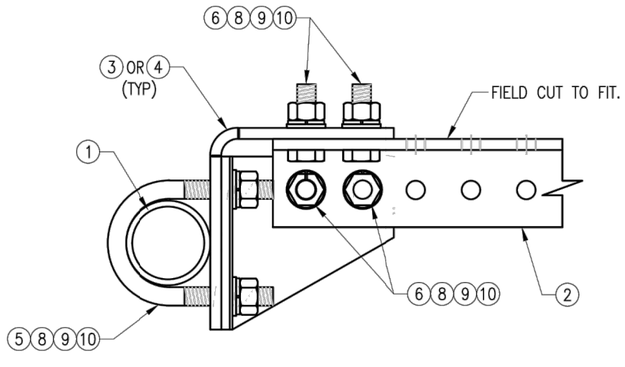
NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



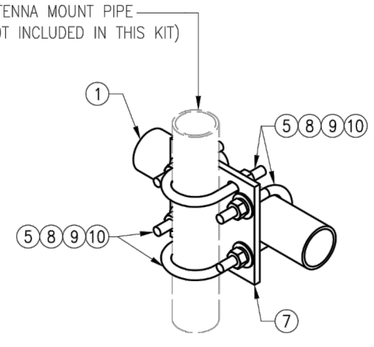
PLAN VIEW



DETAIL "A"



SECTION "A–A"



DETAIL "B"

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

VZW SMART–PLK1 (SUPPORT RAIL KIT)

