Robinson+Cole

KENNETH C. BALDWIN

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Also admitted in Massachusetts
and New York

February 3, 2022

Via Electronic Mail

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

Re: **Notice of Exempt Modification – Facility Modification**
239 Middle Turnpike, Manchester, Connecticut

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains an existing wireless telecommunications facility at the above-referenced property address (the "Property"). The facility consists of antennas and remote radio heads attached to a tower and associated equipment on the ground near the base of the tower. The tower was approved by the Town of Manchester in March of 2002 and is located at the Manchester Police Department Headquarters. Cellco's shared use of the tower was approved by the Siting Council ("Council") in October of 2014 (TS-VER-077-140911). A copy of the Town's tower approval and the Council's TS-VER-077-140911approval are included in Attachment 1.

Cellco now intends to modify its facility by replacing three (3) antennas with three (3) new Samsung MT6407-77A antennas on its existing antenna platform. A set of project plans showing Cellco's proposed facility modifications and the specifications for Cellco's new antennas 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 Manchester's Chief Elected Official and Land Use Officer. The Town of Manchester is the owner of the Property.

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

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

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

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

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

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

6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation and antenna platform and mounts can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

A copy of the parcel map and Property owner information is included in Attachment 5. A Certificate of Mailing verifying that this filing was sent to municipal officials 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:
Steve Stephanou, Manchester General Manager
Gary Anderson, Director of Planning and Economic Development
Alex Tyurin, Verizon Wireless

ATTACHMENT 1

TOWN OF MANCHESTER
PLANNING DEPARTMENT

TO: Steven R. Werbner, General Manager

FROM: Mark Pellegrini, Director of Neighborhood Services and Economic Development

DATE: March 21, 2002

RE: Mandatory Referral Report
Police Station Radio Tower and Parking Lot Expansion (MR-0201)

At its meeting of March 18, 2002 the Planning and Zoning Commission voted unanimously to endorse the proposal to construct a monopole tower at the Manchester Police Headquarters, dismantle the existing tower, and build a new parking lot as shown on plans submitted by the Manchester Police Department dated September 11, 2001 and amended to September 26, 2001. In making this decision the Planning and Zoning Commission considered my memorandum of March 14, 2002 (copy attached) as well as a review of the site plan and photo simulations of the proposed new tower presented by Lt. Marc Montminy at their meeting.

MP/s
R:\SHARON09\MARK\MEMOS\Werbner-MR0102.doc

Attach.

TOWN OF MANCHESTER
PLANNING DEPARTMENT

TO: Planning and Zoning Commission

FROM: Mark Pellegrini, Director of Neighborhood Services And Economic Development

DATE: March 14, 2002

RE: Mandatory Referral Report
Police Station Radio Tower and Parking Lot Expansion (MR-0201)

The Planning and Zoning Commission is being asked to report on a proposal developed by the Manchester Police Department to replace its current radio tower and build a new parking lot in the location of the current tower at the Police Headquarters.

Description of Project

The police department has an existing 190' high lattice-type radio tower to serve its radio communications needs. The department wishes to replace this tower and equipment. They also have experienced parking problems, especially on Princeton Street, during daytime hours. The activity at the department's headquarters has created a greater demand for daytime parking than originally anticipated. Relocating the tower would provide room to add parking in front of the garage along Middle Turnpike. Attached is a site plan showing the proposed new tower location and the new parking lot, as well as a series of photo simulations showing the potential visual impact of the new monopole tower proposed to be constructed here.

There is no PZC approval aside from this mandatory referral report required for this project. The parking lot is less than one-half acre and therefore no erosion control plan will be needed. The new monopole tower is a permitted accessory structure and will only require a building permit and zoning permit from the Zoning Enforcement Officer.

Construction and Other Uses

The Police Department, through the Town, issued a request for proposals for the construction of the replacement tower. The proposal favored by the department was received from Sprint PCS. Under this proposal Sprint would pay for the construction of the new tower, provide new radio and related equipment to allow for a "hot" transfer so there will be no interruption in police communication during the switch-over from one tower to the other. Sprint PCS will also construct the parking lot and landscaping as proposed on the attached plans. In exchange for

these services, the police department will allow Sprint to locate a personal communications system antenna array on the tower and related hardware on the ground near the tower. The tower will also be capable of holding additional PCS arrays at the discretion of the Town.

Recommendation

The proposed improvements to the police department's headquarters site would be generally consistent with our Plan of Conservation and Development. The police department does require a tall communications antenna for its communication needs, which has become more sophisticated as communications and computing technology have evolved. It would also be beneficial to have more on-site parking at the police department to relive the traffic problems experienced on Princeton Street and to a lesser extent on Middle Turnpike during certain times of the day.

The construction of a 190±' monopole in this location will have some visual impact. It is possible through the proposed planting around the base of the unit and equipment cabinets to minimize the view of the lowest portions of the tower from passing motorists, but this area would primarily be visible to people driving into the Illing Middle School. The upper portions of the tower will be visible from various locations in the vicinity as shown on the attached photo simulations. The only alternative to a monopole tower would be a lattice-type tower, which in some respects is less intrusive since there is so much open air around the structure itself. However, we have been advised that such towers may become less attractive if multiple antenna arrays are placed on them and increased cabling is run up to the arrays. Lattice towers also require a larger footprint.

MP/s
R:\SHARON09\PZCMEMOS\18MAR02-PZC memos\MR-0201.doc

Attach.

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

October 3, 2014

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

RE: **TS-VER-077-140911** – Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 239 Middle Turnpike East, Manchester, Connecticut.

Dear Attorney Baldwin:

At a public meeting held October 2, 2014, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures with the following conditions:

- Install the antennas, remote radio heads, and junction boxes as recommended in the structural analysis report prepared by Hudson Design Group LLC dated May 2, 2014 and stamped by Gi Kai Wang;
- Within 45 days following completion of the equipment installation, Cellco shall provide documentation that its installation complied with the recommendations of the Structural Analysis Report;
- Any deviation from the proposed installation as specified in the original tower share request and supporting materials with the Council shall render this decision invalid;
- Any material changes to the proposed installation as specified in the original tower share request and supporting materials filed with the Council shall require an explicit request for modification to the Council pursuant to Connecticut General Statutes § 16-50aa, including all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65;
- Not less than 45 days after completion of the proposed installation, the Council shall be notified in writing that the installation has been completed;
- Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by Cellco 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 applicant 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.

CSC
CONNECTICUT SITING COUNCIL

This decision is under the exclusive jurisdiction of the Council and applies only to this request for tower sharing dated September 10, 2014. This facility has been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower. Any deviation from the approved tower sharing request is enforceable under the provisions of Connecticut General Statutes § 16-50u.

The proposed shared use is to be implemented as specified in your letter dated September 10, 2014, including the placement of all necessary equipment and shelters within the tower compound.

Please be advised that the validity of this action shall expire one year from the date of this letter.

Thank you for your attention and cooperation.

Very truly yours,

Robert Stein

Robert Stein
Chairman

RS/MP/lm

c: The Honorable Jay Moran, Mayor, Town of Manchester
Scott A. Shanley, General Manager, Town of Manchester
James Davis, Zoning Enforcement Officer, Town of Manchester
Town of Manchester Police Department

ATTACHMENT 2

verizon

WIRELESS COMMUNICATIONS FACILITY

MANCHESTER GREEN CT
239 MIDDLE TURNPIKE EAST
MANCHESTER, CT 06040

DRAWING INDEX

SITE DIRECTIONS

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

END: **239 MIDDLE TURNPIKE EAST**
MANCHESTER, CT 06040

1.	HEAD SOUTH TOWARDS ALEXANDER DRIVE	279 FT
2.	SLIGHT RIGHT TOWARDS ALEXANDER DRIVE	289 FT
3.	TURN RIGHT TOWARDS ALEXANDER DRIVE	167 FT
4.	TURN RIGHT ONTO ALEXANDER DRIVE	0.3 MI
5.	TURN RIGHT ONTO BARNES INDUSTRIAL RD S.	0.1 MI
6.	TURN RIGHT ONTO CT-68 E	0.9 MI
7.	SHARP LEFT ONTO I-91 N TOWARD HARTFORD	20.7 MI
8.	TAKE EXIST 29 TO MERGE ONTO CT-15/US-5 N TOWARD I-84 E	0.5 MI
9.	CONTINUE ONTO CT-15	0.7 FT
10.	MERGE ONTO I-84 E TOWARDS BOSTON	3.7 M
11.	TAKE EXIT 60 FOR US-6/US-44/MIDDLE TURNPIKE W	0.3 M
12.	TURN RIGHT ONTO US-44 E/US-6 E/MIDDLE TURNPIKE W	0.1 M
13.	CONTINUE STAIGHT ON MIDDLE TURNPIKE W	0.1 M
14.	TURN RIGHT TO STAY ON MIDDLE TURPIKE W (DESTINATION WILL ON THE LEFT)	

LOCATION MAP
SCALE : 1" = 2000'-0"

SITE INFORMATION

VZ SITE NAME:	MANCHESTER GREEN CT
VZ PROJ FUZE I.D.:	16232053
VZ LOCATION CODE:	20202199218
VZ PROJECT CODE:	468026
LOCATION:	239 MIDDLE TURNPIKE EAST MANCHESTER, CT 06040
PROJECT SCOPE:	REFER TO NOTE #2 C-1 FOR SCOPE OF WORK.
MAP/BLOCK/LOT:	92-3950-239
ZONING DISTRICT:	RA (RESIDENCE A)
LATITUDE:	41° 47' 3.92" N (41.7844222° N)
LONGITUDE:	72° 30' 42.27" W (72.5117416° W)
	SITE COORDINATES AND GROUND ELEVATION OBTAINED FROM GOOGLE EARTH.
GROUND ELEVATION:	280'± AMSL
PROPERTY OWNER:	TOWN OF MANCHESTER 41 CENTER STREET MANCHESTER, CT 06040
APPLICANT:	CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS 20 ALEXANDER DRIVE WALLINGFORD, CT 06492
LEGAL/REGULATORY COUNSEL:	ROBINSON & COLE, LLP KENNETH C. BALDWIN, ESQ. 280 TRUMBULL STREET HARTFORD, CT 06103
ENGINEER CONTACT:	ALL-POINTS TECHNOLOGY CORPORATION, P.C. 567 VAUXHALL STREET EXTENSION - SUITE 311 WATERFORD, CT 06385 (860) 663-1697

Cellco Partnership d/b/a
verizon
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

ALL-POINTS TECHNOLOGY CORPORATION
567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

CONSTRUCTION DOCUMENTS

NO	DATE	REVISION
0	11/11/20	FOR REVIEW: JRM
1	11/16/20	FOR REVIEW: JRM
2	11/17/20	PER CLIENT COMMENTS: JRM
3	12/17/20	UPDATED NAMING CONVENTION: JRM
4	05/20/21	FOR FILING: JRM
5	07/20/21	FOR FILING: JRM
6	01/07/22	FOR FILING: JRM

DESIGN PROFESSIONALS OF RECORD

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

OWNER: TOWN OF MANCHESTER
ADDRESS: 41 CENTER STREET MANCHESTER, CT 06040

MANCHESTER GREEN CT

SITE ADDRESS: 239 MIDDLE TURNPIKE EAST MANCHESTER, CT 06040

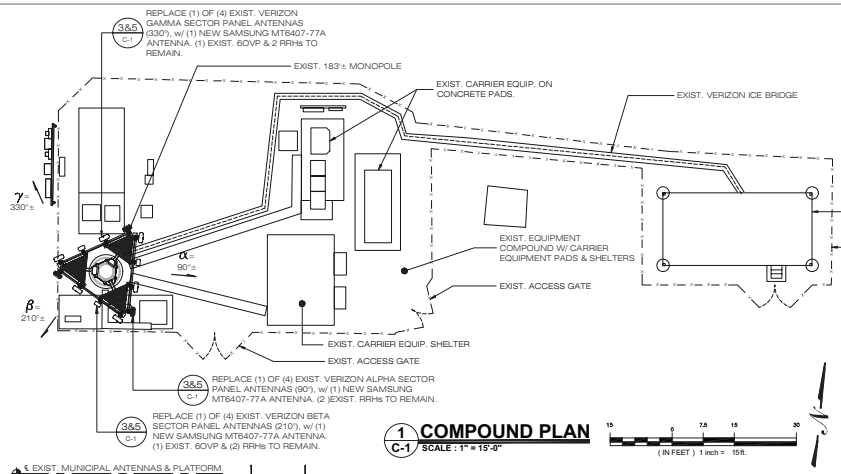
APT FILING NUMBER: CT141_10570

DRAWN BY: DRA
DATE: 11/11/20 **CHECKED BY:** JRM

VZW PROJECT CODE: 20202199218
VZW LOCATION CODE: 468026
VZW FUZE ID: 16232053

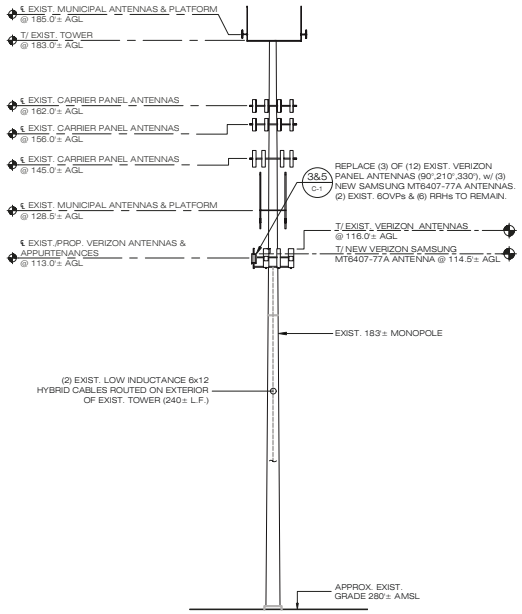
SHEET TITLE:
TITLE SHEET & INDEX

SHEET NUMBER:
T-1



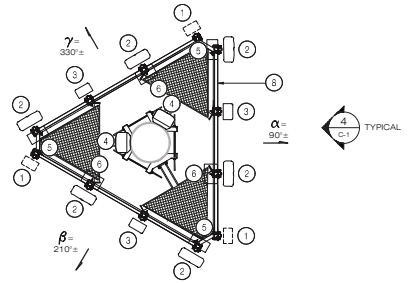
1 COMPOUND PLAN
C-1 SCALE : 1" = 15'-0"

(IN FEET) 1 inch = 15ft.

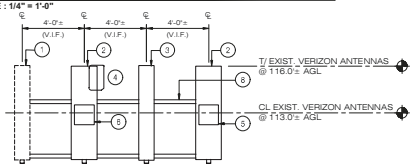


2 TOWER ELEVATION
C-1 SCALE : 1" = 15'-0"

(IN FEET) 1 inch = 15ft.

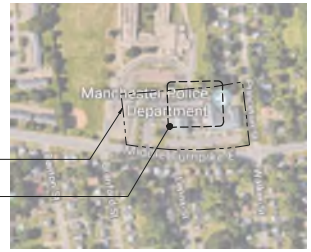


3 EQUIP. CONFIGURATION PLAN (EXIST.)
C-1 SCALE : 1/4" = 1'-0"

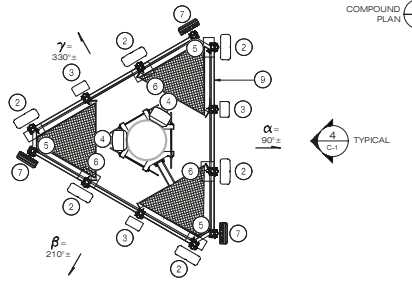


EXISTNG ELEVATION (FRONT)

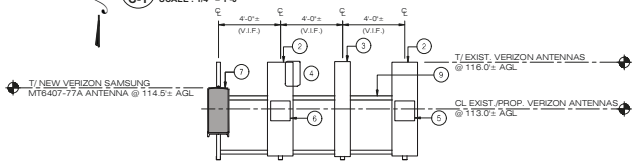
4 EQUIP. MOUNTING CONFIG. (EXIST.)
C-1 SCALE : ¼" = 1'-0"



LOCATION PLAN
SCALE: 1" = 1500'



5 EQUIP. CONFIGURATION PLAN (NEW)
C-1 SCALE : 1/4" = 1'-0"



PROPOSED ELEVATION (FRONT)

6 EQUIP. MOUNTING CONFIG. (NEW)
C-1 SCALE : ¼" = 1'-0"

NOTES:

1. REFER TO MONOPOLE TOWER STRUCTURAL ANALYSIS REPORT PREPARED BY EFI GLOBAL INC., (EFI JOB No. 049.02346-2199001, DATED OCTOBER 08, 2021 AVAILABLE UNDER SEPARATE COVER.
2. REFER TO MOUNT ANALYSIS REPORT PREPARED BY MASER CONSULTING, P.A., PROJECT #20777294A MARKED REV0, DATED 11.11.20 AVAILABLE UNDER SEPARATE COVER.
3. BASE MAPPING FROM FIELD MEASUREMENTS TAKEN BY ALL-POINTS TECH. CORP., P.C. ON 02/07/18 & 10/14/20.
4. PROJECT SCOPE INCLUDES THE FOLLOWING:
   - REPLACEMENT OF THREE (3) EXIST. PANEL ANTENNAS w/ THREE (3) NEW SAMSUNG MT6407-77A ANTENNAS.
4. ALL EXPOSED STEEL AND HARDWARE TO BE HOT DIP GALV. (HDG). PAINT TO MATCH EXIST. (WHERE APPLICABLE)
5. CAP & WEATHERPROOF ALL UN-USED CABLE ENTRY PORTS (WHERE APPLICABLE).
6. MOUNT & GROUND ALL NEW EQUIPMENT IN ACCORDANCE WITH NEC (NFPA-70), NESC AND MANUFACTURERS SPECIFICATION.
7. SECURE ALL NEW ANTENNA CABLES PER MANUFACTURER RECOMMENDATIONS.
8. BOND NEW ANTENNA MOUNTING PIPES TO ANTENNA SECTOR GROUND BAR w/ # 2 AWG, BCW, (WHERE APPLICABLE).

NOTES:

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

GENERAL ABBREVIATION LIST:

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

SCOPE OF WORK (ALL) SECTORS

1. EXIST. ANTENNA (TO BE REPLACED) MODEL: ANDREW LNX-6514DS-A1M
2. EXIST. ANTENNA (TO REMAIN) MODEL: COMMSCOPE NNHH-65B-R4
3. EXIST. ANTENNA (TO REMAIN) MODEL: ANDREW LNX-6514DS-A1M
4. EXIST. 6OVP (TO REMAIN) MODEL: RAYCAP RxxDC3315-PF-48 (V.I.F.)
5. EXIST. DUAL BAND RRH(TO REMAIN) MODEL: SAMSUNG B13/B5 RRH-BR04C (RFV01U-D2A)
6. EXIST. DUAL BAND RRH (TO REMAIN) MODEL: SAMSUNG B66/B2A RRH-BR049 (RFV01U-D1A)
7. NEW ANTENNA: MODEL:SAMSUNG MT6407-77A
8. EXIST. LOW PROFILE PLATFORM (TO BE REINFORCED). REFER TO NOTE 1 THIS SHEET REGARDING PRIOR 850 LTE ADD UPGRADE.
9. SITEPRO1 UNIVERSALHANDRAIL KIT FOR 12' PLATFORM (P/N HRK 12-U) REFER TO NOTE 1 THIS SHEET REGARDING PRIOR 850 LTE ADD UPGRADE.

Cellco Partnership d/b/a
verizon
20 ALEXANDER DRIVE
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STATE OF CONNECTICUT · MICHAEL TRODDEN · 33313 · LICENSED PROFESSIONAL ENGINEER

DESIGN PROFESSIONALS OF RECORD

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

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APT FILING NUMBER: CT141_10570

DRAWN BY: DRA
DATE: 11/11/20 CHECKED BY: JRM

VZW PROJECT CODE: 20202199218
VZW LOCATION CODE: 468026
VZW FUZE ID: 16232053

SHEET TITLE:
COMPOUND PLAN, TOWER ELEVATION, EQUIP. CONFIGURATION PLANS & ELEVATIONS

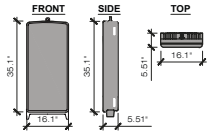
SHEET NUMBER:
C-1

EQUIPMENT DATA

EQUIPMENT SPECIFICATIONS

SECTOR	ANTENNA MAKE/MODEL	QTY	AZIMUTH	EQUIPMENT STATUS	HEIGHT (IN)	WIDTH (IN)	DEPTH (IN)	WEIGHT (LBS)
ALPHA	SAMSUNG MT6407-77A	1	90°	NEW	35.1 (3)	16.1 (3)	5.51 (3)	87.1 (2)(3)
	700/850/1900/2100: COMMSCOPE NNHH-65B-R4	1	90°	ETR	71.9	19.6	7.7	78.4 (2)
	SPARE: COMMSCOPE LNX-6514DS-A1M	1	90°	ETR	80.6	11.85	7.1	32.2 (2)
	700/850/1900/2100: COMMSCOPE NNHH-65B-R4	1	90°	ETR	71.9	19.6	7.7	78.4 (2)
BETA	SAMSUNG MT6407-77A	1	210°	NEW	35.1 (3)	16.1 (3)	5.51 (3)	87.1 (2)(3)
	700/850/1900/2100: COMMSCOPE NNHH-65B-R4	1	210°	ETR	71.9	19.6	7.7	78.4 (2)
	SPARE: COMMSCOPE LNX-6514DS-A1M	1	210°	ETR	80.6	11.85	7.1	32.2 (2)
	700/850/1900/2100: COMMSCOPE NNHH-65B-R4	1	210°	ETR	71.9	19.6	7.7	78.4 (2)
GAMMA	SAMSUNG MT6407-77A	1	330°	NEW	35.1 (3)	16.1 (3)	5.51 (3)	87.1 (2)(3)
	700/850/1900/2100: COMMSCOPE NNHH-65B-R4	1	330°	ETR	71.9	19.6	7.7	78.4 (2)
	SPARE: COMMSCOPE LNX-6514DS-A1M	1	330°	ETR	80.6	11.85	7.1	32.2 (2)
	700/850/1900/2100: COMMSCOPE NNHH-65B-R4	1	330°	ETR	71.9	19.6	7.7	78.4 (2)
	APPURTENANCE MAKE/MODEL							
	SAMSUNG B2/B66A RRH-BR049 (RFVO1U-D1A)	3	-	ETR	14.9	14.9	10.04	97.5
	SAMSUNG B5/B13 RRH-BR04C (RFV01U-D2A)	3	-	ETR	14.9	14.9	8.14	82.0
	RAYCAP RxxDC3315-PF-48 (6OVP)	2	-	ETR	28.9	15.73	10.3	32

(1) ETR DENOTES EXIST. TO REMAIN
(2) WEIGHT WITHOUT MOUNTING BRACKET.
(3) ANTENNA DATA BASED ON LATEST VERIZON RFDS.
(4) EQUIPMENT CONFIGURATION INDICATED ABOVE AS VIEWED FROM BEHIND.
(5) NOT TO EXCEED

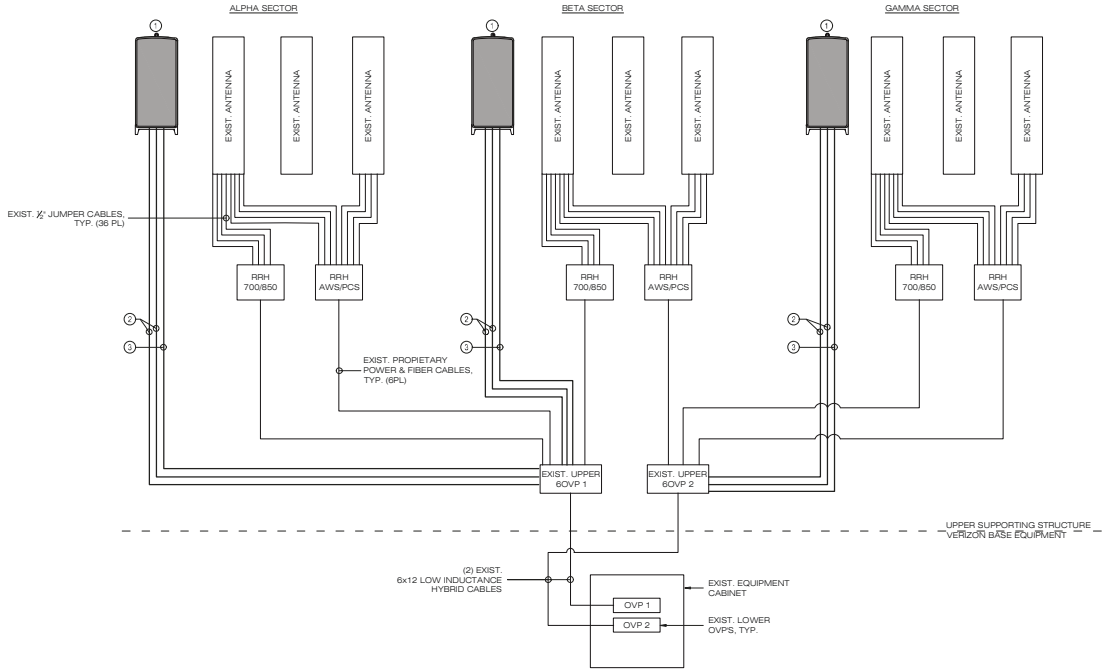


SAMSUNG MT6407-77A ANTENNA
HxWxD=35.1"x16.1"x5.51"
WT=87.1 Lbs
(NOT TO EXCEED)

2 B-1 NEW ANTENNA DETAIL
SCALE : ½" = 1'-0"

		BILL OF MATERIALS		
		QUANTITY	LENGTH	COMMENTS
1	SAMSUNG MT6407-77A	3		MOUNTED TO EXIST. ANTENNA PIPE MAST
2	ANTENNA LINK CABLES (6)	6	15 FT	ROUTE FROM UPPER EXIST. OVP TO ANTENNAS
3	ANTENNA POWER CABLES (6)	3	15 FT	PROPIETARY POWER CABLE FROM EXIST. OVP TO ANTENNAS

NOTES:
1. INFORMATION SHOWN HEREON IS FOR USE BY VERIZON EQUIPMENT OPERATIONS.
2. INFORMATION IS BASED ON LATEST VERIZON RFDS.
3. * DENOTES EQUIPMENT DESIGNATED "FOR LEASING ONLY" (WHERE APPLICABLE)
4. INSTALL ALARM BOARDS AT ALL OVPs WHERE REQUIRED. COORDINATE w/ VERIZON EQUIPMENT ENGINEERING.
5. INSTALL UP-CONVERTER(S) LOCATED AT BASE OVPs WHERE REQUIRED. COORDINATE w/ VERIZON EQUIPMENT ENGINEERING AS NECESSARY.
6. COORDINATE ANTENNA CABLING REQUIREMENTS WITH VERIZON ENGINEERING.



1 B-1 PLUMBING DIAGRAM
SCALE : ½" = 1'-0"

Cellco Partnership d/b/a
verizon
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

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CONSTRUCTION DOCUMENTS

NO	DATE	REVISION
0	11/11/20	FOR REVIEW: JRM
1	11/16/20	FOR REVIEW: JRM
2	11/17/20	PER CLIENT COMMENTS: JRM
3	12/17/20	UPDATED NAMING CONVENTION: JRM
4	05/20/21	FOR FILING: JRM
5	07/20/21	FOR FILING: JRM
6	01/07/22	FOR FILING: JRM

DESIGN PROFESSIONALS OF RECORD

PROF: MICHAEL S. TRODDEN P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
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MANCHESTER GREEN CT

SITE ADDRESS: 239 MIDDLE TURNPIKE EAST MANCHESTER, CT 06040

APT FILING NUMBER: CT141_10570

DRAWN BY: DRA
DATE: 11/11/20 CHECKED BY: JRM

VZW PROJECT CODE: 20202199218
VZW LOCATION CODE: 468026
VZW FUZE ID: 16232053

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

SHEET NUMBER:
B-1

DESIGN BASIS:

GOVERNING CODES/DESIGN STANDARDS:

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

DESIGN CRITERIA:

STRUCTURE CLASS :	III	(TIA-222-G, TABLE 2-1 & ANNEX A.)
RISK CATEGORY:	III	(IBC 2015 TABLE 1604.5)

WIND LOADS:

ULTIMATE BASIC WIND SPEED, V_{ULT}: (3-SECOND GUST)	135 MPH	(2018 CSBC APPENDIX N)
NOMINAL BASIC WIND SPEED, V_{3S}: (3-SECOND GUST)	105 MPH	(2018 CSBC APPENDIX N)
EXPOSURE CATEGORY	B	(2015 IBC SEC. 1609.4.3)
WIND IMPORTANCE FACTOR, I_W:	1.15	(TIA-222G, TABLE 2-3)

ICE LOADS:

ICE THICKNESS, T_I:	1.00 IN	(TIA-222G, ANNEX B)
ICE THICKNESS IMPORTANCE FACTOR, I_I:	1.25	(TIA-222G, TABLE 2-3)
NOMINAL BASIC WIND SPEED W/ ICE, VI (3-SECOND GUST)	50 MPH	(TIA-222G, ANNEX B)
WIND LOAD W/ICE IMPORTANCE FACTOR, I_{WI}:	1.0	(TIA-222G, TABLE 2-3)

SEISMIC LOAD:

REFER TO SECTION 1613 OF THE 2015 IBC/2018 CONNECTICUT STATE BUILDING CODE FOR SEISMIC CLASSIFICATION AND LOADING DETERMINATION.

01 GENERAL:

ABBREVIATIONS USED IN THESE SPECIFICATIONS INCLUDE THE FOLLOWING:

ACI	AMERICAN CONCRETE INSTITUTE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWS	AMERICAN WELDING SOCIETY
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN STANDARDS AND TESTING METHODS
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
ICC-ES	INTERNATIONAL CODE COUNCIL EVALUATION SERVICE
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
UL	UNDERWIRTERS LABORATORIES
NEC	NATIONAL ELECTRICAL CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

EVERY INDIVIDUAL TRADE, DISCIPLINE, AND CONTRACTOR SHALL INCLUDE THESE GENERAL SPECIFICATIONS.

THE ENGINEER IS NOT RESPONSIBLE FOR NOR A GUARANTOR OF THE INSTALLING CONTRACTORS WORK, ADEQUACY OF ANY SITE COMPONENT, SUPERVISION OF ANY WORK, AND SAFETY IN, ON, OR ABOUT THE WORK SITE.

ANY REFERENCE HEREIN TO AN OR EQUAL ITEM, THAT EQUAL ITEM SHALL BE PRE-APPROVED BY THE CONSTRUCTION MANAGER BEFORE INSTALLATION

ALL TRADES SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADES AND OTHER WORK AND CONDITIONS AS APNEWRIATE OR REQUIRED TO AVOID CONFLICTS. RESOLVE AND COORDINATE ALL CONFLICTS WITH ALL AFFECTED WORK AND SITE OPERATIONS. COORDINATION WITH THE SITE SHALL BE WITH THE OWNER, OR OWNER'S SPECIFIED REPRESENTATIVE, FOR EVERYTHING RELATED TO THE INSTALLATION OF THIS PROJECT.

ALL WORK SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE EDITIONS OF ALL APPLICABLE CODES AND SHALL BE ACCEPTABLE TO ALL AUTHORITIES HAVING JURISDICTION (AHJ). WHERE A CONFLICT EXISTS BETWEEN CODES, PLANS, SPECIFICATIONS, AND/OR AHJ, THE MORE STRINGENT AUTHORITY SHALL APPLY. WHERE CONFLICT EXISTS BETWEEN PLANS AND SPECIFICATIONS, PLAN SHALL APPLY. WHERE CONFLICT EXISTS BETWEEN PLAN SHEETS, CONSTRUCTION MANAGER SHALL BE CONSULTED PRIOR TO COMMENCING ANY WORK.

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND NEWERLY OPERATIVE AND USABLE SYSTEM THROUGHOUT AND AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN AND/OR OTHERWISE REQUIRED.

CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, INSTALLATIONS, AND EQUIPMENT IN THE FIELD PRIOR TO BID, FABRICATION, AND INSTALLATION OF ANY WORK.

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

CONTRACTOR SHALL VISIT THE SITE TO MANAGE AND GAIN APPROVAL FOR ALL TENANT DISRUPTIONS, POWER OUTAGES, WORK SCHEDULES, DEFINITION OF WORK AREA AND WORK STORAGE, NEWER BUILDING/SITE ACCESS, NOISE AND CLEANLINESS REQUIREMENTS WITH THE BUILDING/SITE MANAGEMENT PRIOR TO ALL WORK. ANY DISRUPTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE IMPLEMENTED ONLY UPON WRITTEN APPROVAL OF THE OWNER.

THE CONTRACTOR SHALL SAFEGUARD AGAINST CREATING ANY HAZARD AFFECTING TENANT EGRESS OR COMPROMISING SITE SECURITY MEASURES.

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

ALL EXISTING AND NEW EQUIPMENT AND MATERIAL LOCATIONS, ROUTING, ORIENTATION, MOUNTING, SPECIFICATIONS AND GENERAL INSTALLED CHARACTERISTICS SHALL BE CONSIDERED DIAGRAMMATIC ON THE PLANS. EXACT CONDITIONS SHALL BE DETERMINED IN THE FIELD PRIOR TO ANY INSTALLATION. ANY DIFFERENCES THAT MAY CAUSE SCHEDULE, COST, OR QUALITY SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER OR ENGINEER PRIOR TO ANY WORK.

ALL REFERENCES HEREIN TO VERIFICATION OF ANY CONDITION OF SITE, FIELD, PLANS, OR SPECIFICATIONS PRIOR TO ANY WORK SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR. ANY AND ALL ADDITIONS, MODIFICATIONS, CHANGES, REPAIR, OR DEMOLITION AS A RESULT OF FAILURE TO BRING ANY EXISTING CONDITION NEWERLY TO THE ATTENTION OF THE OWNER OR ENGINEER SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR WITHOUT DELAY, COST, OR CHANGES IN QUALITY.

ALL NOTES THIS SHEET SHALL APPLY UNLESS SPECIFICALLY NOTED OTHERWISE ON THE INCLUDED DRAWINGS OR IN SEPARATE PROJECT SPECIFICATIONS AS APPLICABLE. ALL SPECIFICATIONS SHALL BE CONSIDERED REQUIRED UNLESS APPROVED EQUAL BY THE OWNER, CONSTRUCTION MANAGER, OR ENGINEER AS APPLICABLE.

THE WORDS "PROVIDE" OR "INSTALL" SHALL MEAN FURNISH AND INSTALL.

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

ALL SURPLUS MATERIAL SHALL BE REMOVED FROM THE SITE PROMPTLY WHEN DEEMED TO BE SURPLUS.

EVERY CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS WORK AND NEWLY INSTALLED OR EXISTING WORK, INCLUDING PROTECTION OF THE SITE, ALL STRUCTURES, AND ALL OCCUPANTS. FURNISH, INSTALL, MAINTAIN, AND REMOVE AS APNEWRIATE, ALL APNEWRIATE BARRIERS, SAFETY GUARDS, SIGNAGE, AND SECURITY AS REQUIRED.

EVERY CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR RESPECTIVE FEES, PERMITS, INSPECTIONS, TESTING, CERTIFICATES, AND ALL MANAGEMENT OF SAME REQUIRED FOR COMPLETION OF AND LEGAL OCCUPANCY OF THE FINISHED PROJECT.

ALL CONTRACTORS SHALL PROVIDE ALL NECESSARY TOOLS, FIXTURES, SERVICES, MATERIALS, JOB AIDS, AND PERSONNEL REQUIRED FOR THE EXECUTION OF THEIR WORK.

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

ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS IN THE TRADE HAVING JURISDICTION.

ANY DEVIATION, MODIFICATION, ADDITION, OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE OWNER OR ENGINEER.

ALL CONTRACTORS SHALL SUBMIT SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIALS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION, AND SHALL NOT PROCEED UNTIL ENGINEER APPROVAL IN WRITING IS RETURNED. EACH CONTRACTOR SHALL MAINTAIN ON JOB SITE A COMPLETE SET OF SHOP DRAWINGS WITH ANY DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE NOTED.

ALL MATERIALS AND EQUIPMENT SHALL BE NEW, WITHOUT BLEMISH OR DEFECT, AND SUITABLE AND LISTED FOR THE INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS OR SPECIFICATIONS. ALL ITEMS OF EQUIPMENT OR MATERIAL THAT ARE OF ONE GENERIC TYPE SHALL BE ONE MANUFACTURER THROUGHOUT.

ALL MATERIALS, EQUIPMENT, TOOLS, AND ITEMS UNDER THE CONTRACTOR'S RESPONSIBILITY ON THE JOBSITE SHALL BE ADEQUATELY SECURED, MAINTAINED, AND PROTECTED, SO AS NOT TO BECOME DAMAGED OR CREATE ANY HAZARD TO PERSONNEL OR NEWERTY.

THE CONTRACTORS HOURS OF WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES AND BE APPROVED BY THE OWNER.

CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR ALL OF HIS CREW AND INSURE THAT EVERY CREW MEMBER FOLLOWS SAVE WORK PRACTICES. SAFETY TRAINING SHALL INCLUDE, BUT NOT BE LIMITED TO, FALL PROTECTION, CONFINED SPACE ENTRY, ELECTRICAL SAFETY, AND TRENCHING/EXCAVATION SAFETY WHERE SUCH WORK IS EXECUTED OR ENCOUNTERED.

ALL TEMPORARY WORK REQUIRED OR SPECIFIED AS A PART OF THIS WORK, SHALL MEET ALL OF THE SAME REQUIREMENTS AS PERMANENT INSTALLATIONS, SHALL MEET ALL APPLICABLE CODE REQUIREMENTS, AND SHALL BE COMPLETELY REMOVED AFTER ITS PURPOSES HAVE BEEN SERVED.

ANY EXISTING UTILITY, SERVICE, STRUCTURE, EQUIPMENT, OR FIXTURE OBSTRUCTING THE WORK SHALL BE REMOVED AND/OR RELOCATED AS DIRECTED BY THE CONSTRUCTION MANAGER.

IF ASBESTOS IS ENCOUNTERED DURING WORK EXECUTION, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER AND CEASE ALL ACTIVITIES IN AFFECTED AREAS UNTIL NOTIFIED BY THE CONSTRUCTION TO RESUME OPERATIONS.

EXIST. ELECTRICAL AND MECHANICAL FIXTURES, PIPING, WIRING AND EQUIPMENT OBSTRUCTING THE WORK SHALL BE REMOVED AND/OR RELOCATED AS DIRECTED BY THE CONSTRUCTION MANAGER. TEMPORARY SERVICE INTERRUPTIONS MUST BE COORDINATED WITH OWNER.

05 STEEL:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

MATERIALS:

WIDE FLANGE	ASTM A992, GR 50
TUBING	ASTM A500, GR B
PIPE	ASTM A53, GR B
BOLTS	ASTM A325
GRATING	TYPE GW-2 (1-1/4"x3/16" BARS)
EXISTING METALS	ASTM A36

PROVIDE CERTIFICATION THAT WELDERS TO BE USED IN WORK ARE LICENSED AND HAVE SATISFACTORILY PASSED AWS QUALIFICATION TEST UNDER THE PROVISIONS OF APPENDIX D, PARTS II AND III OF THE AWS CODE FOR WELDING IN BUILDING CONSTRUCTION.

ALL BUILDING CONNECTION POINTS TO BE CENTERED ON EXISTING STRUCTURAL BEARING POINTS AND THE LOCATIONS ARE TO BE VERIFIED IN FIELD PRIOR TO THE FABRICATION OF STEEL.

DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF AISC SPECIFICATION FOR *"THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS"*.

NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIAMETER GALVANIZED ASTM A 307 BOLTS UNLESS OTHERWISE NOTED.

ALL STEEL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIPPED GALVANIZED) COATINGS" ON IRON AND STEEL PRODUCTS WITH A COATING WEIGHT OF 2 OZ/SF.

ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE EXPOSED TO WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE."

DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY TOUCHING UP ALL DAMAGED GALVANIZED STEEL WITH COLD ZINC, "GALVANOX", "DRY GALV", OR "ZINC IT", IN ACCORDANCE WITH MANUFACTURERS GUIDELINES. TOUCH UP DAMAGED NON-GALVANIZED STEEL WITH SAME PAINT APPLIED IN SHOP OR FIELD.

THE ENGINEER SHALL BE NOTIFIED OF ANY INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE ENGINEER REVIEW. FIELD CUTTING OF STRUCTURAL STEEL IS NOT PERMITTED EXCEPT WITH THE PRIOR APPROVAL OF THE ENGINEER.

CONTRACTOR TO REMOVE AND RE-INSTALL ALL FIRE PROOFING AS REQUIRED DURING CONSTRUCTION.

THE STEEL STRUCTURE SHALL BE DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER COMPLETION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION.

ALL STEEL ELEMENTS SHALL BE INSTALLED PLUMB AND LEVEL.

TOWER MANUFACTURER'S DESIGNS SHALL PREVAIL FOR TOWER.

CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC *"MANUAL OF STEEL CONSTRUCTION"*. CONNECTIONS SHALL BE PROVIDED TO CONFORM TO THE REQUIREMENTS OF TYPE 2 CONSTRUCTION.

STRUCTURAL CONNECTION BOLTS SHALL CONFORM TO ASTM A325. ALL BOLTS SHALL BE MINIMUM 3/4" DIAMETER AND EACH CONNECTION SHALL HAVE MINIMUM TWO BOLTS. LOCK WASHERS ARE NOT PERMITTED FOR A325 STEEL ASSEMBLIES. IF TENSION CONTROL BOLTS ARE USED, CONNECTIONS SHALL BE DESIGNED FOR SLIP CRITICAL BOLT ALLOWABLE LOAD VALUES.

DESIGN CONNECTIONS AT BEAM ENDS FOR 10 KIPS (MIN).

ALL U-BOLTED CONNECTIONS SHALL BE COMPLETED WITH DOUBLE NUTS OR A LOCK WASHER.

CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS *"STANDARD QUALIFICATION PROCEDURES"*. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC AND D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE LARGER OF 1/4" FILLET OR MINIMUM SIZE PER TABLE J2.4 IN THE AISC *"MANUAL OF STEEL CONSTRUCTION"*. AT THE COMPLETION OF WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED. SEE NOTE REGARDING DAMAGED GALVANIZED SURFACES.

ALL ARC AND GAS WELDING SHALL BE DONE BY A LICENSED AND CERTIFIED WELDER IN ACCORDANCE WITH AWS.

SEAL ALL PENETRATIONS AND SEAMS BETWEEN MASONRY AND STEEL WITH DOW CORNING 790 SILICONE BUILDING SEALANT OR EQUAL.

26 ELECTRICAL:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

ALL ELECTRICAL CONDUCTORS:

- INSULATION SHALL BE MINIMUM 600V TYPE THHN, THWN-2, OR XHHW.
- BRANCH CIRCUIT CONDUCTORS SHALL BE SOFT DRAWN 98% MINIMUM CONDUCTIVITY NEWERLY REFINED COPPER.
- FEEDER CIRCUIT CONDUCTORS SHALL BE EITHER COPPER OR ALUMINUM OF THE APNEWRIATE SIZE FOR THE APPLICATION, OR AS SPECIFICALLY NOTED.
- PERMANENTLY LABEL OR TAG ALL CONDUCTORS WITH THEIR CIRCUIT DESIGNATION AT ALL TERMINATION ENDS, SPLICES, AND VISIBLE AS PASS-THROUGH IN ALL ENCLOSURES.

ALL CONDUIT, RACEWAY, WIREWAYS, DUCTS, ETC. SHALL BE LISTED AND SUITABLE FOR THE APPLICATION. ONLY THE FOLLOWING CONDUITS AS APPROVED AND LISTED FOR THE APPLICATION SHALL BE ACCEPTABLE:

- ELECTRICAL METALLIC TUBING (EMT).
- COMPRESSION COUPLINGS AND CONNECTORS ONLY MADE UP WRENCH TIGHT.
- FLEXIBLE METAL CONDUIT (FMC) AND LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC).
- FINAL CONNECTIONS TO VIBRATING OR ADJUSTABLE EQUIPMENT INCLUDING, BUT NOT LIMITED TO, LIGHT FIXTURES, HVAC UNITS, TRANSFORMERS, MOTORS, ETC. OR WHERE EQUIPMENT IS PLACED UPON SLAB ON-GRADE.
- RIGID GALVANIZED STEEL (RGS).
- ALL FITTINGS, CONNECTORS, AND COUPLINGS SHALL BE THREADED MADE UP WRENCH TIGHT.
- RIGID POLYVINYL CHLORIDE (PVC) SCHEDULE 40 OR SCHEDULE 80.
- MAY BE USED FOR SERVICES, EXTERIOR, BELOW GRADE, AND WET LOCATIONS.
- SHALL NOT BE USED IN CONCRETE SLABS NOR EXPOSED WITHIN A BUILDING OR STRUCTURE.
- METAL-CLAD CABLE (MC)
- CONCEALED INSTALLATIONS ONLY.
- WITHIN A DUCT WITH SMOOTH OR CORRUGATED METAL JACKET AND NO OUTER COVERING OVER THE METAL JACKET.

IN FINISHED SPACES, ALL CONDUITS SHALL BE CONCEALED EXCEPT TO MAKE A FINAL CONNECTION TO EQUIPMENT NOT MOUNTED IN OR AGAINST FINISH MATERIAL.

ALL FEEDER AND BRANCH CIRCUITS SHALL HAVE A SEPARATE NEWERLY SIZED AND MARKED GROUNDING CONDUCTOR, PER APPLICABLE CODES, THAT BONDS ALL ENCLOSURES, BOXES, ETC. CONDUIT SHALL NOT BE USED AS A GROUNDING OR BONDING CONDUCTOR.

IF EXISTING ELECTRIC SERVICE IS TO REMAIN, CONTRACTOR SHALL BE VERIFY THAT IT MEETS PROJECT REQUIREMENTS WITHOUT MODIFICATION. IF IT IS TO BE ADDED OR REPLACED AS A PART OF THIS WORK, CONTRACTOR SHALL ORDER FROM, COORDINATE WITH, AND GAIN APPROVAL FROM THE ELECTRICAL UTILITY. ALL ELECTRICAL EQUIPMENT SHALL BE AS SPECIFIED AND AS APPROVED BY THE LOCAL UTILITY WHERE APPLICABLE.

ALL EQUIPMENT, ENCLOSURES, ETC. SHALL BE SUITABLE FOR THE INSTALLED ENVIRONMENT, MINIMUM NEMA 3R FOR ALL EXTERIOR INSTALLATIONS.

WIRING DEVICES SHALL BE SPECIFICATION GRADE AND WIRING DEVICE COVER PLATES SHALL BE PLASTIC WITH ENGRAVING AS SPECIFIED. COLOR SHALL BE IVORY. ALL DEVICES AND COVER PLATES SHALL BE OF THE SAME MANUFACTURER.

ALL FIRE-RATED PENETRATIONS SHALL BE SEALED USING A SUITABLE AND LISTED FIRE SEALING DEVICE OR GROUT THAT WILL MAINTAIN THE FIRE RATING OF THE STRUCTURE PENETRATED.

PROVIDE PERMANENTLY AFFIXED ENGRAVED NAMEPLATES FOR ALL CODE REQUIRED LABELING AND ON ALL PANELS, METERING, DISCONNECTS, AND ELECTRICAL EQUIPMENT THAT IDENTIFIES EQUIPMENT SERVED, ELECTRICAL SOURCE WITH CIRCUIT IDENTIFICATION, AND VOLTAGES WITHIN.

ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FINAL TERMINATIONS TO ALL EQUIPMENT.

ALL ELECTRICAL APPURTENANCES THAT ARE DISCONNECTED SHALL BE COMPLETELY REMOVED WITH EXISTING STRUCTURES TO REMAIN, REPAIRED, FINISHED, FILLED, PAINTED, ETC. ALL PANEL SCHEDULES, EQUIPMENT LABELING, AND CODE-REQUIRED LABELING, SHALL BE VERIFIED AND NEWERLY COMPLETED TO MATCH THE INSTALLATION.

26 GROUNDING:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

GROUND ALL SYSTEMS AND EQUIPMENT IN ACCORDANCE WITH BEST INDUSTRY PRACTICE, THE REQUIREMENTS OF THE NFPA 70 NATIONAL ELECTRICAL CODE (NEC), AND ALL OTHER APPLICABLE CODES AND REGULATIONS.

ALL GROUNDING ELECTRODES PRESENT AT EACH SERVICE LOCATION SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM.

ALL EQUIPMENT ENCLOSURES, DEVICES, AND CONDUITS SHALL BE GROUNDED BY THE INSTALLATION OF A SEPARATE GROUNDING CONDUCTOR FOR ALL FEEDER AND BRANCH CIRCUITS THAT IS SIZED PER CODE OR IS OF THE SIZE INDICATED ON THE DRAWINGS, SHALL BE CONTINUOUS IN LENGTH, AND SHALL BE BONDED TO EACH ENCLOSURE PASSED THROUGH. CONDUIT SHALL NOT BE USED AS A GROUNDING OR BONDING WIRE OR CIRCUIT.

BOND ALL METALLIC CONDUITS TOGETHER THAT ARE CONNECTED TO NON-METALLIC ENCLOSURES, IN-GROUND BOXES, AND TO AN ENCLOSURE WHERE A GROUND BUS IS SPECIFIED OR SUPPLIED. ACCOMPLISH THIS BOND WITH GROUNDING CONDUCTORS MINIMUM SIZED TO THE LARGEST GROUNDING CONDUCTOR PRESENT IN THE ENCLOSURE CONNECTED TO A GROUNDING TYPE BUSHING EQUALLY SIZED OR MAXIMUM GROUND WIRE ACCOMMODATION AVAILABLE IN STANDARD MANUFACTURE FOR THE CONDUIT SIZE, WHICHEVER IS LESS.

EQUIPMENT GROUNDING AND LOAD SIDE BONDING CONDUCTORS SHALL BE SIZED PER THE CIRCUIT'S OVER-CURRENT PROTECTIVE DEVICE (OCPD) SIZE. WHERE THE UNGROUNDED CONDUCTORS ARE INCREASED IN SIZE ABOVE THE STANDARD FOR THE CIRCUITS OCPD, INCREASE THE GROUNDING CONDUCTOR NEWORTIONATELY TO THE CROSS-SECTIONAL AREA OF THE UNGROUNDED CONDUCTORS.

SERVICE MAIN BONDING JUMPERS AND GROUNDING ELECTRODE CONDUCTORS SHALL BE SIZED AND INSTALLED PER THE MINIMUM OF ALL APPLICABLE CODES AND REGULATIONS.

26 LIGHTNING PROTECTION:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS AND THE GROUNDING SPECIFICATIONS HEREIN.

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

CONDUCTORS:

- MIN #2 AWG SOLID BARE TINNED COPPER (SBTC) FOR ALL IN-GROUND CONDUCTORS.
- MIN #2 AWG COPPER GREEN STRANDED FOR BONDING STRUCTURES, AND FOR INTER-SYSTEM BONDING OF INDIVIDUAL ELEMENTS SUCH AS GROUND BAR TO GROUND BAR.
- MIN #6 AWG COPPER GREEN STRANDED OR ALL EQUIPMENT BONDING.
- INSTALL ALL IN-GROUND CONDUCTORS IN THE SAME HORIZONTAL PLANE OR IN A DOWNWARD DIRECTION AWAY FROM THE TOWER AND EQUIPMENT AREAS.
- AVOID LONG RUNS. MAKE DIRECT RUNS AS MUCH AS POSSIBLE.
- PLACE THROUGH NON-METALLIC SLEEVES WHEN PASSING THROUGH FLOORS, WALLS, CEILINGS, AND SIMILAR STRUCTURES.
- MAKE ALL CONNECTIONS IN CONTACT WITH EARTH WITH EXOTHERMIC WELDING. MAKE ALL OTHER CONNECTIONS WITH EXOTHERMIC WELDING, IRREVERSIBLE COMPRESSION CONNECTORS, OR LISTED COMPRESSION TWO-HOLE LUGS.
- INSTALL ALL CONDUCTORS WITH A MINIMUM 18 INCH BEND RADIUS AND NO BEND LONGER THAN A 90 DEGREE ARC. ALL BENDS SHALL BE HORIZONTAL, OR DOWNWARD TOWARDS EARTH.
- ALL CONDUCTORS PASSING FROM ABOVE-GROUND TO IN-GROUND CONNECTIONS, WHERE EXPOSED, SHALL BE COVERED AND PROTECTED WITH A NON-METALLIC CONDUIT SEALED AT BOTH ENDS.
- IF 2 OR MORE IN-GROUND CONDUCTOS ARE IN THE SAME PATH (2 RINGS OVERLAPPING, BONDING FOLLOWING ANOTHER RING OR RADIAL, OR SIMILAR), COMBINE WITH A SHARED SINGLE CONDUCTOR.

EQUIPMENT AND TOWER GROUND RINGS SHALL BE:

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

INSTALL ALL IN-GROUND RINGS, RADIALS, BONDS CONNECTING THEM, AND ALL SIMILAR GROUNDING:

- MIN 30 INCHES BELOW GRADE, OR 6 INCHES BELOW THE FROST LINE, WHICHEVER IS GREATER DEPTH.
- MIN 2 FEET FROM FOUNDATIONS, FOOTINGS, OTHER GROUNDING SYSTEMS, AND SIMILAR STRUCTURES, EXCEPT WHEN MAKING A BOND TO ANY OF THESE STRUCTURES. DO NOT BOND TO FOUNDATION INTERNAL REINFORCEMENT.

ALL EQUIPMENT GROUPED IN A COMMON AREA, COMPOUND, STRUCTURE, OR SIMILAR SHALL BE BONDED TO A SINGLE-POINT GROUND, PREFERABLY AN ISOLATED GROUND BAR. BOND THE GROUND BAR TO THE SYSTEM WITH MINIMUM SINGLE BONDING CONDUCTOR. IF BONDING TO AN IN-GROUND RING, INSTALL 2 BONDING CONDUCTORS MINIMUM WITH EACH CONDUCTOR INSTALLED DIRECTIONALLY AWAY FROM EACH OTHER AND PARALLEL TO THE IN-GROUND CONDUCTOR, WITH NO TEE CONNECTIONS.

TOWER GROUNDING:

- EACH TOWER LEG SHALL BE BONDED TO ITS RING. SINGLE-LEGGED TOWERS, OR MONOPOLES, SHALL HAVE 2 BONDS ON OPPOSITE SIDES.
- BOND TO TOWER BASE, NOT TO VERTICAL TOWER STRUCTURE, AWAY FROM TOWER MOUNTING HARDWARE.
- EACH BOND SHALL HAVE A CORRESPONDING GROUND ROD ON THE RING.
- EACH BOND SHALL CONSIST OF 2 CONDUCTORS FROM THE TOWER TO ITS RING WITH EACH CONDUCTOR DIRECTED IN OPPOSITE DIRECTIONS WITH A PARALLEL CONNECTION ON THE RING ON OPPOSITE SIDES OF THE GROUND ROD.

EQUIPMENT AREA GROUNDING:

- COMMUNICATION AREAS ON EARTH SHALL HAVE A GROUND RING.
- BOND ALL EQUIPMENT TO A SINGLE-POINT GROUND (GROUND BAR).
- BOND THE EQIPMENT SINGLE-POINT GROUND TO THE EQUIPMENT GROUND RING WITH MINIMUM 2 CONDUCTORS DIRECTED IN OPPOSITE DIRECTIONS WITH PARALLEL CONNECTIONS ON THE RING.
- IF EQUIPMENT IS ENCLOSED IN A SHELTER:
- IF THE SHELTER IS CONSIDERED TO BE EXPOSED TO A DIRECT LIGHTNING STRIKE, INSTALL A BUILDING LIGHTNING PROTECTION SYSTEM PER APPLICABLE VERSION OF NFPA 780.
- BOND ALL FIXED CONDUCTIVE BUILDING COMPONENTS TOGETHER AND TO THE BUILDING RING GROUND AT THE CORNERS. THIS IS TYPICALLY CALLED THE HALO GROUND. DO NOT BOND EQUIPMENT TO THE HALO GROUND.
- BOND ALL EQUIPMENT TOGETHER TO A SINGLE-POINT OR INTERIOR EQUIPMENT RING GROUND (IEGR). BOND THE SINGLE-POINT OR IEGR TO THE EXTERNAL EQUIPMENT RING GROUND.
- PLACE GROUND RODS AT THE EQUIPMENT GROUND RING CORNERS.

GROUND RODS:

- SEPARATION SPACE BETWEEN ANY 2 GROUND RODS SHALL BE NO CLOSER THAN THEIR DEPTH. THIS APPLIES TO ALL RODS IN THE COMPLETE SYSTEM.
- DRIVE VERTICALLY IN UNDISTURBED SOIL WITH THE TOP AT SAME DEPTH AS THE IN-GROUND CONDUCTOR. IF NOT POSSIBLE TO INSTALL VERTICALLY, PLACE AS CLOSE TO VERTICAL AS POSSIBLE AND IN A DIRECTION AWAY FROM THE NEAREST ABOVE-GROUND CONDUCTIVE ELEMENT (TOWER, EQUIPMENT, ETC.).

RADIALS (TYP. NEW DEDICATED COMMUNICATION SITES):

- WHERE FEASIBLE WITH ENOUGH SPACE AVAILABLE, INSTALL A MINIMUM OF 4, MAXIMUM 10 RING RADIALS.
- EACH RADIAL'S LENGTH SHALL BE MIN 20 FT, MAX 80 FT.
- EXTEND RADIALS PERPENDICULAR FROM RINGS IN AS STRAIGHT LINE AS POSSIBLE, AWAY FROM OTHER RING GROUNDS, RADIALS, BONDS, AND SIMILAR.
- A COMMON PRACTICE IS TO PLACE 4 RADIALS FROM THE TOWER RING TO THE 4 CORNERS OF THE AVAILABLE AREA.

AT A MINIMUM, BOND ALL COMPOUND CONDUCTIVE FENCE CORNER POSTS AND GATE POSTS TO THE LPGS. PREFERABLY, INSTALL A GROUND RING THAT FOLLOWS THE FENCE LINE, BONDING ALL POSTS TO THE RING.

27 ANTENNAS & CABLES:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TRANSMISSION CABLES, JUMPERS, CONNECTORS, GROUNDING STRAPS, ANTENNAS, MOUNT AND HARDWARE. ALL MATERIALS SHALL BE INSPECTED BY THE CONTRACTOR FOR DAMAGE UPON DELIVERY. JUMPERS SHALL BE SUPPLIED AT ANTENNAS AND EQUIPMENT INSIDE SHELTER. COORDINATE LENGTH OF JUMPER CABLES WITH OWNER. COORDINATE AND VERIFY ALL OF THE MATERIALS TO BE PROVIDED WITH OWNER PRIOR TO SUBMITTING BID AND ORDERING MATERIALS.

AFTER INSTALLATION, THE TRANSMISSION LINE SYSTEM SHALL BE PIM / SWEEP TESTED FOR NEWER INSTALLATION AND DAMAGE WITH ANTENNAS CONNECTED. CONTRACTOR SHALL OBTAIN AND USE LATEST TESTING PROCEDURES FROM OWNER OR MANUFACTURER PRIOR TO BIDDING.

ANTENNA CABLES SHALL BE UNIQUELY COLOR-CODED AT THE ANTENNAS, BOTH SIDES OF EQUIPMENT SHELTER WALL, AND JUMPER CABLES AT THE EQUIPMENT.

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CONNECTORS, ASSOCIATED CABLE MOUNTING AND GROUNDING HARDWARE, WALL MOUNTS, STANDOFFS, AND ALL ASSOCIATED HARDWARE TO INSTALL ALL CABLES AND ANTENNAS TO THE MANUFACTURER'S AND OWNER'S SPECIFICATIONS.

ANTENNA CABLES SHALL BE FOAM DIELECTRIC COAXIAL CABLES AS FOLLOWS:

- BASE STATION ANTENNAS:
  - 7/8" DIAMETER FOR CABLE LENGTHS UP TO 100 FT.
  - 1-5/8" DIAMETER FOR CABLE LENGTHS GREATER THAN 100 FT.
  - GPS ANTENNAS:
  - 7/8" DIAMETER FOR CABLE LENGTHS UP TO 200 FT.
  - 1-5/8" DIAMETER FOR CABLE LENGTHS GREATER THAN 200 FT.

MINIMUM BENDING RADIUS FOR COAXIAL CABLES SHALL BE:

- 15 FT FOR 7/8" COAXIAL CABLES.
- 25 FT FOR 1-5/8" COAXIAL CABLES.

CABLE SHALL BE INSTALLED WITH A MINIMUM NUMBER OF BENDS WHERE POSSIBLE. CABLE SHALL NOT BE LEFT UNTERMINATED AND SHALL BE SEALED IMMEDIATELY AFTER BEING INSTALLED.

ALL EXTERIOR CABLE CONNECTIONS SHALL BE COVERED WITH A WATERPROOF SPLICING KIT.

CONTRACTOR SHALL VERIFY EXACT LENGTH AND DIRECTION OF TRAVEL IN FIELD PRIOR TO CONSTRUCTION.

CABLE SHALL BE FURNISHED AND INSTALLED WITHOUT SPLICES AND WITH CONNECTORS AT EACH END.

27 CABLE TRAY:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

CABLE TRAY SHALL BE MADE OF EITHER CORROSION RESISTANT METAL OR WITH A CORROSION RESISTANT FINISH.

CABLE TRAY SHALL BE OF LADDER TRAY TYPE WITH FLAT COVER CLAMPED TO SIDE RAILS.

CABLE LADDER SHALL BE SIZED TO FIT ALL CABLES IN ACCORDANCE WITH NEC AND NEMA 11-15-84.

CABLE LADDER TRAYS SHALL BE NEMA CLASS 12A BY PW INDUSTRIES, INC. OR EQUAL.

CABLE LADDER TRAY SHALL BE SUPPORTED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

ALL WORKMANSHIP SHALL CONFORM TO THESE REQUIREMENTS AND ALL LOCAL CODES AND STANDARDS TO ENSURE SAFE AND ADEQUATE GROUNDING SYSTEM.

Cellco Partnership d/b/a

verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

ALL-POINTS
TECHNOLOGY CORPORATION

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

CONSTRUCTION DOCUMENTS

NO	DATE	REVISION
0	11/11/20	FOR REVIEW: JRM
1	11/16/20	FOR REVIEW: JRM
2	11/17/20	PER CLIENT COMMENTS: JRM
3	12/17/20	UPDATED NAMING CONVENTION: JRM
4	05/20/21	FOR FILING: JRM
5	07/20/21	FOR FILING: JRM
6	01/07/22	FOR FILING: JRM

DESIGN PROFESSIONALS OF RECORD

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

OWNER: TOWN OF MANCHESTER
ADDRESS: 41 CENTER STREET MANCHESTER, CT 06040

MANCHESTER GREEN CT

SITE ADDRESS: 239 MIDDLE TURNPIKE EAST MANCHESTER, CT 06040

APT FILING NUMBER: CT141_10570

	DRAWN BY: DRA
DATE: 11/11/20	CHECKED BY: JRM

VZW PROJECT CODE: 20202199218

VZW LOCATION CODE: 468026

VZW FUZE ID: 16232053

SHEET TITLE:

NOTES& SPECIFICATIONS

SHEET NUMBER:

N-1

SAMSUNG

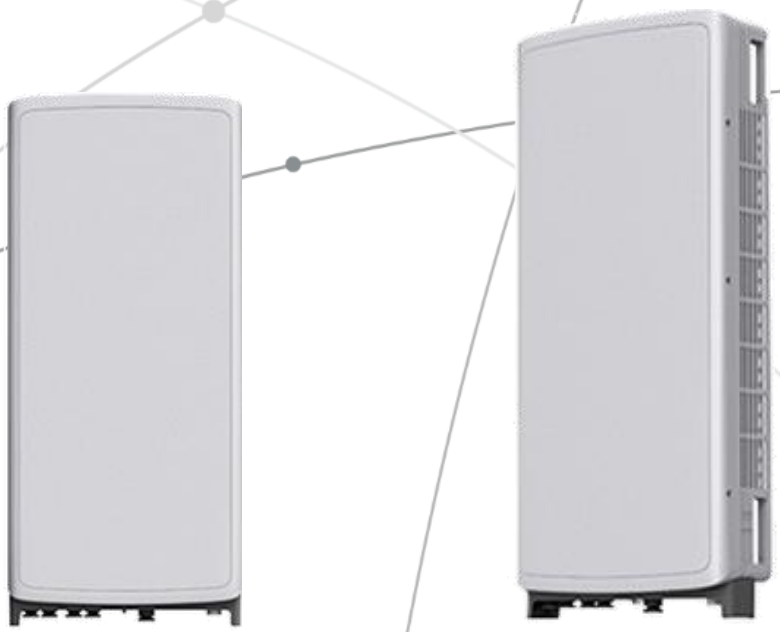
SAMSUNG

C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

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

Model Code : MT6407-77A

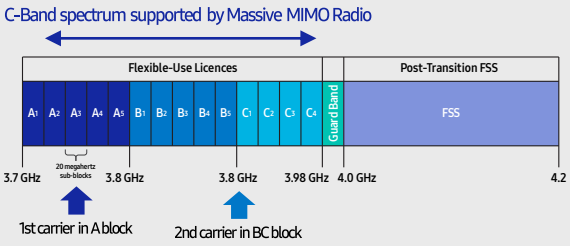


Points of Differentiation

Wide Bandwidth

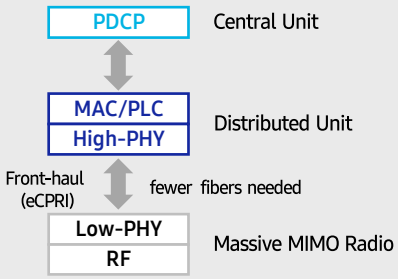
With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

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



Future Proof Product

Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface.
It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.



Enhanced Performance

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

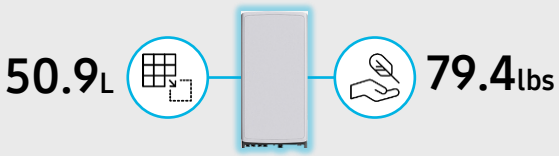
This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

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

Well Matched Design

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

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



Technical Specifications

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

SAMSUNG

About Samsung Electronics Co., Ltd.

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

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

ATTACHMENT 3

	General	Power	Density					
Site Name: Manchester Green								
Tower Height: Verizon @ 113ft								
CARRIER	**# OF CHAN.**	**WATTS ERP**	**HEIGHT**	**FREQ.**	**CALC. POWER DENS**	**MAX. PERMISS.EXP.**	**FRACTION MPE**	**Total**
*Town MFRE	2	40	99	458.2125	0.0033	0.3055	0.11%	
*Town MPD - ch 1	1	40	190	465.125	0.0004	0.3101	0.01%	
*Town MPD - ch 2	1	40	177	465.4	0.0005	0.3103	0.02%	
*Town MFD	1	40	99	861.7125	0.0017	0.5745	0.03%	
*Town services intercity	1	40	99	452.55	0.0017	0.3017	0.06%	
*RAFS I/2	2	40	75	465.075	0.006	0.3101	0.19%	
*Town public works	1	40	99	151.07	0.0017	0.2	0.08%	
*Town Services EOC	1	40	99	153.935	0.0017	0.2	0.08%	
*Town FD	1	40	99	154.355	0.0017	0.2	0.08%	
*town SP hotline	1	40	86	45.86	0.0022	0.2	0.11%	
*Town Vol FD	1	40	69	811.7125	0.0036	0.5411	0.07%	
*Town Service - School	1	40	170	469	0.0005	0.3127	0.02%	
*Htfd City FD	1	40	99	33.9	0.0017	0.2	0.08%	
*Tolland MUT	1	40	99	33.94	0.0017	0.2	0.08%	
*Sprint	1	438	153	850	0.0073	0.5667	0.13%	
*Sprint	2	438	153	850	0.0146	0.5667	0.26%	
*Sprint	5	623	153	1900	0.0518	1	0.52%	
*Sprint	2	1556	153	1900	0.0518	1	0.52%	
*Sprint	8	778	153	2500	0.1036	1	1.04%	
*Clearwire	2	153	153	2496	0.0051	1	0.05%	
*Clearwire	1	211	149	18 GHz	0.0037	1	0.04%	
*T-Mobile	4	1028	163	1900	0.06	1	0.60%	
*T-Mobile	2	2057	163	1900	0.06	1	0.60%	
*T-Mobile	2	1154	163	2100	0.0337	1	0.34%	
*T-Mobile	2	6413	163	2500	0.1871	1	1.87%	
*T-Mobile	2	6413	163	2500	0.1871	1	1.87%	
*T-Mobile	2	592	163	600	0.0173	0.4	0.43%	
*T-Mobile	1	1578	163	600	0.023	0.4	0.58%	
*T-Mobile	2	649	163	700	0.0189	0.4667	0.41%	
*T-Mobile	2	2204	163	1900	0.0643	1	0.64%	
*T-Mobile	4	1538	163	2100	0.0898	1	0.90%	
VZW 700	**4**	**621**	**113**	**751**	**0.0070**	**0.5007**	**1.40%**	
VZW Cellular	**4**	**735**	**113**	**869**	**0.0083**	**0.5793**	**1.43%**	
VZW PCS	**4**	**1244**	**113**	**1980**	**0.0140**	**1.0000**	**1.40%**	
VZW AWS	**4**	**1489**	**113**	**2125**	**0.0168**	**1.0000**	**1.68%**	
VZW CBAND	**4**	**6531**	**113**	**3730**	**0.0736**	**1.0000**	**7.36%**	
								24.50%
* Source: Siting Council								

ATTACHMENT 4

STRUCTURAL ANALYSIS REPORT
MONOPOLE

Prepared For:

SAI Group
12 Industrial Way
Salem, NH 03079

Structure Rating	
Monopole:	**Pass (92.8%)**
Anchor Rods:	**Pass (88.6%)**
Base Plate:	**Pass (90.7%)**
Foundation	**Pass (80.5%)**

Sincerely,
EFI Global, Inc.
License No: PEC0001245

STATE OF CONNECTICUT
AHMET COLAKOGLU
PEN. 27057
LICENSED
PROFESSIONAL ENGINEER

10/8/2021

Ahmet Colakoglu, PE
Connecticut Professional Engineer
License No: 27057

Verizon Site Name: Manchester Green CT
FUZE Project ID: 16232053
239 Middle Turnpike East
Manchester, CT 06040

EFI Job No: 049.02346 - 2199001

October 8, 2021

CONTENTS

EFI Global, Inc.
1117 Perimeter Center West, Ste E500, Atlanta, GA 30338 - Tel: (470) 990-6593

1.0 SUBJECT AND REFERENCES

The purpose of this analysis is to evaluate the structural capacity of the 183 feet tall monopole tower located at 239 Middle Turnpike East, Manchester, CT 06040 for additions and alterations proposed by Verizon.

The structural analysis is based on the following documentation provided to EFI Global, Inc. (EFI):

- RFDS provided by Verizon, dated 9/23/2021.
- Construction Drawings prepared by All-Points Technology Corporation, dated 5/20/2021.
- Tower Mapping Report prepared by Hightower Solutions, Inc., dated 2/10/2021.
- ANSI/TIA-222-G-2005 Inspection Report prepared by Hightower Solutions, Inc., dated 2/10/2021.
- Mount Analysis Report prepared by Maser Consulting Connecticut, dated 11/11/2020.
- Structural Analysis Report prepared by Hudson Design Group, LLC., dated 12/10/2019.
- Construction Drawings prepared by Hudson Design Group, LLC, dated 10/28/2019.
- Structure and Foundation Design Calculations prepared by Engineered Endeavors Incorporated, dated 10/16/2002.

1.1 STRUCTURE

The structure is a 183 ft. (18) sided monopole, which is attached to the foundation with anchor bolts and a base plate. Please refer to the software output in Appendix A, for tower geometry, member sizes, and other details.

Section Length (ft)	Lap Splice (in)	Shaft Thickness (in)	Top Diameter (in)	Bottom Diameter (in)	Steel Yield Strength (ksi)
17.50	36.00	0.1875	15.50	19.42	65
36.42	46.00	0.2500	18.37	26.41	65
48.92	60.00	0.3750	25.06	35.88	65
49.08	74.00	0.4375	34.02	44.88	65
49.08	--	0.4375	42.64	53.50	65

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2.0 EXISTING AND PROPOSED APPURTENANCES

Existing Configuration of Verizon Appurtenances:

RAD CENTER (FT)	ANTENNA & TMA	COAX	MOUNT
115.42	(2) RRFDC-3315-PF-48	(2) 6x12 Hybriflex**	(1) Low Profile Platform
113	(6) Commscope NNHH-65B-R4 (6) Commscope LNX-6514DS-A1M (3) Samsung B2/B66A RRH-BR049 (3) Samsung B5/B13 RRH-BR04C		

****Feedlines located outside monopole shaft.**

Proposed and Final Configuration of Verizon Appurtenances:

RAD CENTER (FT)	ANTENNA & TMA	COAX	MOUNT
115.42	(2) RRFDC-3315-PF-48	(2) 6x12 Hybriflex**	(1) Low Profile Platform
113	(6) Commscope NNHH-65B-R4*** (3) Commscope LNX-6514DS-A1M*** (3) Samsung MT6407-77A (3) Samsung B2/B66A RRH-BR049 (3) Samsung B5/B13 RRH-BR04C		

****Feedlines located outside monopole shaft.**

***** Reduced wind area considered per CFD analysis.**

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Existing Appurtenances by Others:

Unknown		(1) Lightning Rod		(1) Low Profile Platform
		(2) 12’ Dipole		
		(2) HPD2-18RS (2’ Dish) (2) 9” x 9” x 3.5” TMA		
		(2) 12’ Dipole		
T-Mobile		(3) Radio 4449 B71+B85 (3) Radio 4415 B25	(1) 9x18 HSC	(1) Platform w/ Handrail Proposed Modifications
Sprint		(6) RRH1900-4x45 (1) Junction Box	(2) 2.42” Flex Conduit**	(1) Ring Mount
		(3) RRH8x20 (3) RRH2x50-800		(1) Low Profile Platform
Unknown		(1) Motorola MTI1669		
	151.5	(1) VHLP2-23-DW1 (2’ Dish)	(1) 1/2”**	
		(1) 3’ Dish (1) VHLP2-18-DW1 (2’ Dish)		

***All feedlines are inside shaft unless otherwise noted**

****Located outside shaft**

***** Reduced wind area considered per CFD analysis.**

****** Future feedline entitlement considered in analysis.**

EFI Global, Inc.
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Existing Appurtenances by Others (Continued):

CARRIER	RAD CENTER (FT)	ANTENNA & TMA	COAX*	MOUNT
AT&T	145	(4) CCI OPA-65R-LCUU-H8*** (2) CCI OPA-65R-LCUU-H6*** (3) Kathrein 80010121*** (6) LGP21401 TMA (6) LGP21901 Diplexers (3) RRUS 11 B12 (3) RRUS 32 B66A (3) RRUS 32 B30 (3) Radio 4478 B5 (2) DC6-48-60-18-8C (1) NNH4-65B-R6*** (2) NNH4-65C-R6*** (3) RRUS E2 B29 (3) RRUS 12 B2 (3) Radio 4478 B14 (3) A2 Modules (2) DC6-48-60-0-8C-EV	(6) 1-5/8” (8) DC Power Cables (2) Fiber Cables	(1) Platform w/ Handrails
Unknown	132.08	(1) 15’ Whip	(7) 1/2”	(1) Low Profile Platform
	129.42	(1) 5’-6” Whip		
	128.5	(1) Yagi		
	128.17	(1) 20’ Dipole		
	125.08	(1) Yagi		
	121.75	(1) Yagi		
Unknown	51.75	(1) GPS (1) 12” x 2.5” x 1.5” TMA	(1) 1/2” (2) 0.2”	(1) Stand Off Mount

***All feedlines are inside shaft unless otherwise noted**

***** Reduced wind area considered per CFD analysis.**

EFI Global, Inc.
1117 Perimeter Center West, Ste E500, Atlanta, GA 30338 - Tel: (470) 990-6593

3.0 CODES AND LOADING

The tower was analyzed per *ANSI/TIA-222-G* as referenced by the *2018 Connecticut State Building Code* with all of the adopted Addendums and Supplements. The following wind loading was used in compliance with the standard for Manchester, CT:

- Basic wind speed 105 mph without ice (W_o)
- Basic wind speed 50 mph with 1" escalating ice (W_i)
- Exposure Category B
- Topographic Category 1
- Structure Class III

The following load combinations were used with wind blowing at 0°, 30°, 45°, 60°, and 90° measured from a line normal to the face of the tower.

- 1.2 D + 1.6 W_0
- 0.9 D + 1.6 W_0
- 1.2 D + 1.0 D_i + 1.0 W_i

D: Dead Load of structure and appurtenances
W_0: Wind Load, without ice
W_i: Wind Load, with ice
D_i: Weight of Ice

4.0 STANDARD CONDITIONS FOR ENGINEERING SERVICES ON EXISTING STRUCTURES

The analysis is based on the information provided to EFI and is assumed to be current and correct. Unless otherwise noted, the structure and the foundation system are assumed to be in good condition, free of defects and can achieve theoretical strength.

It is assumed that the structure has been maintained and shall be maintained during its service. The superstructure and the foundation system are assumed to be designed with proper engineering practice and fabricated, constructed and erected in accordance with the design documents. EFI will accept no liability which may arise due to any existing deficiency in design, material, fabrication, erection, construction, etc. or lack of maintenance.

The analysis does not include a qualification of the mounts attached on the structure or their connections. The analysis is performed to verify the capacity of the main structural members, which is the current practice in the tower industry.

The analysis results presented in this report are only applicable for the previously mentioned existing and proposed additions and alterations. Any deviation of the proposed equipment and placement, etc., will require EFI to generate an additional structural analysis.

EFI Global, Inc.
1117 Perimeter Center West, Ste E500, Atlanta, GA 30338 - Tel: (470) 990-6593

5.0 ANALYSIS AND ASSUMPTIONS

The Monopole was analyzed by utilizing tnxTower, a non-linear, three-dimensional, finite element-analysis software package, a product of Tower Numerics, Inc. Software output for this analysis is provided in Appendix A of this report.

The structural monopole shaft reinforcement modifications shown in the referenced Tower Mapping Report prepared by Hightower Solutions, Inc., dated 2/10/2021, have been incorporated into our analysis. After analyzing the upgraded structure, EFI has deemed the modifications to be ineffective due to weak compressive capacity in the reinforcement plates. The added wind area of the reinforcement has been considered in this analysis.

6.0 RESULTS AND CONCLUSION

Based on structural analysis per TIA-222-G, the existing monopole is found to have **adequate** structural capacity for the proposed changes by Verizon. For the code specified load combinations and as a maximum, the monopole shaft is stressed to **92.8%** of its structural capacity. The anchor rods and base plate are stressed to **88.6%**and **90.7%** of their structural capacities, respectively.

The existing base foundation is found to have **adequate** structural capacity for the proposed changes by Verizon. For the code specified load combinations and as a maximum, the foundation is stressed to **80.5%** of its structural capacity.

Therefore, the proposed additions and alterations by Verizon **can** be implemented as intended with the conditions outlined in this report.

Should you have any questions about this report, please contact EFI at telecom@efiglobal.com.

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APPENDIX A
SOFTWARE OUTPUT

Panel Antennas

TIA Design Wind Force on Appurtenances

Per section 2.6.11.2 of TIA-222-H

$$F_A = q_z G_h (EPA)_A$$

$$(EPA)_A = K_a[(EPA)_N \cos^2(\theta) + (EPA)_T \sin^2(\theta)]$$

$$(EPA)_N = \Sigma(C_a A_a)_N$$

$$(EPA)_T = \Sigma(C_a A_a)_T$$

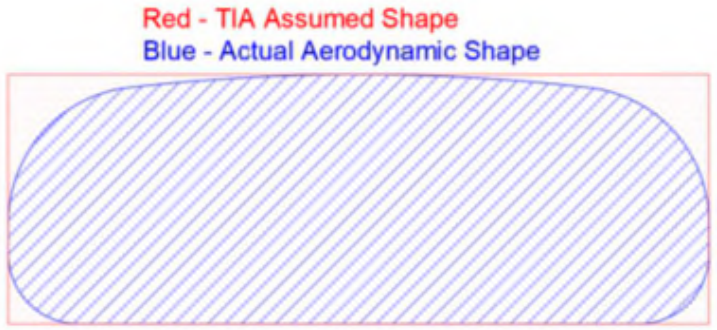
Panel Antennas

TIA Design Wind Force on Appurtenances

Per section 2.6.11.2 of TIA-222-H, in the absence of more accurate data, EPAs consist of flat and round components

- Panel Antennas are considered to be flat, Ca = force coefficient from table 2-9, Aa=projected area
- Antenna manufacturers typically design antennas to be aerodynamic
  - Wind tunnel testing
  - Whitepapers
  - Evidence points to wind load

    reductions from TIA prescribed values



TIA response regarding Computational Fluid Dynamics (CFD)

FAQ TIA-222

Question:

Can I use loading that is less than the values prescribed by the written TIA-222-G and claim compliance with the standard? If so, under what conditions?

Answer:

The standard provides force coefficients for basic appurtenance shapes as provided in Table 2-8 and for generic microwave antennas as provided in Annex C. ***Antennas and other discrete appurtenances with complex shapes may be idealized by the simple shapes provided in the standard or may be determined using Wind Tunnel testing, CFD computations or other rational methods that may result in lower force coefficients.*** *TIA-222-G specifically provides standard prescribed methods to calculate the Effective Projected Area of combinations of appurtenances commonly used for antennas supporting structures. These methods include the many factors not easily taken into consideration in design such as shielding, dynamic loads, etc. The intent of the Standard is not to allow the use of other methods that result in less loading than these prescribed methods.*

Antenna Manufacturer Information

Specification Sheets

Wind Load values differ in wind speed

How are the load values determined?

Wind Load (@100mph), Front / Side / Rear	842N / 421.0N / 842N (189.4lbf / 94.7lbf / 189.4lbf)

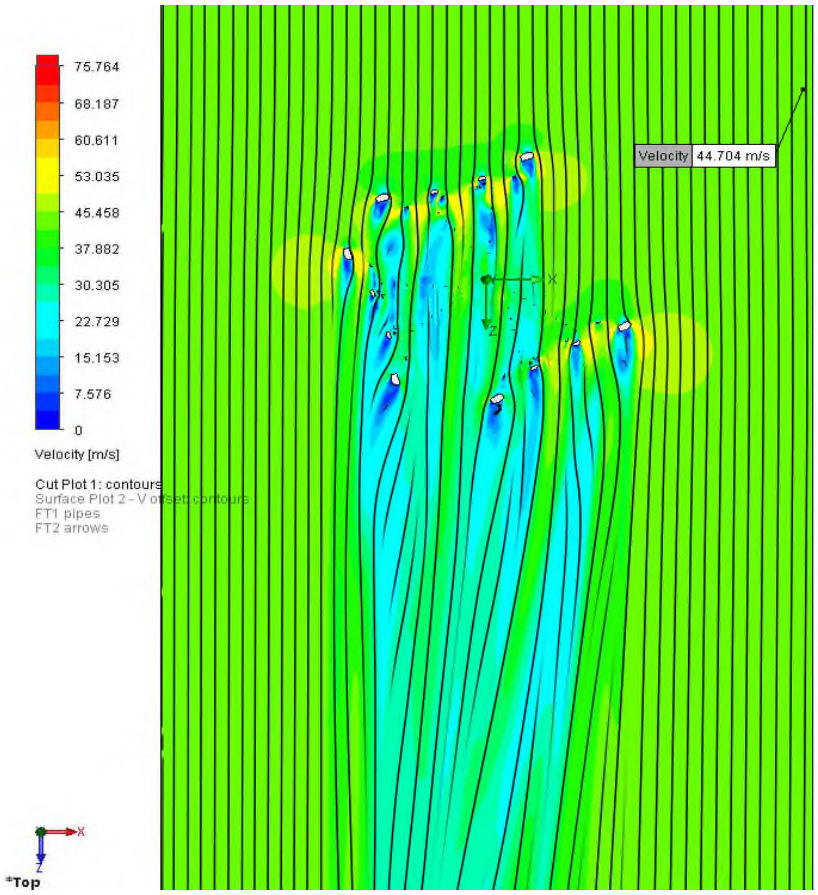
Wind Loading, maximum	1791.0 N @ 150 km/h 402.6 lbf @ 150 km/h
Wind Speed, maximum	241 km/h | 150 mph

Frontal, lateral, and rear wind loading @ 150 km/h, lbf (N)	208 (925), 98 (435), 212 (943)

Software Decision

CFD Software

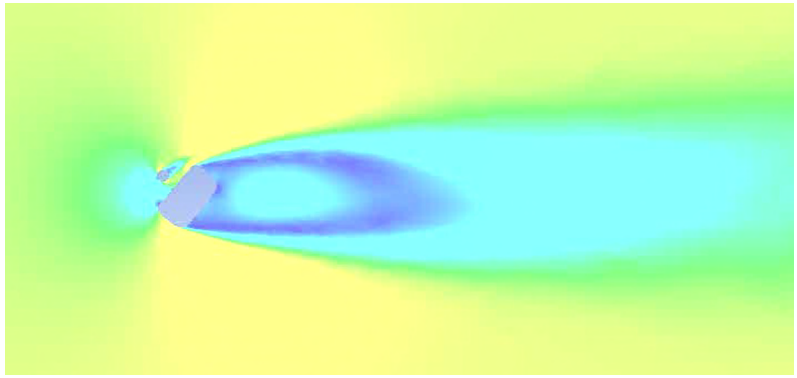
- ANSYS
- Reviewed additionally:
  - Autodesk Robot
  - Solidworks Flow



CFD Process

CFD Benchmarking

- Software within ANSYS – CFX vs. Fluent (using version 19.2 currently)
- Compared CFX results to known wind tunnel testing results
- Enclosure Dimensions – wind tunnel and real world
- Fluid model
- Reviewed antenna tilt
- 0-180 degree wind directions simulated
- Adjustment factor
- Antenna with mount pipe



CFD Process

CFD Procedure/Software

- Obtain additional dimensional information from Antenna Manufacturer (3D file, 2D cross section file, 2D drawing with radius of curvature details)

Software	Description
ANSYS SpaceClaim	Software used for refining antenna model geometry
ANSYS Workbench	Software used to manage CFD analysis process
ANSYS Meshing	Software used to create meshes within the enclosures
ANSYS CFX	Software used to perform the CFD analysis
ANSYS CFD-Post	Software used to view results from ANSYS CFX
Crown CFD EPA Calculator	Supplemental tool used to analyze CFX data, generate EPA graphs, and determine antenna EPA values

CFD Process

EPA Tool

Import From CSV | Generate Report

CFD EPA Calculator

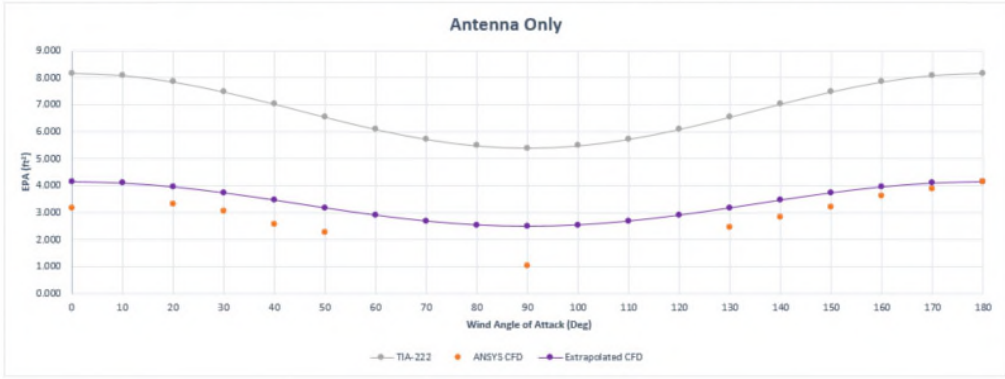
Engineer Information	
Prepared By:	
Checked By:	
Engineer of Record:	
EOR Title:	Project Engineer

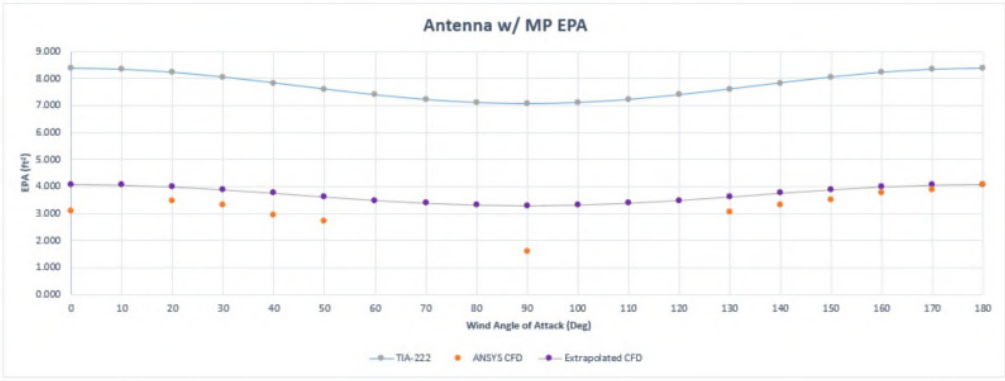
Antenna Information	
Manufacturer:	Commscope
Model:	SBNH-1D6565B
Height (in):	72.7
Width (in):	11.9
Depth (in):	7.1
Weight (lbs):	47.4
Pipe Information	
Diameter (in):	2.375
Thickness (in):	0.154
Length (in):	84.7
Parameters	
Windspeed (mph):	90
Calibration Factor:	1.1

Total Projected Area		
degree	Antenna w/ MP (ft^2)	Antenna (ft^2)
0	6.27	6.07
90	5.04	3.64

CFD Results		
Degree	Antenna w/ MP Force (lb)	Antenna Force (lb)
0	58	60
10		
20	65	63
30	63	58
40	56	49
50	51	43
60		
70		
80		
90	30	20
100		
110		
120		
130	58	47
140	63	54
150	66	60
160	71	69
170		
180		

Results															
Configuration	C_AA_A Front (ft^2)					C_AA_A Side (ft^2)					Weight (lbs)				
Ice Thickness	0	0.5	1	2	4	0	0.5	1	2	4	0	0.5	1	2	4
Antenna	4.16	4.57	4.98	5.85	7.69	2.49	2.88	3.27	4.09	5.84	47.40	97.91	154.55	287.03	634.20
Antenna w/ MP	4.09	4.49	4.89	5.71	7.47	3.30	3.68	4.06	4.87	6.59	73.21	136.26	210.15	391.86	900.68

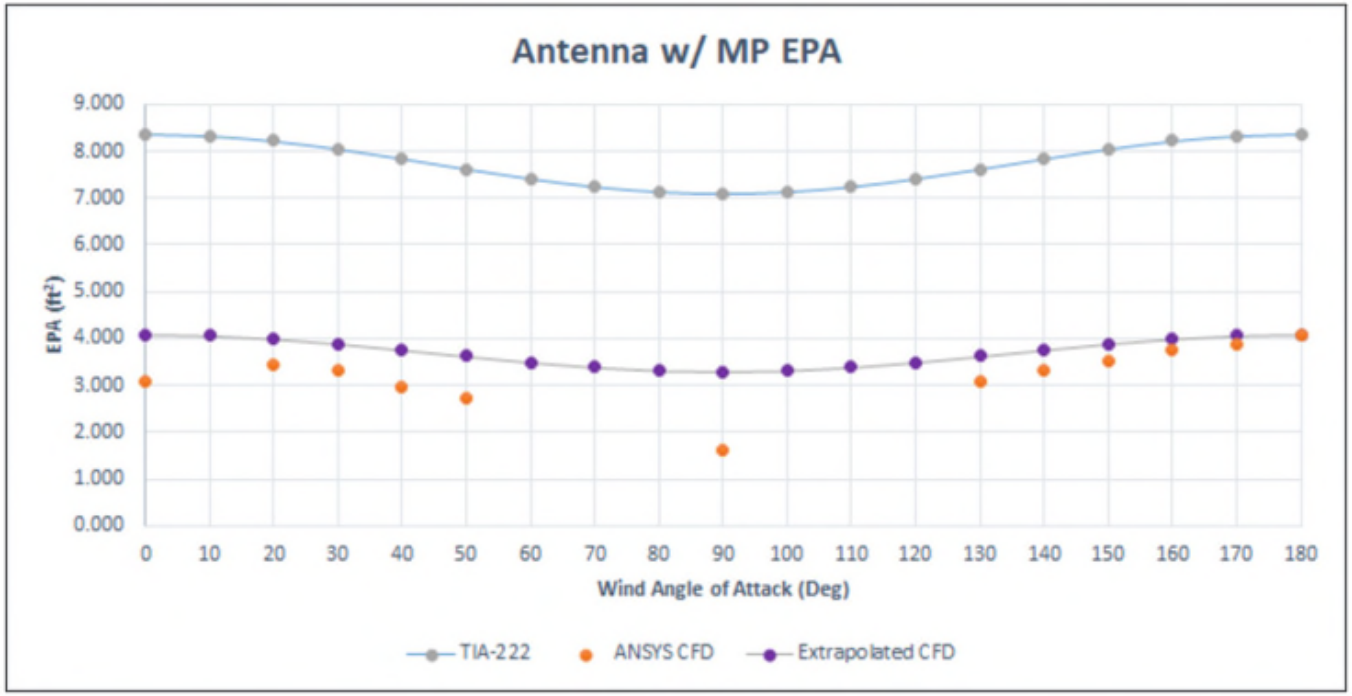




CFD Process

EPA Tool

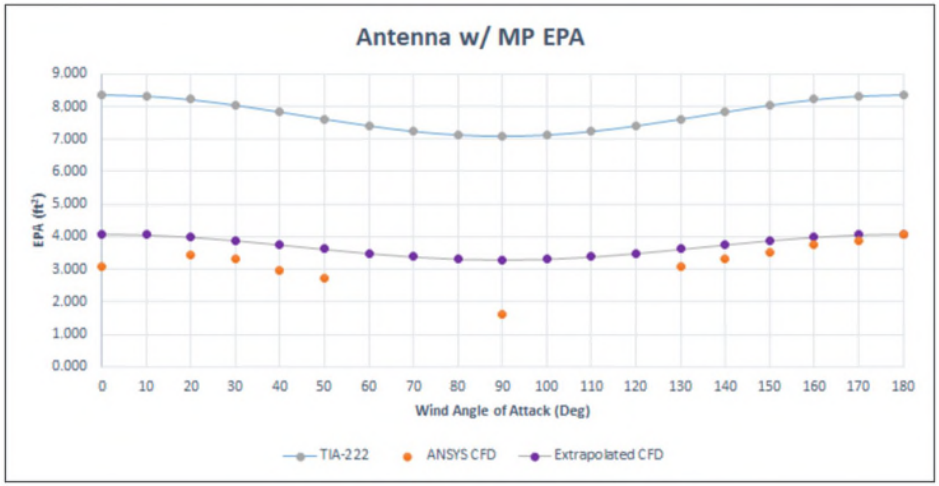
- TIA-222 and tnx → $(EPA)_A = K_a [(EPA)_N \cos^2(\theta) + (EPA)_T \sin^2(\theta)]$
- Extrapolate CFD results to follow the TIA trigonometric formula



CFD Process

EPA Tool

- $EPA)_A curve = K_a * [(EPA)_N \cos^2(\theta) + (EPA)_T \sin^2(\theta)]$
  TIA-222 section 2.6.11.2
- $PAcurve = [(PA)_N \cos^2(\theta) + (PA)_T \sin^2(\theta)]$
  created from PAs at 0° and 90°
- ANSYS CFD EPA= CFDdragforce/(.00256*V^2)
  ANSYS CFD EPA points are back calculated from CFDdragforce values using the force equation from TIA-222 2.6.11.2
- Extrapolation factor(EF) = ANSYS CFD EPA/PA
  determined at all degrees a CFD point exists



- Extrapolated CFD EPA curve = MaxEF * $[(PA)_N \cos^2(\theta) + (PA)_T \sin^2(\theta)]$

CFD Process

Report

Date: 3/11/2019

Subject: **Computational Fluid Dynamics Analysis Report**

Antenna Manufacturer: **Commscope**
Model Number: **SBNH-1D6565B**
Antenna Height: **72.7 in.**
Antenna Width: **11.9 in.**
Antenna Depth: **7.1 in.**

Based on our analysis, using the procedure outlined in *ENG-PRC-10367 Antenna EPA Determination using Computational Fluid Dynamics*, we have determined the EPA and weight of the antenna to be the following values:

Table 1 – Antenna EPA for tnxTower Input

	C_aA_a Front (ft^2)					C_aA_a Side (ft^2)				
	No Ice	1/2" Ice	1" Ice	2" Ice	4" Ice	No Ice	1/2" Ice	1" Ice	2" Ice	4" Ice
Antenna	4.16	4.57	4.98	5.85	7.69	2.49	2.88	3.27	4.09	5.84
Antenna with Mount Pipe	4.09	4.49	4.89	5.71	7.47	3.3	3.68	4.06	4.87	6.59

Table 2 – Antenna Weight for tnxTower Input

	Weight (lbs)				
	No Ice	1/2" Ice	1" Ice	2" Ice	4" Ice
Antenna	47.4	97.91	154.55	287.03	634.2
Antenna with Mount Pipe	73.21	136.26	210.15	391.86	900.68

CFD analysis prepared by:

Respectfully Submitted by:

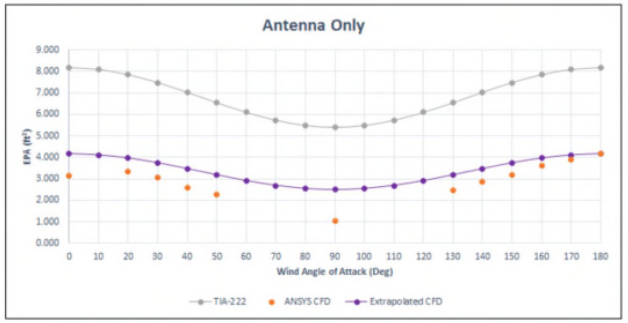


Figure 1 – EPA Graph for Antenna

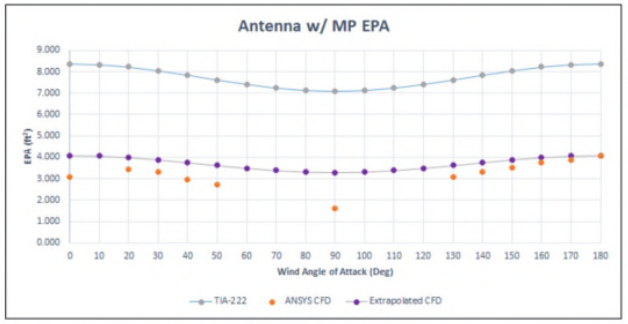


Figure 2 – EPA Graph for Antenna with Mount Pipe

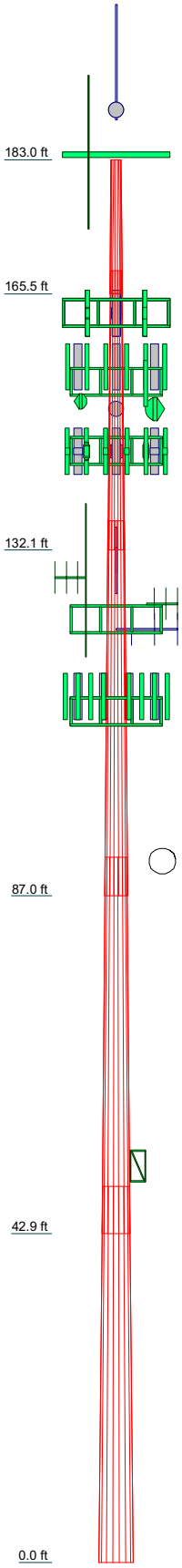
tnxTower Input

- tnxTower Database will need updated with new EPA values
- Proposing to update the existing antenna model number entry with the new EPA , and create a new entry corresponding to the TIA calculated EPA and tag with"_TIA" at the end

Table 1 – Antenna EPA for tnxTower Input

	C_aA_a Front (ft^2)					C_aA_a Side (ft^2)				
	No Ice	1/2" Ice	1" Ice	2" Ice	4" Ice	No Ice	1/2" Ice	1" Ice	2" Ice	4" Ice
Antenna	4.16	4.57	4.98	5.85	7.69	2.49	2.88	3.27	4.09	5.84
Antenna with Mount Pipe	4.09	4.49	4.89	5.71	7.47	3.3	3.68	4.06	4.87	6.59

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	17.5000	18	0.1875	3.0000	15.5000	19.4200		0.6
2	36.4200	18	0.2500	3.8300	18.3730	26.4100		2.2
3	48.9200	18	0.3750	5.0000	25.0648	35.8800		6.0
4	49.0800	18	0.4375	6.1700	34.0246	44.8800		9.0
5	49.0800	18	0.4375		42.6403	53.5000		11.0
							A572-65	28.8



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Lightning Rod w/ Pipe Extension	189.75	RRUS 32 B30	145
HPD2-18RS	189.5	RRUS 32 B30	145
HPD2-18RS	189.5	RRUS 32 B30	145
24' 4-Bay Dipole	184	DC6-48-60-18-8C	145
9" x 9" x 3.5" TMA	184	DC6-48-60-18-8C	145
9" x 9" x 3.5" TMA	184	RRUS 11 B12	145
14' Low Profile Platform	184	RRUS 11 B12	145
24' 4-Bay Dipole	184	RRUS 11 B12	145
AIR 32 B2a/B66Aa w/ Mount Pipe	163	RRUS 4478 B5	145
Ericsson AIR6449 B41 w/ Mount Pipe	163	RRUS 4478 B5	145
Ericsson AIR6449 B41 w/ Mount Pipe	163	RRUS 4478 B5	145
Ericsson AIR6449 B41 w/ Mount Pipe	163	NNH4-65B-R6	145
AIR 3246 B66 w/ Mount Pipe	163	NNH4-65C-R6	145
AIR 3246 B66 w/ Mount Pipe	163	NNH4-65C-R6	145
AIR 3246 B66 w/ Mount Pipe	163	RRUS E2 B29	145
APXVAARR24_43-U-NA20 w/ Mount Pipe	163	RRUS E2 B29	145
		RRUS E2 B29	145
APXVAARR24_43-U-NA20 w/ Mount Pipe	163	RRUS 12 B2	145
		RRUS 12 B2	145
APXVAARR24_43-U-NA20 w/ Mount Pipe	163	RRUS 12 B2	145
Radio 4449 B71+B85_T-Mobile	163	RRUS 4478 B14	145
Radio 4449 B71+B85_T-Mobile	163	RRUS 4478 B14	145
Radio 4449 B71+B85_T-Mobile	163	RRUS 4478 B14	145
RRUS 4415 B25	163	RRU A2	145
RRUS 4415 B25	163	RRU A2	145
RRUS 4415 B25	163	RRU A2	145
Platform Mount [LP 1201-1_HR-1]	163	DC6-48-60-0-8C	145
Site Pro 1 (P/N: PRK-1245L)	163	DC6-48-60-0-8C	145
AIR 32 B2a/B66Aa w/ Mount Pipe	163	Platform Mount [LP 301-1_KCKR]	145
AIR 32 B2a/B66Aa w/ Mount Pipe	163	800 10121	145
Ring Mount	159	800 10121	145
APXVTM14-C-120 w/ Mount Pipe	154	(2) OPA-65R-LCUU-H6	145
APXVTM14-C-120 w/ Mount Pipe	154	800 10121	145
APXVTM14-C-120 w/ Mount Pipe	154	(2) OPA-65R-LCUU-H8	145
RRH2X50-800	154	15' Whip	132.08
RRH2X50-800	154	5'-6" Whip	129.42
RRH2X50-800	154	24" Yagi	128.5
TD-RRH8x20	154	20' 4-Bay Dipole	128.17
TD-RRH8x20	154	15" Yagi	125.08
TD-RRH8x20	154	13' Low Profile Platform	123
(2) PCS 1900MHz 4x45W-65MHz	154	2'6" Yagi	121.75
(2) PCS 1900MHz 4x45W-65MHz	154	(2) NNHH-65B-R4 w/ Mount Pipe	111
(2) PCS 1900MHz 4x45W-65MHz	154	RRFDC-3315-PF-48	111
18" x 18" x 6.5" Junction Box	154	RRFDC-3315-PF-48	111
13' Low Profile Platform	154	B5/B13 RRH-BR04C	111
APXVSPP18-C w/ Mount Pipe	154	B5/B13 RRH-BR04C	111
APXVSPP18-C w/ Mount Pipe	154	B5/B13 RRH-BR04C	111
APXVSPP18-C w/ Mount Pipe	154	B2/B66A RRH-BR049	111
MTI1669	153.83	B2/B66A RRH-BR049	111
Andrew VHLP2-23	151.5	B2/B66A RRH-BR049	111
3' Dish w/ Randome	150.5	MT6407-77A w/ Mount Pipe	111
Andrew VHLP2-18	150.5	MT6407-77A w/ Mount Pipe	111
(2) OPA-65R-LCUU-H8	145	MT6407-77A w/ Mount Pipe	111
(2) LGP21401	145	RMQP 12' Platform w/ handrails	111
(2) LGP21401	145	LNX-6514DS-A1M w/ Mount Pipe	111
(2) LGP21401	145	(2) NNHH-65B-R4 w/ Mount Pipe	111
(2) LGP21901	145	(2) NNHH-65B-R4 w/ Mount Pipe	111
(2) LGP21901	145	LNX-6514DS-A1M w/ Mount Pipe	111
(2) LGP21901	145	LNX-6514DS-A1M w/ Mount Pipe	111
RRUS 32 B66	145	12" x 2.5" x 1.5" TMA	51.75
RRUS 32 B66	145	3' Side Mount Standoff	51.75
RRUS 32 B66	145	GPS	51.75