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

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–PLK1
SUPPORT RAIL KIT

SHEET NUMBER: VZWSMART–PLK1

REV #: 0

MASER CONSULTING
— CONNECTICUT—

331 Newman Springs Road, Suite 203
Red Bank, NJ 07701
T: 732.383.1950
www.maserconsulting.com

March 29, 2021

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

Re: Verizon Wireless antenna Model Clarification for CT Siting Council

Dear Mr. Leone,

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

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

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

Very truly yours,
MASER CONSULTING CONNECTICUT

Petros Toukalas
Connecticut Professional Engineer
License Number: 32577

ATTACHMENT 5

Parcel GIS ID 44800058

Owner Name: **SHAW ROSE MARIE**

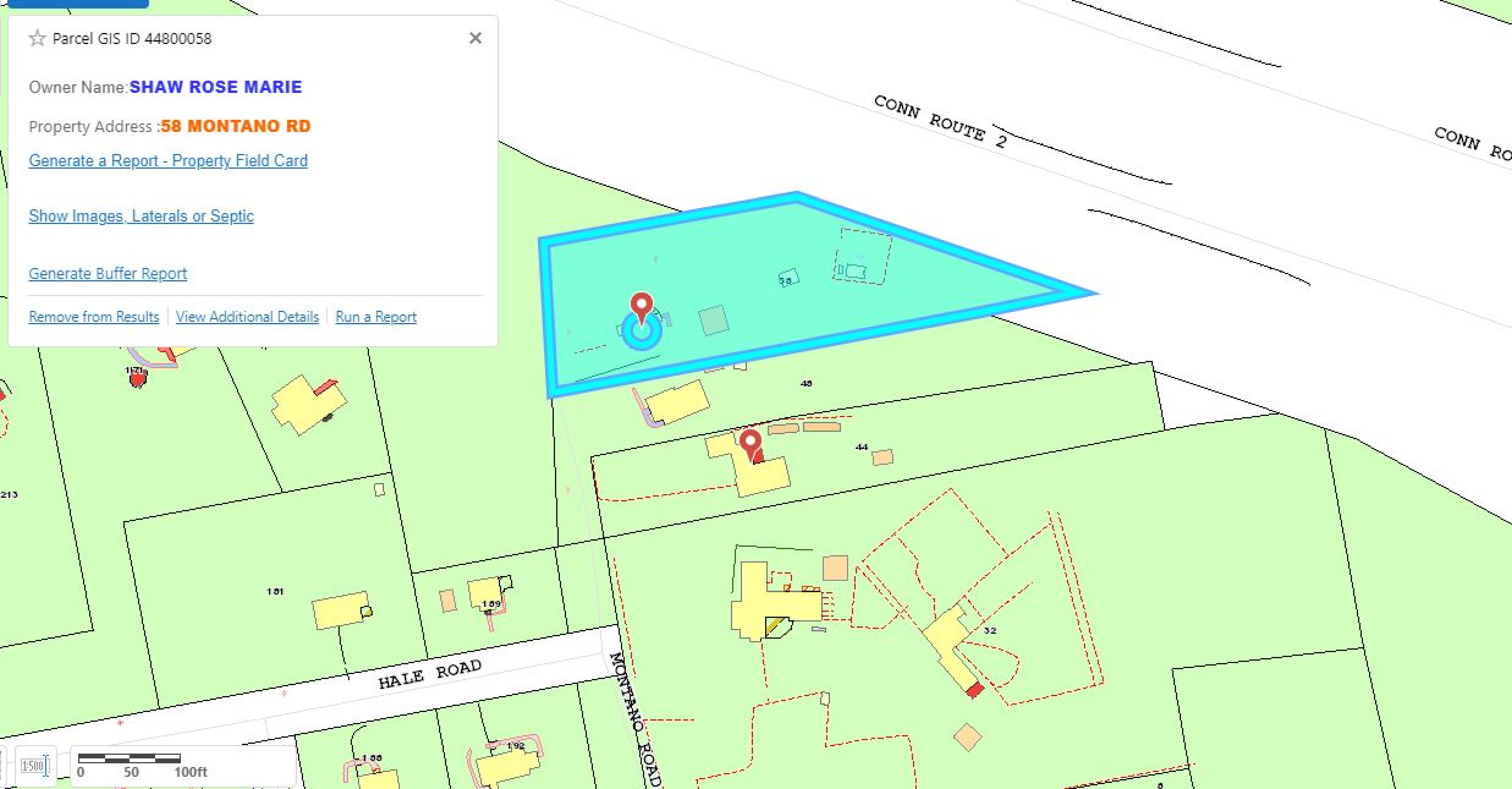
Property Address : **58 MONTANO RD**

Generate a Report - Property Field Card

Show Images, Laterals or Septic

Generate Buffer Report

Remove from Results | View Additional Details | Run a Report



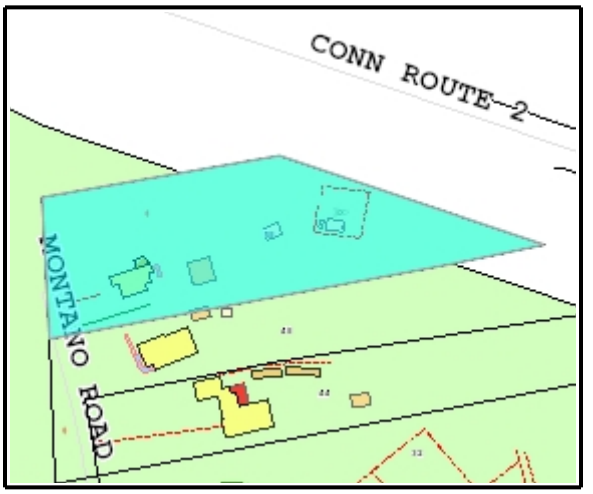
Town of Glastonbury GIS Parcel Report

Report Generated 6/17/2021 1:24:49 PM

Owner of Record

GIS ID: 44800058
Owner: SHAW ROSE MARIE
Co-Owner:
Address: 58 MONTANO RD
City, State ZIP: GLASTONBURY, CT 06033-3324

Account Number: 44800058
Property Address: 58 MONTANO RD



Property highlighted in blue

Parcel Information

Map/Street/Lot G7 / 4480 / S0021 **Property ID:** 8132
Developer Lot ID: **Water:** Well
Parcel Acreage: 1.30 **Sewer:** Sewer Nbrhd
Zoning Code: AA **Census:** 5204

Valuation Summary

Item	Appraised Value	Assessed Value
Buildings	60300	42200
Land	402500	281800
Appurtenances	5800	4100
Total	**468600**	**328100**

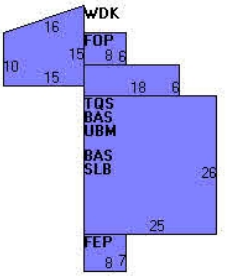
Owner of Record	Deed / Page	Sale Date	Sale Price
SHAW ROSE MARIE	1946/0211	2003-10-07	0
SHAW WILLIAM R+ROSE MARIE	0147/0396	1966-07-01	4500

Building Information

Building ID 8132

Year Constructed : 1931
Building Type : Residential
Style : Cape
Occupany : Single Family
Stories : 1.5
Building Zone : AA
Roof Type : Gable
Roof Material : Asphalt Shingl
Est. Gross S.F. : 2458
Est. Living S.F. : 1278

Number of Rooms : 7
Number of Bedrooms : 03
Number of Bathrooms : 1
Number of Half-Baths : 0
Exterior Wall : Wood Shingles
Interior Wall : Plaster
Interior Floor : Hardwood
Interior Floor #2 : No entry
Air Conditioning Type : None
Heat Type : Forced Air
Fuel Type : Oil



Subarea Type	Est. Gross S.F.	Est. Living S.F.
First Floor	758	758
Porch, Enclosed	56	0
Porch, Open	48	0
Slab	108	0
Three Quarter Story	650	520
Basement	650	0
Wood Deck	188	0

Outbuilding Type	Est. Gross S.F.	Comments
Garage	576.00	
Shed-Wood/Comp	192.00	
Shed-Wood/Comp	120.00	

ATTACHMENT 6

GLASTONBURY NEIPSIC

UNITED STATES POSTAL SERVICE®

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 06/18/2021 US POSTAGE $002.89⁰ ZIP 06103 041L12203937 OLD STATE HOUSE STATION 06103 JUN 18 2021 USPS
	Postmaster, per *(name of receiving employee)*		

USPS® Tracking Number / Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Richard J. Johnson, Town Manager Town of Glastonbury 2155 Main Street Glastonbury, CT 06033				
2.	Rebecca Augur, Director of Planning and Land Use Services Town of Glastonbury 2155 Main Street Glastonbury, CT 06033				
3.	Rose Marie Shaw 58 Montano Road Glastonbury, CT 06033				
4.					
5.					
6.					