EFI Global, Inc.
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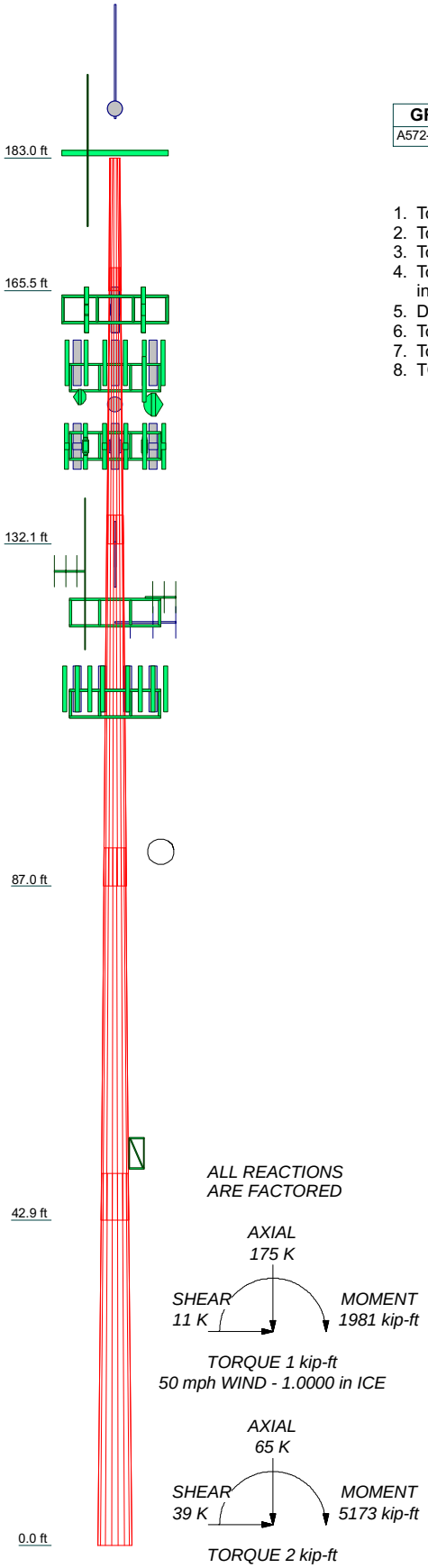
Atlanta, GA 30338
Phone: (470) 990-6593
FAX:

Job: ***Manchester Green CT***			
Project: ***049.02346 - 2199001***			
Client: SAI Group	Drawn by: Evan.Martin	App'd:	
Code: TIA-222-G	Date: 10/08/21	Scale: NTS	
Path:		Dwg No. E-1	

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	17.5000	18	0.1875	3.0000	15.5000	19.4200	A572-65	0.6
2	36.4200	18	0.2500	3.8300	18.3730	26.4100		2.2
3	48.9200	18	0.3750	5.0000	25.0648	35.8800		6.0
4	49.0800	18	0.4375	6.1700	34.0246	44.8800		9.0
5	49.0800	18	0.4375		42.6403	53.5000		11.0
								28.8



MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-G Standard.
3. Tower designed for a 105 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Structure Class III.
7. Topographic Category 1 with Crest Height of 0.0000 ft
8. TOWER RATING: 92.8%

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Atlanta, GA 30338
Phone: (470) 990-6593
FAX:

Job: ***Manchester Green CT***		
Project: ***049.02346 - 2199001***		
Client: SAI Group	Drawn by: Evan.Martin	App'd:
Code: TIA-222-G	Date: 10/08/21	Scale: NTS
Path:		Dwg No. E-1

Tower Input Data

The tower is a monopole.
This tower is designed using the TIA-222-G standard.
The following design criteria apply:

Tower is located in Hartford County, Connecticut.
ASCE 7-10 Wind Data is used (wind speeds converted to nominal values).
Basic wind speed of 105 mph.
Structure Class III.
Exposure Category B.
Topographic Category 1.
Crest Height 0.0000 ft.
Nominal ice thickness of 1.0000 in.
Ice thickness is considered to increase with height.
Ice density of 56.00 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50 °F.
Deflections calculated using a wind speed of 60 mph.
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in pole design is 1.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

	Consider Moments - Legs		Distribute Leg Loads As Uniform		Use ASCE 10 X-Brace Ly Rules
	Consider Moments - Horizontals		Assume Legs Pinned		Calculate Redundant Bracing Forces
	Consider Moments - Diagonals	√	Assume Rigid Index Plate		Ignore Redundant Members in FEA
	Use Moment Magnification	√	Use Clear Spans For Wind Area		SR Leg Bolts Resist Compression
√	Use Code Stress Ratios		Use Clear Spans For KL/r		All Leg Panels Have Same Allowable
√	Use Code Safety Factors - Guys		Retension Guys To Initial Tension		Offset Girt At Foundation
	Escalate Ice	√	Bypass Mast Stability Checks	√	Consider Feed Line Torque
	Always Use Max Kz	√	Use Azimuth Dish Coefficients		Include Angle Block Shear Check
	Use Special Wind Profile	√	Project Wind Area of Appurt.		Use TIA-222-G Bracing Resist. Exemption
	Include Bolts In Member Capacity		Autocalc Torque Arm Areas		Use TIA-222-G Tension Splice Exemption
	Leg Bolts Are At Top Of Section		Add IBC .6D+W Combination		Poles
	Secondary Horizontal Braces Leg		Sort Capacity Reports By Component	√	Include Shear-Torsion Interaction
	Use Diamond Inner Bracing (4 Sided)		Triangulate Diamond Inner Bracing		Always Use Sub-Critical Flow
	SR Members Have Cut Ends		Treat Feed Line Bundles As Cylinder		Use Top Mounted Sockets
	SR Members Are Concentric		Ignore KL/ry For 60 Deg. Angle Legs		Pole Without Linear Attachments
					Pole With Shroud Or No Appurtenances
					Outside and Inside Corner Radii Are Known

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	183.0000-165.5000	17.5000	3.00	18	15.5000	19.4200	0.1875	0.7500	A572-65 (65 ksi)
L2	165.5000-132.0800	36.4200	3.83	18	18.3730	26.4100	0.2500	1.0000	A572-65 (65 ksi)
L3	132.0800-86.9900	48.9200	5.00	18	25.0648	35.8800	0.3750	1.5000	A572-65 (65 ksi)
L4	86.9900-42.9100	49.0800	6.17	18	34.0246	44.8800	0.4375	1.7500	A572-65 (65 ksi)
L5	42.9100-0.0000	49.0800		18	42.6403	53.5000	0.4375	1.7500	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L1	15.7102	9.1129	269.9504	5.4359	7.8740	34.2838	540.2560	4.5573	2.3980	12.789
	19.6907	11.4457	534.8757	6.8275	9.8654	54.2176	1070.4552	5.7240	3.0879	16.469
L2	19.2901	14.3806	596.7256	6.4337	9.3335	63.9339	1194.2363	7.1917	2.7936	11.175
	26.7789	20.7580	1794.7237	9.2868	13.4163	133.7721	3591.8090	10.3810	4.2082	16.833
L3	26.2534	29.3870	2263.2318	8.7649	12.7329	177.7464	4529.4417	14.6963	3.7514	10.004
	36.3757	42.2598	6730.4514	12.6043	18.2270	369.2564	13469.7589	21.1339	5.6549	15.08
L4	35.6049	46.6399	6647.2213	11.9234	17.2845	384.5770	13303.1892	23.3244	5.2183	11.928
	45.5049	61.7140	15399.8990	15.7771	22.7990	675.4626	30820.0616	30.8628	7.1289	16.295
L5	44.6169	58.6039	13187.0389	14.9820	21.6613	608.7836	26391.4297	29.3075	6.7347	15.394
	54.2578	73.6839	26211.1184	18.8372	27.1780	964.4241	52456.7261	36.8490	8.6460	19.762

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 183.0000-165.5000				1	1	1			
L2 165.5000-132.0800				1	1	1			
L3 132.0800-86.9900				1	1	1			
L4 86.9900-42.9100				1	1	1			
L5 42.9100-0.0000				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight klf
LDF4P-50A(1/2")	A	No	Surface Ar (CaAa)	156.0000 - 5.0000	3	3	0.000 0.000	0.6300		0.00
2-1/2"	A	No	Surface Ar (CaAa)	156.0000 - 5.0000	2	2	0.000 0.000	2.3800		0.00
***										
6x12 Hybriflex	B	No	Surface Ar (CaAa)	113.0000 - 5.0000	2	2	0.000 0.000	1.9800		0.00
****										
*****										
7" x 0.5" Flat	A	No	Surface Af (CaAa)	43.0800 - 0.0000	1	1	-0.250 -0.083	7.0000	15.0000	0.00
7" x 0.5" Flat	A	No	Surface Af (CaAa)	43.0800 - 0.0000	1	1	0.250 0.417	7.0000	15.0000	0.00
7" x 0.5" Flat	B	No	Surface Af (CaAa)	43.0800 - 0.0000	1	1	-0.417 -0.250	7.0000	15.0000	0.00
7" x 0.5" Flat	B	No	Surface Af (CaAa)	43.0800 - 0.0000	1	1	0.250 0.417	7.0000	15.0000	0.00
7" x 0.5" Flat	C	No	Surface Af (CaAa)	43.0800 - 0.0000	1	1	-0.250 -0.083	7.0000	15.0000	0.00
7" x 0.5" Flat	C	No	Surface Af (CaAa)	43.0800 - 0.0000	1	1	0.083 0.250	7.0000	15.0000	0.00
6" x 0.25" Flat	A	No	Surface Af (CaAa)	87.6700 - 43.0800	1	1	-0.250 -0.083	6.0000	12.5000	0.00
6" x 0.25" Flat	A	No	Surface Af (CaAa)	87.6700 - 43.0800	1	1	0.250 0.417	6.0000	12.5000	0.00
6" x 0.25" Flat	B	No	Surface Af (CaAa)	87.6700 - 43.0800	1	1	-0.417 -0.250	6.0000	12.5000	0.00
6" x 0.25" Flat	B	No	Surface Af (CaAa)	87.6700 - 43.0800	1	1	0.250 0.417	6.0000	12.5000	0.00
6" x 0.25" Flat	C	No	Surface Af (CaAa)	87.6700 - 43.0800	1	1	-0.250 -0.083	6.0000	12.5000	0.00
6" x 0.25" Flat	C	No	Surface Af (CaAa)	87.6700 - 43.0800	1	1	0.083 0.250	6.0000	12.5000	0.00
5" x 0.25" Flat	A	No	Surface Af (CaAa)	117.5800 - 87.6700	1	1	-0.250 -0.083	5.0000	10.5000	0.00
5" x 0.25" Flat	A	No	Surface Af (CaAa)	117.5800 - 87.6700	1	1	0.250 0.417	5.0000	10.5000	0.00
5" x 0.25" Flat	B	No	Surface Af (CaAa)	117.5800 - 87.6700	1	1	-0.417 -0.250	5.0000	10.5000	0.00
5" x 0.25" Flat	B	No	Surface Af (CaAa)	117.5800 - 87.6700	1	1	0.250 0.417	5.0000	10.5000	0.00
5" x 0.25" Flat	C	No	Surface Af (CaAa)	117.5800 - 87.6700	1	1	-0.250 -0.083	5.0000	10.5000	0.00
5" x 0.25" Flat	C	No	Surface Af (CaAa)	117.5800 - 87.6700	1	1	0.083 0.250	5.0000	10.5000	0.00

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight klf
LDF5-50A(7/8")	B	No	No	Inside Pole	183.0000 - 5.0000	4	No Ice	0.0000	0.00
							1/2" Ice	0.0000	0.00
							1" Ice	0.0000	0.00
LDF2-50A(3/8")	B	No	No	Inside Pole	183.0000 - 5.0000	2	No Ice	0.0000	0.00
							1/2" Ice	0.0000	0.00

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight klf
							1" Ice	0.0000	0.00
LCF12-50J-P7(5/8")	B	No	No	Inside Pole	183.0000 - 5.0000	1	No Ice	0.0000	0.00
							1/2" Ice	0.0000	0.00
							1" Ice	0.0000	0.00
***									
LDF6-50A(1-1/4")	A	No	No	Inside Pole	156.0000 - 5.0000	4	No Ice	0.0000	0.00
							1/2" Ice	0.0000	0.00
							1" Ice	0.0000	0.00
LDF4P-50A(1/2")	A	No	No	Inside Pole	156.0000 - 5.0000	2	No Ice	0.0000	0.00
							1/2" Ice	0.0000	0.00
							1" Ice	0.0000	0.00
***									
LDF7-50A(1-5/8")	B	No	No	Inside Pole	145.0000 - 5.0000	6	No Ice	0.0000	0.00
							1/2" Ice	0.0000	0.00
							1" Ice	0.0000	0.00
DC Power Cables	B	No	No	Inside Pole	145.0000 - 5.0000	2	No Ice	0.0000	0.00
							1/2" Ice	0.0000	0.00
							1" Ice	0.0000	0.00
Fiber Cables	B	No	No	Inside Pole	145.0000 - 5.0000	8	No Ice	0.0000	0.00
							1/2" Ice	0.0000	0.00
							1" Ice	0.0000	0.00
***									
LCF12-50J-P7(5/8")	B	No	No	Inside Pole	124.0000 - 5.0000	7	No Ice	0.0000	0.00
							1/2" Ice	0.0000	0.00
							1" Ice	0.0000	0.00
***									
LDF4P-50A(1/2")	A	No	No	Inside Pole	51.7500 - 5.0000	1	No Ice	0.0000	0.00
							1/2" Ice	0.0000	0.00
							1" Ice	0.0000	0.00
0.2" Cable	A	No	No	Inside Pole	51.7500 - 5.0000	2	No Ice	0.0000	0.00
							1/2" Ice	0.0000	0.00
							1" Ice	0.0000	0.00
T-Mobile									
LDF7-50A(1-5/8")	C	No	No	Inside Pole	163.0000 - 5.0000	21	No Ice	0.0000	0.00
							1/2" Ice	0.0000	0.00
							1" Ice	0.0000	0.00
9x18 MLE Hybrid Line - 40mm	C	No	No	Inside Pole	163.0000 - 5.0000	1	No Ice	0.0000	0.00
							1/2" Ice	0.0000	0.00
							1" Ice	0.0000	0.00
HCS 6X12 4AWG (1-5/8")	C	No	No	Inside Pole	163.0000 - 5.0000	3	No Ice	0.0000	0.00
							1/2" Ice	0.0000	0.00
							1" Ice	0.0000	0.00
****									

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	183.0000-165.500	A	0.000	0.000	0.000	0.000	0.00
	0	B	0.000	0.000	0.000	0.000	0.03
		C	0.000	0.000	0.000	0.000	0.00
L2	165.5000-132.080	A	0.000	0.000	15.907	0.000	0.14
	0	B	0.000	0.000	0.000	0.000	0.24

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		C	0.000	0.000	0.000	0.000	0.68
L3	132.0800-86.9900	A	0.000	0.000	81.195	0.000	0.26
		B	0.000	0.000	61.510	0.000	0.80
		C	0.000	0.000	51.210	0.000	0.99
L4	86.9900-42.9100	A	0.000	0.000	117.530	0.000	0.25
		B	0.000	0.000	105.672	0.000	0.82
		C	0.000	0.000	88.217	0.000	0.96
L5	42.9100-0.0000	A	0.000	0.000	125.333	0.000	0.23
		B	0.000	0.000	115.136	0.000	0.71
		C	0.000	0.000	100.123	0.000	0.83

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	183.0000-165.500	A	2.952	0.000	0.000	0.000	0.000	0.00
	0	B		0.000	0.000	0.000	0.000	0.03
		C		0.000	0.000	0.000	0.000	0.00
L2	165.5000-132.080	A	2.905	0.000	0.000	55.190	0.000	1.12
	0	B		0.000	0.000	0.000	0.000	0.24
		C		0.000	0.000	0.000	0.000	0.68
L3	132.0800-86.9900	A	2.816	0.000	0.000	189.724	0.000	3.55
		B		0.000	0.000	118.517	0.000	2.86
		C		0.000	0.000	86.753	0.000	2.47
L4	86.9900-42.9100	A	2.674	0.000	0.000	236.590	0.000	4.18
		B		0.000	0.000	190.731	0.000	3.99
		C		0.000	0.000	137.875	0.000	3.20
L5	42.9100-0.0000	A	2.388	0.000	0.000	228.206	0.000	3.81
		B		0.000	0.000	190.119	0.000	3.69
		C		0.000	0.000	146.014	0.000	3.07

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	183.0000-165.5000	0.0000	0.0000	0.0000	0.0000
L2	165.5000-132.0800	-3.0674	-1.7710	-3.1001	-1.7898
L3	132.0800-86.9900	-1.2643	-0.7788	-1.6315	-1.3495
L4	86.9900-42.9100	-0.9004	-0.5505	-1.1923	-1.3149
L5	42.9100-0.0000	-0.9494	-0.3005	-1.2546	-1.1624

Note: For pole sections, center of pressure calculations do not consider feed line shielding.

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L2	7	LDF4P-50A(1/2")	132.08 - 156.00	1.0000	1.0000
L2	8	2-1/2"	132.08 - 156.00	1.0000	1.0000
L3	7	LDF4P-50A(1/2")	86.99 - 132.08	1.0000	1.0000
L3	8	2-1/2"	86.99 - 132.08	1.0000	1.0000
L3	16	6x12 Hybriflex	86.99 - 113.00	1.0000	1.0000
L3	32	6" x 0.25" Flat	86.99 - 87.67	1.0000	1.0000
L3	33	6" x 0.25" Flat	86.99 - 87.67	1.0000	1.0000
L3	34	6" x 0.25" Flat	86.99 - 87.67	1.0000	1.0000
L3	35	6" x 0.25" Flat	86.99 - 87.67	1.0000	1.0000
L3	36	6" x 0.25" Flat	86.99 - 87.67	1.0000	1.0000
L3	37	6" x 0.25" Flat	86.99 - 87.67	1.0000	1.0000
L3	38	5" x 0.25" Flat	87.67 - 117.58	1.0000	1.0000
L3	39	5" x 0.25" Flat	87.67 - 117.58	1.0000	1.0000
L3	40	5" x 0.25" Flat	87.67 - 117.58	1.0000	1.0000
L3	41	5" x 0.25" Flat	87.67 - 117.58	1.0000	1.0000
L3	42	5" x 0.25" Flat	87.67 - 117.58	1.0000	1.0000
L3	43	5" x 0.25" Flat	87.67 - 117.58	1.0000	1.0000
L4	7	LDF4P-50A(1/2")	42.91 - 86.99	1.0000	1.0000
L4	8	2-1/2"	42.91 - 86.99	1.0000	1.0000
L4	16	6x12 Hybriflex	42.91 - 86.99	1.0000	1.0000
L4	26	7" x 0.5" Flat	42.91 - 43.08	1.0000	1.0000
L4	27	7" x 0.5" Flat	42.91 - 43.08	1.0000	1.0000
L4	28	7" x 0.5" Flat	42.91 - 43.08	1.0000	1.0000
L4	29	7" x 0.5" Flat	42.91 - 43.08	1.0000	1.0000
L4	30	7" x 0.5" Flat	42.91 - 43.08	1.0000	1.0000
L4	31	7" x 0.5" Flat	42.91 - 43.08	1.0000	1.0000
L4	32	6" x 0.25" Flat	43.08 - 86.99	1.0000	1.0000
L4	33	6" x 0.25" Flat	43.08 - 86.99	1.0000	1.0000
L4	34	6" x 0.25" Flat	43.08 - 86.99	1.0000	1.0000
L4	35	6" x 0.25" Flat	43.08 - 86.99	1.0000	1.0000
L4	36	6" x 0.25" Flat	43.08 - 86.99	1.0000	1.0000
L4	37	6" x 0.25" Flat	43.08 - 86.99	1.0000	1.0000
L5	7	LDF4P-50A(1/2")	5.00 - 42.91	1.0000	1.0000
L5	8	2-1/2"	5.00 - 42.91	1.0000	1.0000
L5	16	6x12 Hybriflex	5.00 - 42.91	1.0000	1.0000
L5	26	7" x 0.5" Flat	0.00 - 42.91	1.0000	1.0000
L5	27	7" x 0.5" Flat	0.00 - 42.91	1.0000	1.0000
L5	28	7" x 0.5" Flat	0.00 - 42.91	1.0000	1.0000
L5	29	7" x 0.5" Flat	0.00 - 42.91	1.0000	1.0000
L5	30	7" x 0.5" Flat	0.00 - 42.91	1.0000	1.0000
L5	31	7" x 0.5" Flat	0.00 - 42.91	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral (ft) / Vert (ft)	Azimuth Adjustment (°)	Placement (ft)		C_AA_A Front (ft^2)	C_AA_A Side (ft^2)	Weight (K)
Lightning Rod w/ Pipe Extension	A	From Leg	1.0000 0.00	0.0000	189.7500	No Ice 1/2" Ice	2.5800 4.0200	2.5800 4.0200	0.05 0.08

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			6.00			1" Ice	5.4600	5.4600	0.11
14' Low Profile Platform	A	None		0.0000	184.0000	No Ice	15.7000	15.7000	1.30
						1/2" Ice	20.1000	20.1000	1.76
						1" Ice	24.5000	24.5000	2.23
24' 4-Bay Dipole	C	From Leg	3.5000	0.0000	184.0000	No Ice	4.7500	4.7500	0.05
			0.00			1/2" Ice	6.2500	6.2500	0.08
			0.00			1" Ice	7.7500	7.7500	0.11
24' 4-Bay Dipole	C	From Leg	3.5000	0.0000	184.0000	No Ice	4.7500	4.7500	0.05
			0.00			1/2" Ice	6.2500	6.2500	0.08
			0.00			1" Ice	7.7500	7.7500	0.11
9" x 9" x 3.5" TMA	A	From Leg	3.5000	0.0000	184.0000	No Ice	0.6750	0.2632	0.01
			0.00			1/2" Ice	0.7787	0.3356	0.02
			5.50			1" Ice	0.8898	0.4162	0.02
9" x 9" x 3.5" TMA	C	From Leg	3.5000	0.0000	184.0000	No Ice	0.6750	0.2632	0.01
			0.00			1/2" Ice	0.7787	0.3356	0.02
			5.50			1" Ice	0.8898	0.4162	0.02
163'									
AIR 32 B2a/B66Aa w/ Mount Pipe	A	From Leg	3.5000	0.0000	163.0000	No Ice	3.7600	3.1500	0.19
			0.00			1/2" Ice	4.1200	3.4900	0.25
			0.00			1" Ice	4.4800	3.8400	0.32
AIR 32 B2a/B66Aa w/ Mount Pipe	B	From Leg	3.5000	0.0000	163.0000	No Ice	3.7600	3.1500	0.19
			0.00			1/2" Ice	4.1200	3.4900	0.25
			0.00			1" Ice	4.4800	3.8400	0.32
AIR 32 B2a/B66Aa w/ Mount Pipe	C	From Leg	3.5000	0.0000	163.0000	No Ice	3.7600	3.1500	0.19
			0.00			1/2" Ice	4.1200	3.4900	0.25
			0.00			1" Ice	4.4800	3.8400	0.32
Ericsson AIR6449 B41 w/ Mount Pipe	A	From Leg	3.5000	0.0000	163.0000	No Ice	6.8995	4.3156	0.13
			0.00			1/2" Ice	7.7436	5.3695	0.19
			0.00			1" Ice	8.4932	6.2751	0.26
Ericsson AIR6449 B41 w/ Mount Pipe	B	From Leg	3.5000	0.0000	163.0000	No Ice	6.8995	4.3156	0.13
			0.00			1/2" Ice	7.7436	5.3695	0.19
			0.00			1" Ice	8.4932	6.2751	0.26
Ericsson AIR6449 B41 w/ Mount Pipe	C	From Leg	3.5000	0.0000	163.0000	No Ice	6.8995	4.3156	0.13
			0.00			1/2" Ice	7.7436	5.3695	0.19
			0.00			1" Ice	8.4932	6.2751	0.26
AIR 3246 B66 w/ Mount Pipe	A	From Leg	3.5000	0.0000	163.0000	No Ice	7.3100	5.4600	0.20
			0.00			1/2" Ice	7.8900	6.0000	0.27
			0.00			1" Ice	8.4800	6.5700	0.34
AIR 3246 B66 w/ Mount Pipe	B	From Leg	3.5000	0.0000	163.0000	No Ice	7.3100	5.4600	0.20
			0.00			1/2" Ice	7.8900	6.0000	0.27
			0.00			1" Ice	8.4800	6.5700	0.34
AIR 3246 B66 w/ Mount Pipe	C	From Leg	3.5000	0.0000	163.0000	No Ice	7.3100	5.4600	0.20
			0.00			1/2" Ice	7.8900	6.0000	0.27
			0.00			1" Ice	8.4800	6.5700	0.34
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	3.5000	0.0000	163.0000	No Ice	14.6900	6.8700	0.19
			0.00			1/2" Ice	15.4600	7.5500	0.31
			0.00			1" Ice	16.2300	8.2500	0.46
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	3.5000	0.0000	163.0000	No Ice	14.6900	6.8700	0.19
			0.00			1/2" Ice	15.4600	7.5500	0.31
			0.00			1" Ice	16.2300	8.2500	0.46
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	3.5000	0.0000	163.0000	No Ice	14.6900	6.8700	0.19
			0.00			1/2" Ice	15.4600	7.5500	0.31
			0.00			1" Ice	16.2300	8.2500	0.46
Radio 4449 B71+B85_T-Mobile	A	From Leg	3.5000	0.0000	163.0000	No Ice	1.9701	1.5865	0.07
			0.00			1/2" Ice	2.1466	1.7488	0.09
			0.00			1" Ice	2.3306	1.9185	0.12
Radio 4449	B	From Leg	3.5000	0.0000	163.0000	No Ice	1.9701	1.5865	0.07

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
B71+B85_T-Mobile			0.00			1/2" Ice	2.1466	1.7488	0.09
			0.00			1" Ice	2.3306	1.9185	0.12
Radio 4449	C	From Leg	3.5000	0.0000	163.0000	No Ice	1.9701	1.5865	0.07
B71+B85_T-Mobile			0.00			1/2" Ice	2.1466	1.7488	0.09
			0.00			1" Ice	2.3306	1.9185	0.12
RRUS 4415 B25	A	From Leg	3.5000	0.0000	163.0000	No Ice	1.6444	0.6788	0.04
			0.00			1/2" Ice	1.8044	0.7911	0.06
			0.00			1" Ice	1.9719	0.9129	0.07
RRUS 4415 B25	B	From Leg	3.5000	0.0000	163.0000	No Ice	1.6444	0.6788	0.04
			0.00			1/2" Ice	1.8044	0.7911	0.06
			0.00			1" Ice	1.9719	0.9129	0.07
RRUS 4415 B25	C	From Leg	3.5000	0.0000	163.0000	No Ice	1.6444	0.6788	0.04
			0.00			1/2" Ice	1.8044	0.7911	0.06
			0.00			1" Ice	1.9719	0.9129	0.07
Platform Mount [LP 1201-1_HR-1]	C	None		0.0000	163.0000	No Ice	26.3900	26.3900	2.36
						1/2" Ice	31.4000	31.4000	3.06
						1" Ice	36.2000	36.2000	3.86
Site Pro 1 (P/N: PRK-1245L)	C	None		0.0000	163.0000	No Ice	6.3200	4.8500	0.28
						1/2" Ice	7.7900	6.3600	0.42
						1" Ice	9.3600	7.9400	0.60
153									
APXVSPP18-C w/ Mount Pipe	A	From Leg	3.5000	0.0000	154.0000	No Ice	4.6000	4.0100	0.09
			0.00			1/2" Ice	5.0500	4.4500	0.15
			2.00			1" Ice	5.5000	4.8900	0.23
APXVSPP18-C w/ Mount Pipe	B	From Leg	3.5000	0.0000	154.0000	No Ice	4.6000	4.0100	0.09
			0.00			1/2" Ice	5.0500	4.4500	0.15
			2.00			1" Ice	5.5000	4.8900	0.23
APXVSPP18-C w/ Mount Pipe	C	From Leg	3.5000	0.0000	154.0000	No Ice	4.6000	4.0100	0.09
			0.00			1/2" Ice	5.0500	4.4500	0.15
			2.00			1" Ice	5.5000	4.8900	0.23
APXVTM14-C-120 w/ Mount Pipe	A	From Leg	3.5000	0.0000	154.0000	No Ice	4.0900	2.8600	0.08
			0.00			1/2" Ice	4.4800	3.2300	0.13
			2.00			1" Ice	4.8800	3.6100	0.19
APXVTM14-C-120 w/ Mount Pipe	B	From Leg	3.5000	0.0000	154.0000	No Ice	4.0900	2.8600	0.08
			0.00			1/2" Ice	4.4800	3.2300	0.13
			2.00			1" Ice	4.8800	3.6100	0.19
APXVTM14-C-120 w/ Mount Pipe	C	From Leg	3.5000	0.0000	154.0000	No Ice	4.0900	2.8600	0.08
			0.00			1/2" Ice	4.4800	3.2300	0.13
			2.00			1" Ice	4.8800	3.6100	0.19
RRH2X50-800	A	From Leg	3.5000	0.0000	154.0000	No Ice	1.7008	1.2822	0.05
			0.00			1/2" Ice	1.8640	1.4275	0.07
			2.00			1" Ice	2.0345	1.5803	0.09
RRH2X50-800	B	From Leg	3.5000	0.0000	154.0000	No Ice	1.7008	1.2822	0.05
			0.00			1/2" Ice	1.8640	1.4275	0.07
			2.00			1" Ice	2.0345	1.5803	0.09
RRH2X50-800	C	From Leg	3.5000	0.0000	154.0000	No Ice	1.7008	1.2822	0.05
			0.00			1/2" Ice	1.8640	1.4275	0.07
			2.00			1" Ice	2.0345	1.5803	0.09
TD-RRH8x20	A	From Leg	3.5000	0.0000	154.0000	No Ice	3.7042	1.2939	0.07
			0.00			1/2" Ice	3.9462	1.4646	0.09
			4.50			1" Ice	4.1956	1.6424	0.12
TD-RRH8x20	B	From Leg	3.5000	0.0000	154.0000	No Ice	3.7042	1.2939	0.07
			0.00			1/2" Ice	3.9462	1.4646	0.09
			4.50			1" Ice	4.1956	1.6424	0.12
TD-RRH8x20	C	From Leg	3.5000	0.0000	154.0000	No Ice	3.7042	1.2939	0.07
			0.00			1/2" Ice	3.9462	1.4646	0.09
			4.50			1" Ice	4.1956	1.6424	0.12

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
(2) PCS 1900MHz 4x45W-65MHz	A	From Leg	1.0000 0.00 4.50	0.0000	154.0000	No Ice 1/2" Ice 1" Ice	2.3218 2.5266 2.7388	2.2381 2.4407 2.6507	0.06 0.08 0.11
(2) PCS 1900MHz 4x45W-65MHz	B	From Leg	1.0000 0.00 4.50	0.0000	154.0000	No Ice 1/2" Ice 1" Ice	2.3218 2.5266 2.7388	2.2381 2.4407 2.6507	0.06 0.08 0.11
(2) PCS 1900MHz 4x45W-65MHz	C	From Leg	1.0000 0.00 4.50	0.0000	154.0000	No Ice 1/2" Ice 1" Ice	2.3218 2.5266 2.7388	2.2381 2.4407 2.6507	0.06 0.08 0.11
18" x 18" x 6.5" Junction Box	A	From Leg	1.0000 0.00 0.00	0.0000	154.0000	No Ice 1/2" Ice 1" Ice	2.7000 3.1148 3.5296	1.0528 1.3424 1.6320	0.05 0.07 0.09
13' Low Profile Platform	A	None		0.0000	154.0000	No Ice 1/2" Ice 1" Ice	15.7000 20.1000 24.5000	15.7000 20.1000 24.5000	1.30 1.76 2.23
Ring Mount	C	None		0.0000	159.0000	No Ice 1/2" Ice 1" Ice	1.4000 2.4000 3.4000	1.4000 2.4000 3.4000	0.09 0.13 0.17
154'									
MTI1669	B	From Leg	3.5000 0.00 0.00	0.0000	153.8300	No Ice 1/2" Ice 1" Ice	1.7521 2.0213 2.2905	0.5236 0.7236 0.9236	0.05 0.07 0.09
146									
800 10121	A	From Leg	3.5000 0.00 0.00	0.0000	145.0000	No Ice 1/2" Ice 1" Ice	3.7400 4.1800 4.6300	2.1700 2.5800 3.0000	0.05 0.08 0.12
800 10121	B	From Leg	3.5000 0.00 0.00	0.0000	145.0000	No Ice 1/2" Ice 1" Ice	3.7400 4.1800 4.6300	2.1700 2.5800 3.0000	0.05 0.08 0.12
800 10121	C	From Leg	3.5000 0.00 0.00	0.0000	145.0000	No Ice 1/2" Ice 1" Ice	3.7400 4.1800 4.6300	2.1700 2.5800 3.0000	0.05 0.08 0.12
(2) OPA-65R-LCUU-H6	A	From Leg	3.5000 0.00 0.00	0.0000	145.0000	No Ice 1/2" Ice 1" Ice	9.2000 9.9700 10.7600	4.6300 5.3400 6.0700	0.08 0.14 0.20
(2) OPA-65R-LCUU-H8	B	From Leg	3.5000 0.00 0.00	0.0000	145.0000	No Ice 1/2" Ice 1" Ice	11.9500 12.9200 13.9000	6.0300 6.9300 7.8500	0.07 0.14 0.22
(2) OPA-65R-LCUU-H8	C	From Leg	3.5000 0.00 0.00	0.0000	145.0000	No Ice 1/2" Ice 1" Ice	11.9500 12.9200 13.9000	6.0300 6.9300 7.8500	0.07 0.14 0.22
(2) LGP21401	A	From Leg	3.5000 0.00 0.00	0.0000	145.0000	No Ice 1/2" Ice 1" Ice	1.1040 1.2388 1.3810	0.2070 0.2738 0.3475	0.01 0.02 0.03
(2) LGP21401	B	From Leg	3.5000 0.00 0.00	0.0000	145.0000	No Ice 1/2" Ice 1" Ice	1.1040 1.2388 1.3810	0.2070 0.2738 0.3475	0.01 0.02 0.03
(2) LGP21401	C	From Leg	3.5000 0.00 0.00	0.0000	145.0000	No Ice 1/2" Ice 1" Ice	1.1040 1.2388 1.3810	0.2070 0.2738 0.3475	0.01 0.02 0.03
(2) LGP21901	A	From Leg	3.5000 0.00 0.00	0.0000	145.0000	No Ice 1/2" Ice 1" Ice	0.2310 0.2941 0.3647	0.1575 0.2129 0.2756	0.01 0.01 0.01
(2) LGP21901	B	From Leg	3.5000 0.00 0.00	0.0000	145.0000	No Ice 1/2" Ice 1" Ice	0.2310 0.2941 0.3647	0.1575 0.2129 0.2756	0.01 0.01 0.01
(2) LGP21901	C	From Leg	3.5000	0.0000	145.0000	No Ice	0.2310	0.1575	0.01

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00			1/2" Ice	0.2941	0.2129	0.01
			0.00			1" Ice	0.3647	0.2756	0.01
RRUS 32 B66	A	From Leg	3.5000	0.0000	145.0000	No Ice	2.7427	1.6681	0.05
			0.00			1/2" Ice	2.9647	1.8552	0.07
			0.00			1" Ice	3.1941	2.0493	0.10
RRUS 32 B66	B	From Leg	3.5000	0.0000	145.0000	No Ice	2.7427	1.6681	0.05
			0.00			1/2" Ice	2.9647	1.8552	0.07
			0.00			1" Ice	3.1941	2.0493	0.10
RRUS 32 B66	C	From Leg	3.5000	0.0000	145.0000	No Ice	2.7427	1.6681	0.05
			0.00			1/2" Ice	2.9647	1.8552	0.07
			0.00			1" Ice	3.1941	2.0493	0.10
RRUS 32 B30	A	From Leg	3.5000	0.0000	145.0000	No Ice	2.6923	1.5727	0.06
			0.00			1/2" Ice	2.9115	1.7556	0.08
			0.00			1" Ice	3.1382	1.9455	0.10
RRUS 32 B30	B	From Leg	3.5000	0.0000	145.0000	No Ice	2.6923	1.5727	0.06
			0.00			1/2" Ice	2.9115	1.7556	0.08
			0.00			1" Ice	3.1382	1.9455	0.10
RRUS 32 B30	C	From Leg	3.5000	0.0000	145.0000	No Ice	2.6923	1.5727	0.06
			0.00			1/2" Ice	2.9115	1.7556	0.08
			0.00			1" Ice	3.1382	1.9455	0.10
DC6-48-60-18-8C	A	From Leg	3.5000	0.0000	145.0000	No Ice	1.1450	1.1450	0.03
			0.00			1/2" Ice	1.7924	1.7924	0.05
			0.00			1" Ice	2.0024	2.0024	0.07
DC6-48-60-18-8C	B	From Leg	3.5000	0.0000	145.0000	No Ice	1.1450	1.1450	0.03
			0.00			1/2" Ice	1.7924	1.7924	0.05
			0.00			1" Ice	2.0024	2.0024	0.07
RRUS 11 B12	A	From Leg	3.5000	0.0000	145.0000	No Ice	2.8333	1.1821	0.05
			0.00			1/2" Ice	3.0426	1.3299	0.07
			0.00			1" Ice	3.2593	1.4848	0.10
RRUS 11 B12	B	From Leg	3.5000	0.0000	145.0000	No Ice	2.8333	1.1821	0.05
			0.00			1/2" Ice	3.0426	1.3299	0.07
			0.00			1" Ice	3.2593	1.4848	0.10
RRUS 11 B12	C	From Leg	3.5000	0.0000	145.0000	No Ice	2.8333	1.1821	0.05
			0.00			1/2" Ice	3.0426	1.3299	0.07
			0.00			1" Ice	3.2593	1.4848	0.10
RRUS 4478 B5	A	From Leg	3.5000	0.0000	145.0000	No Ice	1.8425	1.0588	0.06
			0.00			1/2" Ice	2.0123	1.1969	0.08
			0.00			1" Ice	2.1895	1.3425	0.09
RRUS 4478 B5	B	From Leg	3.5000	0.0000	145.0000	No Ice	1.8425	1.0588	0.06
			0.00			1/2" Ice	2.0123	1.1969	0.08
			0.00			1" Ice	2.1895	1.3425	0.09
RRUS 4478 B5	C	From Leg	3.5000	0.0000	145.0000	No Ice	1.8425	1.0588	0.06
			0.00			1/2" Ice	2.0123	1.1969	0.08
			0.00			1" Ice	2.1895	1.3425	0.09
NNH4-65B-R6	A	From Leg	3.5000	0.0000	145.0000	No Ice	7.6200	3.0100	0.10
			0.00			1/2" Ice	8.1200	3.4500	0.17
			0.00			1" Ice	8.6300	3.9000	0.25
NNH4-65C-R6	B	From Leg	3.5000	0.0000	145.0000	No Ice	9.7500	3.9600	0.10
			0.00			1/2" Ice	10.3600	4.5000	0.19
			0.00			1" Ice	10.9700	5.0600	0.30
NNH4-65C-R6	C	From Leg	3.5000	0.0000	145.0000	No Ice	9.7500	3.9600	0.10
			0.00			1/2" Ice	10.3600	4.5000	0.19
			0.00			1" Ice	10.9700	5.0600	0.30
RRUS E2 B29	A	From Leg	3.5000	0.0000	145.0000	No Ice	3.1450	1.2854	0.06
			0.00			1/2" Ice	3.3648	1.4379	0.08
			0.00			1" Ice	3.5920	1.5998	0.11
RRUS E2 B29	B	From Leg	3.5000	0.0000	145.0000	No Ice	3.1450	1.2854	0.06

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00			1/2" Ice	3.3648	1.4379	0.08
			0.00			1" Ice	3.5920	1.5998	0.11
RRUS E2 B29	C	From Leg	3.5000	0.0000	145.0000	No Ice	3.1450	1.2854	0.06
			0.00			1/2" Ice	3.3648	1.4379	0.08
			0.00			1" Ice	3.5920	1.5998	0.11
RRUS 12 B2	A	From Leg	3.5000	0.0000	145.0000	No Ice	3.1435	1.2816	0.05
			0.00			1/2" Ice	3.3632	1.4340	0.07
			0.00			1" Ice	3.5904	1.5955	0.10
RRUS 12 B2	B	From Leg	3.5000	0.0000	145.0000	No Ice	3.1435	1.2816	0.05
			0.00			1/2" Ice	3.3632	1.4340	0.07
			0.00			1" Ice	3.5904	1.5955	0.10
RRUS 12 B2	C	From Leg	3.5000	0.0000	145.0000	No Ice	3.1435	1.2816	0.05
			0.00			1/2" Ice	3.3632	1.4340	0.07
			0.00			1" Ice	3.5904	1.5955	0.10
RRUS 4478 B14	A	From Leg	3.5000	0.0000	145.0000	No Ice	1.8425	1.0588	0.06
			0.00			1/2" Ice	2.0123	1.1969	0.08
			0.00			1" Ice	2.1895	1.3425	0.09
RRUS 4478 B14	B	From Leg	3.5000	0.0000	145.0000	No Ice	1.8425	1.0588	0.06
			0.00			1/2" Ice	2.0123	1.1969	0.08
			0.00			1" Ice	2.1895	1.3425	0.09
RRUS 4478 B14	C	From Leg	3.5000	0.0000	145.0000	No Ice	1.8425	1.0588	0.06
			0.00			1/2" Ice	2.0123	1.1969	0.08
			0.00			1" Ice	2.1895	1.3425	0.09
RRU A2	A	From Leg	3.5000	0.0000	145.0000	No Ice	2.0637	0.5047	0.02
			0.00			1/2" Ice	2.2424	0.6147	0.03
			0.00			1" Ice	2.4285	0.7318	0.05
RRU A2	B	From Leg	3.5000	0.0000	145.0000	No Ice	2.0637	0.5047	0.02
			0.00			1/2" Ice	2.2424	0.6147	0.03
			0.00			1" Ice	2.4285	0.7318	0.05
RRU A2	C	From Leg	3.5000	0.0000	145.0000	No Ice	2.0637	0.5047	0.02
			0.00			1/2" Ice	2.2424	0.6147	0.03
			0.00			1" Ice	2.4285	0.7318	0.05
DC6-48-60-0-8C	A	From Leg	3.5000	0.0000	145.0000	No Ice	0.8498	0.8498	0.02
			0.00			1/2" Ice	1.3563	1.3563	0.04
			0.00			1" Ice	1.5325	1.5325	0.05
DC6-48-60-0-8C	B	From Leg	3.5000	0.0000	145.0000	No Ice	0.8498	0.8498	0.02
			0.00			1/2" Ice	1.3563	1.3563	0.04
			0.00			1" Ice	1.5325	1.5325	0.05
Platform Mount [LP 301-1_KCKR]	A	None		0.0000	145.0000	No Ice	35.0300	35.0300	1.86
						1/2" Ice	44.4600	44.4600	2.52
						1" Ice	53.7200	53.7200	3.33
123									
20' 4-Bay Dipole	C	From Leg	3.5000	0.0000	128.1700	No Ice	4.7500	4.7500	0.05
			0.00			1/2" Ice	6.2500	6.2500	0.08
			0.00			1" Ice	7.7500	7.7500	0.11
15' Whip	A	From Leg	3.5000	0.0000	132.0800	No Ice	3.7500	3.7500	0.04
			0.00			1/2" Ice	4.5000	4.5000	0.07
			0.00			1" Ice	5.2500	5.2500	0.10
5'-6" Whip	A	From Leg	3.5000	0.0000	129.4200	No Ice	1.2000	1.2000	0.03
			0.00			1/2" Ice	1.8000	1.8000	0.03
			0.00			1" Ice	2.4000	2.4000	0.04
24" Yagi	C	From Leg	3.5000	0.0000	128.5000	No Ice	1.5000	1.5000	0.01
			0.00			1/2" Ice	2.2500	2.2500	0.02
			0.00			1" Ice	3.0000	3.0000	0.03
15" Yagi	B	From Leg	3.5000	0.0000	125.0800	No Ice	0.7500	0.7500	0.01
			0.00			1/2" Ice	1.2500	1.2500	0.01
			0.00			1" Ice	1.7500	1.7500	0.01

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
2'6" Yagi	A	From Leg	3.5000 0.00 0.00	0.0000	121.7500	No Ice 1/2" Ice 1" Ice	1.5000 2.2500 3.0000	1.5000 2.2500 3.0000	0.01 0.02 0.03
13' Low Profile Platform	A	None		0.0000	123.0000	No Ice 1/2" Ice 1" Ice	15.7000 20.1000 24.5000	15.7000 20.1000 24.5000	1.30 1.76 2.23
112'									
LNX-6514DS-A1M w/ Mount Pipe	A	From Leg	3.5000 0.00 2.00	0.0000	111.0000	No Ice 1/2" Ice 1" Ice	4.0900 4.4900 4.8900	3.3000 3.6800 4.0600	0.06 0.13 0.20
LNX-6514DS-A1M w/ Mount Pipe	B	From Leg	3.5000 0.00 2.00	0.0000	111.0000	No Ice 1/2" Ice 1" Ice	4.0900 4.4900 4.8900	3.3000 3.6800 4.0600	0.06 0.13 0.20
LNX-6514DS-A1M w/ Mount Pipe	C	From Leg	3.5000 0.00 2.00	0.0000	111.0000	No Ice 1/2" Ice 1" Ice	4.0900 4.4900 4.8900	3.3000 3.6800 4.0600	0.06 0.13 0.20
(2) NNHH-65B-R4 w/ Mount Pipe	A	From Leg	3.5000 0.00 2.00	0.0000	111.0000	No Ice 1/2" Ice 1" Ice	7.5500 8.0400 8.5300	4.2300 4.6700 5.1200	0.11 0.20 0.30
(2) NNHH-65B-R4 w/ Mount Pipe	B	From Leg	3.5000 0.00 2.00	0.0000	111.0000	No Ice 1/2" Ice 1" Ice	7.5500 8.0400 8.5300	4.2300 4.6700 5.1200	0.11 0.20 0.30
(2) NNHH-65B-R4 w/ Mount Pipe	C	From Leg	3.5000 0.00 2.00	0.0000	111.0000	No Ice 1/2" Ice 1" Ice	7.5500 8.0400 8.5300	4.2300 4.6700 5.1200	0.11 0.20 0.30
RRFDC-3315-PF-48	B	From Leg	1.0000 0.00 4.42	0.0000	111.0000	No Ice 1/2" Ice 1" Ice	3.7079 3.9505 4.2005	2.1921 2.3950 2.6056	0.02 0.05 0.09
RRFDC-3315-PF-48	C	From Leg	1.0000 0.00 4.42	0.0000	111.0000	No Ice 1/2" Ice 1" Ice	3.7079 3.9505 4.2005	2.1921 2.3950 2.6056	0.02 0.05 0.09
B5/B13 RRH-BR04C	A	From Leg	3.5000 0.00 2.00	0.0000	111.0000	No Ice 1/2" Ice 1" Ice	1.8750 2.0454 2.2231	1.0125 1.1445 1.2840	0.07 0.09 0.11
B5/B13 RRH-BR04C	B	From Leg	3.5000 0.00 2.00	0.0000	111.0000	No Ice 1/2" Ice 1" Ice	1.8750 2.0454 2.2231	1.0125 1.1445 1.2840	0.07 0.09 0.11
B5/B13 RRH-BR04C	C	From Leg	3.5000 0.00 2.00	0.0000	111.0000	No Ice 1/2" Ice 1" Ice	1.8750 2.0454 2.2231	1.0125 1.1445 1.2840	0.07 0.09 0.11
B2/B66A RRH-BR049	A	From Leg	3.5000 0.00 2.00	0.0000	111.0000	No Ice 1/2" Ice 1" Ice	1.8750 2.0454 2.2231	1.2500 1.3926 1.5426	0.10 0.12 0.14
B2/B66A RRH-BR049	B	From Leg	3.5000 0.00 2.00	0.0000	111.0000	No Ice 1/2" Ice 1" Ice	1.8750 2.0454 2.2231	1.2500 1.3926 1.5426	0.10 0.12 0.14
B2/B66A RRH-BR049	C	From Leg	3.5000 0.00 2.00	0.0000	111.0000	No Ice 1/2" Ice 1" Ice	1.8750 2.0454 2.2231	1.2500 1.3926 1.5426	0.10 0.12 0.14
MT6407-77A w/ Mount Pipe	A	From Leg	3.5000 0.00 2.00	0.0000	111.0000	No Ice 1/2" Ice 1" Ice	4.9069 5.2559 5.6147	2.6821 3.1450 3.6241	0.10 0.14 0.18
MT6407-77A w/ Mount Pipe	B	From Leg	3.5000 0.00 2.00	0.0000	111.0000	No Ice 1/2" Ice 1" Ice	4.9069 5.2559 5.6147	2.6821 3.1450 3.6241	0.10 0.14 0.18
MT6407-77A w/ Mount Pipe	C	From Leg	3.5000 0.00	0.0000	111.0000	No Ice 1/2" Ice	4.9069 5.2559	2.6821 3.1450	0.10 0.14

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			2.00			1" Ice	5.6147	3.6241	0.18
RMQP 12' Platform w/ handrails	C	None		0.0000	111.0000	No Ice	26.3000	26.3000	1.92
						1/2" Ice	35.6000	35.6000	2.34
55						1" Ice	44.9000	44.9000	2.76
3' Side Mount Standoff	B	From Leg	1.5000	0.0000	51.7500	No Ice	1.5000	1.5000	0.04
			0.00			1/2" Ice	2.2000	2.2000	0.07
			0.00			1" Ice	2.9000	2.9000	0.10
GPS	B	From Leg	3.0000	0.0000	51.7500	No Ice	0.2100	0.2100	0.01
			0.00			1/2" Ice	0.3100	0.3100	0.01
			0.00			1" Ice	0.4100	0.4100	0.01
12" x 2.5" x 1.5" TMA	B	From Leg	3.0000	0.0000	51.7500	No Ice	0.5602	0.3658	0.02
			0.00			1/2" Ice	0.6590	0.4493	0.02
			0.00			1" Ice	0.7652	0.5429	0.03
**********									

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral ft / Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft		Aperture Area ft^2	Weight K
HPD2-18RS	A	Paraboloid w/Shroud (HP)	From Leg	3.0000	70.0000		189.5000	2.0000	No Ice	3.1400	0.03
				0.00					1/2" Ice	3.4100	0.04
				0.00					1" Ice	3.6800	0.06
HPD2-18RS	A	Paraboloid w/Shroud (HP)	From Leg	3.0000	-60.0000		189.5000	2.0000	No Ice	3.1400	0.03
				0.00					1/2" Ice	3.4100	0.04
				0.00					1" Ice	3.6800	0.06
3' Dish w/ Randome	B	Paraboloid w/Radome	From Leg	3.5000	-10.0000		150.5000	3.0000	No Ice	7.1000	0.05
				0.00					1/2" Ice	7.9000	0.08
				0.00					1" Ice	8.7000	0.11
Andrew VHLP2-23	C	Paraboloid w/Radome	From Leg	3.5000	10.0000		151.5000	2.0000	No Ice	3.1400	0.03
				0.00					1/2" Ice	6.4100	0.04
				0.00					1" Ice	9.6800	0.05
Andrew VHLP2-18	A	Paraboloid w/Radome	From Leg	3.5000	-40.0000		150.5000	2.0000	No Ice	3.1400	0.03
				0.00					1/2" Ice	6.4100	0.04
				0.00					1" Ice	9.6800	0.05

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.6 Wind 0 deg - No Ice
3	0.9 Dead+1.6 Wind 0 deg - No Ice
4	1.2 Dead+1.6 Wind 30 deg - No Ice
5	0.9 Dead+1.6 Wind 30 deg - No Ice

Comb. No.	Description
6	1.2 Dead+1.6 Wind 60 deg - No Ice
7	0.9 Dead+1.6 Wind 60 deg - No Ice
8	1.2 Dead+1.6 Wind 90 deg - No Ice
9	0.9 Dead+1.6 Wind 90 deg - No Ice
10	1.2 Dead+1.6 Wind 120 deg - No Ice
11	0.9 Dead+1.6 Wind 120 deg - No Ice
12	1.2 Dead+1.6 Wind 150 deg - No Ice
13	0.9 Dead+1.6 Wind 150 deg - No Ice
14	1.2 Dead+1.6 Wind 180 deg - No Ice
15	0.9 Dead+1.6 Wind 180 deg - No Ice
16	1.2 Dead+1.6 Wind 210 deg - No Ice
17	0.9 Dead+1.6 Wind 210 deg - No Ice
18	1.2 Dead+1.6 Wind 240 deg - No Ice
19	0.9 Dead+1.6 Wind 240 deg - No Ice
20	1.2 Dead+1.6 Wind 270 deg - No Ice
21	0.9 Dead+1.6 Wind 270 deg - No Ice
22	1.2 Dead+1.6 Wind 300 deg - No Ice
23	0.9 Dead+1.6 Wind 300 deg - No Ice
24	1.2 Dead+1.6 Wind 330 deg - No Ice
25	0.9 Dead+1.6 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	183 - 165.5	Pole	Max Tension	8	0.00	0.00	-0.00
			Max. Compression	26	-7.11	2.06	0.42
			Max. Mx	20	-1.89	45.54	0.03
			Max. My	2	-1.93	0.21	42.65
			Max. Vy	20	-3.13	45.54	0.03
			Max. Vx	14	3.01	-0.26	-42.63
			Max. Torque	16			-2.39
L2	165.5 - 132.08	Pole	Max Tension	1	0.00	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Compression	26	-70.96	0.93	0.32
			Max. Mx	20	-16.83	517.06	1.11
			Max. My	2	-16.95	1.19	507.57
			Max. Vy	8	24.27	-516.97	-1.94
			Max. Vx	2	-23.87	1.19	507.57
			Max. Torque	16			-2.47
L3	132.08 - 86.99	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-111.15	4.31	3.71
			Max. Mx	20	-32.22	1807.13	3.09
			Max. My	2	-32.32	4.70	1778.16
			Max. Vy	8	33.80	-1806.36	-4.90
			Max. Vx	2	-33.32	4.70	1778.16
			Max. Torque	16			-2.48
L4	86.99 - 42.91	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-139.39	4.96	6.87
			Max. Mx	20	-46.35	3320.08	4.79
			Max. My	2	-46.40	7.62	3271.28
			Max. Vy	8	36.65	-3319.75	-7.95
			Max. Vx	2	-36.19	7.62	3271.28
			Max. Torque	16			-2.36
L5	42.91 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-175.02	5.94	10.47
			Max. Mx	20	-65.39	5173.48	6.96
			Max. My	2	-65.39	11.17	5102.83
			Max. Vy	8	38.68	-5173.04	-11.20
			Max. Vx	2	-38.25	11.17	5102.83
			Max. Torque	16			-2.05

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	26	175.02	-0.00	-0.00
	Max. H_x	21	49.07	38.60	0.04
	Max. H_z	3	49.07	0.07	38.18
	Max. M_x	2	5102.83	0.07	38.17
	Max. M_z	8	5173.04	-38.61	-0.07
	Max. Torsion	2	1.88	0.07	38.17
	Min. Vert	21	49.07	38.60	0.04
	Min. H_x	9	49.07	-38.61	-0.07
	Min. H_z	15	49.07	-0.05	-38.14
	Min. M_x	14	-5096.30	-0.05	-38.14
	Min. M_z	20	-5173.48	38.60	0.04
	Min. Torsion	16	-2.04	19.30	-33.00

Tower Mast Reaction Summary

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
Dead Only	54.53	0.00	0.00	-0.73	0.23	0.00
1.2 Dead+1.6 Wind 0 deg - No	65.43	-0.07	-38.17	-5102.83	11.17	-1.88

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
Ice						
0.9 Dead+1.6 Wind 0 deg - No Ice	49.07	-0.07	-38.18	-4985.01	10.83	-1.87
1.2 Dead+1.6 Wind 30 deg - No Ice	65.43	19.18	-33.01	-4411.33	-2566.78	-1.82
0.9 Dead+1.6 Wind 30 deg - No Ice	49.07	19.18	-33.01	-4309.46	-2507.64	-1.80
1.2 Dead+1.6 Wind 60 deg - No Ice	65.43	33.35	-18.97	-2529.90	-4467.10	-1.06
0.9 Dead+1.6 Wind 60 deg - No Ice	49.07	33.35	-18.97	-2471.48	-4364.12	-1.05
1.2 Dead+1.6 Wind 90 deg - No Ice	65.43	38.61	0.07	11.20	-5173.04	-0.11
0.9 Dead+1.6 Wind 90 deg - No Ice	49.07	38.61	0.07	11.15	-5053.85	-0.09
1.2 Dead+1.6 Wind 120 deg - No Ice	65.43	33.49	19.17	2561.33	-4490.19	0.44
0.9 Dead+1.6 Wind 120 deg - No Ice	49.07	33.49	19.17	2502.60	-4386.66	0.45
1.2 Dead+1.6 Wind 150 deg - No Ice	65.43	19.38	33.09	4422.47	-2601.55	0.96
0.9 Dead+1.6 Wind 150 deg - No Ice	49.07	19.38	33.09	4320.82	-2541.52	0.96
1.2 Dead+1.6 Wind 180 deg - No Ice	65.43	0.05	38.14	5096.30	-7.97	1.69
0.9 Dead+1.6 Wind 180 deg - No Ice	49.07	0.05	38.14	4979.12	-7.82	1.68
1.2 Dead+1.6 Wind 210 deg - No Ice	65.43	-19.30	33.00	4406.77	2590.03	2.04
0.9 Dead+1.6 Wind 210 deg - No Ice	49.07	-19.30	33.00	4305.48	2530.12	2.02
1.2 Dead+1.6 Wind 240 deg - No Ice	65.43	-33.41	19.08	2547.35	4478.92	1.09
0.9 Dead+1.6 Wind 240 deg - No Ice	49.07	-33.41	19.08	2488.93	4375.50	1.06
1.2 Dead+1.6 Wind 270 deg - No Ice	65.43	-38.60	-0.04	-6.96	5173.48	-0.01
0.9 Dead+1.6 Wind 270 deg - No Ice	49.07	-38.60	-0.04	-6.54	5054.09	-0.02
1.2 Dead+1.6 Wind 300 deg - No Ice	65.43	-33.48	-19.12	-2553.57	4488.72	-0.80
0.9 Dead+1.6 Wind 300 deg - No Ice	49.07	-33.48	-19.12	-2494.55	4385.06	-0.80
1.2 Dead+1.6 Wind 330 deg - No Ice	65.43	-19.33	-33.14	-4431.02	2592.52	-1.39
0.9 Dead+1.6 Wind 330 deg - No Ice	49.07	-19.33	-33.14	-4328.68	2532.61	-1.39
1.2 Dead+1.0 Ice+1.0 Temp	175.02	0.00	0.00	-10.47	5.94	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	175.02	-0.00	-11.30	-1966.13	6.63	-1.18
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	175.02	5.68	-9.78	-1703.28	-978.36	-1.23
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	175.02	9.86	-5.63	-982.77	-1705.40	-0.82
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	175.02	11.43	0.02	-5.93	-1979.15	-0.26
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	175.02	9.92	5.69	974.78	-1716.43	0.28
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	175.02	5.73	9.81	1687.56	-990.03	0.71
1.2 Dead+1.0 Wind 180	175.02	0.02	11.31	1946.26	1.39	1.10

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	175.02	-5.68	9.78	1680.63	991.08	1.16
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	175.02	-9.84	5.66	968.79	1712.29	0.75
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	175.02	-11.38	-0.01	-12.89	1979.29	0.14
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	175.02	-9.86	-5.65	-988.63	1717.03	-0.32
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	175.02	-5.68	-9.81	-1708.75	991.04	-0.83
Dead+Wind 0 deg - Service	54.53	-0.01	-6.97	-922.34	2.24	-0.35
Dead+Wind 30 deg - Service	54.53	3.50	-6.03	-797.32	-463.32	-0.35
Dead+Wind 60 deg - Service	54.53	6.09	-3.46	-457.57	-806.56	-0.22
Dead+Wind 90 deg - Service	54.53	7.05	0.01	1.38	-934.39	-0.03
Dead+Wind 120 deg - Service	54.53	6.12	3.50	462.00	-810.79	0.09
Dead+Wind 150 deg - Service	54.53	3.54	6.04	798.10	-469.62	0.19
Dead+Wind 180 deg - Service	54.53	0.01	6.97	919.88	-1.21	0.32
Dead+Wind 210 deg - Service	54.53	-3.52	6.03	795.22	467.98	0.37
Dead+Wind 240 deg - Service	54.53	-6.10	3.48	459.45	809.17	0.19
Dead+Wind 270 deg - Service	54.53	-7.05	-0.01	-1.89	934.90	0.00
Dead+Wind 300 deg - Service	54.53	-6.11	-3.49	-461.86	810.95	-0.13
Dead+Wind 330 deg - Service	54.53	-3.53	-6.05	-800.91	468.44	-0.25

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX K	PY K	PZ K	PX K	PY K	PZ K	% Error
1	0.00	-54.53	0.00	-0.00	54.53	-0.00	0.000%
2	-0.07	-65.43	-38.18	0.07	65.43	38.17	0.007%
3	-0.07	-49.07	-38.18	0.07	49.07	38.18	0.008%
4	19.18	-65.43	-33.01	-19.18	65.43	33.01	0.000%
5	19.18	-49.07	-33.01	-19.18	49.07	33.01	0.000%
6	33.35	-65.43	-18.97	-33.35	65.43	18.97	0.000%
7	33.35	-49.07	-18.97	-33.35	49.07	18.97	0.000%
8	38.61	-65.43	0.07	-38.61	65.43	-0.07	0.011%
9	38.61	-49.07	0.07	-38.61	49.07	-0.07	0.013%
10	33.49	-65.43	19.17	-33.49	65.43	-19.17	0.000%
11	33.49	-49.07	19.17	-33.49	49.07	-19.17	0.000%
12	19.38	-65.43	33.09	-19.38	65.43	-33.09	0.000%
13	19.38	-49.07	33.09	-19.38	49.07	-33.09	0.000%
14	0.05	-65.43	38.15	-0.05	65.43	-38.14	0.007%
15	0.05	-49.07	38.15	-0.05	49.07	-38.14	0.008%
16	-19.30	-65.43	33.00	19.30	65.43	-33.00	0.000%
17	-19.30	-49.07	33.00	19.30	49.07	-33.00	0.000%
18	-33.41	-65.43	19.08	33.41	65.43	-19.08	0.000%
19	-33.41	-49.07	19.08	33.41	49.07	-19.08	0.000%
20	-38.61	-65.43	-0.04	38.60	65.43	0.04	0.011%
21	-38.61	-49.07	-0.04	38.60	49.07	0.04	0.013%
22	-33.48	-65.43	-19.12	33.48	65.43	19.12	0.000%
23	-33.48	-49.07	-19.12	33.48	49.07	19.12	0.000%
24	-19.33	-65.43	-33.14	19.33	65.43	33.14	0.000%
25	-19.33	-49.07	-33.14	19.33	49.07	33.14	0.000%
26	0.00	-175.02	0.00	-0.00	175.02	-0.00	0.000%
27	-0.00	-175.02	-11.30	0.00	175.02	11.30	0.002%
28	5.68	-175.02	-9.78	-5.68	175.02	9.78	0.002%
29	9.87	-175.02	-5.63	-9.86	175.02	5.63	0.002%

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
30	11.44	-175.02	0.02	-11.43	175.02	-0.02	0.002%
31	9.92	-175.02	5.69	-9.92	175.02	-5.69	0.002%
32	5.73	-175.02	9.81	-5.73	175.02	-9.81	0.002%
33	0.02	-175.02	11.31	-0.02	175.02	-11.31	0.002%
34	-5.68	-175.02	9.78	5.68	175.02	-9.78	0.002%
35	-9.84	-175.02	5.66	9.84	175.02	-5.66	0.002%
36	-11.38	-175.02	-0.01	11.38	175.02	0.01	0.002%
37	-9.86	-175.02	-5.66	9.86	175.02	5.65	0.002%
38	-5.68	-175.02	-9.81	5.68	175.02	9.81	0.002%
39	-0.01	-54.53	-6.97	0.01	54.53	6.97	0.002%
40	3.50	-54.53	-6.03	-3.50	54.53	6.03	0.002%
41	6.09	-54.53	-3.47	-6.09	54.53	3.46	0.002%
42	7.05	-54.53	0.01	-7.05	54.53	-0.01	0.002%
43	6.12	-54.53	3.50	-6.12	54.53	-3.50	0.002%
44	3.54	-54.53	6.04	-3.54	54.53	-6.04	0.002%
45	0.01	-54.53	6.97	-0.01	54.53	-6.97	0.002%
46	-3.53	-54.53	6.03	3.52	54.53	-6.03	0.002%
47	-6.10	-54.53	3.48	6.10	54.53	-3.48	0.002%
48	-7.05	-54.53	-0.01	7.05	54.53	0.01	0.002%
49	-6.11	-54.53	-3.49	6.11	54.53	3.49	0.002%
50	-3.53	-54.53	-6.05	3.53	54.53	6.05	0.002%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	6	0.00000001	0.00000001
2	Yes	22	0.00007239	0.00012360
3	Yes	21	0.00007095	0.00014493
4	Yes	28	0.00000001	0.00014648
5	Yes	27	0.00000001	0.00014827
6	Yes	29	0.00000001	0.00009335
7	Yes	28	0.00000001	0.00009301
8	Yes	21	0.00011534	0.00008896
9	Yes	20	0.00011474	0.00010795
10	Yes	29	0.00000001	0.00009428
11	Yes	28	0.00000001	0.00009384
12	Yes	29	0.00000001	0.00009270
13	Yes	28	0.00000001	0.00009225
14	Yes	22	0.00007242	0.00009554
15	Yes	21	0.00007097	0.00011353
16	Yes	29	0.00000001	0.00009491
17	Yes	28	0.00000001	0.00009466
18	Yes	28	0.00000001	0.00014942
19	Yes	28	0.00000001	0.00009146
20	Yes	21	0.00011533	0.00009533
21	Yes	20	0.00011473	0.00011447
22	Yes	29	0.00000001	0.00009301
23	Yes	28	0.00000001	0.00009245
24	Yes	29	0.00000001	0.00009468
25	Yes	28	0.00000001	0.00009430
26	Yes	20	0.00000001	0.00000156
27	Yes	30	0.00012576	0.00001518
28	Yes	30	0.00012467	0.00008744
29	Yes	30	0.00012464	0.00009444
30	Yes	30	0.00012569	0.00001152

31	Yes	30	0.00012461	0.00009347
32	Yes	30	0.00012465	0.00008895
33	Yes	30	0.00012581	0.00001437
34	Yes	30	0.00012466	0.00009587
35	Yes	30	0.00012464	0.00008974
36	Yes	30	0.00012569	0.00001160
37	Yes	30	0.00012458	0.00009320
38	Yes	30	0.00012460	0.00009720
39	Yes	21	0.00009723	0.00002039
40	Yes	21	0.00009703	0.00002325
41	Yes	21	0.00009703	0.00002912
42	Yes	21	0.00009722	0.00001962
43	Yes	21	0.00009702	0.00002771
44	Yes	21	0.00009702	0.00002485
45	Yes	21	0.00009723	0.00002009
46	Yes	21	0.00009702	0.00003057
47	Yes	21	0.00009702	0.00002471
48	Yes	21	0.00009722	0.00001965
49	Yes	21	0.00009702	0.00002609
50	Yes	21	0.00009702	0.00002930

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	183 - 165.5	41.26	48	2.0148	0.0125
L2	168.5 - 132.08	35.21	48	1.9630	0.0065
L3	135.91 - 86.99	22.59	48	1.6580	0.0025
L4	91.99 - 42.91	9.92	48	1.0552	0.0010
L5	49.08 - 0	2.76	48	0.5234	0.0003

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
189.7500	Lightning Rod w/ Pipe Extension	48	41.26	2.0148	0.0125	37843
189.5000	HPD2-18RS	48	41.26	2.0148	0.0125	37843
184.0000	14' Low Profile Platform	48	41.26	2.0148	0.0125	37843
163.0000	AIR 32 B2a/B66Aa w/ Mount Pipe	48	32.95	1.9299	0.0050	9584
159.0000	Ring Mount	48	31.33	1.9002	0.0042	8033
154.0000	APXVSPP18-C w/ Mount Pipe	48	29.35	1.8572	0.0035	6681
153.8300	MTI1669	48	29.28	1.8556	0.0035	6643
151.5000	Andrew VHLP2-23	48	28.37	1.8334	0.0032	6162
150.5000	3' Dish w/ Randome	48	27.98	1.8235	0.0031	5976
145.0000	800 10121	48	25.89	1.7653	0.0028	5127
132.0800	15' Whip	48	21.27	1.6095	0.0024	4164
129.4200	5'-6" Whip	48	20.37	1.5749	0.0023	4180
128.5000	24" Yagi	48	20.07	1.5627	0.0023	4185
128.1700	20' 4-Bay Dipole	48	19.96	1.5584	0.0023	4187
125.0800	15" Yagi	48	18.96	1.5170	0.0022	4206
123.0000	13' Low Profile Platform	48	18.30	1.4888	0.0021	4219
121.7500	2'6" Yagi	48	17.91	1.4717	0.0021	4227
111.0000	LNX-6514DS-A1M w/ Mount Pipe	48	14.74	1.3215	0.0016	4291

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
51.7500	3' Side Mount Standoff	48	3.05	0.5538	0.0003	4058

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	183 - 165.5	227.87	20	11.1416	0.0648
L2	168.5 - 132.08	194.57	20	10.8753	0.0325
L3	135.91 - 86.99	124.98	20	9.1936	0.0131
L4	91.99 - 42.91	54.95	20	5.8514	0.0051
L5	49.08 - 0	15.27	20	2.9007	0.0018

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
189.7500	Lightning Rod w/ Pipe Extension	20	227.87	11.1416	0.0648	7700
189.5000	HPD2-18RS	20	227.87	11.1416	0.0648	7700
184.0000	14' Low Profile Platform	20	227.87	11.1416	0.0648	7700
163.0000	AIR 32 B2a/B66Aa w/ Mount Pipe	20	182.15	10.6966	0.0265	1901
159.0000	Ring Mount	20	173.24	10.5343	0.0225	1575
154.0000	APXVSPP18-C w/ Mount Pipe	20	162.28	10.2973	0.0189	1297
153.8300	MTI1669	20	161.91	10.2887	0.0188	1289
151.5000	Andrew VHLP2-23	20	156.89	10.1660	0.0176	1191
150.5000	3' Dish w/ Randome	20	154.75	10.1112	0.0171	1153
145.0000	800 10121	20	143.20	9.7893	0.0152	981
132.0800	15' Whip	20	117.68	8.9245	0.0127	787
129.4200	5'-6" Whip	20	112.74	8.7326	0.0123	788
128.5000	24" Yagi	20	111.06	8.6653	0.0121	789
128.1700	20' 4-Bay Dipole	20	110.46	8.6411	0.0121	789
125.0800	15" Yagi	20	104.93	8.4118	0.0116	791
123.0000	13' Low Profile Platform	20	101.29	8.2552	0.0112	792
121.7500	2'6" Yagi	20	99.14	8.1604	0.0110	793
111.0000	LNX-6514DS-A1M w/ Mount Pipe	20	81.61	7.3280	0.0088	799
51.7500	3' Side Mount Standoff	20	16.88	3.0694	0.0019	735

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L1	183 - 181.964	TP19.42x15.5x0.1875	17.5000	0.0000	0.0	9.2509	-1.44	687.30	0.002

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in^2	K	K	
	181.964 - 180.929					9.3890	-1.47	697.55	0.002
	180.929 - 179.893					9.5271	-1.51	707.81	0.002
	179.893 - 178.857					9.6651	-1.54	718.07	0.002
	178.857 - 177.821					9.8032	-1.57	728.33	0.002
	177.821 - 176.786					9.9413	-1.60	738.59	0.002
	176.786 - 175.75					10.0793	-1.64	748.84	0.002
	175.75 - 174.714					10.2174	-1.67	759.10	0.002
	174.714 - 173.679					10.3555	-1.71	769.36	0.002
	173.679 - 172.643					10.4935	-1.74	779.62	0.002
	172.643 - 171.607					10.6316	-1.78	789.88	0.002
	171.607 - 170.571					10.7697	-1.82	800.13	0.002
	170.571 - 169.536					10.9077	-1.86	810.39	0.002
	169.536 - 168.5					11.0458	-1.89	820.65	0.002
	168.5 - 165.5					11.4457	-0.94	845.01	0.001
L2	168.5 - 165.5	TP26.41x18.373x0.25	36.4200	0.0000	0.0	14.9059	-1.24	1107.44	0.001
	165.5 - 163.856					15.1938	-2.33	1128.82	0.002
	163.856 - 162.212					15.4816	-7.45	1150.21	0.006
	162.212 - 160.568					15.7695	-7.60	1171.59	0.006
	160.568 - 158.924					16.0573	-7.85	1192.98	0.007
	158.924 - 157.281					16.3452	-8.01	1214.37	0.007
	157.281 - 155.637					16.6330	-8.18	1235.75	0.007
	155.637 - 153.993					16.9209	-10.84	1257.14	0.009
	153.993 - 152.349					17.2088	-11.06	1278.52	0.009
	152.349 - 150.705					17.4966	-11.26	1299.91	0.009
	150.705 - 149.061					17.7845	-11.47	1321.30	0.009
	149.061 - 147.417					18.0723	-11.65	1342.68	0.009
	147.417 - 145.773					18.3602	-11.84	1364.07	0.009
	145.773 - 144.129					18.6480	-15.71	1385.46	0.011
	144.129 - 142.486					18.9359	-15.92	1406.84	0.011
	142.486 - 140.842					19.2237	-16.14	1428.23	0.011
	140.842 - 139.198					19.5116	-16.37	1449.61	0.011

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
	139.198 - 137.554					19.7994	-16.60	1471.00	0.011
	137.554 - 135.91					20.0873	-16.83	1487.91	0.011
	135.91 - 132.08					20.7580	-7.24	1524.51	0.005
L3	135.91 - 132.08	TP35.88x25.0648x0.375	48.9200	0.0000	0.0	30.3949	-10.53	2258.190.005	
	132.08 - 129.853					30.9809	-18.22	2301.73	0.008
	129.853 - 127.626					31.5670	-18.71	2345.27	0.008
	127.626 - 125.398					32.1531	-19.17	2388.81	0.008
	125.398 - 123.171					32.7392	-19.63	2432.36	0.008
	123.171 - 120.944					33.3252	-21.53	2475.90	0.009
	120.944 - 118.717					33.9113	-22.01	2519.44	0.009
	118.717 - 116.489					34.4974	-22.50	2562.98	0.009
	116.489 - 114.262					35.0834	-23.00	2606.52	0.009
	114.262 - 112.035					35.6695	-23.50	2650.07	0.009
	112.035 - 109.808					36.2556	-27.79	2693.61	0.010
	109.808 - 107.581					36.8416	-28.32	2737.15	0.010
	107.581 - 105.353					37.4277	-28.86	2780.69	0.010
	105.353 - 103.126					38.0138	-29.40	2824.23	0.010
	103.126 - 100.899					38.5998	-29.95	2867.78	0.010
	100.899 - 98.6717					39.1859	-30.51	2911.32	0.010
	98.6717 - 96.4444					39.7720	-31.08	2954.86	0.011
	96.4444 - 94.2172					40.3581	-31.65	2998.40	0.011
	94.2172 - 91.99					40.9441	-32.22	3041.94	0.011
	91.99 - 86.99					42.2598	-16.13	3139.69	0.005
L4	91.99 - 86.99	TP44.88x34.0246x0.4375	49.0800	0.0000	0.0	48.1756	-18.25	3579.20	0.005
	86.99 - 84.8839					48.8224	-34.99	3627.26	0.010
	84.8839 - 82.7778					49.4693	-35.61	3675.32	0.010
	82.7778 - 80.6717					50.1161	-36.23	3723.38	0.010
	80.6717 - 78.5656					50.7630	-36.86	3771.44	0.010
	78.5656 - 76.4594					51.4098	-37.50	3819.49	0.010
	76.4594 - 74.3533					52.0567	-38.14	3867.55	0.010
	74.3533 - 72.2472					52.7035	-38.78	3915.61	0.010

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in^2	K	K	
	72.2472 - 70.1411					53.3504	-39.44	3963.67	0.010
	70.1411 - 68.035					53.9973	-40.09	4011.73	0.010
	68.035 - 65.9289					54.6441	-40.76	4059.78	0.010
	65.9289 - 63.8228					55.2910	-41.43	4107.84	0.010
	63.8228 - 61.7167					55.9378	-42.10	4155.90	0.010
	61.7167 - 59.6106					56.5847	-42.78	4203.96	0.010
	59.6106 - 57.5044					57.2315	-43.47	4252.02	0.010
	57.5044 - 55.3983					57.8784	-44.16	4300.08	0.010
	55.3983 - 53.2922					58.5252	-44.86	4348.13	0.010
	53.2922 - 51.1861					59.1721	-45.64	4396.19	0.010
	51.1861 - 49.08					59.8190	-46.35	4444.25	0.010
	49.08 - 42.91					61.7140	-25.23	4567.55	0.006
L5	49.08 - 42.91	TP53.5x42.6403x0.4375	49.0800	0.0000	0.0	60.4997	-24.57	4494.82	0.005
	42.91 - 40.6516					61.1936	-50.59	4538.80	0.011
	40.6516 - 38.3932					61.8875	-51.36	4577.10	0.011
	38.3932 - 36.1347					62.5814	-52.13	4615.11	0.011
	36.1347 - 33.8763					63.2753	-52.92	4652.81	0.011
	33.8763 - 31.6179					63.9692	-53.71	4690.23	0.011
	31.6179 - 29.3595					64.6631	-54.50	4727.34	0.012
	29.3595 - 27.1011					65.3570	-55.30	4764.17	0.012
	27.1011 - 24.8426					66.0509	-56.11	4800.69	0.012
	24.8426 - 22.5842					66.7448	-56.92	4836.92	0.012
	22.5842 - 20.3258					67.4387	-57.74	4872.86	0.012
	20.3258 - 18.0674					68.1327	-58.57	4908.50	0.012
	18.0674 - 15.8089					68.8266	-59.40	4943.85	0.012
	15.8089 - 13.5505					69.5205	-60.24	4978.90	0.012
	13.5505 - 11.2921					70.2144	-61.08	5013.65	0.012
	11.2921 - 9.03368					70.9083	-61.93	5048.11	0.012
	9.03368 - 6.77526					71.6022	-62.78	5082.28	0.012
	6.77526 - 4.51684					72.2961	-63.65	5116.15	0.012
	4.51684 - 2.25842					72.9900	-64.51	5149.72	0.013

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in^2	K	K	
	2.25842 - 0					73.6839	-65.39	5183.00	0.013

Pole Bending Design Data

Section No.	Elevation	Size	M_{ux}	ϕM_{nx}	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy}	ϕM_{ny}	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
	ft		kip-ft	kip-ft		kip-ft	kip-ft	
L1	183 - 181.964	TP19.42x15.5x0.1875	8.89	218.78	0.041	0.00	218.78	0.000
	181.964 - 180.929		11.34	225.40	0.050	0.00	225.40	0.000
	180.929 - 179.893		13.85	232.12	0.060	0.00	232.12	0.000
	179.893 - 178.857		16.42	238.93	0.069	0.00	238.93	0.000
	178.857 - 177.821		19.05	245.85	0.077	0.00	245.85	0.000
	177.821 - 176.786		21.74	252.86	0.086	0.00	252.86	0.000
	176.786 - 175.75		24.49	259.97	0.094	0.00	259.97	0.000
	175.75 - 174.714		27.31	267.18	0.102	0.00	267.18	0.000
	174.714 - 173.679		30.18	274.49	0.110	0.00	274.49	0.000
	173.679 - 172.643		33.12	281.90	0.117	0.00	281.90	0.000
	172.643 - 171.607		36.13	289.41	0.125	0.00	289.41	0.000
	171.607 - 170.571		39.20	297.01	0.132	0.00	297.01	0.000
	170.571 - 169.536		42.33	304.71	0.139	0.00	304.71	0.000
	169.536 - 168.5		45.54	312.52	0.146	0.00	312.52	0.000
	168.5 - 165.5		24.67	333.56	0.074	0.00	333.56	0.000
L2	168.5 - 165.5	TP26.41x18.373x0.25	30.58	425.48	0.072	0.00	425.480.000	
	165.5 - 163.856		60.86	442.18	0.138	0.00	442.18	0.000
	163.856 - 162.212		71.84	459.21	0.156	0.00	459.21	0.000
	162.212 - 160.568		88.62	476.55	0.186	0.00	476.55	0.000
	160.568 - 158.924		105.60	494.22	0.214	0.00	494.22	0.000
	158.924 - 157.281		122.93	512.21	0.240	0.00	512.21	0.000
	157.281 - 155.637		140.45	530.52	0.265	0.00	530.52	0.000
	155.637 - 153.993		164.60	549.15	0.300	0.00	549.15	0.000
	153.993 - 152.349		188.11	568.10	0.331	0.00	568.10	0.000
	152.349 - 150.705		212.28	587.38	0.361	0.00	587.38	0.000
	150.705 - 149.061		236.95	606.97	0.390	0.00	606.97	0.000

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
	149.061 - 147.417		262.13	626.89	0.418	0.00	626.89	0.000
	147.417 - 145.773		287.50	647.13	0.444	0.00	647.13	0.000
	145.773 - 144.129		319.90	667.69	0.479	0.00	667.69	0.000
	144.129 - 142.486		358.98	688.57	0.521	0.00	688.57	0.000
	142.486 - 140.842		398.24	709.78	0.561	0.00	709.78	0.000
	140.842 - 139.198		437.67	731.30	0.598	0.00	731.30	0.000
	139.198 - 137.554		477.28	753.15	0.634	0.00	753.15	0.000
	137.554 - 135.91		517.06	772.99	0.669	0.00	772.99	0.000
	135.91 - 132.08		255.19	818.71	0.312	0.00	818.71	0.000
L3	135.91 - 132.08	TP35.88x25.0648x0.375	355.49	1177.83	0.302	0.00	1177.83	0.000
	132.08 - 129.853		666.16	1224.03	0.544	0.00	1224.03	0.000
	129.853 - 127.626		722.62	1271.11	0.568	0.00	1271.11	0.000
	127.626 - 125.398		779.72	1319.08	0.591	0.00	1319.08	0.000
	125.398 - 123.171		837.24	1367.94	0.612	0.00	1367.94	0.000
	123.171 - 120.944		897.27	1417.69	0.633	0.00	1417.69	0.000
	120.944 - 118.717		957.95	1468.33	0.652	0.00	1468.33	0.000
	118.717 - 116.489		1018.99	1519.86	0.670	0.00	1519.86	0.000
	116.489 - 114.262		1080.39	1572.28	0.687	0.00	1572.28	0.000
	114.262 - 112.035		1142.15	1625.58	0.703	0.00	1625.58	0.000
	112.035 - 109.808		1216.02	1679.77	0.724	0.00	1679.77	0.000
	109.808 - 107.581		1288.78	1734.85	0.743	0.00	1734.85	0.000
	107.581 - 105.353		1361.87	1790.82	0.760	0.00	1790.82	0.000
	105.353 - 103.126		1435.28	1847.68	0.777	0.00	1847.68	0.000
	103.126 - 100.899		1509.02	1905.43	0.792	0.00	1905.43	0.000
	100.899 - 98.6717		1583.08	1964.06	0.806	0.00	1964.06	0.000
	98.6717 - 96.4444		1657.44	2023.58	0.819	0.00	2023.58	0.000
	96.4444 - 94.2172		1732.13	2084.00	0.831	0.00	2084.00	0.000
	94.2172 - 91.99		1807.13	2145.30	0.842	0.00	2145.30	0.000
	91.99 - 86.99		947.38	2286.16	0.414	0.00	2286.16	0.000
L4	91.99 - 86.99	TP44.88x34.0246x0.4375	1029.83	2541.43	0.405	0.00	2541.43	0.000
	86.99 - 84.8839		2049.56	2610.57	0.785	0.00	2610.57	0.000

Section No.	Elevation	Size	M_{ux}	ϕM_{nx}	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy}	ϕM_{ny}	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
	ft		kip-ft	kip-ft		kip-ft	kip-ft	
	84.8839 - 82.7778		2122.18	2680.63	0.792	0.00	2680.63	0.000
	82.7778 - 80.6717		2195.07	2751.63	0.798	0.00	2751.63	0.000
	80.6717 - 78.5656		2268.25	2823.54	0.803	0.00	2823.54	0.000
	78.5656 - 76.4594		2341.70	2896.39	0.808	0.00	2896.39	0.000
	76.4594 - 74.3533		2415.42	2970.17	0.813	0.00	2970.17	0.000
	74.3533 - 72.2472		2489.40	3044.88	0.818	0.00	3044.88	0.000
	72.2472 - 70.1411		2563.65	3120.51	0.822	0.00	3120.51	0.000
	70.1411 - 68.035		2638.16	3197.07	0.825	0.00	3197.07	0.000
	68.035 - 65.9289		2712.93	3274.55	0.828	0.00	3274.55	0.000
	65.9289 - 63.8228		2787.95	3352.97	0.831	0.00	3352.97	0.000
	63.8228 - 61.7167		2863.22	3432.32	0.834	0.00	3432.32	0.000
	61.7167 - 59.6106		2938.76	3512.58	0.837	0.00	3512.58	0.000
	59.6106 - 57.5044		3014.54	3593.78	0.839	0.00	3593.78	0.000
	57.5044 - 55.3983		3090.57	3675.91	0.841	0.00	3675.91	0.000
	55.3983 - 53.2922		3166.84	3758.97	0.842	0.00	3758.97	0.000
	53.2922 - 51.1861		3243.13	3842.95	0.844	0.00	3842.95	0.000
	51.1861 - 49.08		3320.07	3927.87	0.845	0.00	3927.87	0.000
	49.08 - 42.91		1827.63	4166.01	0.439	0.00	4166.01	0.000
L5	49.08 - 42.91	TP53.5x42.6403x0.4375	1719.97	4018.22	0.428	0.00	4018.22	0.000
	42.91 - 40.6516		3631.61	4104.54	0.885	0.00	4104.54	0.000
	40.6516 - 38.3932		3715.79	4186.57	0.888	0.00	4186.57	0.000
	38.3932 - 36.1347		3800.15	4269.13	0.890	0.00	4269.13	0.000
	36.1347 - 33.8763		3884.69	4352.18	0.893	0.00	4352.18	0.000
	33.8763 - 31.6179		3969.40	4435.75	0.895	0.00	4435.75	0.000
	31.6179 - 29.3595		4054.29	4519.81	0.897	0.00	4519.81	0.000
	29.3595 - 27.1011		4139.35	4604.35	0.899	0.00	4604.35	0.000
	27.1011 - 24.8426		4224.59	4689.37	0.901	0.00	4689.37	0.000
	24.8426 - 22.5842		4310.00	4774.85	0.903	0.00	4774.85	0.000
	22.5842 - 20.3258		4395.58	4860.78	0.904	0.00	4860.78	0.000
	20.3258 - 18.0674		4481.33	4947.17	0.906	0.00	4947.17	0.000
	18.0674 - 15.8089		4567.26	5033.98	0.907	0.00	5033.98	0.000

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
	15.8089 - 13.5505		4653.36	5121.23	0.909	0.00	5121.23	0.000
	13.5505 - 11.2921		4739.63	5208.90	0.910	0.00	5208.90	0.000
	11.2921 - 9.03368		4826.06	5296.98	0.911	0.00	5296.98	0.000
	9.03368 - 6.77526		4912.66	5385.46	0.912	0.00	5385.46	0.000
	6.77526 - 4.51684		4999.43	5474.33	0.913	0.00	5474.33	0.000
	4.51684 - 2.25842		5086.38	5563.58	0.914	0.00	5563.58	0.000
	2.25842 - 0		5173.48	5653.21	0.915	0.00	5653.21	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	183 - 181.964	TP19.42x15.5x0.1875	2.34	343.65	0.007	0.57	438.89	0.001
	181.964 - 180.929		2.40	348.78	0.007	0.57	452.15	0.001
	180.929 - 179.893		2.45	353.91	0.007	0.57	465.62	0.001
	179.893 - 178.857		2.51	359.04	0.007	0.57	479.28	0.001
	178.857 - 177.821		2.57	364.16	0.007	0.57	493.14	0.001
	177.821 - 176.786		2.63	369.29	0.007	0.57	507.19	0.001
	176.786 - 175.75		2.69	374.42	0.007	0.57	521.45	0.001
	175.75 - 174.714		2.75	379.55	0.007	0.57	535.90	0.001
	174.714 - 173.679		2.81	384.68	0.007	0.57	550.55	0.001
	173.679 - 172.643		2.87	389.81	0.007	0.57	565.39	0.001
	172.643 - 171.607		2.93	394.94	0.007	0.57	580.44	0.001
	171.607 - 170.571		3.00	400.07	0.007	0.57	595.68	0.001
	170.571 - 169.536		3.06	405.20	0.008	0.57	611.12	0.001
	169.536 - 168.5		3.13	410.32	0.008	0.57	626.75	0.001
	168.5 - 165.5		1.54	422.50	0.004	0.25	668.92	0.000
L2	168.5 - 165.5	TP26.41x18.373x0.25	1.81	553.72	0.003	0.32	853.71	0.000
	165.5 - 163.856		3.47	564.41	0.006	0.57	887.18	0.001
	163.856 - 162.212		10.15	575.10	0.018	0.57	921.31	0.001
	162.212 - 160.568		10.27	585.80	0.018	0.57	956.08	0.001
	160.568 - 158.924		10.48	596.49	0.018	0.57	991.48	0.001

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
	158.924 - 157.281		10.60	607.18	0.017	0.57	1027.54	0.001
	157.281 - 155.637		10.72	617.88	0.017	0.57	1064.24	0.001
	155.637 - 153.993		14.31	628.57	0.023	0.67	1101.58	0.001
	153.993 - 152.349		14.51	639.26	0.023	0.67	1139.57	0.001
	152.349 - 150.705		14.74	649.96	0.023	0.60	1178.20	0.001
	150.705 - 149.061		15.27	660.65	0.023	0.36	1217.47	0.000
	149.061 - 147.417		15.38	671.34	0.023	0.14	1257.39	0.000
	147.417 - 145.773		15.50	682.03	0.023	0.14	1297.95	0.000
	145.773 - 144.129		23.73	692.73	0.034	0.38	1339.16	0.000
	144.129 - 142.486		23.84	703.42	0.034	0.39	1381.01	0.000
	142.486 - 140.842		23.95	714.11	0.034	0.38	1423.50	0.000
	140.842 - 139.198		24.06	724.81	0.033	0.38	1466.64	0.000
	139.198 - 137.554		24.17	735.50	0.033	0.38	1510.42	0.000
	137.554 - 135.91		24.27	743.95	0.033	0.38	1550.18	0.000
	135.91 - 132.08		10.39	762.25	0.014	0.16	1641.78	0.000
L3	135.91 - 132.08	TP35.88x25.0648x0.375	14.27	1129.09	0.013	0.22	2363.74	0.000
	132.08 - 129.853		25.02	1150.86	0.022	0.51	2456.35	0.000
	129.853 - 127.626		25.58	1172.64	0.022	0.51	2550.73	0.000
	127.626 - 125.398		25.75	1194.41	0.022	0.08	2646.90	0.000
	125.398 - 123.171		25.95	1216.18	0.021	0.08	2744.84	0.000
	123.171 - 120.944		27.19	1237.95	0.022	0.33	2844.57	0.000
	120.944 - 118.717		27.36	1259.72	0.022	0.33	2946.07	0.000
	118.717 - 116.489		27.52	1281.49	0.021	0.33	3049.35	0.000
	116.489 - 114.262		27.68	1303.26	0.021	0.33	3154.41	0.000
	114.262 - 112.035		27.84	1325.03	0.021	0.33	3261.25	0.000
	112.035 - 109.808		32.64	1346.80	0.024	0.33	3369.88	0.000
	109.808 - 107.581		32.79	1368.57	0.024	0.14	3480.28	0.000
	107.581 - 105.353		32.93	1390.35	0.024	0.14	3592.45	0.000
	105.353 - 103.126		33.08	1412.12	0.023	0.14	3706.41	0.000
	103.126 - 100.899		33.23	1433.89	0.023	0.14	3822.15	0.000

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
	100.899 - 98.6717		33.37	1455.66	0.023	0.14	3939.67	0.000
	98.6717 - 96.4444		33.51	1477.43	0.023	0.14	4058.97	0.000
	96.4444 - 94.2172		33.66	1499.20	0.022	0.14	4180.04	0.000
	94.2172 - 91.99		33.80	1520.97	0.022	0.14	4302.90	0.000
	91.99 - 86.99		16.57	1569.85	0.011	0.07	4585.19	0.000
L4	91.99 - 86.99	TP44.88x34.0246x0.4375	17.77	1789.60	0.010	0.07	5098.73	0.000
	86.99 - 84.8839		34.46	1813.63	0.019	0.14	5237.30	0.000
	84.8839 - 82.7778		34.60	1837.66	0.019	0.14	5377.73	0.000
	82.7778 - 80.6717		34.73	1861.69	0.019	0.14	5520.02	0.000
	80.6717 - 78.5656		34.86	1885.72	0.018	0.14	5664.17	0.000
	78.5656 - 76.4594		34.99	1909.75	0.018	0.14	5810.17	0.000
	76.4594 - 74.3533		35.12	1933.78	0.018	0.14	5958.04	0.000
	74.3533 - 72.2472		35.24	1957.81	0.018	0.14	6107.77	0.000
	72.2472 - 70.1411		35.37	1981.83	0.018	0.14	6259.35	0.000
	70.1411 - 68.035		35.49	2005.86	0.018	0.14	6412.79	0.000
	68.035 - 65.9289		35.62	2029.89	0.018	0.14	6568.09	0.000
	65.9289 - 63.8228		35.74	2053.92	0.017	0.14	6725.24	0.000
	63.8228 - 61.7167		35.86	2077.95	0.017	0.14	6884.26	0.000
	61.7167 - 59.6106		35.98	2101.98	0.017	0.14	7045.13	0.000
	59.6106 - 57.5044		36.10	2126.01	0.017	0.14	7207.86	0.000
	57.5044 - 55.3983		36.21	2150.04	0.017	0.14	7372.45	0.000
	55.3983 - 53.2922		36.33	2174.07	0.017	0.14	7538.90	0.000
	53.2922 - 51.1861		36.53	2198.10	0.017	0.14	7707.20	0.000
	51.1861 - 49.08		36.65	2222.12	0.016	0.01	7877.37	0.000
	49.08 - 42.91		19.33	2283.78	0.008	0.00	8354.58	0.000
L5	49.08 - 42.91	TP53.5x42.6403x0.4375	17.92	2247.41	0.008	0.00	8058.44	0.000
	42.91 - 40.6516		37.30	2269.40	0.016	0.01	8231.41	0.000
	40.6516 - 38.3932		37.38	2288.55	0.016	0.01	8395.75	0.000
	38.3932 - 36.1347		37.46	2307.55	0.016	0.01	8561.17	0.000
	36.1347 - 33.8763		37.54	2326.41	0.016	0.01	8727.67	0.000
	33.8763 - 31.6179		37.62	2345.11	0.016	0.01	8895.08	0.000
	31.6179 - 29.3595		37.70	2363.67	0.016	0.01	9063.50	0.000

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
	29.3595 - 27.1011		37.77	2382.08	0.016	0.01	9232.92	0.000
	27.1011 - 24.8426		37.85	2400.35	0.016	0.01	9403.25	0.000
	24.8426 - 22.5842		37.93	2418.46	0.016	0.01	9574.50	0.000
	22.5842 - 20.3258		38.00	2436.43	0.016	0.01	9746.67	0.000
	20.3258 - 18.0674		38.08	2454.25	0.016	0.01	9919.75	0.000
	18.0674 - 15.8089		38.15	2471.92	0.015	0.01	10093.67	0.000
	15.8089 - 13.5505		38.23	2489.45	0.015	0.01	10268.50	0.000
	13.5505 - 11.2921		38.31	2506.83	0.015	0.01	10444.17	0.000
	11.2921 - 9.03368		38.38	2524.06	0.015	0.01	10620.67	0.000
	9.03368 - 6.77526		38.45	2541.14	0.015	0.01	10797.92	0.000
	6.77526 - 4.51684		38.53	2558.07	0.015	0.01	10975.92	0.000
	4.51684 - 2.25842		38.60	2574.86	0.015	0.01	11154.75	0.000
	2.25842 - 0		38.68	2591.50	0.015	0.01	11334.33	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	183 - 181.964	0.002	0.041	0.000	0.007	0.001	0.043	1.000	4.8.2
	181.964 - 180.929	0.002	0.050	0.000	0.007	0.001	0.052	1.000	4.8.2
	180.929 - 179.893	0.002	0.060	0.000	0.007	0.001	0.062	1.000	4.8.2
	179.893 - 178.857	0.002	0.069	0.000	0.007	0.001	0.071	1.000	4.8.2
	178.857 - 177.821	0.002	0.077	0.000	0.007	0.001	0.080	1.000	4.8.2
	177.821 - 176.786	0.002	0.086	0.000	0.007	0.001	0.088	1.000	4.8.2
	176.786 - 175.75	0.002	0.094	0.000	0.007	0.001	0.096	1.000	4.8.2
	175.75 - 174.714	0.002	0.102	0.000	0.007	0.001	0.104	1.000	4.8.2
	174.714 - 173.679	0.002	0.110	0.000	0.007	0.001	0.112	1.000	4.8.2
	173.679 - 172.643	0.002	0.117	0.000	0.007	0.001	0.120	1.000	4.8.2
	172.643 - 171.607	0.002	0.125	0.000	0.007	0.001	0.127	1.000	4.8.2
	171.607 - 170.571	0.002	0.132	0.000	0.007	0.001	0.134	1.000	4.8.2
	170.571 -	0.002	0.139	0.000	0.008	0.001	0.141	1.000	4.8.2

Section No.	Elevation ft	Ratio $P_u/\phi P_n$	Ratio $M_{ux}/\phi M_{nx}$	Ratio $M_{uy}/\phi M_{ny}$	Ratio $V_u/\phi V_n$	Ratio $T_u/\phi T_n$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	169.536								
	169.536 - 168.5	0.002	0.146	0.000	0.008	0.001	0.148	1.000	4.8.2
	168.5 - 165.5	0.001	0.074	0.000	0.004	0.000	0.075	1.000	4.8.2
L2	168.5 - 165.5	0.001	0.072	0.000	0.003	0.000	0.073	1.000	4.8.2
	165.5 - 163.856	0.002	0.138	0.000	0.006	0.001	0.140	1.000	4.8.2
	163.856 - 162.212	0.006	0.156	0.000	0.018	0.001	0.163	1.000	4.8.2
	162.212 - 160.568	0.006	0.186	0.000	0.018	0.001	0.193	1.000	4.8.2
	160.568 - 158.924	0.007	0.214	0.000	0.018	0.001	0.221	1.000	4.8.2
	158.924 - 157.281	0.007	0.240	0.000	0.017	0.001	0.247	1.000	4.8.2
	157.281 - 155.637	0.007	0.265	0.000	0.017	0.001	0.272	1.000	4.8.2
	155.637 - 153.993	0.009	0.300	0.000	0.023	0.001	0.309	1.000	4.8.2
	153.993 - 152.349	0.009	0.331	0.000	0.023	0.001	0.340	1.000	4.8.2
	152.349 - 150.705	0.009	0.361	0.000	0.023	0.001	0.371	1.000	4.8.2
	150.705 - 149.061	0.009	0.390	0.000	0.023	0.000	0.400	1.000	4.8.2
	149.061 - 147.417	0.009	0.418	0.000	0.023	0.000	0.427	1.000	4.8.2
	147.417 - 145.773	0.009	0.444	0.000	0.023	0.000	0.453	1.000	4.8.2
	145.773 - 144.129	0.011	0.479	0.000	0.034	0.000	0.492	1.000	4.8.2
	144.129 - 142.486	0.011	0.521	0.000	0.034	0.000	0.534	1.000	4.8.2
	142.486 - 140.842	0.011	0.561	0.000	0.034	0.000	0.574	1.000	4.8.2
	140.842 - 139.198	0.011	0.598	0.000	0.033	0.000	0.611	1.000	4.8.2
	139.198 - 137.554	0.011	0.634	0.000	0.033	0.000	0.646	1.000	4.8.2
	137.554 - 135.91	0.011	0.669	0.000	0.033	0.000	0.681	1.000	4.8.2
	135.91 - 132.08	0.005	0.312	0.000	0.014	0.000	0.317	1.000	4.8.2
L3	135.91 - 132.08	0.005	0.302	0.000	0.013	0.000	0.307	1.000	4.8.2
	132.08 - 129.853	0.008	0.544	0.000	0.022	0.000	0.553	1.000	4.8.2
	129.853 - 127.626	0.008	0.568	0.000	0.022	0.000	0.577	1.000	4.8.2
	127.626 - 125.398	0.008	0.591	0.000	0.022	0.000	0.600	1.000	4.8.2
	125.398 - 123.171	0.008	0.612	0.000	0.021	0.000	0.621	1.000	4.8.2
	123.171 - 120.944	0.009	0.633	0.000	0.022	0.000	0.642	1.000	4.8.2
	120.944 - 118.717	0.009	0.652	0.000	0.022	0.000	0.662	1.000	4.8.2
	118.717 - 116.489	0.009	0.670	0.000	0.021	0.000	0.680	1.000	4.8.2
	116.489 -	0.009	0.687	0.000	0.021	0.000	0.696	1.000	4.8.2

Section No.	Elevation ft	Ratio $P_u/\phi P_n$	Ratio $M_{ux}/\phi M_{nx}$	Ratio $M_{uy}/\phi M_{ny}$	Ratio $V_u/\phi V_n$	Ratio $T_u/\phi T_n$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	114.262								
	114.262 - 112.035	0.009	0.703	0.000	0.021	0.000	0.712	1.000	4.8.2
	112.035 - 109.808	0.010	0.724	0.000	0.024	0.000	0.735	1.000	4.8.2
	109.808 - 107.581	0.010	0.743	0.000	0.024	0.000	0.754	1.000	4.8.2
	107.581 - 105.353	0.010	0.760	0.000	0.024	0.000	0.771	1.000	4.8.2
	105.353 - 103.126	0.010	0.777	0.000	0.023	0.000	0.788	1.000	4.8.2
	103.126 - 100.899	0.010	0.792	0.000	0.023	0.000	0.803	1.000	4.8.2
	100.899 - 98.6717	0.010	0.806	0.000	0.023	0.000	0.817	1.000	4.8.2
	98.6717 - 96.4444	0.011	0.819	0.000	0.023	0.000	0.830	1.000	4.8.2
	96.4444 - 94.2172	0.011	0.831	0.000	0.022	0.000	0.842	1.000	4.8.2
	94.2172 - 91.99	0.011	0.842	0.000	0.022	0.000	0.853	1.000	4.8.2
	91.99 - 86.99	0.005	0.414	0.000	0.011	0.000	0.420	1.000	4.8.2
L4	91.99 - 86.99	0.005	0.405	0.000	0.010	0.000	0.410	1.000	4.8.2
	86.99 - 84.8839	0.010	0.785	0.000	0.019	0.000	0.795	1.000	4.8.2
	84.8839 - 82.7778	0.010	0.792	0.000	0.019	0.000	0.802	1.000	4.8.2
	82.7778 - 80.6717	0.010	0.798	0.000	0.019	0.000	0.808	1.000	4.8.2
	80.6717 - 78.5656	0.010	0.803	0.000	0.018	0.000	0.813	1.000	4.8.2
	78.5656 - 76.4594	0.010	0.808	0.000	0.018	0.000	0.819	1.000	4.8.2
	76.4594 - 74.3533	0.010	0.813	0.000	0.018	0.000	0.823	1.000	4.8.2
	74.3533 - 72.2472	0.010	0.818	0.000	0.018	0.000	0.828	1.000	4.8.2
	72.2472 - 70.1411	0.010	0.822	0.000	0.018	0.000	0.832	1.000	4.8.2
	70.1411 - 68.035	0.010	0.825	0.000	0.018	0.000	0.835	1.000	4.8.2
	68.035 - 65.9289	0.010	0.828	0.000	0.018	0.000	0.839	1.000	4.8.2
	65.9289 - 63.8228	0.010	0.831	0.000	0.017	0.000	0.842	1.000	4.8.2
	63.8228 - 61.7167	0.010	0.834	0.000	0.017	0.000	0.845	1.000	4.8.2
	61.7167 - 59.6106	0.010	0.837	0.000	0.017	0.000	0.847	1.000	4.8.2
	59.6106 - 57.5044	0.010	0.839	0.000	0.017	0.000	0.849	1.000	4.8.2
	57.5044 - 55.3983	0.010	0.841	0.000	0.017	0.000	0.851	1.000	4.8.2
	55.3983 - 53.2922	0.010	0.842	0.000	0.017	0.000	0.853	1.000	4.8.2
	53.2922 - 51.1861	0.010	0.844	0.000	0.017	0.000	0.855	1.000	4.8.2
	51.1861 - 49.08	0.010	0.845	0.000	0.016	0.000	0.856	1.000	4.8.2
	49.08 - 42.91	0.006	0.439	0.000	0.008	0.000	0.444	1.000	4.8.2

Section No.	Elevation ft	Ratio $P_u/\phi P_n$	Ratio $M_{ux}/\phi M_{nx}$	Ratio $M_{uy}/\phi M_{ny}$	Ratio $V_u/\phi V_n$	Ratio $T_u/\phi T_n$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L5	49.08 - 42.91	0.005	0.428	0.000	0.008	0.000	0.434	1.000	4.8.2
	42.91 - 40.6516	0.011	0.885	0.000	0.016	0.000	0.896	1.000	4.8.2
	40.6516 - 38.3932	0.011	0.888	0.000	0.016	0.000	0.899	1.000	4.8.2
	38.3932 - 36.1347	0.011	0.890	0.000	0.016	0.000	0.902	1.000	4.8.2
	36.1347 - 33.8763	0.011	0.893	0.000	0.016	0.000	0.904	1.000	4.8.2
	33.8763 - 31.6179	0.011	0.895	0.000	0.016	0.000	0.907	1.000	4.8.2
	31.6179 - 29.3595	0.012	0.897	0.000	0.016	0.000	0.909	1.000	4.8.2
	29.3595 - 27.1011	0.012	0.899	0.000	0.016	0.000	0.911	1.000	4.8.2
	27.1011 - 24.8426	0.012	0.901	0.000	0.016	0.000	0.913	1.000	4.8.2
	24.8426 - 22.5842	0.012	0.903	0.000	0.016	0.000	0.915	1.000	4.8.2
	22.5842 - 20.3258	0.012	0.904	0.000	0.016	0.000	0.916	1.000	4.8.2
	20.3258 - 18.0674	0.012	0.906	0.000	0.016	0.000	0.918	1.000	4.8.2
	18.0674 - 15.8089	0.012	0.907	0.000	0.015	0.000	0.920	1.000	4.8.2
	15.8089 - 13.5505	0.012	0.909	0.000	0.015	0.000	0.921	1.000	4.8.2
	13.5505 - 11.2921	0.012	0.910	0.000	0.015	0.000	0.922	1.000	4.8.2
	11.2921 - 9.03368	0.012	0.911	0.000	0.015	0.000	0.924	1.000	4.8.2
	9.03368 - 6.77526	0.012	0.912	0.000	0.015	0.000	0.925	1.000	4.8.2
	6.77526 - 4.51684	0.012	0.913	0.000	0.015	0.000	0.926	1.000	4.8.2
	4.51684 - 2.25842	0.013	0.914	0.000	0.015	0.000	0.927	1.000	4.8.2
	2.25842 - 0	0.013	0.915	0.000	0.015	0.000	0.928	1.000	4.8.2

Section Capacity Table

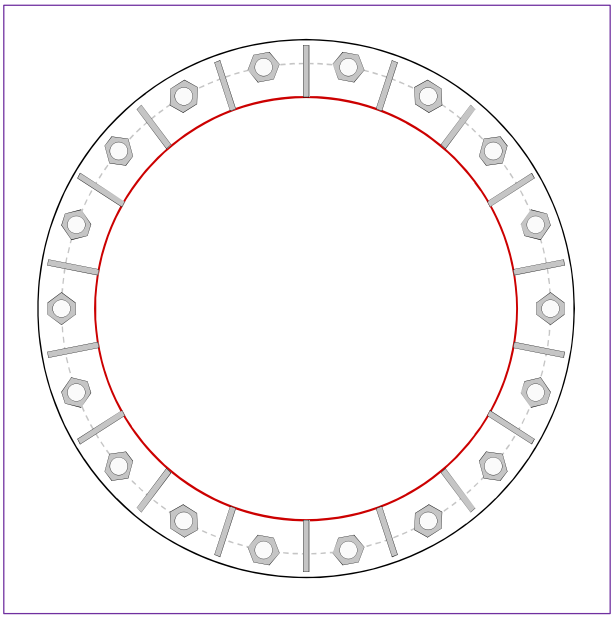
Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	183 - 165.5	Pole	TP19.42x15.5x0.1875	1	-1.89	820.65	14.8	Pass
L2	165.5 - 132.08	Pole	TP26.41x18.373x0.25	2	-16.83	1487.91	68.1	Pass
L3	132.08 - 86.99	Pole	TP35.88x25.0648x0.375	3	-32.22	3041.94	85.3	Pass
L4	86.99 - 42.91	Pole	TP44.88x34.0246x0.4375	4	-46.35	4444.25	85.6	Pass
L5	42.91 - 0	Pole	TP53.5x42.6403x0.4375	5	-65.39	5183.00	92.8	Pass
							Summary	
						Pole (L5)	92.8	Pass
						RATING =	**92.8**	**Pass**

Monopole Base Plate Connection

Site Info	
BU #	
Site Name	Manchester Green CT
Order #	

Analysis Considerations	
TIA-222 Revision	G
Grout Considered:	No
l_{ar} (in)	1
Eta Factor, η	0.5

Applied Loads	
Moment (kip-ft)	5173.48
Axial Force (kips)	65.39
Shear Force (kips)	38.68



Connection Properties

Anchor Rod Data

(18) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 62" BC

Base Plate Data

68" OD x 2" Plate (A572-60; Fy=60 ksi, Fu=75 ksi)

Stiffener Data

(18) 15"H x 6.5"W x 0.75"T, Notch: 1"
plate: Fy= 50 ksi ; weld: Fy= 70 ksi
horiz. weld: 0.375" groove, 45° dbl bevel, 0.375" fillet
vert. weld: 0.375" fillet

Pole Data

53.5" x 0.4375" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Anchor Rod Summary		*(units of kips, kip-in)*
Pu_c = 226.03	ϕPn_t = 260	**Stress Rating**
Vu = 2.15	ϕVn = n/a	**88.6%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary		
Max Stress (ksi):	39.74	(Roark's Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	**73.6%**	**Pass**

Stiffener Summary		
Horizontal Weld:	**84.2%**	**Pass**
Vertical Weld:	**68.0%**	**Pass**
Plate Flexure+Shear:	**40.4%**	**Pass**
Plate Tension+Shear:	**89.2%**	**Pass**
Plate Compression:	**90.7%**	**Pass**
Pole Summary		
Punching Shear:	**21.2%**	**Pass**

Analysis Date: 10/8/2021

Drilled Pier Foundation

BU # :	
Site Name:	Manchester Green CT
Order Number:	
TIA-222 Revison:	G
Tower Type:	Monopole

Applied Loads	Comp.	Uplift
Moment (kip-ft)	5173	
Axial Force (kips)	65	
Shear Force (kips)	39	

Material Properties		
Concrete Strength, f'c:	4	ksi
Rebar Strength, Fy:	60	ksi
Tie Yield Strength, Fyt:	40	ksi

Pier Design Data		
Depth	31	ft
Ext. Above Grade	1	ft
Pier Section 1		
From 1' above grade to 31' below grade		
Pier Diameter	7	ft
Rebar Quantity	27	
Rebar Size	11	
Clear Cover to Ties	3	in
Tie Size	5	
Tie Spacing	12	in

Rebar & Pier Options
Embedded Pole Inputs
Belled Pier Inputs

Analysis Results		
Soil Lateral Check	*Compression*	*Uplift*
$D_{v=0}$ (ft from TOC)	7.17	-
Soil Safety Factor	3.71	-
Max Moment (kip-ft)	5465.83	-
Rating	*35.9%*	-
Soil Vertical Check	*Compression*	*Uplift*
Skin Friction (kips)	415.61	-
End Bearing (kips)	202.04	-
Weight of Concrete (kips)	146.75	-
Total Capacity (kips)	617.65	-
Axial (kips)	211.75	-
Rating	*34.3%*	-
Reinforced Concrete Flexure	*Compression*	*Uplift*
Critical Depth (ft from TOC)	7.26	-
Critical Moment (kip-ft)	5465.75	-
Critical Moment Capacity	6788.30	-
Rating	*80.5%*	-
Reinforced Concrete Shear	*Compression*	*Uplift*
Critical Depth (ft from TOC)	22.74	-
Critical Shear (kip)	473.54	-
Critical Shear Capacity	630.74	-
Rating	*75.1%*	-

Structural Foundation Rating	**80.5%**
Soil Interaction Rating	**35.9%**

Check Limitation	
N/A	☑
Load Z Normalization:	☐
Additional Longitudinal Rebar	
Input Effective Depths (else Actual):	☐
Shear Design Options	
Check Shear along Depth of Pier:	☑
Utilize Shear-Friction Methodology:	☐
Override Critical Depth:	☐

Go to Soil Calculations

Soil Profile

Groundwater Depth	5

# of Layers	4

Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ_{soil} (pcf)	$\gamma_{concrete}$ (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	3.5	3.5	130	150	0	0	0.000	0.000					Cohesionless
2	3.5	5	1.5	130	150	0	38	0.450	0.450				10	Cohesionless
3	5	15	10	70	87.6	0	38	0.715	0.715				10	Cohesionless
4	15	31	16	70	87.6	0	38	1.086	1.086			7	10	Cohesionless

Maser Consulting Connecticut
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GDulnik@maserconsulting.com

Antenna Mount Analysis Report and PMI Requirements

Mount Analysis

SMART Tool Project #: 10017997
Maser Consulting Connecticut Project #: 20777294A

November 11, 2020

Site Information	*Site ID:*	*468026-VZW / Manchester Green CT*
	Site Name:	*Manchester Green CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*239 Middle Turnpike East* *Manchester, Connecticut 06045* *Hartford County*
	Latitude:	*41.78442222°*
	Longitude:	*-72.51174167°*
Structure Information	*Tower Type:*	*180-Ft Monopole*
	Mount Type:	*12.50-Ft Platform*

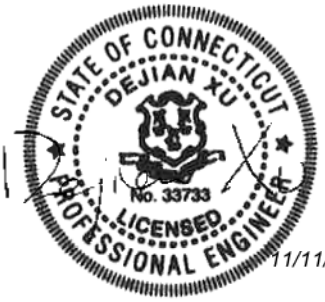
FUZE ID # 16232053

Analysis Results

Platform: **90.3% 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: Abigail Enriquez



11/11/2020

Executive Summary:

The objective of this report is to determine the capacity of the antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

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: 2369958, dated September 10, 2020*
Previous Mount Analysis Report	*All-Points Technology Corp, APT Project # CT141EB10570, dated March 2, 2020*
Mount Mapping Report	*Delta Oaks Group, Site ID: 468026, dated October 26, 2020*
Construction Drawings	*All-Points Technology Corp, Project Code: 20181836978, dated July 20, 2018*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	118 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:	0.990
Seismic Parameters:	S_S:	0.189
	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
110.50	112.5	3	-	nL-Sub6 Antenna	Added
		6	Commscope	NNHH-65B-R4	Retained
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		3	Andrew	LNX-6514DS	
		2	Raycap	RRFDC-3315-PF-48*	

* Equipment is mounted directly to the Monopole. They are not mounted on the platform mount and are not included in this mount analysis.

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Maser Consulting Connecticut and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Maser Consulting Connecticut. to verify deviation will not adversely impact the analysis.

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

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

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

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

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

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

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

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

8. It is assumed that the mount modifications listed under Sources of Information have been installed per the design specifications.

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

Analysis Results:

Component	Utilization %	Pass/Fail
Handrail Corner	*55.1%*	*Pass*
Handrail Kit	*43.6%*	*Pass*
Mount Pipe	*59.9%*	*Pass*
Face Horizontal	*18.5%*	*Pass*
Corner Plate	*32.1%*	*Pass*
Cross Arm Plate	*42.8%*	*Pass*
Grating Support	*15.5%*	*Pass*
Platform Crossmember	*27.3%*	*Pass*
Standoff Horizontal	*52.8%*	*Pass*
Connection Check	*90.3%*	*Pass*

Structure Rating – *(Controlling Utilization of all Components)*	**90.3%**

Recommendation:

The existing mount is **SUFFICIENT** for the final loading configuration and do not require modifications.

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:

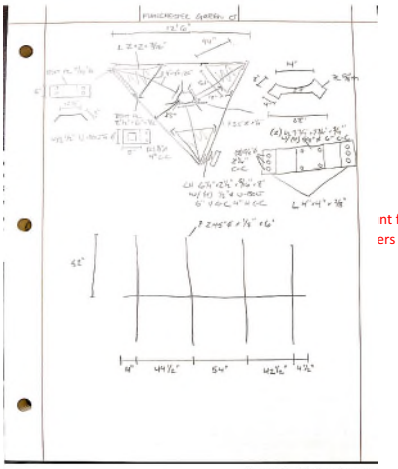
1. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
4. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption and Wind Speed Usage Letter

V3.0 Updated on 8-31-2020

Antenna Mount Mapping Form (PATENT PENDING)

FCC #
N/A

Tower Owner:	Town of Manchester	**Mapping Date:**	10/26/2020
Site Name:	Manchester Green CT	**Tower Type:**	Monopole
Site Number or ID:	468026	**Tower Height (Ft.):**	180
Mapping Contractor:	Delta Oaks Group	**Mount Elevation (Ft.):**	110.5



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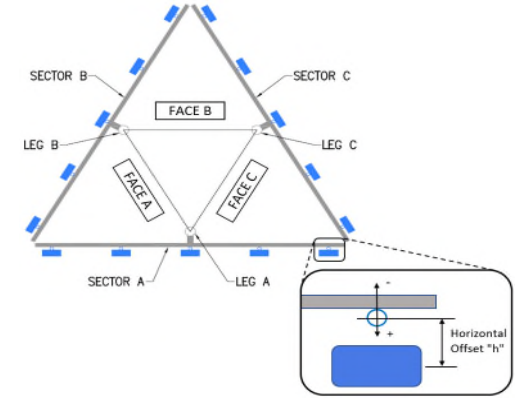
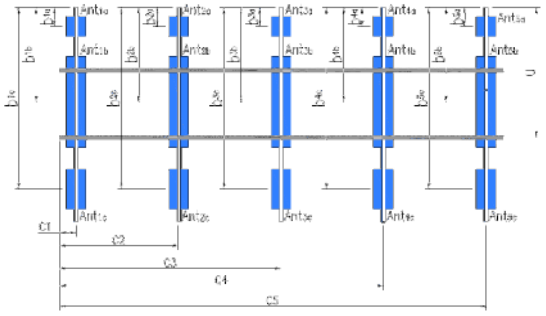




Antenna Layout (Looking Out From Tower)

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	2.45"Øx.125x72	52.00	4.00	C1	2.45"Øx.125x72	52.00	4.00
A2	2.45"Øx.125x72	52.00	48.50	C2	2.45"Øx.125x72	52.00	48.50
A3				C3			
A4	2.45"Øx.125x72	52.00	102.50	C4	2.45"Øx.125x72	52.00	102.50
A5	2.45"Øx.125x72	52.00	145.00	C5	2.45"Øx.125x72	52.00	145.00
A6				C6			
B1	2.45"Øx.125x72	52.00	4.00	D1			
B2	2.45"Øx.125x72	52.00	48.50	D2			
B3				D3			
B4	2.45"Øx.125x72	52.00	102.50	D4			
B5	2.45"Øx.125x72	52.00	145.00	D5			
B6				D6			

Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :	0.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	7.5
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.

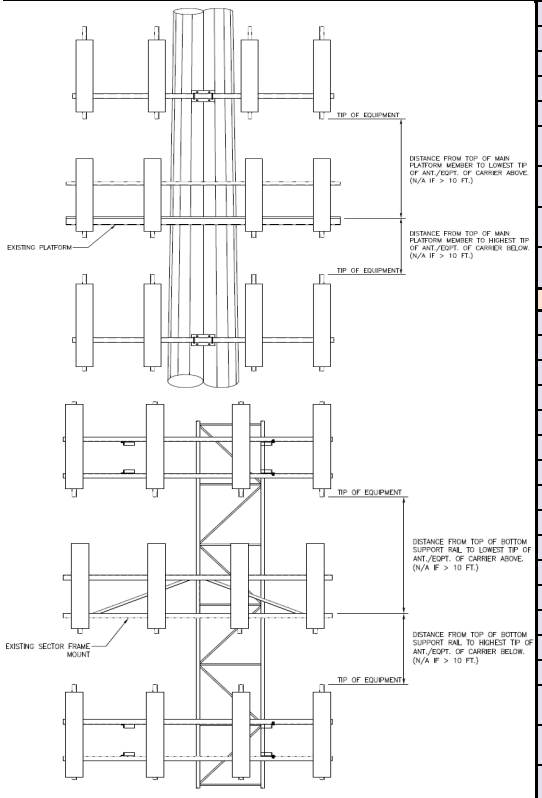
There is a Raycap RRFDC-3315-PF-48 CONNECTED DIRECTLY TO THE TOWER.

Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	31.5

	Enter antenna model. If not labeled, enter "Unknown".						Mounting Locations [Units are inches and degrees]			Photos of antennas
Ants. Items	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances"b_{1a}, b_{2a}, b_{3a}, b_{1b}...." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
Sector A										
Ant_{1a}	HBXX-6517DS-A2M	12.00	6.50	75.00	1/2"Ø HY	112.417	29.00	6.00	335.00	114
Ant_{1b}	B4 RRH 2X60-4R	10.63	5.75	36.60		112.833	24.00	-7.00		
Ant_{1c}										
Ant_{2a}	LNX-6514DS-A1M	11.90	7.10	72.70		112.583	27.00	6.00	335.00	114
Ant_{2b}	B13 RRH 4X30	11.80	7.50	20.90		112.958	22.50	-7.00		281
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}	HBXX-6517DS-A2M	12.00	6.50	75.00		112.417	29.00	6.00	335.00	115
Ant_{4b}	B25 RRH 4X30	12.00	7.20	21.20		113.042	21.50	-7.00		237
Ant_{4c}										
Ant_{5a}	LNX-6514DS-A1M	11.90	7.10	72.70		112.583	27.00	6.00	335.00	116
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Mount Azimuth (Degree) for Each Sector			Tower Leg Azimuth (Degree) for Each Sector		
Sector A:	335.00	Deg	Leg A:		Deg
Sector B:	95.00	Deg	Leg B:		Deg
Sector C:	215.00	Deg	Leg C:		Deg
Sector D:		Deg	Leg D:		Deg

Climbing Facility Information		
Location:	165.00 Deg	Outside Face B
Climbing Facility	Corrosion Type:	Good condition.
	Access:	Climbing path was unobstructed.
	Condition:	Good condition.



Sector B										
Ant_{1a}	HBXX-6517DS-A2M	12.00	6.50	75.00	1/2"Ø HY	112.417	29.00	6.00	95.00	118
Ant_{1b}	B4 RRH 2X60-4R	10.63	5.75	36.60		112.833	24.00	-7.00		
Ant_{1c}										
Ant_{2a}	LNX-6514DS-A1M	11.90	7.10	72.70		112.583	27.00	6.00	95.00	119
Ant_{2b}	B13 RRH 4X30	11.80	7.50	20.90		112.958	22.50	-7.00		
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}	HBXX-6517DS-A2M	12.00	6.50	75.00		112.417	29.00	6.00	95.00	120
Ant_{4b}	B25 RRH 4X30	12.00	7.20	21.20		113.042	21.50	-7.00		
Ant_{4c}										
Ant_{5a}	LNX-6514DS-A1M	11.90	7.10	72.70		112.583	27.00	6.00	95.00	120
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector C										
Ant_{1a}	HBXX-6517DS-A2M	12.00	6.50	75.00	1/2"Ø HY	112.417	29.00	6.00	215.00	121
Ant_{1b}	B4 RRH 2X60-4R	10.63	5.75	36.60		112.833	24.00	-7.00		
Ant_{1c}										
Ant_{2a}	LNX-6514DS-A1M	11.90	7.10	72.70		112.583	27.00	6.00	215.00	122
Ant_{2b}	B13 RRH 4X30	11.80	7.50	20.90		112.958	22.50	-7.00		
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}	HBXX-6517DS-A2M	12.00	6.50	75.00		112.417	29.00	6.00	215.00	123
Ant_{4b}	B25 RRH 4X30	12.00	7.20	21.20		113.042	21.50	-7.00		
Ant_{4c}										
Ant_{5a}	LNX-6514DS-A1M	11.90	7.10	72.70		112.583	27.00	6.00	215.00	123
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		
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.

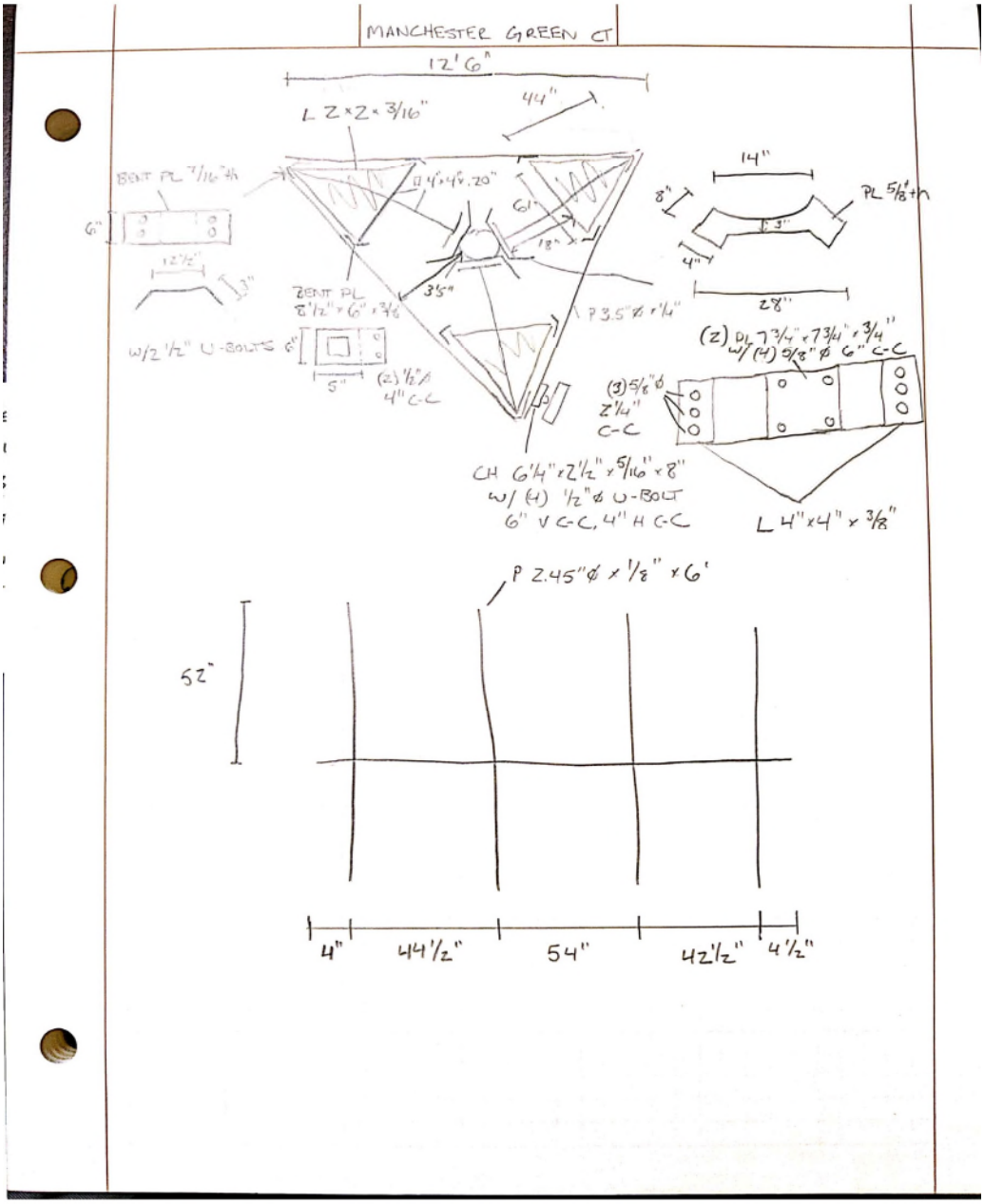
V3.0 Updated on 8-31-2020

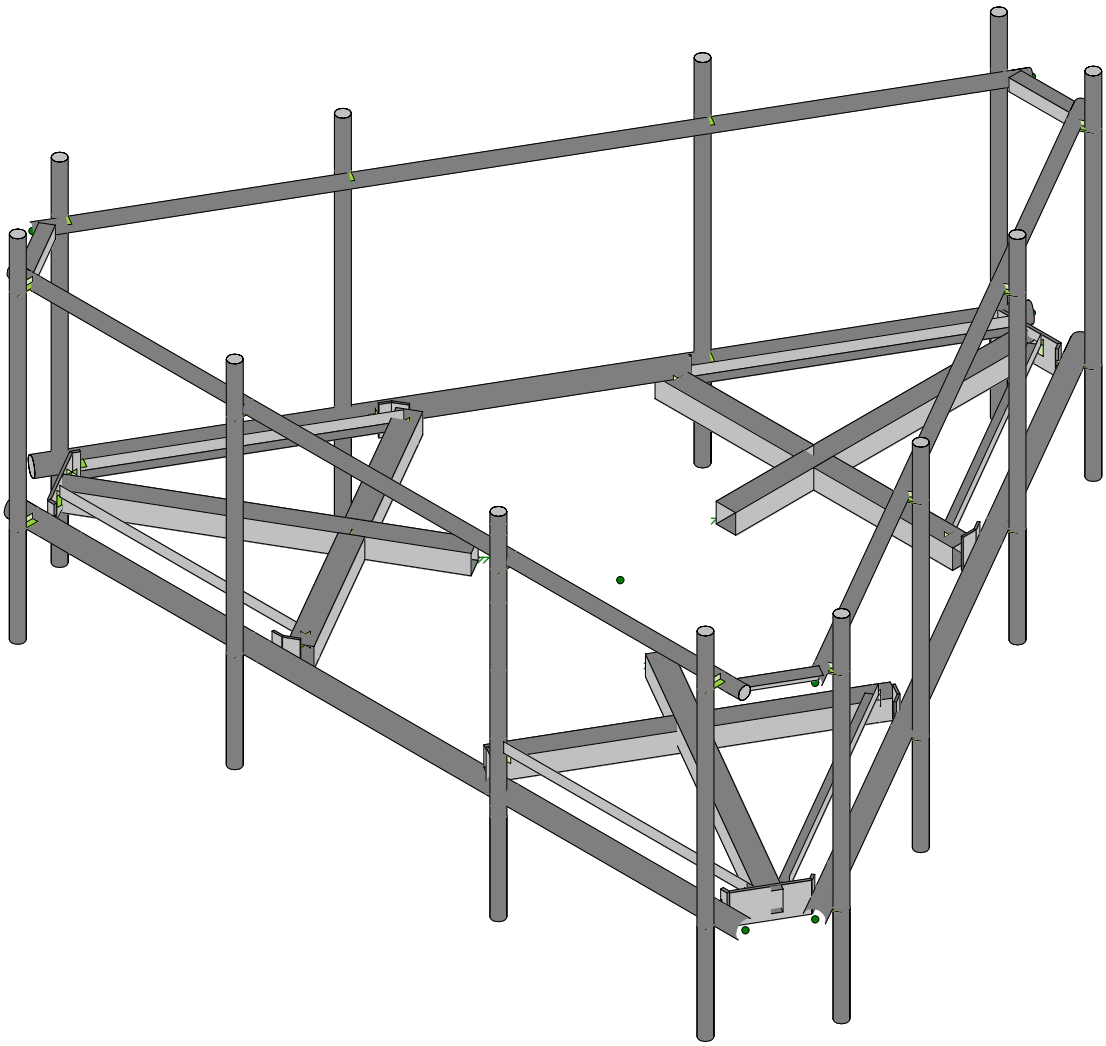
Antenna Mount Mapping Form (PATENT PENDING)

FCC #
N/A

Tower Owner:	Town of Manchester	**Mapping Date:**	10/26/2020
Site Name:	Manchester Green CT	**Tower Type:**	Monopole
Site Number or ID:	468026	**Tower Height (Ft.):**	180
Mapping Contractor:	Delta Oaks Group	**Mount Elevation (Ft.):**	110.5

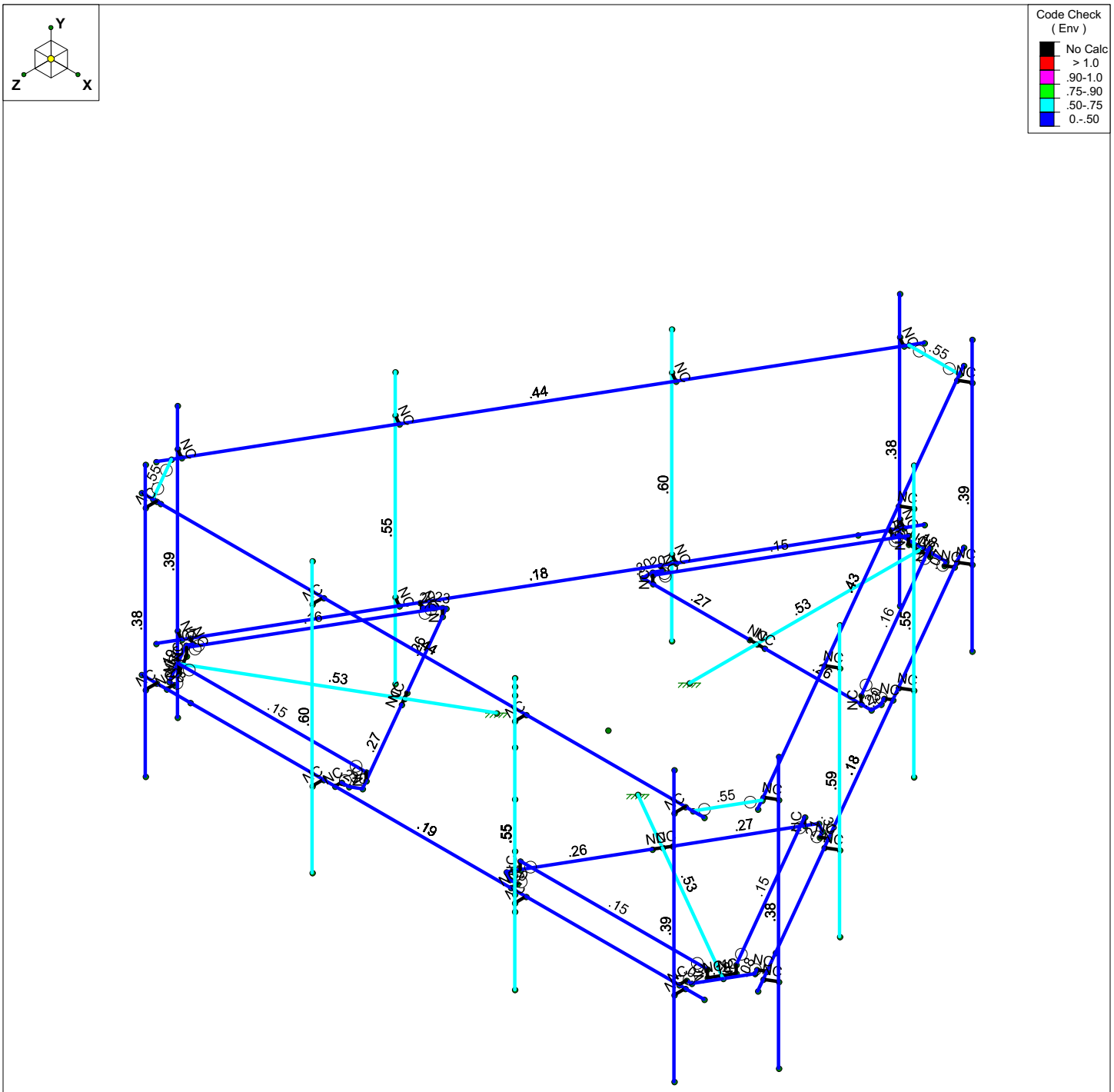
Please Insert Sketches of the Antenna Mount





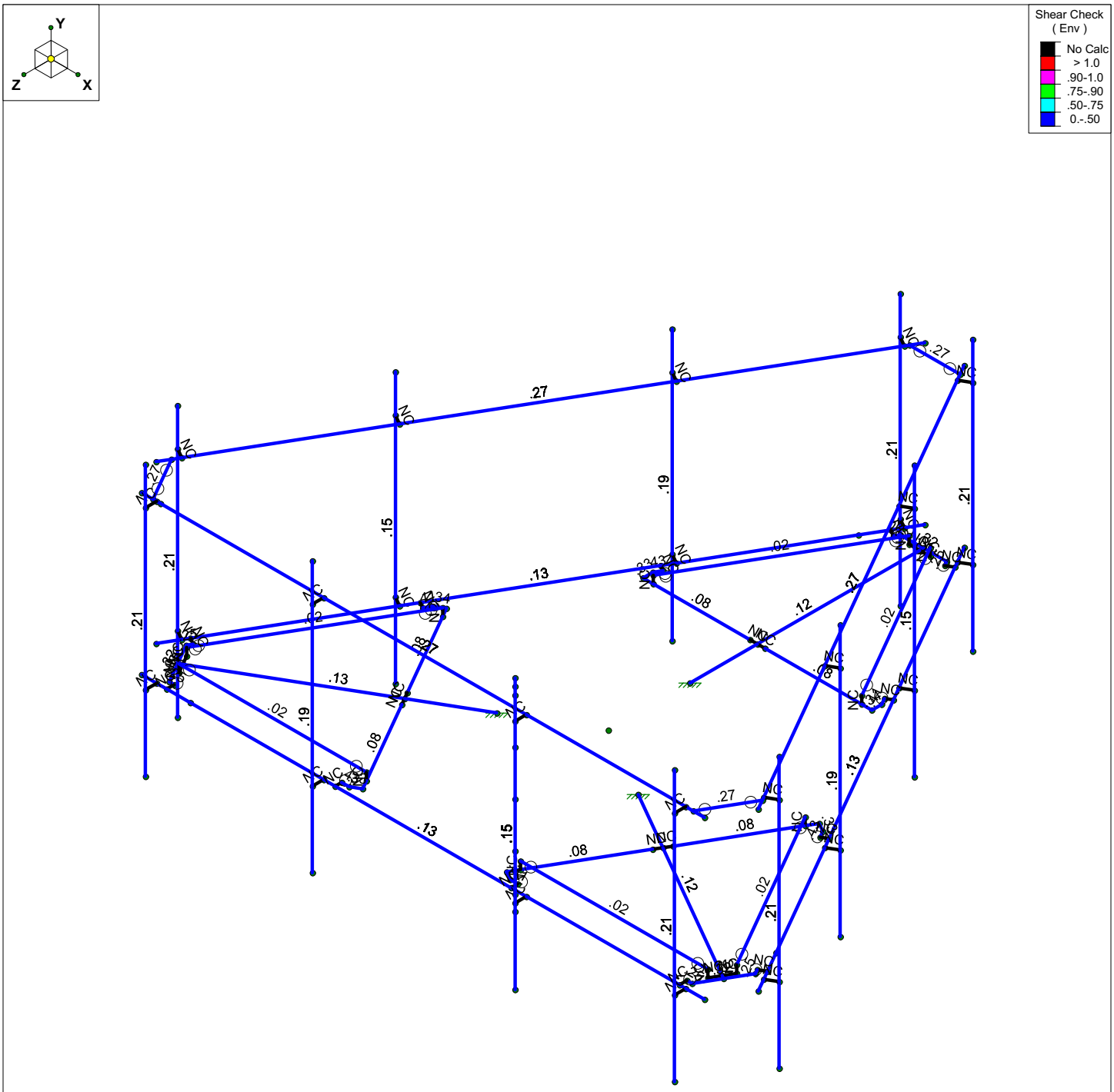
Envelope Only Solution

Maser Consulting	Antenna Mount Analysis	SK - 1
AE		Nov 11, 2020 at 7:54 AM
20777294A		468026-VZW_MT_LO_H.r3d



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	Antenna Mount Analysis	SK - 2
AE		Nov 11, 2020 at 7:54 AM
20777294A		468026-VZW_MT_LO_H.r3d



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	Antenna Mount Analysis	SK - 3
AE		Nov 11, 2020 at 7:54 AM
20777294A		468026-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					90			
2	Antenna Di	None					90			
3	Antenna Wo (0 Deg)	None					90			
4	Antenna Wo (30 Deg)	None					90			
5	Antenna Wo (60 Deg)	None					90			
6	Antenna Wo (90 Deg)	None					90			
7	Antenna Wo (120 Deg)	None					90			
8	Antenna Wo (150 Deg)	None					90			
9	Antenna Wo (180 Deg)	None					90			
10	Antenna Wo (210 Deg)	None					90			
11	Antenna Wo (240 Deg)	None					90			
12	Antenna Wo (270 Deg)	None					90			
13	Antenna Wo (300 Deg)	None					90			
14	Antenna Wo (330 Deg)	None					90			
15	Antenna Wi (0 Deg)	None					90			
16	Antenna Wi (30 Deg)	None					90			
17	Antenna Wi (60 Deg)	None					90			
18	Antenna Wi (90 Deg)	None					90			
19	Antenna Wi (120 Deg)	None					90			
20	Antenna Wi (150 Deg)	None					90			
21	Antenna Wi (180 Deg)	None					90			
22	Antenna Wi (210 Deg)	None					90			
23	Antenna Wi (240 Deg)	None					90			
24	Antenna Wi (270 Deg)	None					90			
25	Antenna Wi (300 Deg)	None					90			
26	Antenna Wi (330 Deg)	None					90			
27	Antenna Wm (0 Deg)	None					90			
28	Antenna Wm (30 Deg)	None					90			
29	Antenna Wm (60 Deg)	None					90			
30	Antenna Wm (90 Deg)	None					90			
31	Antenna Wm (120 Deg)	None					90			
32	Antenna Wm (150 Deg)	None					90			
33	Antenna Wm (180 Deg)	None					90			
34	Antenna Wm (210 Deg)	None					90			
35	Antenna Wm (240 Deg)	None					90			
36	Antenna Wm (270 Deg)	None					90			
37	Antenna Wm (300 Deg)	None					90			
38	Antenna Wm (330 Deg)	None					90			
39	Structure D	None		-1					3	
40	Structure Di	None						57	3	
41	Structure Wo (0 Deg)	None						114		
42	Structure Wo (30 Deg)	None						114		
43	Structure Wo (60 Deg)	None						114		
44	Structure Wo (90 Deg)	None						114		
45	Structure Wo (120 D...	None						114		
46	Structure Wo (150 D...	None						114		
47	Structure Wo (180 D...	None						114		
48	Structure Wo (210 D...	None						114		
49	Structure Wo (240 D...	None						114		
50	Structure Wo (270 D...	None						114		
51	Structure Wo (300 D...	None						114		
52	Structure Wo (330 D...	None						114		
53	Structure Wi (0 Deg)	None						114		
54	Structure Wi (30 Deg)	None						114		
55	Structure Wi (60 Deg)	None						114		
56	Structure Wi (90 Deg)	None						114		

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						114		
58	Structure Wi (150 De...	None						114		
59	Structure Wi (180 De...	None						114		
60	Structure Wi (210 De...	None						114		
61	Structure Wi (240 De...	None						114		
62	Structure Wi (270 De...	None						114		
63	Structure Wi (300 De...	None						114		
64	Structure Wi (330 De...	None						114		
65	Structure Wm (0 Deg)	None						114		
66	Structure Wm (30 De...	None						114		
67	Structure Wm (60 De...	None						114		
68	Structure Wm (90 De...	None						114		
69	Structure Wm (120 D...	None						114		
70	Structure Wm (150 D...	None						114		
71	Structure Wm (180 D...	None						114		
72	Structure Wm (210 D...	None						114		
73	Structure Wm (240 D...	None						114		
74	Structure Wm (270 D...	None						114		
75	Structure Wm (300 D...	None						114		
76	Structure Wm (330 D...	None						114		
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...	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 (0 Deg)	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1										
14	1.2D + 1.0Di + 1.0Wi (30 De...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1										
15	1.2D + 1.0Di + 1.0Wi (60 De...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1										
16	1.2D + 1.0Di + 1.0Wi (90 De...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1										
17	1.2D + 1.0Di + 1.0Wi (120 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1										
18	1.2D + 1.0Di + 1.0Wi (150 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1										
19	1.2D + 1.0Di + 1.0Wi (180 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1										
20	1.2D + 1.0Di + 1.0Wi (210 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1										
21	1.2D + 1.0Di + 1.0Wi (240 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1										
22	1.2D + 1.0Di + 1.0Wi (270 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1										
23	1.2D + 1.0Di + 1.0Wi (300 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1										
24	1.2D + 1.0Di + 1.0Wi (330 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1										
25	1.2D + 1.5Lm1 + 1.0Wm (0 ...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1												
26	1.2D + 1.5Lm1 + 1.0Wm (30...	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 + 1.0Wm (60...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 + 1.0Wm (90...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1 + 1.0Wm (12...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 + 1.0Wm (15...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 + 1.0Wm (18...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 + 1.0Wm (21...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 + 1.0Wm (24...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 + 1.0Wm (27...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 + 1.0Wm (30...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 + 1.0Wm (33...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 + 1.0Wm (0 ...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 + 1.0Wm (30...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 + 1.0Wm (60...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 + 1.0Wm (90...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 + 1.0Wm (12...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 + 1.0Wm (15...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 + 1.0Wm (18...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 + 1.0Wm (21...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 + 1.0Wm (24...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 + 1.0Wm (27...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 + 1.0Wm (30...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 + 1.0Wm (33...	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 (0 Deg)		Y		1	1.2	39	1.2	SX		SY	1	SZ	-1										
54	1.2D + 1.0Ev + 1.0Eh (30 D...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.8...										
55	1.2D + 1.0Ev + 1.0Eh (60 D...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5										
56	1.2D + 1.0Ev + 1.0Eh (90 D...		Y		1	1.2	39	1.2	SX	1	SY	1	SZ											
57	1.2D + 1.0Ev + 1.0Eh (120 ...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5										
58	1.2D + 1.0Ev + 1.0Eh (150 ...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866										
59	1.2D + 1.0Ev + 1.0Eh (180 ...		Y		1	1.2	39	1.2	SX		SY	1	SZ	1										
60	1.2D + 1.0Ev + 1.0Eh (210 ...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866										
61	1.2D + 1.0Ev + 1.0Eh (240 ...		Y		1	1.2	39	1.2	SX	-.8...	SY	1	SZ	.5										
62	1.2D + 1.0Ev + 1.0Eh (270 ...		Y		1	1.2	39	1.2	SX	-1	SY	1	SZ											
63	1.2D + 1.0Ev + 1.0Eh (300 ...		Y		1	1.2	39	1.2	SX	-.8...	SY	1	SZ	-.5										
64	1.2D + 1.0Ev + 1.0Eh (330 ...		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	N1	6.25	0	4.112607	0	
2	N2	-6.25	0	4.112607	0	
3	N3	0	0	-1.8125	0	
4	N5	-2.541667	0	-3.3125	0	
5	N6	2.315104	0.166667	-3.3125	0	
6	N7	-2.315104	0.166667	-3.3125	0	
7	N10	-5.916667	0	4.112607	0	
8	N11	-5.916667	0	4.362607	0	
9	N18	-5.916667	-1.666667	4.362607	0	
10	N19	-5.916667	4.333333	4.362607	0	
11	N24	0	0	-3.3125	0	
12	N27	0	0	-7	0	
13	CP	0	0	0	0	
14	N29	2.315104	0	-3.3125	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
15	N30	-2.315104	0	-3.3125	0	
16	N101	2.541667	0	-3.3125	0	
17	N102	-0.166667	0	-3.3125	0	
18	N103A	0.166667	0	-3.3125	0	
19	N104A	-2.541667	0	-3.53125	0	
20	N105	2.541667	0	-3.53125	0	
21	N131	2.458333	0	-3.675588	0	
22	N135	0.571615	0	-6.903023	0	
23	N144	-2.458333	0	-3.675588	0	
24	N148	-0.571615	0	-6.903023	0	
25	N86A	2.584629	0	-3.748504	0	
26	N86B	-2.584629	0	-3.748504	0	
27	N86C	-0.515625	0	-7	0	
28	N87A	0.515625	0	-7	0	
29	N86D	0.715429	0	-6.986054	0	
30	N86E	-0.715429	0	-6.986054	0	
31	N88A	0	0	-6.916667	0	
32	N87C	0.234238	0.166667	-6.916667	0	
33	N86G	0.234238	0	-6.916667	0	
34	N87B	-0.234238	0.166667	-6.916667	0	
35	N88C	-0.234238	0	-6.916667	0	
36	N109	-5.169162	0	4.112607	0	
37	N52	-1.569671	0	0.90625	0	
38	N53	-1.597876	0	3.857398	0	
39	N54	-4.026261	0.166667	-0.348689	0	
40	N55	-1.711157	0.166667	3.661189	0	
41	N56	-2.868709	0	1.65625	0	
42	N57	-6.062178	0	3.5	0	
43	N59	-4.026261	0	-0.348689	0	
44	N60	-1.711157	0	3.661189	0	
45	N61	-4.139542	0	-0.544898	0	
46	N62	-2.785376	0	1.800588	0	
47	N63	-2.952042	0	1.511912	0	
48	N64	-1.787319	0	3.966773	0	
49	N65	-4.328986	0	-0.435523	0	
50	N66	-4.412319	0	-0.291185	0	
51	N67	-6.264001	0	2.956479	0	
52	N68	-1.953986	0	3.966773	0	
53	N69	-5.692386	0	3.946544	0	
54	N70	-4.538615	0	-0.364102	0	
55	N71	-1.953986	0	4.112607	0	
56	N72	-5.804365	0	3.946544	0	
57	N73	-6.31999	0	3.053456	0	
58	N74	-6.407815	0	2.873448	0	
59	N75	-5.692386	0	4.112607	0	
60	N76	-5.990009	0	3.458333	0	
61	N77	-6.107128	0.166667	3.255478	0	
62	N78	-6.107128	0	3.255478	0	
63	N79	-5.87289	0.166667	3.661189	0	
64	N80	-5.87289	0	3.661189	0	
65	N81	1.569671	0	0.90625	0	
66	N82	4.139542	0	-0.544898	0	
67	N83	1.711157	0.166667	3.661189	0	
68	N84	4.026261	0.166667	-0.348689	0	
69	N85	2.868709	0	1.65625	0	
70	N86	6.062178	0	3.5	0	
71	N88	1.711157	0	3.661189	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
72	N89	4.026261	0	-0.348689	0	
73	N90	1.597876	0	3.857398	0	
74	N91	2.952042	0	1.511912	0	
75	N92	2.785376	0	1.800588	0	
76	N93	4.328986	0	-0.435523	0	
77	N94	1.787319	0	3.966773	0	
78	N95	1.953986	0	3.966773	0	
79	N96	5.692386	0	3.946544	0	
80	N97	4.412319	0	-0.291185	0	
81	N98	6.264001	0	2.956479	0	
82	N99	1.953986	0	4.112607	0	
83	N100	4.538615	0	-0.364102	0	
84	N101A	6.31999	0	3.053456	0	
85	N102A	5.804365	0	3.946544	0	
86	N103	5.692386	0	4.112607	0	
87	N104	6.407815	0	2.873448	0	
88	N105B	5.990009	0	3.458333	0	
89	N106	5.87289	0.166667	3.661189	0	
90	N107	5.87289	0	3.661189	0	
91	N108	6.107128	0.166667	3.255478	0	
92	N109A	6.107128	0	3.255478	0	
93	N93A	-2.208333	0	4.112607	0	
94	N94A	-2.208333	0	4.362607	0	
95	N95A	-2.208333	-1.666667	4.362607	0	
96	N96A	-2.208333	4.333333	4.362607	0	
97	N97A	2.291667	0	4.112607	0	
98	N98A	2.291667	0	4.362607	0	
99	N99A	2.291667	-1.666667	4.362607	0	
100	N100A	2.291667	4.333333	4.362607	0	
101	N101B	5.833333	0	4.112607	0	
102	N102B	5.833333	0	4.362607	0	
103	N103B	5.833333	-1.666667	4.362607	0	
104	N104B	5.833333	4.333333	4.362607	0	
105	N105A	0.436622	0	-7.468962	0	
106	N106A	6.686622	0	3.356355	0	
107	N107A	6.519955	0	3.06768	0	
108	N108A	6.736461	0	2.94268	0	
109	N109B	6.736461	-1.666667	2.94268	0	
110	N110	6.736461	4.333333	2.94268	0	
111	N112	6.146203	0	2.420323	0	
112	N113	4.665788	0	-0.143831	0	
113	N114	4.882295	0	-0.268831	0	
114	N115	4.882295	-1.666667	-0.268831	0	
115	N116	4.882295	4.333333	-0.268831	0	
116	N117	2.415788	0	-4.040945	0	
117	N118	2.632295	0	-4.165945	0	
118	N119	2.632295	-1.666667	-4.165945	0	
119	N120	2.632295	4.333333	-4.165945	0	
120	N121	0.644955	0	-7.108118	0	
121	N122	0.861461	0	-7.233118	0	
122	N123	0.861461	-1.666667	-7.233118	0	
123	N124	0.861461	4.333333	-7.233118	0	
124	N125	-6.686622	0	3.356355	0	
125	N126	-0.436622	0	-7.468962	0	
126	N127	-0.603288	0	-7.180287	0	
127	N128	-0.819795	0	-7.305287	0	
128	N129	-0.819795	-1.666667	-7.305287	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
129	N130	-0.819795	4.333333	-7.305287	0	
130	N132	-0.977041	0	-6.532929	0	
131	N133	-2.457455	0	-3.968776	0	
132	N134	-2.673961	0	-4.093776	0	
133	N135A	-2.673961	-1.666667	-4.093776	0	
134	N136	-2.673961	4.333333	-4.093776	0	
135	N137	-4.707455	0	-0.071662	0	
136	N138	-4.923961	0	-0.196662	0	
137	N139	-4.923961	-1.666667	-0.196662	0	
138	N140	-4.923961	4.333333	-0.196662	0	
139	N141	-6.478288	0	2.995512	0	
140	N142	-6.694795	0	2.870512	0	
141	N143	-6.694795	-1.666667	2.870512	0	
142	N144A	-6.694795	4.333333	2.870512	0	
143	N143A	2.291667	4.166667	4.362607	0	
144	N144B	2.291667	-0.166667	4.362607	0	
145	N145	2.291667	2	4.362607	0	
146	N146	2.291667	4	4.362607	0	
147	N147	2.291667	0.166667	4.362607	0	
148	N148A	2.291667	3	4.362607	0	
149	N149	2.291667	1	4.362607	0	
150	N150	6.25	3.5	4.112607	0	
151	N151	-6.25	3.5	4.112607	0	
152	N152	-5.916667	3.5	4.112607	0	
153	N153	-5.916667	3.5	4.362607	0	
154	N154	-2.208333	3.5	4.112607	0	
155	N155	-2.208333	3.5	4.362607	0	
156	N156	2.291667	3.5	4.112607	0	
157	N157	2.291667	3.5	4.362607	0	
158	N158	5.833333	3.5	4.112607	0	
159	N159	5.833333	3.5	4.362607	0	
160	N161	0.436622	3.5	-7.468962	0	
161	N162	6.686622	3.5	3.356355	0	
162	N163	6.519955	3.5	3.06768	0	
163	N164	6.736461	3.5	2.94268	0	
164	N165	4.665788	3.5	-0.143831	0	
165	N166	4.882295	3.5	-0.268831	0	
166	N167	2.415788	3.5	-4.040945	0	
167	N168	2.632295	3.5	-4.165945	0	
168	N169	0.644955	3.5	-7.108118	0	
169	N170	0.861461	3.5	-7.233118	0	
170	N172	-6.686622	3.5	3.356355	0	
171	N173	-0.436622	3.5	-7.468962	0	
172	N174	-0.603288	3.5	-7.180287	0	
173	N175	-0.819795	3.5	-7.305287	0	
174	N176	-2.457455	3.5	-3.968776	0	
175	N177	-2.673961	3.5	-4.093776	0	
176	N178	-4.707455	3.5	-0.071662	0	
177	N179	-4.923961	3.5	-0.196662	0	
178	N180	-6.478288	3.5	2.995512	0	
179	N181	-6.694795	3.5	2.870512	0	
180	N180A	-5.833333	3.5	4.112607	0	
181	N181A	-6	3.5	4.112607	0	
182	N182	6	3.5	4.112607	0	
183	N185	6.561622	3.5	3.139849	0	
184	N186	0.561622	3.5	-7.252456	0	
185	N189	-0.561622	3.5	-7.252456	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
186	N190	-6.561622	3.5	3.139849	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	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	Handrail Kit	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
3	Standoff Horizontal	HSS4X4X3	Beam	SquareTube	A500 Gr.B Re...	Typical	2.58	6.21	6.21	10
4	Corner Plate	PL1/2x6	Beam	BAR	A36 Gr.36	Typical	3	.063	9	.237
5	Platform Crossmem...	HSS4X4X3	Beam	SquareTube	A500 Gr.B Re...	Typical	2.58	6.21	6.21	10
6	Grating Support	L2x2x3	Beam	Single Angle	A36 Gr.36	Typical	.722	.271	.271	.009
7	Handrail Corner	L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical	1.19	.692	.692	.026
8	Mount Pipe	PIPE_2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
9	Cross Arm Plate	PL3/8x6	Column	RECT	A36 Gr.36	Typical	2.25	.026	6.75	.101

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N2			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
2	M4	N3	N27			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
3	M10	N101	N103A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
4	M20	N10	N11			RIGID	None	None	RIGID	Typical
5	MP4A	N19	N18			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
6	M43	N102	N5			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
7	M46	N86C	N87A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
8	M35A	N7	N30			RIGID	None	None	RIGID	Typical
9	M36A	N6	N29			RIGID	None	None	RIGID	Typical
10	M51B	N87C	N6			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
11	M52B	N7	N87B			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
12	M52	N87B	N88C			RIGID	None	None	RIGID	Typical
13	M58	N102	N24			RIGID	None	None	RIGID	Typical
14	M59	N24	N103A			RIGID	None	None	RIGID	Typical
15	M76	N101	N105			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
16	M77	N105	N131			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
17	M79	N131	N86A			RIGID	None	None	RIGID	Typical
18	M80	N87A	N135			Corner Plate	Beam	BAR	A36 Gr.36	Typical
19	M83	N135	N86D			RIGID	None	None	RIGID	Typical
20	M84	N5	N104A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
21	M85	N104A	N144			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
22	M88	N144	N86B			RIGID	None	None	RIGID	Typical
23	M91	N86C	N148			Corner Plate	Beam	BAR	A36 Gr.36	Typical
24	M92	N148	N86E			RIGID	None	None	RIGID	Typical
25	M50	N88C	N88A			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
26	M51	N88A	N86G			RIGID	None	None	RIGID	Typical
27	M51A	N87C	N86G			RIGID	None	None	RIGID	Typical
28	M34	N52	N57			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
29	M35	N61	N63			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
30	M36	N62	N53			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
31	M37	N72	N73			Corner Plate	Beam	BAR	A36 Gr.36	Typical
32	M38	N55	N60			RIGID	None	None	RIGID	Typical
33	M39	N54	N59			RIGID	None	None	RIGID	Typical
34	M40	N77	N54			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
35	M41	N55	N79			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
36	M42	N79	N80			RIGID	None	None	RIGID	Typical
37	M43A	N62	N56			RIGID	None	None	RIGID	Typical
38	M44	N56	N63			RIGID	None	None	RIGID	Typical
39	M45	N61	N65			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
40	M46A	N65	N66			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
41	M47	N66	N70			RIGID	None	None	RIGID	Typical
42	M48	N73	N67			Corner Plate	Beam	BAR	A36 Gr.36	Typical
43	M49	N67	N74			RIGID	None	None	RIGID	Typical
44	M50A	N53	N64			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
45	M51C	N64	N68			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
46	M52A	N68	N71			RIGID	None	None	RIGID	Typical
47	M53	N72	N69			Corner Plate	Beam	BAR	A36 Gr.36	Typical
48	M54	N69	N75			RIGID	None	None	RIGID	Typical
49	M55	N80	N76			RIGID	None	None	RIGID	Typical
50	M56	N76	N78			RIGID	None	None	RIGID	Typical
51	M57	N77	N78			RIGID	None	None	RIGID	Typical
52	M58A	N81	N86			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
53	M59A	N90	N92			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
54	M60	N91	N82			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
55	M61	N101A	N102A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
56	M62	N84	N89			RIGID	None	None	RIGID	Typical
57	M63	N83	N88			RIGID	None	None	RIGID	Typical
58	M64	N106	N83			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
59	M65	N84	N108			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
60	M66	N108	N109A			RIGID	None	None	RIGID	Typical
61	M67	N91	N85			RIGID	None	None	RIGID	Typical
62	M68	N85	N92			RIGID	None	None	RIGID	Typical
63	M69	N90	N94			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
64	M70	N94	N95			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
65	M71	N95	N99			RIGID	None	None	RIGID	Typical
66	M72	N102A	N96			Corner Plate	Beam	BAR	A36 Gr.36	Typical
67	M73	N96	N103			RIGID	None	None	RIGID	Typical
68	M74	N82	N93			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
69	M75	N93	N97			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
70	M76A	N97	N100			RIGID	None	None	RIGID	Typical
71	M77A	N101A	N98			Corner Plate	Beam	BAR	A36 Gr.36	Typical
72	M78	N98	N104			RIGID	None	None	RIGID	Typical
73	M79A	N109A	N105B			RIGID	None	None	RIGID	Typical
74	M80A	N105B	N107			RIGID	None	None	RIGID	Typical
75	M81	N106	N107			RIGID	None	None	RIGID	Typical
76	M76B	N93A	N94A			RIGID	None	None	RIGID	Typical
77	MP3A	N96A	N95A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
78	M78A	N97A	N98A			RIGID	None	None	RIGID	Typical
79	MP2A	N100A	N99A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
80	M80B	N101B	N102B			RIGID	None	None	RIGID	Typical
81	MP1A	N104B	N103B			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
82	M82	N105A	N106A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
83	M83A	N107A	N108A			RIGID	None	None	RIGID	Typical
84	MP4C	N110	N109B			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
85	M85A	N113	N114			RIGID	None	None	RIGID	Typical
86	MP3C	N116	N115			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
87	M87	N117	N118			RIGID	None	None	RIGID	Typical
88	MP2C	N120	N119			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
89	M89	N121	N122			RIGID	None	None	RIGID	Typical
90	MP1C	N124	N123			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
91	M91A	N125	N126			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
92	M92A	N127	N128			RIGID	None	None	RIGID	Typical
93	MP4B	N130	N129			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
94	M94	N133	N134			RIGID	None	None	RIGID	Typical
95	MP3B	N136	N135A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
96	M96	N137	N138			RIGID	None	None	RIGID	Typical
97	MP2B	N140	N139			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
98	M98	N141	N142			RIGID	None	None	RIGID	Typical
99	MP1B	N144A	N143			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
100	M100	N150	N151			Handrail Kit	Beam	Pipe	A53 Gr.B	Typical
101	M101	N152	N153			RIGID	None	None	RIGID	Typical
102	M102	N154	N155			RIGID	None	None	RIGID	Typical
103	M103	N156	N157			RIGID	None	None	RIGID	Typical
104	M104	N158	N159			RIGID	None	None	RIGID	Typical
105	M105	N161	N162			Handrail Kit	Beam	Pipe	A53 Gr.B	Typical
106	M106	N163	N164			RIGID	None	None	RIGID	Typical
107	M107	N165	N166			RIGID	None	None	RIGID	Typical
108	M108	N167	N168			RIGID	None	None	RIGID	Typical
109	M109	N169	N170			RIGID	None	None	RIGID	Typical
110	M110	N172	N173			Handrail Kit	Beam	Pipe	A53 Gr.B	Typical
111	M111	N174	N175			RIGID	None	None	RIGID	Typical
112	M112	N176	N177			RIGID	None	None	RIGID	Typical
113	M113	N178	N179			RIGID	None	None	RIGID	Typical
114	M114	N180	N181			RIGID	None	None	RIGID	Typical
115	M115	N181A	N190		180	Handrail Corner	Beam	Single Angle	A36 Gr.36	Typical
116	M116	N189	N186		180	Handrail Corner	Beam	Single Angle	A36 Gr.36	Typical
117	M117	N185	N182		180	Handrail Corner	Beam	Single Angle	A36 Gr.36	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes	Default			None
2	M4						Yes				None
3	M10						Yes	Default			None
4	M20						Yes	** NA **			None
5	MP4A						Yes	** NA **			None
6	M43						Yes	Default			None
7	M46						Yes	Default			None
8	M35A						Yes	** NA **			None
9	M36A						Yes	** NA **			None
10	M51B	OOOOOX	OOOOOX				Yes	Default			None
11	M52B	OOOOOX	OOOOOX				Yes	Default			None
12	M52						Yes	** NA **			None
13	M58						Yes	** NA **			None
14	M59						Yes	** NA **			None
15	M76						Yes	** NA **			None
16	M77						Yes	** NA **			None
17	M79		BenPIN				Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
18	M80						Yes				None
19	M83		BenPIN				Yes	** NA **			None
20	M84						Yes	** NA **			None
21	M85						Yes	** NA **			None
22	M88		BenPIN				Yes	** NA **			None
23	M91						Yes				None
24	M92		BenPIN				Yes	** NA **			None
25	M50						Yes	** NA **			None
26	M51						Yes	** NA **			None
27	M51A						Yes	** NA **			None
28	M34						Yes				None
29	M35						Yes	Default			None
30	M36						Yes	Default			None
31	M37						Yes	Default			None
32	M38						Yes	** NA **			None
33	M39						Yes	** NA **			None
34	M40	OOOOOX	OOOOOX				Yes	Default			None
35	M41	OOOOOX	OOOOOX				Yes	Default			None
36	M42						Yes	** NA **			None
37	M43A						Yes	** NA **			None
38	M44						Yes	** NA **			None
39	M45						Yes	** NA **			None
40	M46A						Yes	** NA **			None
41	M47		BenPIN				Yes	** NA **			None
42	M48						Yes				None
43	M49		BenPIN				Yes	** NA **			None
44	M50A						Yes	** NA **			None
45	M51C						Yes	** NA **			None
46	M52A		BenPIN				Yes	** NA **			None
47	M53						Yes				None
48	M54		BenPIN				Yes	** NA **			None
49	M55						Yes	** NA **			None
50	M56						Yes	** NA **			None
51	M57						Yes	** NA **			None
52	M58A						Yes				None
53	M59A						Yes	Default			None
54	M60						Yes	Default			None
55	M61						Yes	Default			None
56	M62						Yes	** NA **			None
57	M63						Yes	** NA **			None
58	M64	OOOOOX	OOOOOX				Yes	Default			None
59	M65	OOOOOX	OOOOOX				Yes	Default			None
60	M66						Yes	** NA **			None
61	M67						Yes	** NA **			None
62	M68						Yes	** NA **			None
63	M69						Yes	** NA **			None
64	M70						Yes	** NA **			None
65	M71		BenPIN				Yes	** NA **			None
66	M72						Yes				None
67	M73		BenPIN				Yes	** NA **			None
68	M74						Yes	** NA **			None
69	M75						Yes	** NA **			None
70	M76A		BenPIN				Yes	** NA **			None
71	M77A						Yes				None
72	M78		BenPIN				Yes	** NA **			None
73	M79A						Yes	** NA **			None
74	M80A						Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
75	M81						Yes	** NA **			None
76	M76B						Yes	** NA **			None
77	MP3A						Yes	** NA **			None
78	M78A						Yes	** NA **			None
79	MP2A						Yes	** NA **			None
80	M80B						Yes	** NA **			None
81	MP1A						Yes	** NA **			None
82	M82						Yes	Default			None
83	M83A						Yes	** NA **			None
84	MP4C						Yes	** NA **			None
85	M85A						Yes	** NA **			None
86	MP3C						Yes	** NA **			None
87	M87						Yes	** NA **			None
88	MP2C						Yes	** NA **			None
89	M89						Yes	** NA **			None
90	MP1C						Yes	** NA **			None
91	M91A						Yes	Default			None
92	M92A						Yes	** NA **			None
93	MP4B						Yes	** NA **			None
94	M94						Yes	** NA **			None
95	MP3B						Yes	** NA **			None
96	M96						Yes	** NA **			None
97	MP2B						Yes	** NA **			None
98	M98						Yes	** NA **			None
99	MP1B						Yes	** NA **			None
100	M100						Yes	Default			None
101	M101						Yes	** NA **			None
102	M102						Yes	** NA **			None
103	M103						Yes	** NA **			None
104	M104						Yes	** NA **			None
105	M105						Yes	Default			None
106	M106						Yes	** NA **			None
107	M107						Yes	** NA **			None
108	M108						Yes	** NA **			None
109	M109						Yes	** NA **			None
110	M110						Yes	Default			None
111	M111						Yes	** NA **			None
112	M112						Yes	** NA **			None
113	M113						Yes	** NA **			None
114	M114						Yes	** NA **			None
115	M115	OOOOOX	OOOOOX				Yes				None
116	M116	OOOOOX	OOOOOX				Yes				None
117	M117	OOOOOX	OOOOOX				Yes				None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-38.7	.33
2	MP1A	My	-.026	.33
3	MP1A	Mz	0	.33
4	MP1A	Y	-38.7	4.17
5	MP1A	My	-.026	4.17
6	MP1A	Mz	0	4.17
7	MP1B	Y	-38.7	.33
8	MP1B	My	.013	.33
9	MP1B	Mz	-.022	.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP1B	Y	-38.7	4.17
11	MP1B	My	.013	4.17
12	MP1B	Mz	-.022	4.17
13	MP1C	Y	-38.7	.33
14	MP1C	My	.013	.33
15	MP1C	Mz	.022	.33
16	MP1C	Y	-38.7	4.17
17	MP1C	My	.013	4.17
18	MP1C	Mz	.022	4.17
19	MP3A	Y	-38.7	.33
20	MP3A	My	-.026	.33
21	MP3A	Mz	0	.33
22	MP3A	Y	-38.7	4.17
23	MP3A	My	-.026	4.17
24	MP3A	Mz	0	4.17
25	MP3B	Y	-38.7	.33
26	MP3B	My	.013	.33
27	MP3B	Mz	-.022	.33
28	MP3B	Y	-38.7	4.17
29	MP3B	My	.013	4.17
30	MP3B	Mz	-.022	4.17
31	MP3C	Y	-38.7	.33
32	MP3C	My	.013	.33
33	MP3C	Mz	.022	.33
34	MP3C	Y	-38.7	4.17
35	MP3C	My	.013	4.17
36	MP3C	Mz	.022	4.17
37	MP3A	Y	-84.4	2.75
38	MP3A	My	.07	2.75
39	MP3A	Mz	0	2.75
40	MP3B	Y	-84.4	2.75
41	MP3B	My	-.035	2.75
42	MP3B	Mz	.061	2.75
43	MP3C	Y	-84.4	2.75
44	MP3C	My	-.035	2.75
45	MP3C	Mz	-.061	2.75
46	MP1A	Y	-70.3	2.75
47	MP1A	My	.053	2.75
48	MP1A	Mz	0	2.75
49	MP1B	Y	-70.3	2.75
50	MP1B	My	-.026	2.75
51	MP1B	Mz	.046	2.75
52	MP1C	Y	-70.3	2.75
53	MP1C	My	-.026	2.75
54	MP1C	Mz	-.046	2.75
55	MP2A	Y	-16.55	.17
56	MP2A	My	-.011	.17
57	MP2A	Mz	0	.17
58	MP2A	Y	-16.55	4.5
59	MP2A	My	-.011	4.5
60	MP2A	Mz	0	4.5
61	MP2B	Y	-16.55	.17
62	MP2B	My	.006	.17
63	MP2B	Mz	-.01	.17
64	MP2B	Y	-16.55	4.5
65	MP2B	My	.006	4.5
66	MP2B	Mz	-.01	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
67	MP2C	Y	-16.55	.17
68	MP2C	My	.006	.17
69	MP2C	Mz	.01	.17
70	MP2C	Y	-16.55	4.5
71	MP2C	My	.006	4.5
72	MP2C	Mz	.01	4.5
73	MP4A	Y	-43.55	2.33
74	MP4A	My	-.022	2.33
75	MP4A	Mz	0	2.33
76	MP4A	Y	-43.55	3.33
77	MP4A	My	-.022	3.33
78	MP4A	Mz	0	3.33
79	MP4B	Y	-43.55	2.33
80	MP4B	My	.011	2.33
81	MP4B	Mz	-.019	2.33
82	MP4B	Y	-43.55	3.33
83	MP4B	My	.011	3.33
84	MP4B	Mz	-.019	3.33
85	MP4C	Y	-43.55	2.33
86	MP4C	My	.011	2.33
87	MP4C	Mz	.019	2.33
88	MP4C	Y	-43.55	3.33
89	MP4C	My	.011	3.33
90	MP4C	Mz	.019	3.33

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-131.432	.33
2	MP1A	My	-.088	.33
3	MP1A	Mz	0	.33
4	MP1A	Y	-131.432	4.17
5	MP1A	My	-.088	4.17
6	MP1A	Mz	0	4.17
7	MP1B	Y	-131.432	.33
8	MP1B	My	.044	.33
9	MP1B	Mz	-.076	.33
10	MP1B	Y	-131.432	4.17
11	MP1B	My	.044	4.17
12	MP1B	Mz	-.076	4.17
13	MP1C	Y	-131.432	.33
14	MP1C	My	.044	.33
15	MP1C	Mz	.076	.33
16	MP1C	Y	-131.432	4.17
17	MP1C	My	.044	4.17
18	MP1C	Mz	.076	4.17
19	MP3A	Y	-131.432	.33
20	MP3A	My	-.088	.33
21	MP3A	Mz	0	.33
22	MP3A	Y	-131.432	4.17
23	MP3A	My	-.088	4.17
24	MP3A	Mz	0	4.17
25	MP3B	Y	-131.432	.33
26	MP3B	My	.044	.33
27	MP3B	Mz	-.076	.33
28	MP3B	Y	-131.432	4.17
29	MP3B	My	.044	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP3B	Mz	-.076	4.17
31	MP3C	Y	-131.432	.33
32	MP3C	My	.044	.33
33	MP3C	Mz	.076	.33
34	MP3C	Y	-131.432	4.17
35	MP3C	My	.044	4.17
36	MP3C	Mz	.076	4.17
37	MP3A	Y	-69.925	2.75
38	MP3A	My	.058	2.75
39	MP3A	Mz	0	2.75
40	MP3B	Y	-69.925	2.75
41	MP3B	My	-.029	2.75
42	MP3B	Mz	.05	2.75
43	MP3C	Y	-69.925	2.75
44	MP3C	My	-.029	2.75
45	MP3C	Mz	-.05	2.75
46	MP1A	Y	-63.117	2.75
47	MP1A	My	.047	2.75
48	MP1A	Mz	0	2.75
49	MP1B	Y	-63.117	2.75
50	MP1B	My	-.024	2.75
51	MP1B	Mz	.041	2.75
52	MP1C	Y	-63.117	2.75
53	MP1C	My	-.024	2.75
54	MP1C	Mz	-.041	2.75
55	MP2A	Y	-93.279	.17
56	MP2A	My	-.062	.17
57	MP2A	Mz	0	.17
58	MP2A	Y	-93.279	4.5
59	MP2A	My	-.062	4.5
60	MP2A	Mz	0	4.5
61	MP2B	Y	-93.279	.17
62	MP2B	My	.031	.17
63	MP2B	Mz	-.054	.17
64	MP2B	Y	-93.279	4.5
65	MP2B	My	.031	4.5
66	MP2B	Mz	-.054	4.5
67	MP2C	Y	-93.279	.17
68	MP2C	My	.031	.17
69	MP2C	Mz	.054	.17
70	MP2C	Y	-93.279	4.5
71	MP2C	My	.031	4.5
72	MP2C	Mz	.054	4.5
73	MP4A	Y	-51.054	2.33
74	MP4A	My	-.026	2.33
75	MP4A	Mz	0	2.33
76	MP4A	Y	-51.054	3.33
77	MP4A	My	-.026	3.33
78	MP4A	Mz	0	3.33
79	MP4B	Y	-51.054	2.33
80	MP4B	My	.013	2.33
81	MP4B	Mz	-.022	2.33
82	MP4B	Y	-51.054	3.33
83	MP4B	My	.013	3.33
84	MP4B	Mz	-.022	3.33
85	MP4C	Y	-51.054	2.33
86	MP4C	My	.013	2.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
87	MP4C	Mz	.022	2.33
88	MP4C	Y	-51.054	3.33
89	MP4C	My	.013	3.33
90	MP4C	Mz	.022	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.33
2	MP1A	Z	-188.157	.33
3	MP1A	Mx	0	.33
4	MP1A	X	0	4.17
5	MP1A	Z	-188.157	4.17
6	MP1A	Mx	0	4.17
7	MP1B	X	0	.33
8	MP1B	Z	-113.17	.33
9	MP1B	Mx	.065	.33
10	MP1B	X	0	4.17
11	MP1B	Z	-113.17	4.17
12	MP1B	Mx	.065	4.17
13	MP1C	X	0	.33
14	MP1C	Z	-113.17	.33
15	MP1C	Mx	-.065	.33
16	MP1C	X	0	4.17
17	MP1C	Z	-113.17	4.17
18	MP1C	Mx	-.065	4.17
19	MP3A	X	0	.33
20	MP3A	Z	-188.157	.33
21	MP3A	Mx	0	.33
22	MP3A	X	0	4.17
23	MP3A	Z	-188.157	4.17
24	MP3A	Mx	0	4.17
25	MP3B	X	0	.33
26	MP3B	Z	-113.17	.33
27	MP3B	Mx	.065	.33
28	MP3B	X	0	4.17
29	MP3B	Z	-113.17	4.17
30	MP3B	Mx	.065	4.17
31	MP3C	X	0	.33
32	MP3C	Z	-113.17	.33
33	MP3C	Mx	-.065	.33
34	MP3C	X	0	4.17
35	MP3C	Z	-113.17	4.17
36	MP3C	Mx	-.065	4.17
37	MP3A	X	0	2.75
38	MP3A	Z	-57.352	2.75
39	MP3A	Mx	0	2.75
40	MP3B	X	0	2.75
41	MP3B	Z	-43.091	2.75
42	MP3B	Mx	-.031	2.75
43	MP3C	X	0	2.75
44	MP3C	Z	-43.091	2.75
45	MP3C	Mx	.031	2.75
46	MP1A	X	0	2.75
47	MP1A	Z	-57.352	2.75
48	MP1A	Mx	0	2.75
49	MP1B	X	0	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
50	MP1B	Z	-37.628	2.75
51	MP1B	Mx	-.024	2.75
52	MP1C	X	0	2.75
53	MP1C	Z	-37.628	2.75
54	MP1C	Mx	.024	2.75
55	MP2A	X	0	.17
56	MP2A	Z	-124.058	.17
57	MP2A	Mx	0	.17
58	MP2A	X	0	4.5
59	MP2A	Z	-124.058	4.5
60	MP2A	Mx	0	4.5
61	MP2B	X	0	.17
62	MP2B	Z	-92.449	.17
63	MP2B	Mx	.053	.17
64	MP2B	X	0	4.5
65	MP2B	Z	-92.449	4.5
66	MP2B	Mx	.053	4.5
67	MP2C	X	0	.17
68	MP2C	Z	-92.449	.17
69	MP2C	Mx	-.053	.17
70	MP2C	X	0	4.5
71	MP2C	Z	-92.449	4.5
72	MP2C	Mx	-.053	4.5
73	MP4A	X	0	2.33
74	MP4A	Z	-65.939	2.33
75	MP4A	Mx	0	2.33
76	MP4A	X	0	3.33
77	MP4A	Z	-65.939	3.33
78	MP4A	Mx	0	3.33
79	MP4B	X	0	2.33
80	MP4B	Z	-35.497	2.33
81	MP4B	Mx	.015	2.33
82	MP4B	X	0	3.33
83	MP4B	Z	-35.497	3.33
84	MP4B	Mx	.015	3.33
85	MP4C	X	0	2.33
86	MP4C	Z	-35.497	2.33
87	MP4C	Mx	-.015	2.33
88	MP4C	X	0	3.33
89	MP4C	Z	-35.497	3.33
90	MP4C	Mx	-.015	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	81.581	.33
2	MP1A	Z	-141.302	.33
3	MP1A	Mx	-.054	.33
4	MP1A	X	81.581	4.17
5	MP1A	Z	-141.302	4.17
6	MP1A	Mx	-.054	4.17
7	MP1B	X	44.087	.33
8	MP1B	Z	-76.362	.33
9	MP1B	Mx	.059	.33
10	MP1B	X	44.087	4.17
11	MP1B	Z	-76.362	4.17
12	MP1B	Mx	.059	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP1C	X	81.581	.33
14	MP1C	Z	-141.302	.33
15	MP1C	Mx	-.054	.33
16	MP1C	X	81.581	4.17
17	MP1C	Z	-141.302	4.17
18	MP1C	Mx	-.054	4.17
19	MP3A	X	81.581	.33
20	MP3A	Z	-141.302	.33
21	MP3A	Mx	-.054	.33
22	MP3A	X	81.581	4.17
23	MP3A	Z	-141.302	4.17
24	MP3A	Mx	-.054	4.17
25	MP3B	X	44.087	.33
26	MP3B	Z	-76.362	.33
27	MP3B	Mx	.059	.33
28	MP3B	X	44.087	4.17
29	MP3B	Z	-76.362	4.17
30	MP3B	Mx	.059	4.17
31	MP3C	X	81.581	.33
32	MP3C	Z	-141.302	.33
33	MP3C	Mx	-.054	.33
34	MP3C	X	81.581	4.17
35	MP3C	Z	-141.302	4.17
36	MP3C	Mx	-.054	4.17
37	MP3A	X	26.299	2.75
38	MP3A	Z	-45.551	2.75
39	MP3A	Mx	.022	2.75
40	MP3B	X	19.168	2.75
41	MP3B	Z	-33.201	2.75
42	MP3B	Mx	-.032	2.75
43	MP3C	X	26.299	2.75
44	MP3C	Z	-45.551	2.75
45	MP3C	Mx	.022	2.75
46	MP1A	X	25.389	2.75
47	MP1A	Z	-43.974	2.75
48	MP1A	Mx	.019	2.75
49	MP1B	X	15.526	2.75
50	MP1B	Z	-26.893	2.75
51	MP1B	Mx	-.023	2.75
52	MP1C	X	25.389	2.75
53	MP1C	Z	-43.974	2.75
54	MP1C	Mx	.019	2.75
55	MP2A	X	56.761	.17
56	MP2A	Z	-98.313	.17
57	MP2A	Mx	-.038	.17
58	MP2A	X	56.761	4.5
59	MP2A	Z	-98.313	4.5
60	MP2A	Mx	-.038	4.5
61	MP2B	X	40.957	.17
62	MP2B	Z	-70.939	.17
63	MP2B	Mx	.055	.17
64	MP2B	X	40.957	4.5
65	MP2B	Z	-70.939	4.5
66	MP2B	Mx	.055	4.5
67	MP2C	X	56.761	.17
68	MP2C	Z	-98.313	.17
69	MP2C	Mx	-.038	.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
70	MP2C	X	56.761	4.5
71	MP2C	Z	-98.313	4.5
72	MP2C	Mx	-.038	4.5
73	MP4A	X	27.896	2.33
74	MP4A	Z	-48.317	2.33
75	MP4A	Mx	-.014	2.33
76	MP4A	X	27.896	3.33
77	MP4A	Z	-48.317	3.33
78	MP4A	Mx	-.014	3.33
79	MP4B	X	12.675	2.33
80	MP4B	Z	-21.953	2.33
81	MP4B	Mx	.013	2.33
82	MP4B	X	12.675	3.33
83	MP4B	Z	-21.953	3.33
84	MP4B	Mx	.013	3.33
85	MP4C	X	27.896	2.33
86	MP4C	Z	-48.317	2.33
87	MP4C	Mx	-.014	2.33
88	MP4C	X	27.896	3.33
89	MP4C	Z	-48.317	3.33
90	MP4C	Mx	-.014	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	98.009	.33
2	MP1A	Z	-56.585	.33
3	MP1A	Mx	-.065	.33
4	MP1A	X	98.009	4.17
5	MP1A	Z	-56.585	4.17
6	MP1A	Mx	-.065	4.17
7	MP1B	X	98.009	.33
8	MP1B	Z	-56.585	.33
9	MP1B	Mx	.065	.33
10	MP1B	X	98.009	4.17
11	MP1B	Z	-56.585	4.17
12	MP1B	Mx	.065	4.17
13	MP1C	X	162.949	.33
14	MP1C	Z	-94.079	.33
15	MP1C	Mx	0	.33
16	MP1C	X	162.949	4.17
17	MP1C	Z	-94.079	4.17
18	MP1C	Mx	0	4.17
19	MP3A	X	98.009	.33
20	MP3A	Z	-56.585	.33
21	MP3A	Mx	-.065	.33
22	MP3A	X	98.009	4.17
23	MP3A	Z	-56.585	4.17
24	MP3A	Mx	-.065	4.17
25	MP3B	X	98.009	.33
26	MP3B	Z	-56.585	.33
27	MP3B	Mx	.065	.33
28	MP3B	X	98.009	4.17
29	MP3B	Z	-56.585	4.17
30	MP3B	Mx	.065	4.17
31	MP3C	X	162.949	.33
32	MP3C	Z	-94.079	.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP3C	Mx	0	.33
34	MP3C	X	162.949	4.17
35	MP3C	Z	-94.079	4.17
36	MP3C	Mx	0	4.17
37	MP3A	X	37.318	2.75
38	MP3A	Z	-21.545	2.75
39	MP3A	Mx	.031	2.75
40	MP3B	X	37.318	2.75
41	MP3B	Z	-21.545	2.75
42	MP3B	Mx	-.031	2.75
43	MP3C	X	49.668	2.75
44	MP3C	Z	-28.676	2.75
45	MP3C	Mx	0	2.75
46	MP1A	X	32.586	2.75
47	MP1A	Z	-18.814	2.75
48	MP1A	Mx	.024	2.75
49	MP1B	X	32.586	2.75
50	MP1B	Z	-18.814	2.75
51	MP1B	Mx	-.024	2.75
52	MP1C	X	49.668	2.75
53	MP1C	Z	-28.676	2.75
54	MP1C	Mx	0	2.75
55	MP2A	X	80.064	.17
56	MP2A	Z	-46.225	.17
57	MP2A	Mx	-.053	.17
58	MP2A	X	80.064	4.5
59	MP2A	Z	-46.225	4.5
60	MP2A	Mx	-.053	4.5
61	MP2B	X	80.064	.17
62	MP2B	Z	-46.225	.17
63	MP2B	Mx	.053	.17
64	MP2B	X	80.064	4.5
65	MP2B	Z	-46.225	4.5
66	MP2B	Mx	.053	4.5
67	MP2C	X	107.438	.17
68	MP2C	Z	-62.029	.17
69	MP2C	Mx	0	.17
70	MP2C	X	107.438	4.5
71	MP2C	Z	-62.029	4.5
72	MP2C	Mx	0	4.5
73	MP4A	X	30.741	2.33
74	MP4A	Z	-17.748	2.33
75	MP4A	Mx	-.015	2.33
76	MP4A	X	30.741	3.33
77	MP4A	Z	-17.748	3.33
78	MP4A	Mx	-.015	3.33
79	MP4B	X	30.741	2.33
80	MP4B	Z	-17.748	2.33
81	MP4B	Mx	.015	2.33
82	MP4B	X	30.741	3.33
83	MP4B	Z	-17.748	3.33
84	MP4B	Mx	.015	3.33
85	MP4C	X	57.105	2.33
86	MP4C	Z	-32.97	2.33
87	MP4C	Mx	0	2.33
88	MP4C	X	57.105	3.33
89	MP4C	Z	-32.97	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
90	MP4C	Mx	0	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	88.175	.33
2	MP1A	Z	0	.33
3	MP1A	Mx	-.059	.33
4	MP1A	X	88.175	4.17
5	MP1A	Z	0	4.17
6	MP1A	Mx	-.059	4.17
7	MP1B	X	163.162	.33
8	MP1B	Z	0	.33
9	MP1B	Mx	.054	.33
10	MP1B	X	163.162	4.17
11	MP1B	Z	0	4.17
12	MP1B	Mx	.054	4.17
13	MP1C	X	163.162	.33
14	MP1C	Z	0	.33
15	MP1C	Mx	.054	.33
16	MP1C	X	163.162	4.17
17	MP1C	Z	0	4.17
18	MP1C	Mx	.054	4.17
19	MP3A	X	88.175	.33
20	MP3A	Z	0	.33
21	MP3A	Mx	-.059	.33
22	MP3A	X	88.175	4.17
23	MP3A	Z	0	4.17
24	MP3A	Mx	-.059	4.17
25	MP3B	X	163.162	.33
26	MP3B	Z	0	.33
27	MP3B	Mx	.054	.33
28	MP3B	X	163.162	4.17
29	MP3B	Z	0	4.17
30	MP3B	Mx	.054	4.17
31	MP3C	X	163.162	.33
32	MP3C	Z	0	.33
33	MP3C	Mx	.054	.33
34	MP3C	X	163.162	4.17
35	MP3C	Z	0	4.17
36	MP3C	Mx	.054	4.17
37	MP3A	X	38.337	2.75
38	MP3A	Z	0	2.75
39	MP3A	Mx	.032	2.75
40	MP3B	X	52.598	2.75
41	MP3B	Z	0	2.75
42	MP3B	Mx	-.022	2.75
43	MP3C	X	52.598	2.75
44	MP3C	Z	0	2.75
45	MP3C	Mx	-.022	2.75
46	MP1A	X	31.053	2.75
47	MP1A	Z	0	2.75
48	MP1A	Mx	.023	2.75
49	MP1B	X	50.777	2.75
50	MP1B	Z	0	2.75
51	MP1B	Mx	-.019	2.75
52	MP1C	X	50.777	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP1C	Z	0	2.75
54	MP1C	Mx	-.019	2.75
55	MP2A	X	81.913	.17
56	MP2A	Z	0	.17
57	MP2A	Mx	-.055	.17
58	MP2A	X	81.913	4.5
59	MP2A	Z	0	4.5
60	MP2A	Mx	-.055	4.5
61	MP2B	X	113.522	.17
62	MP2B	Z	0	.17
63	MP2B	Mx	.038	.17
64	MP2B	X	113.522	4.5
65	MP2B	Z	0	4.5
66	MP2B	Mx	.038	4.5
67	MP2C	X	113.522	.17
68	MP2C	Z	0	.17
69	MP2C	Mx	.038	.17
70	MP2C	X	113.522	4.5
71	MP2C	Z	0	4.5
72	MP2C	Mx	.038	4.5
73	MP4A	X	25.349	2.33
74	MP4A	Z	0	2.33
75	MP4A	Mx	-.013	2.33
76	MP4A	X	25.349	3.33
77	MP4A	Z	0	3.33
78	MP4A	Mx	-.013	3.33
79	MP4B	X	55.792	2.33
80	MP4B	Z	0	2.33
81	MP4B	Mx	.014	2.33
82	MP4B	X	55.792	3.33
83	MP4B	Z	0	3.33
84	MP4B	Mx	.014	3.33
85	MP4C	X	55.792	2.33
86	MP4C	Z	0	2.33
87	MP4C	Mx	.014	2.33
88	MP4C	X	55.792	3.33
89	MP4C	Z	0	3.33
90	MP4C	Mx	.014	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	98.009	.33
2	MP1A	Z	56.585	.33
3	MP1A	Mx	-.065	.33
4	MP1A	X	98.009	4.17
5	MP1A	Z	56.585	4.17
6	MP1A	Mx	-.065	4.17
7	MP1B	X	162.949	.33
8	MP1B	Z	94.079	.33
9	MP1B	Mx	0	.33
10	MP1B	X	162.949	4.17
11	MP1B	Z	94.079	4.17
12	MP1B	Mx	0	4.17
13	MP1C	X	98.009	.33
14	MP1C	Z	56.585	.33
15	MP1C	Mx	.065	.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP1C	X	98.009	4.17
17	MP1C	Z	56.585	4.17
18	MP1C	Mx	.065	4.17
19	MP3A	X	98.009	.33
20	MP3A	Z	56.585	.33
21	MP3A	Mx	-.065	.33
22	MP3A	X	98.009	4.17
23	MP3A	Z	56.585	4.17
24	MP3A	Mx	-.065	4.17
25	MP3B	X	162.949	.33
26	MP3B	Z	94.079	.33
27	MP3B	Mx	0	.33
28	MP3B	X	162.949	4.17
29	MP3B	Z	94.079	4.17
30	MP3B	Mx	0	4.17
31	MP3C	X	98.009	.33
32	MP3C	Z	56.585	.33
33	MP3C	Mx	.065	.33
34	MP3C	X	98.009	4.17
35	MP3C	Z	56.585	4.17
36	MP3C	Mx	.065	4.17
37	MP3A	X	37.318	2.75
38	MP3A	Z	21.545	2.75
39	MP3A	Mx	.031	2.75
40	MP3B	X	49.668	2.75
41	MP3B	Z	28.676	2.75
42	MP3B	Mx	0	2.75
43	MP3C	X	37.318	2.75
44	MP3C	Z	21.545	2.75
45	MP3C	Mx	-.031	2.75
46	MP1A	X	32.586	2.75
47	MP1A	Z	18.814	2.75
48	MP1A	Mx	.024	2.75
49	MP1B	X	49.668	2.75
50	MP1B	Z	28.676	2.75
51	MP1B	Mx	0	2.75
52	MP1C	X	32.586	2.75
53	MP1C	Z	18.814	2.75
54	MP1C	Mx	-.024	2.75
55	MP2A	X	80.064	.17
56	MP2A	Z	46.225	.17
57	MP2A	Mx	-.053	.17
58	MP2A	X	80.064	4.5
59	MP2A	Z	46.225	4.5
60	MP2A	Mx	-.053	4.5
61	MP2B	X	107.438	.17
62	MP2B	Z	62.029	.17
63	MP2B	Mx	0	.17
64	MP2B	X	107.438	4.5
65	MP2B	Z	62.029	4.5
66	MP2B	Mx	0	4.5
67	MP2C	X	80.064	.17
68	MP2C	Z	46.225	.17
69	MP2C	Mx	.053	.17
70	MP2C	X	80.064	4.5
71	MP2C	Z	46.225	4.5
72	MP2C	Mx	.053	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP4A	X	30.741	2.33
74	MP4A	Z	17.748	2.33
75	MP4A	Mx	-.015	2.33
76	MP4A	X	30.741	3.33
77	MP4A	Z	17.748	3.33
78	MP4A	Mx	-.015	3.33
79	MP4B	X	57.105	2.33
80	MP4B	Z	32.97	2.33
81	MP4B	Mx	0	2.33
82	MP4B	X	57.105	3.33
83	MP4B	Z	32.97	3.33
84	MP4B	Mx	0	3.33
85	MP4C	X	30.741	2.33
86	MP4C	Z	17.748	2.33
87	MP4C	Mx	.015	2.33
88	MP4C	X	30.741	3.33
89	MP4C	Z	17.748	3.33
90	MP4C	Mx	.015	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	81.581	.33
2	MP1A	Z	141.302	.33
3	MP1A	Mx	-.054	.33
4	MP1A	X	81.581	4.17
5	MP1A	Z	141.302	4.17
6	MP1A	Mx	-.054	4.17
7	MP1B	X	81.581	.33
8	MP1B	Z	141.302	.33
9	MP1B	Mx	-.054	.33
10	MP1B	X	81.581	4.17
11	MP1B	Z	141.302	4.17
12	MP1B	Mx	-.054	4.17
13	MP1C	X	44.087	.33
14	MP1C	Z	76.362	.33
15	MP1C	Mx	.059	.33
16	MP1C	X	44.087	4.17
17	MP1C	Z	76.362	4.17
18	MP1C	Mx	.059	4.17
19	MP3A	X	81.581	.33
20	MP3A	Z	141.302	.33
21	MP3A	Mx	-.054	.33
22	MP3A	X	81.581	4.17
23	MP3A	Z	141.302	4.17
24	MP3A	Mx	-.054	4.17
25	MP3B	X	81.581	.33
26	MP3B	Z	141.302	.33
27	MP3B	Mx	-.054	.33
28	MP3B	X	81.581	4.17
29	MP3B	Z	141.302	4.17
30	MP3B	Mx	-.054	4.17
31	MP3C	X	44.087	.33
32	MP3C	Z	76.362	.33
33	MP3C	Mx	.059	.33
34	MP3C	X	44.087	4.17
35	MP3C	Z	76.362	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP3C	Mx	.059	4.17
37	MP3A	X	26.299	2.75
38	MP3A	Z	45.551	2.75
39	MP3A	Mx	.022	2.75
40	MP3B	X	26.299	2.75
41	MP3B	Z	45.551	2.75
42	MP3B	Mx	.022	2.75
43	MP3C	X	19.168	2.75
44	MP3C	Z	33.201	2.75
45	MP3C	Mx	-.032	2.75
46	MP1A	X	25.389	2.75
47	MP1A	Z	43.974	2.75
48	MP1A	Mx	.019	2.75
49	MP1B	X	25.389	2.75
50	MP1B	Z	43.974	2.75
51	MP1B	Mx	.019	2.75
52	MP1C	X	15.526	2.75
53	MP1C	Z	26.893	2.75
54	MP1C	Mx	-.023	2.75
55	MP2A	X	56.761	.17
56	MP2A	Z	98.313	.17
57	MP2A	Mx	-.038	.17
58	MP2A	X	56.761	4.5
59	MP2A	Z	98.313	4.5
60	MP2A	Mx	-.038	4.5
61	MP2B	X	56.761	.17
62	MP2B	Z	98.313	.17
63	MP2B	Mx	-.038	.17
64	MP2B	X	56.761	4.5
65	MP2B	Z	98.313	4.5
66	MP2B	Mx	-.038	4.5
67	MP2C	X	40.957	.17
68	MP2C	Z	70.939	.17
69	MP2C	Mx	.055	.17
70	MP2C	X	40.957	4.5
71	MP2C	Z	70.939	4.5
72	MP2C	Mx	.055	4.5
73	MP4A	X	27.896	2.33
74	MP4A	Z	48.317	2.33
75	MP4A	Mx	-.014	2.33
76	MP4A	X	27.896	3.33
77	MP4A	Z	48.317	3.33
78	MP4A	Mx	-.014	3.33
79	MP4B	X	27.896	2.33
80	MP4B	Z	48.317	2.33
81	MP4B	Mx	-.014	2.33
82	MP4B	X	27.896	3.33
83	MP4B	Z	48.317	3.33
84	MP4B	Mx	-.014	3.33
85	MP4C	X	12.675	2.33
86	MP4C	Z	21.953	2.33
87	MP4C	Mx	.013	2.33
88	MP4C	X	12.675	3.33
89	MP4C	Z	21.953	3.33
90	MP4C	Mx	.013	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.33
2	MP1A	Z	188.157	.33
3	MP1A	Mx	0	.33
4	MP1A	X	0	4.17
5	MP1A	Z	188.157	4.17
6	MP1A	Mx	0	4.17
7	MP1B	X	0	.33
8	MP1B	Z	113.17	.33
9	MP1B	Mx	-.065	.33
10	MP1B	X	0	4.17
11	MP1B	Z	113.17	4.17
12	MP1B	Mx	-.065	4.17
13	MP1C	X	0	.33
14	MP1C	Z	113.17	.33
15	MP1C	Mx	.065	.33
16	MP1C	X	0	4.17
17	MP1C	Z	113.17	4.17
18	MP1C	Mx	.065	4.17
19	MP3A	X	0	.33
20	MP3A	Z	188.157	.33
21	MP3A	Mx	0	.33
22	MP3A	X	0	4.17
23	MP3A	Z	188.157	4.17
24	MP3A	Mx	0	4.17
25	MP3B	X	0	.33
26	MP3B	Z	113.17	.33
27	MP3B	Mx	-.065	.33
28	MP3B	X	0	4.17
29	MP3B	Z	113.17	4.17
30	MP3B	Mx	-.065	4.17
31	MP3C	X	0	.33
32	MP3C	Z	113.17	.33
33	MP3C	Mx	.065	.33
34	MP3C	X	0	4.17
35	MP3C	Z	113.17	4.17
36	MP3C	Mx	.065	4.17
37	MP3A	X	0	2.75
38	MP3A	Z	57.352	2.75
39	MP3A	Mx	0	2.75
40	MP3B	X	0	2.75
41	MP3B	Z	43.091	2.75
42	MP3B	Mx	.031	2.75
43	MP3C	X	0	2.75
44	MP3C	Z	43.091	2.75
45	MP3C	Mx	-.031	2.75
46	MP1A	X	0	2.75
47	MP1A	Z	57.352	2.75
48	MP1A	Mx	0	2.75
49	MP1B	X	0	2.75
50	MP1B	Z	37.628	2.75
51	MP1B	Mx	.024	2.75
52	MP1C	X	0	2.75
53	MP1C	Z	37.628	2.75
54	MP1C	Mx	-.024	2.75
55	MP2A	X	0	.17
56	MP2A	Z	124.058	.17
57	MP2A	Mx	0	.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2A	X	0	4.5
59	MP2A	Z	124.058	4.5
60	MP2A	Mx	0	4.5
61	MP2B	X	0	.17
62	MP2B	Z	92.449	.17
63	MP2B	Mx	-.053	.17
64	MP2B	X	0	4.5
65	MP2B	Z	92.449	4.5
66	MP2B	Mx	-.053	4.5
67	MP2C	X	0	.17
68	MP2C	Z	92.449	.17
69	MP2C	Mx	.053	.17
70	MP2C	X	0	4.5
71	MP2C	Z	92.449	4.5
72	MP2C	Mx	.053	4.5
73	MP4A	X	0	2.33
74	MP4A	Z	65.939	2.33
75	MP4A	Mx	0	2.33
76	MP4A	X	0	3.33
77	MP4A	Z	65.939	3.33
78	MP4A	Mx	0	3.33
79	MP4B	X	0	2.33
80	MP4B	Z	35.497	2.33
81	MP4B	Mx	-.015	2.33
82	MP4B	X	0	3.33
83	MP4B	Z	35.497	3.33
84	MP4B	Mx	-.015	3.33
85	MP4C	X	0	2.33
86	MP4C	Z	35.497	2.33
87	MP4C	Mx	.015	2.33
88	MP4C	X	0	3.33
89	MP4C	Z	35.497	3.33
90	MP4C	Mx	.015	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-81.581	.33
2	MP1A	Z	141.302	.33
3	MP1A	Mx	.054	.33
4	MP1A	X	-81.581	4.17
5	MP1A	Z	141.302	4.17
6	MP1A	Mx	.054	4.17
7	MP1B	X	-44.087	.33
8	MP1B	Z	76.362	.33
9	MP1B	Mx	-.059	.33
10	MP1B	X	-44.087	4.17
11	MP1B	Z	76.362	4.17
12	MP1B	Mx	-.059	4.17
13	MP1C	X	-81.581	.33
14	MP1C	Z	141.302	.33
15	MP1C	Mx	.054	.33
16	MP1C	X	-81.581	4.17
17	MP1C	Z	141.302	4.17
18	MP1C	Mx	.054	4.17
19	MP3A	X	-81.581	.33
20	MP3A	Z	141.302	.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP3A	Mx	.054	.33
22	MP3A	X	-81.581	4.17
23	MP3A	Z	141.302	4.17
24	MP3A	Mx	.054	4.17
25	MP3B	X	-44.087	.33
26	MP3B	Z	76.362	.33
27	MP3B	Mx	-.059	.33
28	MP3B	X	-44.087	4.17
29	MP3B	Z	76.362	4.17
30	MP3B	Mx	-.059	4.17
31	MP3C	X	-81.581	.33
32	MP3C	Z	141.302	.33
33	MP3C	Mx	.054	.33
34	MP3C	X	-81.581	4.17
35	MP3C	Z	141.302	4.17
36	MP3C	Mx	.054	4.17
37	MP3A	X	-26.299	2.75
38	MP3A	Z	45.551	2.75
39	MP3A	Mx	-.022	2.75
40	MP3B	X	-19.168	2.75
41	MP3B	Z	33.201	2.75
42	MP3B	Mx	.032	2.75
43	MP3C	X	-26.299	2.75
44	MP3C	Z	45.551	2.75
45	MP3C	Mx	-.022	2.75
46	MP1A	X	-25.389	2.75
47	MP1A	Z	43.974	2.75
48	MP1A	Mx	-.019	2.75
49	MP1B	X	-15.526	2.75
50	MP1B	Z	26.893	2.75
51	MP1B	Mx	.023	2.75
52	MP1C	X	-25.389	2.75
53	MP1C	Z	43.974	2.75
54	MP1C	Mx	-.019	2.75
55	MP2A	X	-56.761	.17
56	MP2A	Z	98.313	.17
57	MP2A	Mx	.038	.17
58	MP2A	X	-56.761	4.5
59	MP2A	Z	98.313	4.5
60	MP2A	Mx	.038	4.5
61	MP2B	X	-40.957	.17
62	MP2B	Z	70.939	.17
63	MP2B	Mx	-.055	.17
64	MP2B	X	-40.957	4.5
65	MP2B	Z	70.939	4.5
66	MP2B	Mx	-.055	4.5
67	MP2C	X	-56.761	.17
68	MP2C	Z	98.313	.17
69	MP2C	Mx	.038	.17
70	MP2C	X	-56.761	4.5
71	MP2C	Z	98.313	4.5
72	MP2C	Mx	.038	4.5
73	MP4A	X	-27.896	2.33
74	MP4A	Z	48.317	2.33
75	MP4A	Mx	.014	2.33
76	MP4A	X	-27.896	3.33
77	MP4A	Z	48.317	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP4A	Mx	.014	3.33
79	MP4B	X	-12.675	2.33
80	MP4B	Z	21.953	2.33
81	MP4B	Mx	-.013	2.33
82	MP4B	X	-12.675	3.33
83	MP4B	Z	21.953	3.33
84	MP4B	Mx	-.013	3.33
85	MP4C	X	-27.896	2.33
86	MP4C	Z	48.317	2.33
87	MP4C	Mx	.014	2.33
88	MP4C	X	-27.896	3.33
89	MP4C	Z	48.317	3.33
90	MP4C	Mx	.014	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-98.009	.33
2	MP1A	Z	56.585	.33
3	MP1A	Mx	.065	.33
4	MP1A	X	-98.009	4.17
5	MP1A	Z	56.585	4.17
6	MP1A	Mx	.065	4.17
7	MP1B	X	-98.009	.33
8	MP1B	Z	56.585	.33
9	MP1B	Mx	-.065	.33
10	MP1B	X	-98.009	4.17
11	MP1B	Z	56.585	4.17
12	MP1B	Mx	-.065	4.17
13	MP1C	X	-162.949	.33
14	MP1C	Z	94.079	.33
15	MP1C	Mx	0	.33
16	MP1C	X	-162.949	4.17
17	MP1C	Z	94.079	4.17
18	MP1C	Mx	0	4.17
19	MP3A	X	-98.009	.33
20	MP3A	Z	56.585	.33
21	MP3A	Mx	.065	.33
22	MP3A	X	-98.009	4.17
23	MP3A	Z	56.585	4.17
24	MP3A	Mx	.065	4.17
25	MP3B	X	-98.009	.33
26	MP3B	Z	56.585	.33
27	MP3B	Mx	-.065	.33
28	MP3B	X	-98.009	4.17
29	MP3B	Z	56.585	4.17
30	MP3B	Mx	-.065	4.17
31	MP3C	X	-162.949	.33
32	MP3C	Z	94.079	.33
33	MP3C	Mx	0	.33
34	MP3C	X	-162.949	4.17
35	MP3C	Z	94.079	4.17
36	MP3C	Mx	0	4.17
37	MP3A	X	-37.318	2.75
38	MP3A	Z	21.545	2.75
39	MP3A	Mx	-.031	2.75
40	MP3B	X	-37.318	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP3B	Z	21.545	2.75
42	MP3B	Mx	.031	2.75
43	MP3C	X	-49.668	2.75
44	MP3C	Z	28.676	2.75
45	MP3C	Mx	0	2.75
46	MP1A	X	-32.586	2.75
47	MP1A	Z	18.814	2.75
48	MP1A	Mx	-.024	2.75
49	MP1B	X	-32.586	2.75
50	MP1B	Z	18.814	2.75
51	MP1B	Mx	.024	2.75
52	MP1C	X	-49.668	2.75
53	MP1C	Z	28.676	2.75
54	MP1C	Mx	0	2.75
55	MP2A	X	-80.064	.17
56	MP2A	Z	46.225	.17
57	MP2A	Mx	.053	.17
58	MP2A	X	-80.064	4.5
59	MP2A	Z	46.225	4.5
60	MP2A	Mx	.053	4.5
61	MP2B	X	-80.064	.17
62	MP2B	Z	46.225	.17
63	MP2B	Mx	-.053	.17
64	MP2B	X	-80.064	4.5
65	MP2B	Z	46.225	4.5
66	MP2B	Mx	-.053	4.5
67	MP2C	X	-107.438	.17
68	MP2C	Z	62.029	.17
69	MP2C	Mx	0	.17
70	MP2C	X	-107.438	4.5
71	MP2C	Z	62.029	4.5
72	MP2C	Mx	0	4.5
73	MP4A	X	-30.741	2.33
74	MP4A	Z	17.748	2.33
75	MP4A	Mx	.015	2.33
76	MP4A	X	-30.741	3.33
77	MP4A	Z	17.748	3.33
78	MP4A	Mx	.015	3.33
79	MP4B	X	-30.741	2.33
80	MP4B	Z	17.748	2.33
81	MP4B	Mx	-.015	2.33
82	MP4B	X	-30.741	3.33
83	MP4B	Z	17.748	3.33
84	MP4B	Mx	-.015	3.33
85	MP4C	X	-57.105	2.33
86	MP4C	Z	32.97	2.33
87	MP4C	Mx	0	2.33
88	MP4C	X	-57.105	3.33
89	MP4C	Z	32.97	3.33
90	MP4C	Mx	0	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-88.175	.33
2	MP1A	Z	0	.33
3	MP1A	Mx	.059	.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP1A	X	-88.175	4.17
5	MP1A	Z	0	4.17
6	MP1A	Mx	.059	4.17
7	MP1B	X	-163.162	.33
8	MP1B	Z	0	.33
9	MP1B	Mx	-.054	.33
10	MP1B	X	-163.162	4.17
11	MP1B	Z	0	4.17
12	MP1B	Mx	-.054	4.17
13	MP1C	X	-163.162	.33
14	MP1C	Z	0	.33
15	MP1C	Mx	-.054	.33
16	MP1C	X	-163.162	4.17
17	MP1C	Z	0	4.17
18	MP1C	Mx	-.054	4.17
19	MP3A	X	-88.175	.33
20	MP3A	Z	0	.33
21	MP3A	Mx	.059	.33
22	MP3A	X	-88.175	4.17
23	MP3A	Z	0	4.17
24	MP3A	Mx	.059	4.17
25	MP3B	X	-163.162	.33
26	MP3B	Z	0	.33
27	MP3B	Mx	-.054	.33
28	MP3B	X	-163.162	4.17
29	MP3B	Z	0	4.17
30	MP3B	Mx	-.054	4.17
31	MP3C	X	-163.162	.33
32	MP3C	Z	0	.33
33	MP3C	Mx	-.054	.33
34	MP3C	X	-163.162	4.17
35	MP3C	Z	0	4.17
36	MP3C	Mx	-.054	4.17
37	MP3A	X	-38.337	2.75
38	MP3A	Z	0	2.75
39	MP3A	Mx	-.032	2.75
40	MP3B	X	-52.598	2.75
41	MP3B	Z	0	2.75
42	MP3B	Mx	.022	2.75
43	MP3C	X	-52.598	2.75
44	MP3C	Z	0	2.75
45	MP3C	Mx	.022	2.75
46	MP1A	X	-31.053	2.75
47	MP1A	Z	0	2.75
48	MP1A	Mx	-.023	2.75
49	MP1B	X	-50.777	2.75
50	MP1B	Z	0	2.75
51	MP1B	Mx	.019	2.75
52	MP1C	X	-50.777	2.75
53	MP1C	Z	0	2.75
54	MP1C	Mx	.019	2.75
55	MP2A	X	-81.913	.17
56	MP2A	Z	0	.17
57	MP2A	Mx	.055	.17
58	MP2A	X	-81.913	4.5
59	MP2A	Z	0	4.5
60	MP2A	Mx	.055	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
61	MP2B	X	-113.522	.17
62	MP2B	Z	0	.17
63	MP2B	Mx	-.038	.17
64	MP2B	X	-113.522	4.5
65	MP2B	Z	0	4.5
66	MP2B	Mx	-.038	4.5
67	MP2C	X	-113.522	.17
68	MP2C	Z	0	.17
69	MP2C	Mx	-.038	.17
70	MP2C	X	-113.522	4.5
71	MP2C	Z	0	4.5
72	MP2C	Mx	-.038	4.5
73	MP4A	X	-25.349	2.33
74	MP4A	Z	0	2.33
75	MP4A	Mx	.013	2.33
76	MP4A	X	-25.349	3.33
77	MP4A	Z	0	3.33
78	MP4A	Mx	.013	3.33
79	MP4B	X	-55.792	2.33
80	MP4B	Z	0	2.33
81	MP4B	Mx	-.014	2.33
82	MP4B	X	-55.792	3.33
83	MP4B	Z	0	3.33
84	MP4B	Mx	-.014	3.33
85	MP4C	X	-55.792	2.33
86	MP4C	Z	0	2.33
87	MP4C	Mx	-.014	2.33
88	MP4C	X	-55.792	3.33
89	MP4C	Z	0	3.33
90	MP4C	Mx	-.014	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-98.009	.33
2	MP1A	Z	-56.585	.33
3	MP1A	Mx	.065	.33
4	MP1A	X	-98.009	4.17
5	MP1A	Z	-56.585	4.17
6	MP1A	Mx	.065	4.17
7	MP1B	X	-162.949	.33
8	MP1B	Z	-94.079	.33
9	MP1B	Mx	0	.33
10	MP1B	X	-162.949	4.17
11	MP1B	Z	-94.079	4.17
12	MP1B	Mx	0	4.17
13	MP1C	X	-98.009	.33
14	MP1C	Z	-56.585	.33
15	MP1C	Mx	-.065	.33
16	MP1C	X	-98.009	4.17
17	MP1C	Z	-56.585	4.17
18	MP1C	Mx	-.065	4.17
19	MP3A	X	-98.009	.33
20	MP3A	Z	-56.585	.33
21	MP3A	Mx	.065	.33
22	MP3A	X	-98.009	4.17
23	MP3A	Z	-56.585	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
24	MP3A	Mx	.065	4.17
25	MP3B	X	-162.949	.33
26	MP3B	Z	-94.079	.33
27	MP3B	Mx	0	.33
28	MP3B	X	-162.949	4.17
29	MP3B	Z	-94.079	4.17
30	MP3B	Mx	0	4.17
31	MP3C	X	-98.009	.33
32	MP3C	Z	-56.585	.33
33	MP3C	Mx	-.065	.33
34	MP3C	X	-98.009	4.17
35	MP3C	Z	-56.585	4.17
36	MP3C	Mx	-.065	4.17
37	MP3A	X	-37.318	2.75
38	MP3A	Z	-21.545	2.75
39	MP3A	Mx	-.031	2.75
40	MP3B	X	-49.668	2.75
41	MP3B	Z	-28.676	2.75
42	MP3B	Mx	0	2.75
43	MP3C	X	-37.318	2.75
44	MP3C	Z	-21.545	2.75
45	MP3C	Mx	.031	2.75
46	MP1A	X	-32.586	2.75
47	MP1A	Z	-18.814	2.75
48	MP1A	Mx	-.024	2.75
49	MP1B	X	-49.668	2.75
50	MP1B	Z	-28.676	2.75
51	MP1B	Mx	0	2.75
52	MP1C	X	-32.586	2.75
53	MP1C	Z	-18.814	2.75
54	MP1C	Mx	.024	2.75
55	MP2A	X	-80.064	.17
56	MP2A	Z	-46.225	.17
57	MP2A	Mx	.053	.17
58	MP2A	X	-80.064	4.5
59	MP2A	Z	-46.225	4.5
60	MP2A	Mx	.053	4.5
61	MP2B	X	-107.438	.17
62	MP2B	Z	-62.029	.17
63	MP2B	Mx	0	.17
64	MP2B	X	-107.438	4.5
65	MP2B	Z	-62.029	4.5
66	MP2B	Mx	0	4.5
67	MP2C	X	-80.064	.17
68	MP2C	Z	-46.225	.17
69	MP2C	Mx	-.053	.17
70	MP2C	X	-80.064	4.5
71	MP2C	Z	-46.225	4.5
72	MP2C	Mx	-.053	4.5
73	MP4A	X	-30.741	2.33
74	MP4A	Z	-17.748	2.33
75	MP4A	Mx	.015	2.33
76	MP4A	X	-30.741	3.33
77	MP4A	Z	-17.748	3.33
78	MP4A	Mx	.015	3.33
79	MP4B	X	-57.105	2.33
80	MP4B	Z	-32.97	2.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
81	MP4B	Mx	0	2.33
82	MP4B	X	-57.105	3.33
83	MP4B	Z	-32.97	3.33
84	MP4B	Mx	0	3.33
85	MP4C	X	-30.741	2.33
86	MP4C	Z	-17.748	2.33
87	MP4C	Mx	-.015	2.33
88	MP4C	X	-30.741	3.33
89	MP4C	Z	-17.748	3.33
90	MP4C	Mx	-.015	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-81.581	.33
2	MP1A	Z	-141.302	.33
3	MP1A	Mx	.054	.33
4	MP1A	X	-81.581	4.17
5	MP1A	Z	-141.302	4.17
6	MP1A	Mx	.054	4.17
7	MP1B	X	-81.581	.33
8	MP1B	Z	-141.302	.33
9	MP1B	Mx	.054	.33
10	MP1B	X	-81.581	4.17
11	MP1B	Z	-141.302	4.17
12	MP1B	Mx	.054	4.17
13	MP1C	X	-44.087	.33
14	MP1C	Z	-76.362	.33
15	MP1C	Mx	-.059	.33
16	MP1C	X	-44.087	4.17
17	MP1C	Z	-76.362	4.17
18	MP1C	Mx	-.059	4.17
19	MP3A	X	-81.581	.33
20	MP3A	Z	-141.302	.33
21	MP3A	Mx	.054	.33
22	MP3A	X	-81.581	4.17
23	MP3A	Z	-141.302	4.17
24	MP3A	Mx	.054	4.17
25	MP3B	X	-81.581	.33
26	MP3B	Z	-141.302	.33
27	MP3B	Mx	.054	.33
28	MP3B	X	-81.581	4.17
29	MP3B	Z	-141.302	4.17
30	MP3B	Mx	.054	4.17
31	MP3C	X	-44.087	.33
32	MP3C	Z	-76.362	.33
33	MP3C	Mx	-.059	.33
34	MP3C	X	-44.087	4.17
35	MP3C	Z	-76.362	4.17
36	MP3C	Mx	-.059	4.17
37	MP3A	X	-26.299	2.75
38	MP3A	Z	-45.551	2.75
39	MP3A	Mx	-.022	2.75
40	MP3B	X	-26.299	2.75
41	MP3B	Z	-45.551	2.75
42	MP3B	Mx	-.022	2.75
43	MP3C	X	-19.168	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP3C	Z	-33.201	2.75
45	MP3C	Mx	.032	2.75
46	MP1A	X	-25.389	2.75
47	MP1A	Z	-43.974	2.75
48	MP1A	Mx	-.019	2.75
49	MP1B	X	-25.389	2.75
50	MP1B	Z	-43.974	2.75
51	MP1B	Mx	-.019	2.75
52	MP1C	X	-15.526	2.75
53	MP1C	Z	-26.893	2.75
54	MP1C	Mx	.023	2.75
55	MP2A	X	-56.761	.17
56	MP2A	Z	-98.313	.17
57	MP2A	Mx	.038	.17
58	MP2A	X	-56.761	4.5
59	MP2A	Z	-98.313	4.5
60	MP2A	Mx	.038	4.5
61	MP2B	X	-56.761	.17
62	MP2B	Z	-98.313	.17
63	MP2B	Mx	.038	.17
64	MP2B	X	-56.761	4.5
65	MP2B	Z	-98.313	4.5
66	MP2B	Mx	.038	4.5
67	MP2C	X	-40.957	.17
68	MP2C	Z	-70.939	.17
69	MP2C	Mx	-.055	.17
70	MP2C	X	-40.957	4.5
71	MP2C	Z	-70.939	4.5
72	MP2C	Mx	-.055	4.5
73	MP4A	X	-27.896	2.33
74	MP4A	Z	-48.317	2.33
75	MP4A	Mx	.014	2.33
76	MP4A	X	-27.896	3.33
77	MP4A	Z	-48.317	3.33
78	MP4A	Mx	.014	3.33
79	MP4B	X	-27.896	2.33
80	MP4B	Z	-48.317	2.33
81	MP4B	Mx	.014	2.33
82	MP4B	X	-27.896	3.33
83	MP4B	Z	-48.317	3.33
84	MP4B	Mx	.014	3.33
85	MP4C	X	-12.675	2.33
86	MP4C	Z	-21.953	2.33
87	MP4C	Mx	-.013	2.33
88	MP4C	X	-12.675	3.33
89	MP4C	Z	-21.953	3.33
90	MP4C	Mx	-.013	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.33
2	MP1A	Z	-37.724	.33
3	MP1A	Mx	0	.33
4	MP1A	X	0	4.17
5	MP1A	Z	-37.724	4.17
6	MP1A	Mx	0	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP1B	X	0	.33
8	MP1B	Z	-23.82	.33
9	MP1B	Mx	.014	.33
10	MP1B	X	0	4.17
11	MP1B	Z	-23.82	4.17
12	MP1B	Mx	.014	4.17
13	MP1C	X	0	.33
14	MP1C	Z	-23.82	.33
15	MP1C	Mx	-.014	.33
16	MP1C	X	0	4.17
17	MP1C	Z	-23.82	4.17
18	MP1C	Mx	-.014	4.17
19	MP3A	X	0	.33
20	MP3A	Z	-37.724	.33
21	MP3A	Mx	0	.33
22	MP3A	X	0	4.17
23	MP3A	Z	-37.724	4.17
24	MP3A	Mx	0	4.17
25	MP3B	X	0	.33
26	MP3B	Z	-23.82	.33
27	MP3B	Mx	.014	.33
28	MP3B	X	0	4.17
29	MP3B	Z	-23.82	4.17
30	MP3B	Mx	.014	4.17
31	MP3C	X	0	.33
32	MP3C	Z	-23.82	.33
33	MP3C	Mx	-.014	.33
34	MP3C	X	0	4.17
35	MP3C	Z	-23.82	4.17
36	MP3C	Mx	-.014	4.17
37	MP3A	X	0	2.75
38	MP3A	Z	-13.35	2.75
39	MP3A	Mx	0	2.75
40	MP3B	X	0	2.75
41	MP3B	Z	-10.429	2.75
42	MP3B	Mx	-.008	2.75
43	MP3C	X	0	2.75
44	MP3C	Z	-10.429	2.75
45	MP3C	Mx	.008	2.75
46	MP1A	X	0	2.75
47	MP1A	Z	-13.35	2.75
48	MP1A	Mx	0	2.75
49	MP1B	X	0	2.75
50	MP1B	Z	-9.319	2.75
51	MP1B	Mx	-.006	2.75
52	MP1C	X	0	2.75
53	MP1C	Z	-9.319	2.75
54	MP1C	Mx	.006	2.75
55	MP2A	X	0	.17
56	MP2A	Z	-25.689	.17
57	MP2A	Mx	0	.17
58	MP2A	X	0	4.5
59	MP2A	Z	-25.689	4.5
60	MP2A	Mx	0	4.5
61	MP2B	X	0	.17
62	MP2B	Z	-19.952	.17
63	MP2B	Mx	.012	.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
64	MP2B	X	0	4.5
65	MP2B	Z	-19.952	4.5
66	MP2B	Mx	.012	4.5
67	MP2C	X	0	.17
68	MP2C	Z	-19.952	.17
69	MP2C	Mx	-.012	.17
70	MP2C	X	0	4.5
71	MP2C	Z	-19.952	4.5
72	MP2C	Mx	-.012	4.5
73	MP4A	X	0	2.33
74	MP4A	Z	-14.195	2.33
75	MP4A	Mx	0	2.33
76	MP4A	X	0	3.33
77	MP4A	Z	-14.195	3.33
78	MP4A	Mx	0	3.33
79	MP4B	X	0	2.33
80	MP4B	Z	-8.214	2.33
81	MP4B	Mx	.004	2.33
82	MP4B	X	0	3.33
83	MP4B	Z	-8.214	3.33
84	MP4B	Mx	.004	3.33
85	MP4C	X	0	2.33
86	MP4C	Z	-8.214	2.33
87	MP4C	Mx	-.004	2.33
88	MP4C	X	0	3.33
89	MP4C	Z	-8.214	3.33
90	MP4C	Mx	-.004	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	16.545	.33
2	MP1A	Z	-28.656	.33
3	MP1A	Mx	-.011	.33
4	MP1A	X	16.545	4.17
5	MP1A	Z	-28.656	4.17
6	MP1A	Mx	-.011	4.17
7	MP1B	X	9.593	.33
8	MP1B	Z	-16.615	.33
9	MP1B	Mx	.013	.33
10	MP1B	X	9.593	4.17
11	MP1B	Z	-16.615	4.17
12	MP1B	Mx	.013	4.17
13	MP1C	X	16.545	.33
14	MP1C	Z	-28.656	.33
15	MP1C	Mx	-.011	.33
16	MP1C	X	16.545	4.17
17	MP1C	Z	-28.656	4.17
18	MP1C	Mx	-.011	4.17
19	MP3A	X	16.545	.33
20	MP3A	Z	-28.656	.33
21	MP3A	Mx	-.011	.33
22	MP3A	X	16.545	4.17
23	MP3A	Z	-28.656	4.17
24	MP3A	Mx	-.011	4.17
25	MP3B	X	9.593	.33
26	MP3B	Z	-16.615	.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP3B	Mx	.013	.33
28	MP3B	X	9.593	4.17
29	MP3B	Z	-16.615	4.17
30	MP3B	Mx	.013	4.17
31	MP3C	X	16.545	.33
32	MP3C	Z	-28.656	.33
33	MP3C	Mx	-.011	.33
34	MP3C	X	16.545	4.17
35	MP3C	Z	-28.656	4.17
36	MP3C	Mx	-.011	4.17
37	MP3A	X	6.188	2.75
38	MP3A	Z	-10.718	2.75
39	MP3A	Mx	.005	2.75
40	MP3B	X	4.728	2.75
41	MP3B	Z	-8.189	2.75
42	MP3B	Mx	-.008	2.75
43	MP3C	X	6.188	2.75
44	MP3C	Z	-10.718	2.75
45	MP3C	Mx	.005	2.75
46	MP1A	X	6.003	2.75
47	MP1A	Z	-10.398	2.75
48	MP1A	Mx	.005	2.75
49	MP1B	X	3.988	2.75
50	MP1B	Z	-6.907	2.75
51	MP1B	Mx	-.006	2.75
52	MP1C	X	6.003	2.75
53	MP1C	Z	-10.398	2.75
54	MP1C	Mx	.005	2.75
55	MP2A	X	11.888	.17
56	MP2A	Z	-20.591	.17
57	MP2A	Mx	-.008	.17
58	MP2A	X	11.888	4.5
59	MP2A	Z	-20.591	4.5
60	MP2A	Mx	-.008	4.5
61	MP2B	X	9.02	.17
62	MP2B	Z	-15.623	.17
63	MP2B	Mx	.012	.17
64	MP2B	X	9.02	4.5
65	MP2B	Z	-15.623	4.5
66	MP2B	Mx	.012	4.5
67	MP2C	X	11.888	.17
68	MP2C	Z	-20.591	.17
69	MP2C	Mx	-.008	.17
70	MP2C	X	11.888	4.5
71	MP2C	Z	-20.591	4.5
72	MP2C	Mx	-.008	4.5
73	MP4A	X	6.101	2.33
74	MP4A	Z	-10.567	2.33
75	MP4A	Mx	-.003	2.33
76	MP4A	X	6.101	3.33
77	MP4A	Z	-10.567	3.33
78	MP4A	Mx	-.003	3.33
79	MP4B	X	3.11	2.33
80	MP4B	Z	-5.387	2.33
81	MP4B	Mx	.003	2.33
82	MP4B	X	3.11	3.33
83	MP4B	Z	-5.387	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
84	MP4B	Mx	.003	3.33
85	MP4C	X	6.101	2.33
86	MP4C	Z	-10.567	2.33
87	MP4C	Mx	-.003	2.33
88	MP4C	X	6.101	3.33
89	MP4C	Z	-10.567	3.33
90	MP4C	Mx	-.003	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	20.629	.33
2	MP1A	Z	-11.91	.33
3	MP1A	Mx	-.014	.33
4	MP1A	X	20.629	4.17
5	MP1A	Z	-11.91	4.17
6	MP1A	Mx	-.014	4.17
7	MP1B	X	20.629	.33
8	MP1B	Z	-11.91	.33
9	MP1B	Mx	.014	.33
10	MP1B	X	20.629	4.17
11	MP1B	Z	-11.91	4.17
12	MP1B	Mx	.014	4.17
13	MP1C	X	32.67	.33
14	MP1C	Z	-18.862	.33
15	MP1C	Mx	0	.33
16	MP1C	X	32.67	4.17
17	MP1C	Z	-18.862	4.17
18	MP1C	Mx	0	4.17
19	MP3A	X	20.629	.33
20	MP3A	Z	-11.91	.33
21	MP3A	Mx	-.014	.33
22	MP3A	X	20.629	4.17
23	MP3A	Z	-11.91	4.17
24	MP3A	Mx	-.014	4.17
25	MP3B	X	20.629	.33
26	MP3B	Z	-11.91	.33
27	MP3B	Mx	.014	.33
28	MP3B	X	20.629	4.17
29	MP3B	Z	-11.91	4.17
30	MP3B	Mx	.014	4.17
31	MP3C	X	32.67	.33
32	MP3C	Z	-18.862	.33
33	MP3C	Mx	0	.33
34	MP3C	X	32.67	4.17
35	MP3C	Z	-18.862	4.17
36	MP3C	Mx	0	4.17
37	MP3A	X	9.032	2.75
38	MP3A	Z	-5.215	2.75
39	MP3A	Mx	.008	2.75
40	MP3B	X	9.032	2.75
41	MP3B	Z	-5.215	2.75
42	MP3B	Mx	-.008	2.75
43	MP3C	X	11.562	2.75
44	MP3C	Z	-6.675	2.75
45	MP3C	Mx	0	2.75
46	MP1A	X	8.071	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
47	MP1A	Z	-4.66	2.75
48	MP1A	Mx	.006	2.75
49	MP1B	X	8.071	2.75
50	MP1B	Z	-4.66	2.75
51	MP1B	Mx	-.006	2.75
52	MP1C	X	11.562	2.75
53	MP1C	Z	-6.675	2.75
54	MP1C	Mx	0	2.75
55	MP2A	X	17.279	.17
56	MP2A	Z	-9.976	.17
57	MP2A	Mx	-.012	.17
58	MP2A	X	17.279	4.5
59	MP2A	Z	-9.976	4.5
60	MP2A	Mx	-.012	4.5
61	MP2B	X	17.279	.17
62	MP2B	Z	-9.976	.17
63	MP2B	Mx	.012	.17
64	MP2B	X	17.279	4.5
65	MP2B	Z	-9.976	4.5
66	MP2B	Mx	.012	4.5
67	MP2C	X	22.248	.17
68	MP2C	Z	-12.845	.17
69	MP2C	Mx	0	.17
70	MP2C	X	22.248	4.5
71	MP2C	Z	-12.845	4.5
72	MP2C	Mx	0	4.5
73	MP4A	X	7.113	2.33
74	MP4A	Z	-4.107	2.33
75	MP4A	Mx	-.004	2.33
76	MP4A	X	7.113	3.33
77	MP4A	Z	-4.107	3.33
78	MP4A	Mx	-.004	3.33
79	MP4B	X	7.113	2.33
80	MP4B	Z	-4.107	2.33
81	MP4B	Mx	.004	2.33
82	MP4B	X	7.113	3.33
83	MP4B	Z	-4.107	3.33
84	MP4B	Mx	.004	3.33
85	MP4C	X	12.293	2.33
86	MP4C	Z	-7.098	2.33
87	MP4C	Mx	0	2.33
88	MP4C	X	12.293	3.33
89	MP4C	Z	-7.098	3.33
90	MP4C	Mx	0	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	19.185	.33
2	MP1A	Z	0	.33
3	MP1A	Mx	-.013	.33
4	MP1A	X	19.185	4.17
5	MP1A	Z	0	4.17
6	MP1A	Mx	-.013	4.17
7	MP1B	X	33.089	.33
8	MP1B	Z	0	.33
9	MP1B	Mx	.011	.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP1B	X	33.089	4.17
11	MP1B	Z	0	4.17
12	MP1B	Mx	.011	4.17
13	MP1C	X	33.089	.33
14	MP1C	Z	0	.33
15	MP1C	Mx	.011	.33
16	MP1C	X	33.089	4.17
17	MP1C	Z	0	4.17
18	MP1C	Mx	.011	4.17
19	MP3A	X	19.185	.33
20	MP3A	Z	0	.33
21	MP3A	Mx	-.013	.33
22	MP3A	X	19.185	4.17
23	MP3A	Z	0	4.17
24	MP3A	Mx	-.013	4.17
25	MP3B	X	33.089	.33
26	MP3B	Z	0	.33
27	MP3B	Mx	.011	.33
28	MP3B	X	33.089	4.17
29	MP3B	Z	0	4.17
30	MP3B	Mx	.011	4.17
31	MP3C	X	33.089	.33
32	MP3C	Z	0	.33
33	MP3C	Mx	.011	.33
34	MP3C	X	33.089	4.17
35	MP3C	Z	0	4.17
36	MP3C	Mx	.011	4.17
37	MP3A	X	9.456	2.75
38	MP3A	Z	0	2.75
39	MP3A	Mx	.008	2.75
40	MP3B	X	12.377	2.75
41	MP3B	Z	0	2.75
42	MP3B	Mx	-.005	2.75
43	MP3C	X	12.377	2.75
44	MP3C	Z	0	2.75
45	MP3C	Mx	-.005	2.75
46	MP1A	X	7.976	2.75
47	MP1A	Z	0	2.75
48	MP1A	Mx	.006	2.75
49	MP1B	X	12.007	2.75
50	MP1B	Z	0	2.75
51	MP1B	Mx	-.005	2.75
52	MP1C	X	12.007	2.75
53	MP1C	Z	0	2.75
54	MP1C	Mx	-.005	2.75
55	MP2A	X	18.039	.17
56	MP2A	Z	0	.17
57	MP2A	Mx	-.012	.17
58	MP2A	X	18.039	4.5
59	MP2A	Z	0	4.5
60	MP2A	Mx	-.012	4.5
61	MP2B	X	23.777	.17
62	MP2B	Z	0	.17
63	MP2B	Mx	.008	.17
64	MP2B	X	23.777	4.5
65	MP2B	Z	0	4.5
66	MP2B	Mx	.008	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
67	MP2C	X	23.777	.17
68	MP2C	Z	0	.17
69	MP2C	Mx	.008	.17
70	MP2C	X	23.777	4.5
71	MP2C	Z	0	4.5
72	MP2C	Mx	.008	4.5
73	MP4A	X	6.22	2.33
74	MP4A	Z	0	2.33
75	MP4A	Mx	-.003	2.33
76	MP4A	X	6.22	3.33
77	MP4A	Z	0	3.33
78	MP4A	Mx	-.003	3.33
79	MP4B	X	12.201	2.33
80	MP4B	Z	0	2.33
81	MP4B	Mx	.003	2.33
82	MP4B	X	12.201	3.33
83	MP4B	Z	0	3.33
84	MP4B	Mx	.003	3.33
85	MP4C	X	12.201	2.33
86	MP4C	Z	0	2.33
87	MP4C	Mx	.003	2.33
88	MP4C	X	12.201	3.33
89	MP4C	Z	0	3.33
90	MP4C	Mx	.003	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	20.629	.33
2	MP1A	Z	11.91	.33
3	MP1A	Mx	-.014	.33
4	MP1A	X	20.629	4.17
5	MP1A	Z	11.91	4.17
6	MP1A	Mx	-.014	4.17
7	MP1B	X	32.67	.33
8	MP1B	Z	18.862	.33
9	MP1B	Mx	0	.33
10	MP1B	X	32.67	4.17
11	MP1B	Z	18.862	4.17
12	MP1B	Mx	0	4.17
13	MP1C	X	20.629	.33
14	MP1C	Z	11.91	.33
15	MP1C	Mx	.014	.33
16	MP1C	X	20.629	4.17
17	MP1C	Z	11.91	4.17
18	MP1C	Mx	.014	4.17
19	MP3A	X	20.629	.33
20	MP3A	Z	11.91	.33
21	MP3A	Mx	-.014	.33
22	MP3A	X	20.629	4.17
23	MP3A	Z	11.91	4.17
24	MP3A	Mx	-.014	4.17
25	MP3B	X	32.67	.33
26	MP3B	Z	18.862	.33
27	MP3B	Mx	0	.33
28	MP3B	X	32.67	4.17
29	MP3B	Z	18.862	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP3B	Mx	0	4.17
31	MP3C	X	20.629	.33
32	MP3C	Z	11.91	.33
33	MP3C	Mx	.014	.33
34	MP3C	X	20.629	4.17
35	MP3C	Z	11.91	4.17
36	MP3C	Mx	.014	4.17
37	MP3A	X	9.032	2.75
38	MP3A	Z	5.215	2.75
39	MP3A	Mx	.008	2.75
40	MP3B	X	11.562	2.75
41	MP3B	Z	6.675	2.75
42	MP3B	Mx	0	2.75
43	MP3C	X	9.032	2.75
44	MP3C	Z	5.215	2.75
45	MP3C	Mx	-.008	2.75
46	MP1A	X	8.071	2.75
47	MP1A	Z	4.66	2.75
48	MP1A	Mx	.006	2.75
49	MP1B	X	11.562	2.75
50	MP1B	Z	6.675	2.75
51	MP1B	Mx	0	2.75
52	MP1C	X	8.071	2.75
53	MP1C	Z	4.66	2.75
54	MP1C	Mx	-.006	2.75
55	MP2A	X	17.279	.17
56	MP2A	Z	9.976	.17
57	MP2A	Mx	-.012	.17
58	MP2A	X	17.279	4.5
59	MP2A	Z	9.976	4.5
60	MP2A	Mx	-.012	4.5
61	MP2B	X	22.248	.17
62	MP2B	Z	12.845	.17
63	MP2B	Mx	0	.17
64	MP2B	X	22.248	4.5
65	MP2B	Z	12.845	4.5
66	MP2B	Mx	0	4.5
67	MP2C	X	17.279	.17
68	MP2C	Z	9.976	.17
69	MP2C	Mx	.012	.17
70	MP2C	X	17.279	4.5
71	MP2C	Z	9.976	4.5
72	MP2C	Mx	.012	4.5
73	MP4A	X	7.113	2.33
74	MP4A	Z	4.107	2.33
75	MP4A	Mx	-.004	2.33
76	MP4A	X	7.113	3.33
77	MP4A	Z	4.107	3.33
78	MP4A	Mx	-.004	3.33
79	MP4B	X	12.293	2.33
80	MP4B	Z	7.098	2.33
81	MP4B	Mx	0	2.33
82	MP4B	X	12.293	3.33
83	MP4B	Z	7.098	3.33
84	MP4B	Mx	0	3.33
85	MP4C	X	7.113	2.33
86	MP4C	Z	4.107	2.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
87	MP4C	Mx	.004	2.33
88	MP4C	X	7.113	3.33
89	MP4C	Z	4.107	3.33
90	MP4C	Mx	.004	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	16.545	.33
2	MP1A	Z	28.656	.33
3	MP1A	Mx	-.011	.33
4	MP1A	X	16.545	4.17
5	MP1A	Z	28.656	4.17
6	MP1A	Mx	-.011	4.17
7	MP1B	X	16.545	.33
8	MP1B	Z	28.656	.33
9	MP1B	Mx	-.011	.33
10	MP1B	X	16.545	4.17
11	MP1B	Z	28.656	4.17
12	MP1B	Mx	-.011	4.17
13	MP1C	X	9.593	.33
14	MP1C	Z	16.615	.33
15	MP1C	Mx	.013	.33
16	MP1C	X	9.593	4.17
17	MP1C	Z	16.615	4.17
18	MP1C	Mx	.013	4.17
19	MP3A	X	16.545	.33
20	MP3A	Z	28.656	.33
21	MP3A	Mx	-.011	.33
22	MP3A	X	16.545	4.17
23	MP3A	Z	28.656	4.17
24	MP3A	Mx	-.011	4.17
25	MP3B	X	16.545	.33
26	MP3B	Z	28.656	.33
27	MP3B	Mx	-.011	.33
28	MP3B	X	16.545	4.17
29	MP3B	Z	28.656	4.17
30	MP3B	Mx	-.011	4.17
31	MP3C	X	9.593	.33
32	MP3C	Z	16.615	.33
33	MP3C	Mx	.013	.33
34	MP3C	X	9.593	4.17
35	MP3C	Z	16.615	4.17
36	MP3C	Mx	.013	4.17
37	MP3A	X	6.188	2.75
38	MP3A	Z	10.718	2.75
39	MP3A	Mx	.005	2.75
40	MP3B	X	6.188	2.75
41	MP3B	Z	10.718	2.75
42	MP3B	Mx	.005	2.75
43	MP3C	X	4.728	2.75
44	MP3C	Z	8.189	2.75
45	MP3C	Mx	-.008	2.75
46	MP1A	X	6.003	2.75
47	MP1A	Z	10.398	2.75
48	MP1A	Mx	.005	2.75
49	MP1B	X	6.003	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
50	MP1B	Z	10.398	2.75
51	MP1B	Mx	.005	2.75
52	MP1C	X	3.988	2.75
53	MP1C	Z	6.907	2.75
54	MP1C	Mx	-.006	2.75
55	MP2A	X	11.888	.17
56	MP2A	Z	20.591	.17
57	MP2A	Mx	-.008	.17
58	MP2A	X	11.888	4.5
59	MP2A	Z	20.591	4.5
60	MP2A	Mx	-.008	4.5
61	MP2B	X	11.888	.17
62	MP2B	Z	20.591	.17
63	MP2B	Mx	-.008	.17
64	MP2B	X	11.888	4.5
65	MP2B	Z	20.591	4.5
66	MP2B	Mx	-.008	4.5
67	MP2C	X	9.02	.17
68	MP2C	Z	15.623	.17
69	MP2C	Mx	.012	.17
70	MP2C	X	9.02	4.5
71	MP2C	Z	15.623	4.5
72	MP2C	Mx	.012	4.5
73	MP4A	X	6.101	2.33
74	MP4A	Z	10.567	2.33
75	MP4A	Mx	-.003	2.33
76	MP4A	X	6.101	3.33
77	MP4A	Z	10.567	3.33
78	MP4A	Mx	-.003	3.33
79	MP4B	X	6.101	2.33
80	MP4B	Z	10.567	2.33
81	MP4B	Mx	-.003	2.33
82	MP4B	X	6.101	3.33
83	MP4B	Z	10.567	3.33
84	MP4B	Mx	-.003	3.33
85	MP4C	X	3.11	2.33
86	MP4C	Z	5.387	2.33
87	MP4C	Mx	.003	2.33
88	MP4C	X	3.11	3.33
89	MP4C	Z	5.387	3.33
90	MP4C	Mx	.003	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.33
2	MP1A	Z	37.724	.33
3	MP1A	Mx	0	.33
4	MP1A	X	0	4.17
5	MP1A	Z	37.724	4.17
6	MP1A	Mx	0	4.17
7	MP1B	X	0	.33
8	MP1B	Z	23.82	.33
9	MP1B	Mx	-.014	.33
10	MP1B	X	0	4.17
11	MP1B	Z	23.82	4.17
12	MP1B	Mx	-.014	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP1C	X	0	.33
14	MP1C	Z	23.82	.33
15	MP1C	Mx	.014	.33
16	MP1C	X	0	4.17
17	MP1C	Z	23.82	4.17
18	MP1C	Mx	.014	4.17
19	MP3A	X	0	.33
20	MP3A	Z	37.724	.33
21	MP3A	Mx	0	.33
22	MP3A	X	0	4.17
23	MP3A	Z	37.724	4.17
24	MP3A	Mx	0	4.17
25	MP3B	X	0	.33
26	MP3B	Z	23.82	.33
27	MP3B	Mx	-.014	.33
28	MP3B	X	0	4.17
29	MP3B	Z	23.82	4.17
30	MP3B	Mx	-.014	4.17
31	MP3C	X	0	.33
32	MP3C	Z	23.82	.33
33	MP3C	Mx	.014	.33
34	MP3C	X	0	4.17
35	MP3C	Z	23.82	4.17
36	MP3C	Mx	.014	4.17
37	MP3A	X	0	2.75
38	MP3A	Z	13.35	2.75
39	MP3A	Mx	0	2.75
40	MP3B	X	0	2.75
41	MP3B	Z	10.429	2.75
42	MP3B	Mx	.008	2.75
43	MP3C	X	0	2.75
44	MP3C	Z	10.429	2.75
45	MP3C	Mx	-.008	2.75
46	MP1A	X	0	2.75
47	MP1A	Z	13.35	2.75
48	MP1A	Mx	0	2.75
49	MP1B	X	0	2.75
50	MP1B	Z	9.319	2.75
51	MP1B	Mx	.006	2.75
52	MP1C	X	0	2.75
53	MP1C	Z	9.319	2.75
54	MP1C	Mx	-.006	2.75
55	MP2A	X	0	.17
56	MP2A	Z	25.689	.17
57	MP2A	Mx	0	.17
58	MP2A	X	0	4.5
59	MP2A	Z	25.689	4.5
60	MP2A	Mx	0	4.5
61	MP2B	X	0	.17
62	MP2B	Z	19.952	.17
63	MP2B	Mx	-.012	.17
64	MP2B	X	0	4.5
65	MP2B	Z	19.952	4.5
66	MP2B	Mx	-.012	4.5
67	MP2C	X	0	.17
68	MP2C	Z	19.952	.17
69	MP2C	Mx	.012	.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
70	MP2C	X	0	4.5
71	MP2C	Z	19.952	4.5
72	MP2C	Mx	.012	4.5
73	MP4A	X	0	2.33
74	MP4A	Z	14.195	2.33
75	MP4A	Mx	0	2.33
76	MP4A	X	0	3.33
77	MP4A	Z	14.195	3.33
78	MP4A	Mx	0	3.33
79	MP4B	X	0	2.33
80	MP4B	Z	8.214	2.33
81	MP4B	Mx	-.004	2.33
82	MP4B	X	0	3.33
83	MP4B	Z	8.214	3.33
84	MP4B	Mx	-.004	3.33
85	MP4C	X	0	2.33
86	MP4C	Z	8.214	2.33
87	MP4C	Mx	.004	2.33
88	MP4C	X	0	3.33
89	MP4C	Z	8.214	3.33
90	MP4C	Mx	.004	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-16.545	.33
2	MP1A	Z	28.656	.33
3	MP1A	Mx	.011	.33
4	MP1A	X	-16.545	4.17
5	MP1A	Z	28.656	4.17
6	MP1A	Mx	.011	4.17
7	MP1B	X	-9.593	.33
8	MP1B	Z	16.615	.33
9	MP1B	Mx	-.013	.33
10	MP1B	X	-9.593	4.17
11	MP1B	Z	16.615	4.17
12	MP1B	Mx	-.013	4.17
13	MP1C	X	-16.545	.33
14	MP1C	Z	28.656	.33
15	MP1C	Mx	.011	.33
16	MP1C	X	-16.545	4.17
17	MP1C	Z	28.656	4.17
18	MP1C	Mx	.011	4.17
19	MP3A	X	-16.545	.33
20	MP3A	Z	28.656	.33
21	MP3A	Mx	.011	.33
22	MP3A	X	-16.545	4.17
23	MP3A	Z	28.656	4.17
24	MP3A	Mx	.011	4.17
25	MP3B	X	-9.593	.33
26	MP3B	Z	16.615	.33
27	MP3B	Mx	-.013	.33
28	MP3B	X	-9.593	4.17
29	MP3B	Z	16.615	4.17
30	MP3B	Mx	-.013	4.17
31	MP3C	X	-16.545	.33
32	MP3C	Z	28.656	.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP3C	Mx	.011	.33
34	MP3C	X	-16.545	4.17
35	MP3C	Z	28.656	4.17
36	MP3C	Mx	.011	4.17
37	MP3A	X	-6.188	2.75
38	MP3A	Z	10.718	2.75
39	MP3A	Mx	-.005	2.75
40	MP3B	X	-4.728	2.75
41	MP3B	Z	8.189	2.75
42	MP3B	Mx	.008	2.75
43	MP3C	X	-6.188	2.75
44	MP3C	Z	10.718	2.75
45	MP3C	Mx	-.005	2.75
46	MP1A	X	-6.003	2.75
47	MP1A	Z	10.398	2.75
48	MP1A	Mx	-.005	2.75
49	MP1B	X	-3.988	2.75
50	MP1B	Z	6.907	2.75
51	MP1B	Mx	.006	2.75
52	MP1C	X	-6.003	2.75
53	MP1C	Z	10.398	2.75
54	MP1C	Mx	-.005	2.75
55	MP2A	X	-11.888	.17
56	MP2A	Z	20.591	.17
57	MP2A	Mx	.008	.17
58	MP2A	X	-11.888	4.5
59	MP2A	Z	20.591	4.5
60	MP2A	Mx	.008	4.5
61	MP2B	X	-9.02	.17
62	MP2B	Z	15.623	.17
63	MP2B	Mx	-.012	.17
64	MP2B	X	-9.02	4.5
65	MP2B	Z	15.623	4.5
66	MP2B	Mx	-.012	4.5
67	MP2C	X	-11.888	.17
68	MP2C	Z	20.591	.17
69	MP2C	Mx	.008	.17
70	MP2C	X	-11.888	4.5
71	MP2C	Z	20.591	4.5
72	MP2C	Mx	.008	4.5
73	MP4A	X	-6.101	2.33
74	MP4A	Z	10.567	2.33
75	MP4A	Mx	.003	2.33
76	MP4A	X	-6.101	3.33
77	MP4A	Z	10.567	3.33
78	MP4A	Mx	.003	3.33
79	MP4B	X	-3.11	2.33
80	MP4B	Z	5.387	2.33
81	MP4B	Mx	-.003	2.33
82	MP4B	X	-3.11	3.33
83	MP4B	Z	5.387	3.33
84	MP4B	Mx	-.003	3.33
85	MP4C	X	-6.101	2.33
86	MP4C	Z	10.567	2.33
87	MP4C	Mx	.003	2.33
88	MP4C	X	-6.101	3.33
89	MP4C	Z	10.567	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
90	MP4C	Mx	.003	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-20.629	.33
2	MP1A	Z	11.91	.33
3	MP1A	Mx	.014	.33
4	MP1A	X	-20.629	4.17
5	MP1A	Z	11.91	4.17
6	MP1A	Mx	.014	4.17
7	MP1B	X	-20.629	.33
8	MP1B	Z	11.91	.33
9	MP1B	Mx	-.014	.33
10	MP1B	X	-20.629	4.17
11	MP1B	Z	11.91	4.17
12	MP1B	Mx	-.014	4.17
13	MP1C	X	-32.67	.33
14	MP1C	Z	18.862	.33
15	MP1C	Mx	0	.33
16	MP1C	X	-32.67	4.17
17	MP1C	Z	18.862	4.17
18	MP1C	Mx	0	4.17
19	MP3A	X	-20.629	.33
20	MP3A	Z	11.91	.33
21	MP3A	Mx	.014	.33
22	MP3A	X	-20.629	4.17
23	MP3A	Z	11.91	4.17
24	MP3A	Mx	.014	4.17
25	MP3B	X	-20.629	.33
26	MP3B	Z	11.91	.33
27	MP3B	Mx	-.014	.33
28	MP3B	X	-20.629	4.17
29	MP3B	Z	11.91	4.17
30	MP3B	Mx	-.014	4.17
31	MP3C	X	-32.67	.33
32	MP3C	Z	18.862	.33
33	MP3C	Mx	0	.33
34	MP3C	X	-32.67	4.17
35	MP3C	Z	18.862	4.17
36	MP3C	Mx	0	4.17
37	MP3A	X	-9.032	2.75
38	MP3A	Z	5.215	2.75
39	MP3A	Mx	-.008	2.75
40	MP3B	X	-9.032	2.75
41	MP3B	Z	5.215	2.75
42	MP3B	Mx	.008	2.75
43	MP3C	X	-11.562	2.75
44	MP3C	Z	6.675	2.75
45	MP3C	Mx	0	2.75
46	MP1A	X	-8.071	2.75
47	MP1A	Z	4.66	2.75
48	MP1A	Mx	-.006	2.75
49	MP1B	X	-8.071	2.75
50	MP1B	Z	4.66	2.75
51	MP1B	Mx	.006	2.75
52	MP1C	X	-11.562	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP1C	Z	6.675	2.75
54	MP1C	Mx	0	2.75
55	MP2A	X	-17.279	.17
56	MP2A	Z	9.976	.17
57	MP2A	Mx	.012	.17
58	MP2A	X	-17.279	4.5
59	MP2A	Z	9.976	4.5
60	MP2A	Mx	.012	4.5
61	MP2B	X	-17.279	.17
62	MP2B	Z	9.976	.17
63	MP2B	Mx	-.012	.17
64	MP2B	X	-17.279	4.5
65	MP2B	Z	9.976	4.5
66	MP2B	Mx	-.012	4.5
67	MP2C	X	-22.248	.17
68	MP2C	Z	12.845	.17
69	MP2C	Mx	0	.17
70	MP2C	X	-22.248	4.5
71	MP2C	Z	12.845	4.5
72	MP2C	Mx	0	4.5
73	MP4A	X	-7.113	2.33
74	MP4A	Z	4.107	2.33
75	MP4A	Mx	.004	2.33
76	MP4A	X	-7.113	3.33
77	MP4A	Z	4.107	3.33
78	MP4A	Mx	.004	3.33
79	MP4B	X	-7.113	2.33
80	MP4B	Z	4.107	2.33
81	MP4B	Mx	-.004	2.33
82	MP4B	X	-7.113	3.33
83	MP4B	Z	4.107	3.33
84	MP4B	Mx	-.004	3.33
85	MP4C	X	-12.293	2.33
86	MP4C	Z	7.098	2.33
87	MP4C	Mx	0	2.33
88	MP4C	X	-12.293	3.33
89	MP4C	Z	7.098	3.33
90	MP4C	Mx	0	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-19.185	.33
2	MP1A	Z	0	.33
3	MP1A	Mx	.013	.33
4	MP1A	X	-19.185	4.17
5	MP1A	Z	0	4.17
6	MP1A	Mx	.013	4.17
7	MP1B	X	-33.089	.33
8	MP1B	Z	0	.33
9	MP1B	Mx	-.011	.33
10	MP1B	X	-33.089	4.17
11	MP1B	Z	0	4.17
12	MP1B	Mx	-.011	4.17
13	MP1C	X	-33.089	.33
14	MP1C	Z	0	.33
15	MP1C	Mx	-.011	.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP1C	X	-33.089	4.17
17	MP1C	Z	0	4.17
18	MP1C	Mx	-.011	4.17
19	MP3A	X	-19.185	.33
20	MP3A	Z	0	.33
21	MP3A	Mx	.013	.33
22	MP3A	X	-19.185	4.17
23	MP3A	Z	0	4.17
24	MP3A	Mx	.013	4.17
25	MP3B	X	-33.089	.33
26	MP3B	Z	0	.33
27	MP3B	Mx	-.011	.33
28	MP3B	X	-33.089	4.17
29	MP3B	Z	0	4.17
30	MP3B	Mx	-.011	4.17
31	MP3C	X	-33.089	.33
32	MP3C	Z	0	.33
33	MP3C	Mx	-.011	.33
34	MP3C	X	-33.089	4.17
35	MP3C	Z	0	4.17
36	MP3C	Mx	-.011	4.17
37	MP3A	X	-9.456	2.75
38	MP3A	Z	0	2.75
39	MP3A	Mx	-.008	2.75
40	MP3B	X	-12.377	2.75
41	MP3B	Z	0	2.75
42	MP3B	Mx	.005	2.75
43	MP3C	X	-12.377	2.75
44	MP3C	Z	0	2.75
45	MP3C	Mx	.005	2.75
46	MP1A	X	-7.976	2.75
47	MP1A	Z	0	2.75
48	MP1A	Mx	-.006	2.75
49	MP1B	X	-12.007	2.75
50	MP1B	Z	0	2.75
51	MP1B	Mx	.005	2.75
52	MP1C	X	-12.007	2.75
53	MP1C	Z	0	2.75
54	MP1C	Mx	.005	2.75
55	MP2A	X	-18.039	.17
56	MP2A	Z	0	.17
57	MP2A	Mx	.012	.17
58	MP2A	X	-18.039	4.5
59	MP2A	Z	0	4.5
60	MP2A	Mx	.012	4.5
61	MP2B	X	-23.777	.17
62	MP2B	Z	0	.17
63	MP2B	Mx	-.008	.17
64	MP2B	X	-23.777	4.5
65	MP2B	Z	0	4.5
66	MP2B	Mx	-.008	4.5
67	MP2C	X	-23.777	.17
68	MP2C	Z	0	.17
69	MP2C	Mx	-.008	.17
70	MP2C	X	-23.777	4.5
71	MP2C	Z	0	4.5
72	MP2C	Mx	-.008	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP4A	X	-6.22	2.33
74	MP4A	Z	0	2.33
75	MP4A	Mx	.003	2.33
76	MP4A	X	-6.22	3.33
77	MP4A	Z	0	3.33
78	MP4A	Mx	.003	3.33
79	MP4B	X	-12.201	2.33
80	MP4B	Z	0	2.33
81	MP4B	Mx	-.003	2.33
82	MP4B	X	-12.201	3.33
83	MP4B	Z	0	3.33
84	MP4B	Mx	-.003	3.33
85	MP4C	X	-12.201	2.33
86	MP4C	Z	0	2.33
87	MP4C	Mx	-.003	2.33
88	MP4C	X	-12.201	3.33
89	MP4C	Z	0	3.33
90	MP4C	Mx	-.003	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-20.629	.33
2	MP1A	Z	-11.91	.33
3	MP1A	Mx	.014	.33
4	MP1A	X	-20.629	4.17
5	MP1A	Z	-11.91	4.17
6	MP1A	Mx	.014	4.17
7	MP1B	X	-32.67	.33
8	MP1B	Z	-18.862	.33
9	MP1B	Mx	0	.33
10	MP1B	X	-32.67	4.17
11	MP1B	Z	-18.862	4.17
12	MP1B	Mx	0	4.17
13	MP1C	X	-20.629	.33
14	MP1C	Z	-11.91	.33
15	MP1C	Mx	-.014	.33
16	MP1C	X	-20.629	4.17
17	MP1C	Z	-11.91	4.17
18	MP1C	Mx	-.014	4.17
19	MP3A	X	-20.629	.33
20	MP3A	Z	-11.91	.33
21	MP3A	Mx	.014	.33
22	MP3A	X	-20.629	4.17
23	MP3A	Z	-11.91	4.17
24	MP3A	Mx	.014	4.17
25	MP3B	X	-32.67	.33
26	MP3B	Z	-18.862	.33
27	MP3B	Mx	0	.33
28	MP3B	X	-32.67	4.17
29	MP3B	Z	-18.862	4.17
30	MP3B	Mx	0	4.17
31	MP3C	X	-20.629	.33
32	MP3C	Z	-11.91	.33
33	MP3C	Mx	-.014	.33
34	MP3C	X	-20.629	4.17
35	MP3C	Z	-11.91	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP3C	Mx	-.014	4.17
37	MP3A	X	-9.032	2.75
38	MP3A	Z	-5.215	2.75
39	MP3A	Mx	-.008	2.75
40	MP3B	X	-11.562	2.75
41	MP3B	Z	-6.675	2.75
42	MP3B	Mx	0	2.75
43	MP3C	X	-9.032	2.75
44	MP3C	Z	-5.215	2.75
45	MP3C	Mx	.008	2.75
46	MP1A	X	-8.071	2.75
47	MP1A	Z	-4.66	2.75
48	MP1A	Mx	-.006	2.75
49	MP1B	X	-11.562	2.75
50	MP1B	Z	-6.675	2.75
51	MP1B	Mx	0	2.75
52	MP1C	X	-8.071	2.75
53	MP1C	Z	-4.66	2.75
54	MP1C	Mx	.006	2.75
55	MP2A	X	-17.279	.17
56	MP2A	Z	-9.976	.17
57	MP2A	Mx	.012	.17
58	MP2A	X	-17.279	4.5
59	MP2A	Z	-9.976	4.5
60	MP2A	Mx	.012	4.5
61	MP2B	X	-22.248	.17
62	MP2B	Z	-12.845	.17
63	MP2B	Mx	0	.17
64	MP2B	X	-22.248	4.5
65	MP2B	Z	-12.845	4.5
66	MP2B	Mx	0	4.5
67	MP2C	X	-17.279	.17
68	MP2C	Z	-9.976	.17
69	MP2C	Mx	-.012	.17
70	MP2C	X	-17.279	4.5
71	MP2C	Z	-9.976	4.5
72	MP2C	Mx	-.012	4.5
73	MP4A	X	-7.113	2.33
74	MP4A	Z	-4.107	2.33
75	MP4A	Mx	.004	2.33
76	MP4A	X	-7.113	3.33
77	MP4A	Z	-4.107	3.33
78	MP4A	Mx	.004	3.33
79	MP4B	X	-12.293	2.33
80	MP4B	Z	-7.098	2.33
81	MP4B	Mx	0	2.33
82	MP4B	X	-12.293	3.33
83	MP4B	Z	-7.098	3.33
84	MP4B	Mx	0	3.33
85	MP4C	X	-7.113	2.33
86	MP4C	Z	-4.107	2.33
87	MP4C	Mx	-.004	2.33
88	MP4C	X	-7.113	3.33
89	MP4C	Z	-4.107	3.33
90	MP4C	Mx	-.004	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-16.545	.33
2	MP1A	Z	-28.656	.33
3	MP1A	Mx	.011	.33
4	MP1A	X	-16.545	4.17
5	MP1A	Z	-28.656	4.17
6	MP1A	Mx	.011	4.17
7	MP1B	X	-16.545	.33
8	MP1B	Z	-28.656	.33
9	MP1B	Mx	.011	.33
10	MP1B	X	-16.545	4.17
11	MP1B	Z	-28.656	4.17
12	MP1B	Mx	.011	4.17
13	MP1C	X	-9.593	.33
14	MP1C	Z	-16.615	.33
15	MP1C	Mx	-.013	.33
16	MP1C	X	-9.593	4.17
17	MP1C	Z	-16.615	4.17
18	MP1C	Mx	-.013	4.17
19	MP3A	X	-16.545	.33
20	MP3A	Z	-28.656	.33
21	MP3A	Mx	.011	.33
22	MP3A	X	-16.545	4.17
23	MP3A	Z	-28.656	4.17
24	MP3A	Mx	.011	4.17
25	MP3B	X	-16.545	.33
26	MP3B	Z	-28.656	.33
27	MP3B	Mx	.011	.33
28	MP3B	X	-16.545	4.17
29	MP3B	Z	-28.656	4.17
30	MP3B	Mx	.011	4.17
31	MP3C	X	-9.593	.33
32	MP3C	Z	-16.615	.33
33	MP3C	Mx	-.013	.33
34	MP3C	X	-9.593	4.17
35	MP3C	Z	-16.615	4.17
36	MP3C	Mx	-.013	4.17
37	MP3A	X	-6.188	2.75
38	MP3A	Z	-10.718	2.75
39	MP3A	Mx	-.005	2.75
40	MP3B	X	-6.188	2.75
41	MP3B	Z	-10.718	2.75
42	MP3B	Mx	-.005	2.75
43	MP3C	X	-4.728	2.75
44	MP3C	Z	-8.189	2.75
45	MP3C	Mx	.008	2.75
46	MP1A	X	-6.003	2.75
47	MP1A	Z	-10.398	2.75
48	MP1A	Mx	-.005	2.75
49	MP1B	X	-6.003	2.75
50	MP1B	Z	-10.398	2.75
51	MP1B	Mx	-.005	2.75
52	MP1C	X	-3.988	2.75
53	MP1C	Z	-6.907	2.75
54	MP1C	Mx	.006	2.75
55	MP2A	X	-11.888	.17
56	MP2A	Z	-20.591	.17
57	MP2A	Mx	.008	.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2A	X	-11.888	4.5
59	MP2A	Z	-20.591	4.5
60	MP2A	Mx	.008	4.5
61	MP2B	X	-11.888	.17
62	MP2B	Z	-20.591	.17
63	MP2B	Mx	.008	.17
64	MP2B	X	-11.888	4.5
65	MP2B	Z	-20.591	4.5
66	MP2B	Mx	.008	4.5
67	MP2C	X	-9.02	.17
68	MP2C	Z	-15.623	.17
69	MP2C	Mx	-.012	.17
70	MP2C	X	-9.02	4.5
71	MP2C	Z	-15.623	4.5
72	MP2C	Mx	-.012	4.5
73	MP4A	X	-6.101	2.33
74	MP4A	Z	-10.567	2.33
75	MP4A	Mx	.003	2.33
76	MP4A	X	-6.101	3.33
77	MP4A	Z	-10.567	3.33
78	MP4A	Mx	.003	3.33
79	MP4B	X	-6.101	2.33
80	MP4B	Z	-10.567	2.33
81	MP4B	Mx	.003	2.33
82	MP4B	X	-6.101	3.33
83	MP4B	Z	-10.567	3.33
84	MP4B	Mx	.003	3.33
85	MP4C	X	-3.11	2.33
86	MP4C	Z	-5.387	2.33
87	MP4C	Mx	-.003	2.33
88	MP4C	X	-3.11	3.33
89	MP4C	Z	-5.387	3.33
90	MP4C	Mx	-.003	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.33
2	MP1A	Z	-12.162	.33
3	MP1A	Mx	0	.33
4	MP1A	X	0	4.17
5	MP1A	Z	-12.162	4.17
6	MP1A	Mx	0	4.17
7	MP1B	X	0	.33
8	MP1B	Z	-7.315	.33
9	MP1B	Mx	.004	.33
10	MP1B	X	0	4.17
11	MP1B	Z	-7.315	4.17
12	MP1B	Mx	.004	4.17
13	MP1C	X	0	.33
14	MP1C	Z	-7.315	.33
15	MP1C	Mx	-.004	.33
16	MP1C	X	0	4.17
17	MP1C	Z	-7.315	4.17
18	MP1C	Mx	-.004	4.17
19	MP3A	X	0	.33
20	MP3A	Z	-12.162	.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP3A	Mx	0	.33
22	MP3A	X	0	4.17
23	MP3A	Z	-12.162	4.17
24	MP3A	Mx	0	4.17
25	MP3B	X	0	.33
26	MP3B	Z	-7.315	.33
27	MP3B	Mx	.004	.33
28	MP3B	X	0	4.17
29	MP3B	Z	-7.315	4.17
30	MP3B	Mx	.004	4.17
31	MP3C	X	0	.33
32	MP3C	Z	-7.315	.33
33	MP3C	Mx	-.004	.33
34	MP3C	X	0	4.17
35	MP3C	Z	-7.315	4.17
36	MP3C	Mx	-.004	4.17
37	MP3A	X	0	2.75
38	MP3A	Z	-3.707	2.75
39	MP3A	Mx	0	2.75
40	MP3B	X	0	2.75
41	MP3B	Z	-2.785	2.75
42	MP3B	Mx	-.002	2.75
43	MP3C	X	0	2.75
44	MP3C	Z	-2.785	2.75
45	MP3C	Mx	.002	2.75
46	MP1A	X	0	2.75
47	MP1A	Z	-3.707	2.75
48	MP1A	Mx	0	2.75
49	MP1B	X	0	2.75
50	MP1B	Z	-2.432	2.75
51	MP1B	Mx	-.002	2.75
52	MP1C	X	0	2.75
53	MP1C	Z	-2.432	2.75
54	MP1C	Mx	.002	2.75
55	MP2A	X	0	.17
56	MP2A	Z	-8.019	.17
57	MP2A	Mx	0	.17
58	MP2A	X	0	4.5
59	MP2A	Z	-8.019	4.5
60	MP2A	Mx	0	4.5
61	MP2B	X	0	.17
62	MP2B	Z	-5.976	.17
63	MP2B	Mx	.003	.17
64	MP2B	X	0	4.5
65	MP2B	Z	-5.976	4.5
66	MP2B	Mx	.003	4.5
67	MP2C	X	0	.17
68	MP2C	Z	-5.976	.17
69	MP2C	Mx	-.003	.17
70	MP2C	X	0	4.5
71	MP2C	Z	-5.976	4.5
72	MP2C	Mx	-.003	4.5
73	MP4A	X	0	2.33
74	MP4A	Z	-4.262	2.33
75	MP4A	Mx	0	2.33
76	MP4A	X	0	3.33
77	MP4A	Z	-4.262	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP4A	Mx	0	3.33
79	MP4B	X	0	2.33
80	MP4B	Z	-2.294	2.33
81	MP4B	Mx	.000993	2.33
82	MP4B	X	0	3.33
83	MP4B	Z	-2.294	3.33
84	MP4B	Mx	.000993	3.33
85	MP4C	X	0	2.33
86	MP4C	Z	-2.294	2.33
87	MP4C	Mx	-.000993	2.33
88	MP4C	X	0	3.33
89	MP4C	Z	-2.294	3.33
90	MP4C	Mx	-.000993	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	5.273	.33
2	MP1A	Z	-9.133	.33
3	MP1A	Mx	-.004	.33
4	MP1A	X	5.273	4.17
5	MP1A	Z	-9.133	4.17
6	MP1A	Mx	-.004	4.17
7	MP1B	X	2.85	.33
8	MP1B	Z	-4.936	.33
9	MP1B	Mx	.004	.33
10	MP1B	X	2.85	4.17
11	MP1B	Z	-4.936	4.17
12	MP1B	Mx	.004	4.17
13	MP1C	X	5.273	.33
14	MP1C	Z	-9.133	.33
15	MP1C	Mx	-.004	.33
16	MP1C	X	5.273	4.17
17	MP1C	Z	-9.133	4.17
18	MP1C	Mx	-.004	4.17
19	MP3A	X	5.273	.33
20	MP3A	Z	-9.133	.33
21	MP3A	Mx	-.004	.33
22	MP3A	X	5.273	4.17
23	MP3A	Z	-9.133	4.17
24	MP3A	Mx	-.004	4.17
25	MP3B	X	2.85	.33
26	MP3B	Z	-4.936	.33
27	MP3B	Mx	.004	.33
28	MP3B	X	2.85	4.17
29	MP3B	Z	-4.936	4.17
30	MP3B	Mx	.004	4.17
31	MP3C	X	5.273	.33
32	MP3C	Z	-9.133	.33
33	MP3C	Mx	-.004	.33
34	MP3C	X	5.273	4.17
35	MP3C	Z	-9.133	4.17
36	MP3C	Mx	-.004	4.17
37	MP3A	X	1.7	2.75
38	MP3A	Z	-2.944	2.75
39	MP3A	Mx	.001	2.75
40	MP3B	X	1.239	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP3B	Z	-2.146	2.75
42	MP3B	Mx	-.002	2.75
43	MP3C	X	1.7	2.75
44	MP3C	Z	-2.944	2.75
45	MP3C	Mx	.001	2.75
46	MP1A	X	1.641	2.75
47	MP1A	Z	-2.842	2.75
48	MP1A	Mx	.001	2.75
49	MP1B	X	1.004	2.75
50	MP1B	Z	-1.738	2.75
51	MP1B	Mx	-.002	2.75
52	MP1C	X	1.641	2.75
53	MP1C	Z	-2.842	2.75
54	MP1C	Mx	.001	2.75
55	MP2A	X	3.669	.17
56	MP2A	Z	-6.355	.17
57	MP2A	Mx	-.002	.17
58	MP2A	X	3.669	4.5
59	MP2A	Z	-6.355	4.5
60	MP2A	Mx	-.002	4.5
61	MP2B	X	2.647	.17
62	MP2B	Z	-4.585	.17
63	MP2B	Mx	.004	.17
64	MP2B	X	2.647	4.5
65	MP2B	Z	-4.585	4.5
66	MP2B	Mx	.004	4.5
67	MP2C	X	3.669	.17
68	MP2C	Z	-6.355	.17
69	MP2C	Mx	-.002	.17
70	MP2C	X	3.669	4.5
71	MP2C	Z	-6.355	4.5
72	MP2C	Mx	-.002	4.5
73	MP4A	X	1.803	2.33
74	MP4A	Z	-3.123	2.33
75	MP4A	Mx	-.000902	2.33
76	MP4A	X	1.803	3.33
77	MP4A	Z	-3.123	3.33
78	MP4A	Mx	-.000902	3.33
79	MP4B	X	.819	2.33
80	MP4B	Z	-1.419	2.33
81	MP4B	Mx	.000819	2.33
82	MP4B	X	.819	3.33
83	MP4B	Z	-1.419	3.33
84	MP4B	Mx	.000819	3.33
85	MP4C	X	1.803	2.33
86	MP4C	Z	-3.123	2.33
87	MP4C	Mx	-.000902	2.33
88	MP4C	X	1.803	3.33
89	MP4C	Z	-3.123	3.33
90	MP4C	Mx	-.000902	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	6.335	.33
2	MP1A	Z	-3.657	.33
3	MP1A	Mx	-.004	.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP1A	X	6.335	4.17
5	MP1A	Z	-3.657	4.17
6	MP1A	Mx	-.004	4.17
7	MP1B	X	6.335	.33
8	MP1B	Z	-3.657	.33
9	MP1B	Mx	.004	.33
10	MP1B	X	6.335	4.17
11	MP1B	Z	-3.657	4.17
12	MP1B	Mx	.004	4.17
13	MP1C	X	10.532	.33
14	MP1C	Z	-6.081	.33
15	MP1C	Mx	0	.33
16	MP1C	X	10.532	4.17
17	MP1C	Z	-6.081	4.17
18	MP1C	Mx	0	4.17
19	MP3A	X	6.335	.33
20	MP3A	Z	-3.657	.33
21	MP3A	Mx	-.004	.33
22	MP3A	X	6.335	4.17
23	MP3A	Z	-3.657	4.17
24	MP3A	Mx	-.004	4.17
25	MP3B	X	6.335	.33
26	MP3B	Z	-3.657	.33
27	MP3B	Mx	.004	.33
28	MP3B	X	6.335	4.17
29	MP3B	Z	-3.657	4.17
30	MP3B	Mx	.004	4.17
31	MP3C	X	10.532	.33
32	MP3C	Z	-6.081	.33
33	MP3C	Mx	0	.33
34	MP3C	X	10.532	4.17
35	MP3C	Z	-6.081	4.17
36	MP3C	Mx	0	4.17
37	MP3A	X	2.412	2.75
38	MP3A	Z	-1.393	2.75
39	MP3A	Mx	.002	2.75
40	MP3B	X	2.412	2.75
41	MP3B	Z	-1.393	2.75
42	MP3B	Mx	-.002	2.75
43	MP3C	X	3.21	2.75
44	MP3C	Z	-1.854	2.75
45	MP3C	Mx	1e-6	2.75
46	MP1A	X	2.106	2.75
47	MP1A	Z	-1.216	2.75
48	MP1A	Mx	.002	2.75
49	MP1B	X	2.106	2.75
50	MP1B	Z	-1.216	2.75
51	MP1B	Mx	-.002	2.75
52	MP1C	X	3.21	2.75
53	MP1C	Z	-1.854	2.75
54	MP1C	Mx	0	2.75
55	MP2A	X	5.175	.17
56	MP2A	Z	-2.988	.17
57	MP2A	Mx	-.003	.17
58	MP2A	X	5.175	4.5
59	MP2A	Z	-2.988	4.5
60	MP2A	Mx	-.003	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
61	MP2B	X	5.175	.17
62	MP2B	Z	-2.988	.17
63	MP2B	Mx	.003	.17
64	MP2B	X	5.175	4.5
65	MP2B	Z	-2.988	4.5
66	MP2B	Mx	.003	4.5
67	MP2C	X	6.944	.17
68	MP2C	Z	-4.009	.17
69	MP2C	Mx	0	.17
70	MP2C	X	6.944	4.5
71	MP2C	Z	-4.009	4.5
72	MP2C	Mx	0	4.5
73	MP4A	X	1.987	2.33
74	MP4A	Z	-1.147	2.33
75	MP4A	Mx	-.000994	2.33
76	MP4A	X	1.987	3.33
77	MP4A	Z	-1.147	3.33
78	MP4A	Mx	-.000994	3.33
79	MP4B	X	1.987	2.33
80	MP4B	Z	-1.147	2.33
81	MP4B	Mx	.000993	2.33
82	MP4B	X	1.987	3.33
83	MP4B	Z	-1.147	3.33
84	MP4B	Mx	.000993	3.33
85	MP4C	X	3.691	2.33
86	MP4C	Z	-2.131	2.33
87	MP4C	Mx	0	2.33
88	MP4C	X	3.691	3.33
89	MP4C	Z	-2.131	3.33
90	MP4C	Mx	0	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	5.699	.33
2	MP1A	Z	0	.33
3	MP1A	Mx	-.004	.33
4	MP1A	X	5.699	4.17
5	MP1A	Z	0	4.17
6	MP1A	Mx	-.004	4.17
7	MP1B	X	10.546	.33
8	MP1B	Z	0	.33
9	MP1B	Mx	.004	.33
10	MP1B	X	10.546	4.17
11	MP1B	Z	0	4.17
12	MP1B	Mx	.004	4.17
13	MP1C	X	10.546	.33
14	MP1C	Z	0	.33
15	MP1C	Mx	.004	.33
16	MP1C	X	10.546	4.17
17	MP1C	Z	0	4.17
18	MP1C	Mx	.004	4.17
19	MP3A	X	5.699	.33
20	MP3A	Z	0	.33
21	MP3A	Mx	-.004	.33
22	MP3A	X	5.699	4.17
23	MP3A	Z	0	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
24	MP3A	Mx	-.004	4.17
25	MP3B	X	10.546	.33
26	MP3B	Z	0	.33
27	MP3B	Mx	.004	.33
28	MP3B	X	10.546	4.17
29	MP3B	Z	0	4.17
30	MP3B	Mx	.004	4.17
31	MP3C	X	10.546	.33
32	MP3C	Z	0	.33
33	MP3C	Mx	.004	.33
34	MP3C	X	10.546	4.17
35	MP3C	Z	0	4.17
36	MP3C	Mx	.004	4.17
37	MP3A	X	2.478	2.75
38	MP3A	Z	0	2.75
39	MP3A	Mx	.002	2.75
40	MP3B	X	3.4	2.75
41	MP3B	Z	0	2.75
42	MP3B	Mx	-.001	2.75
43	MP3C	X	3.4	2.75
44	MP3C	Z	0	2.75
45	MP3C	Mx	-.001	2.75
46	MP1A	X	2.007	2.75
47	MP1A	Z	0	2.75
48	MP1A	Mx	.002	2.75
49	MP1B	X	3.282	2.75
50	MP1B	Z	0	2.75
51	MP1B	Mx	-.001	2.75
52	MP1C	X	3.282	2.75
53	MP1C	Z	0	2.75
54	MP1C	Mx	-.001	2.75
55	MP2A	X	5.295	.17
56	MP2A	Z	0	.17
57	MP2A	Mx	-.004	.17
58	MP2A	X	5.295	4.5
59	MP2A	Z	0	4.5
60	MP2A	Mx	-.004	4.5
61	MP2B	X	7.338	.17
62	MP2B	Z	0	.17
63	MP2B	Mx	.002	.17
64	MP2B	X	7.338	4.5
65	MP2B	Z	0	4.5
66	MP2B	Mx	.002	4.5
67	MP2C	X	7.338	.17
68	MP2C	Z	0	.17
69	MP2C	Mx	.002	.17
70	MP2C	X	7.338	4.5
71	MP2C	Z	0	4.5
72	MP2C	Mx	.002	4.5
73	MP4A	X	1.638	2.33
74	MP4A	Z	0	2.33
75	MP4A	Mx	-.000819	2.33
76	MP4A	X	1.638	3.33
77	MP4A	Z	0	3.33
78	MP4A	Mx	-.000819	3.33
79	MP4B	X	3.606	2.33
80	MP4B	Z	0	2.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
81	MP4B	Mx	.000902	2.33
82	MP4B	X	3.606	3.33
83	MP4B	Z	0	3.33
84	MP4B	Mx	.000902	3.33
85	MP4C	X	3.606	2.33
86	MP4C	Z	0	2.33
87	MP4C	Mx	.000902	2.33
88	MP4C	X	3.606	3.33
89	MP4C	Z	0	3.33
90	MP4C	Mx	.000902	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	6.335	.33
2	MP1A	Z	3.657	.33
3	MP1A	Mx	-.004	.33
4	MP1A	X	6.335	4.17
5	MP1A	Z	3.657	4.17
6	MP1A	Mx	-.004	4.17
7	MP1B	X	10.532	.33
8	MP1B	Z	6.081	.33
9	MP1B	Mx	0	.33
10	MP1B	X	10.532	4.17
11	MP1B	Z	6.081	4.17
12	MP1B	Mx	0	4.17
13	MP1C	X	6.335	.33
14	MP1C	Z	3.657	.33
15	MP1C	Mx	.004	.33
16	MP1C	X	6.335	4.17
17	MP1C	Z	3.657	4.17
18	MP1C	Mx	.004	4.17
19	MP3A	X	6.335	.33
20	MP3A	Z	3.657	.33
21	MP3A	Mx	-.004	.33
22	MP3A	X	6.335	4.17
23	MP3A	Z	3.657	4.17
24	MP3A	Mx	-.004	4.17
25	MP3B	X	10.532	.33
26	MP3B	Z	6.081	.33
27	MP3B	Mx	0	.33
28	MP3B	X	10.532	4.17
29	MP3B	Z	6.081	4.17
30	MP3B	Mx	0	4.17
31	MP3C	X	6.335	.33
32	MP3C	Z	3.657	.33
33	MP3C	Mx	.004	.33
34	MP3C	X	6.335	4.17
35	MP3C	Z	3.657	4.17
36	MP3C	Mx	.004	4.17
37	MP3A	X	2.412	2.75
38	MP3A	Z	1.393	2.75
39	MP3A	Mx	.002	2.75
40	MP3B	X	3.21	2.75
41	MP3B	Z	1.854	2.75
42	MP3B	Mx	1e-6	2.75
43	MP3C	X	2.412	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP3C	Z	1.393	2.75
45	MP3C	Mx	-.002	2.75
46	MP1A	X	2.106	2.75
47	MP1A	Z	1.216	2.75
48	MP1A	Mx	.002	2.75
49	MP1B	X	3.21	2.75
50	MP1B	Z	1.854	2.75
51	MP1B	Mx	0	2.75
52	MP1C	X	2.106	2.75
53	MP1C	Z	1.216	2.75
54	MP1C	Mx	-.002	2.75
55	MP2A	X	5.175	.17
56	MP2A	Z	2.988	.17
57	MP2A	Mx	-.003	.17
58	MP2A	X	5.175	4.5
59	MP2A	Z	2.988	4.5
60	MP2A	Mx	-.003	4.5
61	MP2B	X	6.944	.17
62	MP2B	Z	4.009	.17
63	MP2B	Mx	0	.17
64	MP2B	X	6.944	4.5
65	MP2B	Z	4.009	4.5
66	MP2B	Mx	0	4.5
67	MP2C	X	5.175	.17
68	MP2C	Z	2.988	.17
69	MP2C	Mx	.003	.17
70	MP2C	X	5.175	4.5
71	MP2C	Z	2.988	4.5
72	MP2C	Mx	.003	4.5
73	MP4A	X	1.987	2.33
74	MP4A	Z	1.147	2.33
75	MP4A	Mx	-.000994	2.33
76	MP4A	X	1.987	3.33
77	MP4A	Z	1.147	3.33
78	MP4A	Mx	-.000994	3.33
79	MP4B	X	3.691	2.33
80	MP4B	Z	2.131	2.33
81	MP4B	Mx	0	2.33
82	MP4B	X	3.691	3.33
83	MP4B	Z	2.131	3.33
84	MP4B	Mx	0	3.33
85	MP4C	X	1.987	2.33
86	MP4C	Z	1.147	2.33
87	MP4C	Mx	.000993	2.33
88	MP4C	X	1.987	3.33
89	MP4C	Z	1.147	3.33
90	MP4C	Mx	.000993	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	5.273	.33
2	MP1A	Z	9.133	.33
3	MP1A	Mx	-.004	.33
4	MP1A	X	5.273	4.17
5	MP1A	Z	9.133	4.17
6	MP1A	Mx	-.004	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP1B	X	5.273	.33
8	MP1B	Z	9.133	.33
9	MP1B	Mx	-.004	.33
10	MP1B	X	5.273	4.17
11	MP1B	Z	9.133	4.17
12	MP1B	Mx	-.004	4.17
13	MP1C	X	2.85	.33
14	MP1C	Z	4.936	.33
15	MP1C	Mx	.004	.33
16	MP1C	X	2.85	4.17
17	MP1C	Z	4.936	4.17
18	MP1C	Mx	.004	4.17
19	MP3A	X	5.273	.33
20	MP3A	Z	9.133	.33
21	MP3A	Mx	-.004	.33
22	MP3A	X	5.273	4.17
23	MP3A	Z	9.133	4.17
24	MP3A	Mx	-.004	4.17
25	MP3B	X	5.273	.33
26	MP3B	Z	9.133	.33
27	MP3B	Mx	-.004	.33
28	MP3B	X	5.273	4.17
29	MP3B	Z	9.133	4.17
30	MP3B	Mx	-.004	4.17
31	MP3C	X	2.85	.33
32	MP3C	Z	4.936	.33
33	MP3C	Mx	.004	.33
34	MP3C	X	2.85	4.17
35	MP3C	Z	4.936	4.17
36	MP3C	Mx	.004	4.17
37	MP3A	X	1.7	2.75
38	MP3A	Z	2.944	2.75
39	MP3A	Mx	.001	2.75
40	MP3B	X	1.7	2.75
41	MP3B	Z	2.944	2.75
42	MP3B	Mx	.001	2.75
43	MP3C	X	1.239	2.75
44	MP3C	Z	2.146	2.75
45	MP3C	Mx	-.002	2.75
46	MP1A	X	1.641	2.75
47	MP1A	Z	2.842	2.75
48	MP1A	Mx	.001	2.75
49	MP1B	X	1.641	2.75
50	MP1B	Z	2.842	2.75
51	MP1B	Mx	.001	2.75
52	MP1C	X	1.004	2.75
53	MP1C	Z	1.738	2.75
54	MP1C	Mx	-.002	2.75
55	MP2A	X	3.669	.17
56	MP2A	Z	6.355	.17
57	MP2A	Mx	-.002	.17
58	MP2A	X	3.669	4.5
59	MP2A	Z	6.355	4.5
60	MP2A	Mx	-.002	4.5
61	MP2B	X	3.669	.17
62	MP2B	Z	6.355	.17
63	MP2B	Mx	-.002	.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
64	MP2B	X	3.669	4.5
65	MP2B	Z	6.355	4.5
66	MP2B	Mx	-.002	4.5
67	MP2C	X	2.647	.17
68	MP2C	Z	4.585	.17
69	MP2C	Mx	.004	.17
70	MP2C	X	2.647	4.5
71	MP2C	Z	4.585	4.5
72	MP2C	Mx	.004	4.5
73	MP4A	X	1.803	2.33
74	MP4A	Z	3.123	2.33
75	MP4A	Mx	-.000902	2.33
76	MP4A	X	1.803	3.33
77	MP4A	Z	3.123	3.33
78	MP4A	Mx	-.000902	3.33
79	MP4B	X	1.803	2.33
80	MP4B	Z	3.123	2.33
81	MP4B	Mx	-.000902	2.33
82	MP4B	X	1.803	3.33
83	MP4B	Z	3.123	3.33
84	MP4B	Mx	-.000902	3.33
85	MP4C	X	.819	2.33
86	MP4C	Z	1.419	2.33
87	MP4C	Mx	.000819	2.33
88	MP4C	X	.819	3.33
89	MP4C	Z	1.419	3.33
90	MP4C	Mx	.000819	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.33
2	MP1A	Z	12.162	.33
3	MP1A	Mx	0	.33
4	MP1A	X	0	4.17
5	MP1A	Z	12.162	4.17
6	MP1A	Mx	0	4.17
7	MP1B	X	0	.33
8	MP1B	Z	7.315	.33
9	MP1B	Mx	-.004	.33
10	MP1B	X	0	4.17
11	MP1B	Z	7.315	4.17
12	MP1B	Mx	-.004	4.17
13	MP1C	X	0	.33
14	MP1C	Z	7.315	.33
15	MP1C	Mx	.004	.33
16	MP1C	X	0	4.17
17	MP1C	Z	7.315	4.17
18	MP1C	Mx	.004	4.17
19	MP3A	X	0	.33
20	MP3A	Z	12.162	.33
21	MP3A	Mx	0	.33
22	MP3A	X	0	4.17
23	MP3A	Z	12.162	4.17
24	MP3A	Mx	0	4.17
25	MP3B	X	0	.33
26	MP3B	Z	7.315	.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP3B	Mx	-.004	.33
28	MP3B	X	0	4.17
29	MP3B	Z	7.315	4.17
30	MP3B	Mx	-.004	4.17
31	MP3C	X	0	.33
32	MP3C	Z	7.315	.33
33	MP3C	Mx	.004	.33
34	MP3C	X	0	4.17
35	MP3C	Z	7.315	4.17
36	MP3C	Mx	.004	4.17
37	MP3A	X	0	2.75
38	MP3A	Z	3.707	2.75
39	MP3A	Mx	0	2.75
40	MP3B	X	0	2.75
41	MP3B	Z	2.785	2.75
42	MP3B	Mx	.002	2.75
43	MP3C	X	0	2.75
44	MP3C	Z	2.785	2.75
45	MP3C	Mx	-.002	2.75
46	MP1A	X	0	2.75
47	MP1A	Z	3.707	2.75
48	MP1A	Mx	0	2.75
49	MP1B	X	0	2.75
50	MP1B	Z	2.432	2.75
51	MP1B	Mx	.002	2.75
52	MP1C	X	0	2.75
53	MP1C	Z	2.432	2.75
54	MP1C	Mx	-.002	2.75
55	MP2A	X	0	.17
56	MP2A	Z	8.019	.17
57	MP2A	Mx	0	.17
58	MP2A	X	0	4.5
59	MP2A	Z	8.019	4.5
60	MP2A	Mx	0	4.5
61	MP2B	X	0	.17
62	MP2B	Z	5.976	.17
63	MP2B	Mx	-.003	.17
64	MP2B	X	0	4.5
65	MP2B	Z	5.976	4.5
66	MP2B	Mx	-.003	4.5
67	MP2C	X	0	.17
68	MP2C	Z	5.976	.17
69	MP2C	Mx	.003	.17
70	MP2C	X	0	4.5
71	MP2C	Z	5.976	4.5
72	MP2C	Mx	.003	4.5
73	MP4A	X	0	2.33
74	MP4A	Z	4.262	2.33
75	MP4A	Mx	0	2.33
76	MP4A	X	0	3.33
77	MP4A	Z	4.262	3.33
78	MP4A	Mx	0	3.33
79	MP4B	X	0	2.33
80	MP4B	Z	2.294	2.33
81	MP4B	Mx	-.000993	2.33
82	MP4B	X	0	3.33
83	MP4B	Z	2.294	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
84	MP4B	Mx	-.000993	3.33
85	MP4C	X	0	2.33
86	MP4C	Z	2.294	2.33
87	MP4C	Mx	.000993	2.33
88	MP4C	X	0	3.33
89	MP4C	Z	2.294	3.33
90	MP4C	Mx	.000993	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-5.273	.33
2	MP1A	Z	9.133	.33
3	MP1A	Mx	.004	.33
4	MP1A	X	-5.273	4.17
5	MP1A	Z	9.133	4.17
6	MP1A	Mx	.004	4.17
7	MP1B	X	-2.85	.33
8	MP1B	Z	4.936	.33
9	MP1B	Mx	-.004	.33
10	MP1B	X	-2.85	4.17
11	MP1B	Z	4.936	4.17
12	MP1B	Mx	-.004	4.17
13	MP1C	X	-5.273	.33
14	MP1C	Z	9.133	.33
15	MP1C	Mx	.004	.33
16	MP1C	X	-5.273	4.17
17	MP1C	Z	9.133	4.17
18	MP1C	Mx	.004	4.17
19	MP3A	X	-5.273	.33
20	MP3A	Z	9.133	.33
21	MP3A	Mx	.004	.33
22	MP3A	X	-5.273	4.17
23	MP3A	Z	9.133	4.17
24	MP3A	Mx	.004	4.17
25	MP3B	X	-2.85	.33
26	MP3B	Z	4.936	.33
27	MP3B	Mx	-.004	.33
28	MP3B	X	-2.85	4.17
29	MP3B	Z	4.936	4.17
30	MP3B	Mx	-.004	4.17
31	MP3C	X	-5.273	.33
32	MP3C	Z	9.133	.33
33	MP3C	Mx	.004	.33
34	MP3C	X	-5.273	4.17
35	MP3C	Z	9.133	4.17
36	MP3C	Mx	.004	4.17
37	MP3A	X	-1.7	2.75
38	MP3A	Z	2.944	2.75
39	MP3A	Mx	-.001	2.75
40	MP3B	X	-1.239	2.75
41	MP3B	Z	2.146	2.75
42	MP3B	Mx	.002	2.75
43	MP3C	X	-1.7	2.75
44	MP3C	Z	2.944	2.75
45	MP3C	Mx	-.001	2.75
46	MP1A	X	-1.641	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
47	MP1A	Z	2.842	2.75
48	MP1A	Mx	-.001	2.75
49	MP1B	X	-1.004	2.75
50	MP1B	Z	1.738	2.75
51	MP1B	Mx	.002	2.75
52	MP1C	X	-1.641	2.75
53	MP1C	Z	2.842	2.75
54	MP1C	Mx	-.001	2.75
55	MP2A	X	-3.669	.17
56	MP2A	Z	6.355	.17
57	MP2A	Mx	.002	.17
58	MP2A	X	-3.669	4.5
59	MP2A	Z	6.355	4.5
60	MP2A	Mx	.002	4.5
61	MP2B	X	-2.647	.17
62	MP2B	Z	4.585	.17
63	MP2B	Mx	-.004	.17
64	MP2B	X	-2.647	4.5
65	MP2B	Z	4.585	4.5
66	MP2B	Mx	-.004	4.5
67	MP2C	X	-3.669	.17
68	MP2C	Z	6.355	.17
69	MP2C	Mx	.002	.17
70	MP2C	X	-3.669	4.5
71	MP2C	Z	6.355	4.5
72	MP2C	Mx	.002	4.5
73	MP4A	X	-1.803	2.33
74	MP4A	Z	3.123	2.33
75	MP4A	Mx	.000902	2.33
76	MP4A	X	-1.803	3.33
77	MP4A	Z	3.123	3.33
78	MP4A	Mx	.000902	3.33
79	MP4B	X	-.819	2.33
80	MP4B	Z	1.419	2.33
81	MP4B	Mx	-.000819	2.33
82	MP4B	X	-.819	3.33
83	MP4B	Z	1.419	3.33
84	MP4B	Mx	-.000819	3.33
85	MP4C	X	-1.803	2.33
86	MP4C	Z	3.123	2.33
87	MP4C	Mx	.000902	2.33
88	MP4C	X	-1.803	3.33
89	MP4C	Z	3.123	3.33
90	MP4C	Mx	.000902	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-6.335	.33
2	MP1A	Z	3.657	.33
3	MP1A	Mx	.004	.33
4	MP1A	X	-6.335	4.17
5	MP1A	Z	3.657	4.17
6	MP1A	Mx	.004	4.17
7	MP1B	X	-6.335	.33
8	MP1B	Z	3.657	.33
9	MP1B	Mx	-.004	.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP1B	X	-6.335	4.17
11	MP1B	Z	3.657	4.17
12	MP1B	Mx	-.004	4.17
13	MP1C	X	-10.532	.33
14	MP1C	Z	6.081	.33
15	MP1C	Mx	0	.33
16	MP1C	X	-10.532	4.17
17	MP1C	Z	6.081	4.17
18	MP1C	Mx	0	4.17
19	MP3A	X	-6.335	.33
20	MP3A	Z	3.657	.33
21	MP3A	Mx	.004	.33
22	MP3A	X	-6.335	4.17
23	MP3A	Z	3.657	4.17
24	MP3A	Mx	.004	4.17
25	MP3B	X	-6.335	.33
26	MP3B	Z	3.657	.33
27	MP3B	Mx	-.004	.33
28	MP3B	X	-6.335	4.17
29	MP3B	Z	3.657	4.17
30	MP3B	Mx	-.004	4.17
31	MP3C	X	-10.532	.33
32	MP3C	Z	6.081	.33
33	MP3C	Mx	0	.33
34	MP3C	X	-10.532	4.17
35	MP3C	Z	6.081	4.17
36	MP3C	Mx	0	4.17
37	MP3A	X	-2.412	2.75
38	MP3A	Z	1.393	2.75
39	MP3A	Mx	-.002	2.75
40	MP3B	X	-2.412	2.75
41	MP3B	Z	1.393	2.75
42	MP3B	Mx	.002	2.75
43	MP3C	X	-3.21	2.75
44	MP3C	Z	1.854	2.75
45	MP3C	Mx	-1e-6	2.75
46	MP1A	X	-2.106	2.75
47	MP1A	Z	1.216	2.75
48	MP1A	Mx	-.002	2.75
49	MP1B	X	-2.106	2.75
50	MP1B	Z	1.216	2.75
51	MP1B	Mx	.002	2.75
52	MP1C	X	-3.21	2.75
53	MP1C	Z	1.854	2.75
54	MP1C	Mx	0	2.75
55	MP2A	X	-5.175	.17
56	MP2A	Z	2.988	.17
57	MP2A	Mx	.003	.17
58	MP2A	X	-5.175	4.5
59	MP2A	Z	2.988	4.5
60	MP2A	Mx	.003	4.5
61	MP2B	X	-5.175	.17
62	MP2B	Z	2.988	.17
63	MP2B	Mx	-.003	.17
64	MP2B	X	-5.175	4.5
65	MP2B	Z	2.988	4.5
66	MP2B	Mx	-.003	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
67	MP2C	X	-6.944	.17
68	MP2C	Z	4.009	.17
69	MP2C	Mx	0	.17
70	MP2C	X	-6.944	4.5
71	MP2C	Z	4.009	4.5
72	MP2C	Mx	0	4.5
73	MP4A	X	-1.987	2.33
74	MP4A	Z	1.147	2.33
75	MP4A	Mx	.000994	2.33
76	MP4A	X	-1.987	3.33
77	MP4A	Z	1.147	3.33
78	MP4A	Mx	.000994	3.33
79	MP4B	X	-1.987	2.33
80	MP4B	Z	1.147	2.33
81	MP4B	Mx	-.000993	2.33
82	MP4B	X	-1.987	3.33
83	MP4B	Z	1.147	3.33
84	MP4B	Mx	-.000993	3.33
85	MP4C	X	-3.691	2.33
86	MP4C	Z	2.131	2.33
87	MP4C	Mx	0	2.33
88	MP4C	X	-3.691	3.33
89	MP4C	Z	2.131	3.33
90	MP4C	Mx	0	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-5.699	.33
2	MP1A	Z	0	.33
3	MP1A	Mx	.004	.33
4	MP1A	X	-5.699	4.17
5	MP1A	Z	0	4.17
6	MP1A	Mx	.004	4.17
7	MP1B	X	-10.546	.33
8	MP1B	Z	0	.33
9	MP1B	Mx	-.004	.33
10	MP1B	X	-10.546	4.17
11	MP1B	Z	0	4.17
12	MP1B	Mx	-.004	4.17
13	MP1C	X	-10.546	.33
14	MP1C	Z	0	.33
15	MP1C	Mx	-.004	.33
16	MP1C	X	-10.546	4.17
17	MP1C	Z	0	4.17
18	MP1C	Mx	-.004	4.17
19	MP3A	X	-5.699	.33
20	MP3A	Z	0	.33
21	MP3A	Mx	.004	.33
22	MP3A	X	-5.699	4.17
23	MP3A	Z	0	4.17
24	MP3A	Mx	.004	4.17
25	MP3B	X	-10.546	.33
26	MP3B	Z	0	.33
27	MP3B	Mx	-.004	.33
28	MP3B	X	-10.546	4.17
29	MP3B	Z	0	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP3B	Mx	-.004	4.17
31	MP3C	X	-10.546	.33
32	MP3C	Z	0	.33
33	MP3C	Mx	-.004	.33
34	MP3C	X	-10.546	4.17
35	MP3C	Z	0	4.17
36	MP3C	Mx	-.004	4.17
37	MP3A	X	-2.478	2.75
38	MP3A	Z	0	2.75
39	MP3A	Mx	-.002	2.75
40	MP3B	X	-3.4	2.75
41	MP3B	Z	0	2.75
42	MP3B	Mx	.001	2.75
43	MP3C	X	-3.4	2.75
44	MP3C	Z	0	2.75
45	MP3C	Mx	.001	2.75
46	MP1A	X	-2.007	2.75
47	MP1A	Z	0	2.75
48	MP1A	Mx	-.002	2.75
49	MP1B	X	-3.282	2.75
50	MP1B	Z	0	2.75
51	MP1B	Mx	.001	2.75
52	MP1C	X	-3.282	2.75
53	MP1C	Z	0	2.75
54	MP1C	Mx	.001	2.75
55	MP2A	X	-5.295	.17
56	MP2A	Z	0	.17
57	MP2A	Mx	.004	.17
58	MP2A	X	-5.295	4.5
59	MP2A	Z	0	4.5
60	MP2A	Mx	.004	4.5
61	MP2B	X	-7.338	.17
62	MP2B	Z	0	.17
63	MP2B	Mx	-.002	.17
64	MP2B	X	-7.338	4.5
65	MP2B	Z	0	4.5
66	MP2B	Mx	-.002	4.5
67	MP2C	X	-7.338	.17
68	MP2C	Z	0	.17
69	MP2C	Mx	-.002	.17
70	MP2C	X	-7.338	4.5
71	MP2C	Z	0	4.5
72	MP2C	Mx	-.002	4.5
73	MP4A	X	-1.638	2.33
74	MP4A	Z	0	2.33
75	MP4A	Mx	.000819	2.33
76	MP4A	X	-1.638	3.33
77	MP4A	Z	0	3.33
78	MP4A	Mx	.000819	3.33
79	MP4B	X	-3.606	2.33
80	MP4B	Z	0	2.33
81	MP4B	Mx	-.000902	2.33
82	MP4B	X	-3.606	3.33
83	MP4B	Z	0	3.33
84	MP4B	Mx	-.000902	3.33
85	MP4C	X	-3.606	2.33
86	MP4C	Z	0	2.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
87	MP4C	Mx	-.000902	2.33
88	MP4C	X	-3.606	3.33
89	MP4C	Z	0	3.33
90	MP4C	Mx	-.000902	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-6.335	.33
2	MP1A	Z	-3.657	.33
3	MP1A	Mx	.004	.33
4	MP1A	X	-6.335	4.17
5	MP1A	Z	-3.657	4.17
6	MP1A	Mx	.004	4.17
7	MP1B	X	-10.532	.33
8	MP1B	Z	-6.081	.33
9	MP1B	Mx	0	.33
10	MP1B	X	-10.532	4.17
11	MP1B	Z	-6.081	4.17
12	MP1B	Mx	0	4.17
13	MP1C	X	-6.335	.33
14	MP1C	Z	-3.657	.33
15	MP1C	Mx	-.004	.33
16	MP1C	X	-6.335	4.17
17	MP1C	Z	-3.657	4.17
18	MP1C	Mx	-.004	4.17
19	MP3A	X	-6.335	.33
20	MP3A	Z	-3.657	.33
21	MP3A	Mx	.004	.33
22	MP3A	X	-6.335	4.17
23	MP3A	Z	-3.657	4.17
24	MP3A	Mx	.004	4.17
25	MP3B	X	-10.532	.33
26	MP3B	Z	-6.081	.33
27	MP3B	Mx	0	.33
28	MP3B	X	-10.532	4.17
29	MP3B	Z	-6.081	4.17
30	MP3B	Mx	0	4.17
31	MP3C	X	-6.335	.33
32	MP3C	Z	-3.657	.33
33	MP3C	Mx	-.004	.33
34	MP3C	X	-6.335	4.17
35	MP3C	Z	-3.657	4.17
36	MP3C	Mx	-.004	4.17
37	MP3A	X	-2.412	2.75
38	MP3A	Z	-1.393	2.75
39	MP3A	Mx	-.002	2.75
40	MP3B	X	-3.21	2.75
41	MP3B	Z	-1.854	2.75
42	MP3B	Mx	-1e-6	2.75
43	MP3C	X	-2.412	2.75
44	MP3C	Z	-1.393	2.75
45	MP3C	Mx	.002	2.75
46	MP1A	X	-2.106	2.75
47	MP1A	Z	-1.216	2.75
48	MP1A	Mx	-.002	2.75
49	MP1B	X	-3.21	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
50	MP1B	Z	-1.854	2.75
51	MP1B	Mx	0	2.75
52	MP1C	X	-2.106	2.75
53	MP1C	Z	-1.216	2.75
54	MP1C	Mx	.002	2.75
55	MP2A	X	-5.175	.17
56	MP2A	Z	-2.988	.17
57	MP2A	Mx	.003	.17
58	MP2A	X	-5.175	4.5
59	MP2A	Z	-2.988	4.5
60	MP2A	Mx	.003	4.5
61	MP2B	X	-6.944	.17
62	MP2B	Z	-4.009	.17
63	MP2B	Mx	0	.17
64	MP2B	X	-6.944	4.5
65	MP2B	Z	-4.009	4.5
66	MP2B	Mx	0	4.5
67	MP2C	X	-5.175	.17
68	MP2C	Z	-2.988	.17
69	MP2C	Mx	-.003	.17
70	MP2C	X	-5.175	4.5
71	MP2C	Z	-2.988	4.5
72	MP2C	Mx	-.003	4.5
73	MP4A	X	-1.987	2.33
74	MP4A	Z	-1.147	2.33
75	MP4A	Mx	.000994	2.33
76	MP4A	X	-1.987	3.33
77	MP4A	Z	-1.147	3.33
78	MP4A	Mx	.000994	3.33
79	MP4B	X	-3.691	2.33
80	MP4B	Z	-2.131	2.33
81	MP4B	Mx	0	2.33
82	MP4B	X	-3.691	3.33
83	MP4B	Z	-2.131	3.33
84	MP4B	Mx	0	3.33
85	MP4C	X	-1.987	2.33
86	MP4C	Z	-1.147	2.33
87	MP4C	Mx	-.000993	2.33
88	MP4C	X	-1.987	3.33
89	MP4C	Z	-1.147	3.33
90	MP4C	Mx	-.000993	3.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-5.273	.33
2	MP1A	Z	-9.133	.33
3	MP1A	Mx	.004	.33
4	MP1A	X	-5.273	4.17
5	MP1A	Z	-9.133	4.17
6	MP1A	Mx	.004	4.17
7	MP1B	X	-5.273	.33
8	MP1B	Z	-9.133	.33
9	MP1B	Mx	.004	.33
10	MP1B	X	-5.273	4.17
11	MP1B	Z	-9.133	4.17
12	MP1B	Mx	.004	4.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP1C	X	-2.85	.33
14	MP1C	Z	-4.936	.33
15	MP1C	Mx	-.004	.33
16	MP1C	X	-2.85	4.17
17	MP1C	Z	-4.936	4.17
18	MP1C	Mx	-.004	4.17
19	MP3A	X	-5.273	.33
20	MP3A	Z	-9.133	.33
21	MP3A	Mx	.004	.33
22	MP3A	X	-5.273	4.17
23	MP3A	Z	-9.133	4.17
24	MP3A	Mx	.004	4.17
25	MP3B	X	-5.273	.33
26	MP3B	Z	-9.133	.33
27	MP3B	Mx	.004	.33
28	MP3B	X	-5.273	4.17
29	MP3B	Z	-9.133	4.17
30	MP3B	Mx	.004	4.17
31	MP3C	X	-2.85	.33
32	MP3C	Z	-4.936	.33
33	MP3C	Mx	-.004	.33
34	MP3C	X	-2.85	4.17
35	MP3C	Z	-4.936	4.17
36	MP3C	Mx	-.004	4.17
37	MP3A	X	-1.7	2.75
38	MP3A	Z	-2.944	2.75
39	MP3A	Mx	-.001	2.75
40	MP3B	X	-1.7	2.75
41	MP3B	Z	-2.944	2.75
42	MP3B	Mx	-.001	2.75
43	MP3C	X	-1.239	2.75
44	MP3C	Z	-2.146	2.75
45	MP3C	Mx	.002	2.75
46	MP1A	X	-1.641	2.75
47	MP1A	Z	-2.842	2.75
48	MP1A	Mx	-.001	2.75
49	MP1B	X	-1.641	2.75
50	MP1B	Z	-2.842	2.75
51	MP1B	Mx	-.001	2.75
52	MP1C	X	-1.004	2.75
53	MP1C	Z	-1.738	2.75
54	MP1C	Mx	.002	2.75
55	MP2A	X	-3.669	.17
56	MP2A	Z	-6.355	.17
57	MP2A	Mx	.002	.17
58	MP2A	X	-3.669	4.5
59	MP2A	Z	-6.355	4.5
60	MP2A	Mx	.002	4.5
61	MP2B	X	-3.669	.17
62	MP2B	Z	-6.355	.17
63	MP2B	Mx	.002	.17
64	MP2B	X	-3.669	4.5
65	MP2B	Z	-6.355	4.5
66	MP2B	Mx	.002	4.5
67	MP2C	X	-2.647	.17
68	MP2C	Z	-4.585	.17
69	MP2C	Mx	-.004	.17

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
70	MP2C	X	-2.647	4.5
71	MP2C	Z	-4.585	4.5
72	MP2C	Mx	-.004	4.5
73	MP4A	X	-1.803	2.33
74	MP4A	Z	-3.123	2.33
75	MP4A	Mx	.000902	2.33
76	MP4A	X	-1.803	3.33
77	MP4A	Z	-3.123	3.33
78	MP4A	Mx	.000902	3.33
79	MP4B	X	-1.803	2.33
80	MP4B	Z	-3.123	2.33
81	MP4B	Mx	.000902	2.33
82	MP4B	X	-1.803	3.33
83	MP4B	Z	-3.123	3.33
84	MP4B	Mx	.000902	3.33
85	MP4C	X	-.819	2.33
86	MP4C	Z	-1.419	2.33
87	MP4C	Mx	-.000819	2.33
88	MP4C	X	-.819	3.33
89	MP4C	Z	-1.419	3.33
90	MP4C	Mx	-.000819	3.33

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%68

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%32

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

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

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-10.738	-10.738	0	%100
2	M4	Y	-15.199	-15.199	0	%100
3	M10	Y	-15.199	-15.199	0	%100
4	MP4A	Y	-8.412	-8.412	0	%100
5	M43	Y	-15.199	-15.199	0	%100
6	M46	Y	-15.952	-15.952	0	%100
7	M51B	Y	-9.35	-9.35	0	%100
8	M52B	Y	-9.35	-9.35	0	%100
9	M76	Y	-15.933	-15.933	0	%100
10	M77	Y	-15.933	-15.933	0	%100
11	M80	Y	-15.952	-15.952	0	%100
12	M84	Y	-15.933	-15.933	0	%100
13	M85	Y	-15.933	-15.933	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,%]
14	M91	Y	-15.952	-15.952	0	%100
15	M34	Y	-15.199	-15.199	0	%100
16	M35	Y	-15.199	-15.199	0	%100
17	M36	Y	-15.199	-15.199	0	%100
18	M37	Y	-15.952	-15.952	0	%100
19	M40	Y	-9.35	-9.35	0	%100
20	M41	Y	-9.35	-9.35	0	%100
21	M45	Y	-15.933	-15.933	0	%100
22	M46A	Y	-15.933	-15.933	0	%100
23	M48	Y	-15.952	-15.952	0	%100
24	M50A	Y	-15.933	-15.933	0	%100
25	M51C	Y	-15.933	-15.933	0	%100
26	M53	Y	-15.952	-15.952	0	%100
27	M58A	Y	-15.199	-15.199	0	%100
28	M59A	Y	-15.199	-15.199	0	%100
29	M60	Y	-15.199	-15.199	0	%100
30	M61	Y	-15.952	-15.952	0	%100
31	M64	Y	-9.35	-9.35	0	%100
32	M65	Y	-9.35	-9.35	0	%100
33	M69	Y	-15.933	-15.933	0	%100
34	M70	Y	-15.933	-15.933	0	%100
35	M72	Y	-15.952	-15.952	0	%100
36	M74	Y	-15.933	-15.933	0	%100
37	M75	Y	-15.933	-15.933	0	%100
38	M77A	Y	-15.952	-15.952	0	%100
39	MP3A	Y	-8.412	-8.412	0	%100
40	MP2A	Y	-8.412	-8.412	0	%100
41	MP1A	Y	-8.412	-8.412	0	%100
42	M82	Y	-10.738	-10.738	0	%100
43	MP4C	Y	-8.412	-8.412	0	%100
44	MP3C	Y	-8.412	-8.412	0	%100
45	MP2C	Y	-8.412	-8.412	0	%100
46	MP1C	Y	-8.412	-8.412	0	%100
47	M91A	Y	-10.738	-10.738	0	%100
48	MP4B	Y	-8.412	-8.412	0	%100
49	MP3B	Y	-8.412	-8.412	0	%100
50	MP2B	Y	-8.412	-8.412	0	%100
51	MP1B	Y	-8.412	-8.412	0	%100
52	M100	Y	-10.738	-10.738	0	%100
53	M105	Y	-10.738	-10.738	0	%100
54	M110	Y	-10.738	-10.738	0	%100
55	M115	Y	-10.812	-10.812	0	%100
56	M116	Y	-10.812	-10.812	0	%100
57	M117	Y	-10.812	-10.812	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-10.734	-10.734	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-10.027	-10.027	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	-6.339	-6.339	0	%100
9	M43	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,%]
10	M43	Z	-10.027	-10.027	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	-18.402	-18.402	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	-2.555	-2.555	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	-2.555	-2.555	0	%100
17	M76	X	0	0	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	-4.686	-4.686	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	-4.935	-4.935	0	%100
23	M84	X	0	0	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	-4.686	-4.686	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	-4.935	-4.935	0	%100
29	M34	X	0	0	0	%100
30	M34	Z	-8.919	-8.919	0	%100
31	M35	X	0	0	0	%100
32	M35	Z	-2.507	-2.507	0	%100
33	M36	X	0	0	0	%100
34	M36	Z	-2.507	-2.507	0	%100
35	M37	X	0	0	0	%100
36	M37	Z	-4.6	-4.6	0	%100
37	M40	X	0	0	0	%100
38	M40	Z	-2.555	-2.555	0	%100
39	M41	X	0	0	0	%100
40	M41	Z	-10.218	-10.218	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	-13.801	-13.801	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	-4.686	-4.686	0	%100
45	M48	X	0	0	0	%100
46	M48	Z	-4.935	-4.935	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	-13.801	-13.801	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	-18.742	-18.742	0	%100
51	M53	X	0	0	0	%100
52	M53	Z	-19.741	-19.741	0	%100
53	M58A	X	0	0	0	%100
54	M58A	Z	-8.919	-8.919	0	%100
55	M59A	X	0	0	0	%100
56	M59A	Z	-2.507	-2.507	0	%100
57	M60	X	0	0	0	%100
58	M60	Z	-2.507	-2.507	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	-4.6	-4.6	0	%100
61	M64	X	0	0	0	%100
62	M64	Z	-10.218	-10.218	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	-2.555	-2.555	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	-13.801	-13.801	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,%]
67	M70	X	0	0	0	%100
68	M70	Z	-18.742	-18.742	0	%100
69	M72	X	0	0	0	%100
70	M72	Z	-19.741	-19.741	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	-13.801	-13.801	0	%100
73	M75	X	0	0	0	%100
74	M75	Z	-4.686	-4.686	0	%100
75	M77A	X	0	0	0	%100
76	M77A	Z	-4.935	-4.935	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	-6.339	-6.339	0	%100
79	MP2A	X	0	0	0	%100
80	MP2A	Z	-6.339	-6.339	0	%100
81	MP1A	X	0	0	0	%100
82	MP1A	Z	-6.339	-6.339	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	-2.684	-2.684	0	%100
85	MP4C	X	0	0	0	%100
86	MP4C	Z	-6.339	-6.339	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	-6.339	-6.339	0	%100
89	MP2C	X	0	0	0	%100
90	MP2C	Z	-6.339	-6.339	0	%100
91	MP1C	X	0	0	0	%100
92	MP1C	Z	-6.339	-6.339	0	%100
93	M91A	X	0	0	0	%100
94	M91A	Z	-2.684	-2.684	0	%100
95	MP4B	X	0	0	0	%100
96	MP4B	Z	-6.339	-6.339	0	%100
97	MP3B	X	0	0	0	%100
98	MP3B	Z	-6.339	-6.339	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	-6.339	-6.339	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	-6.339	-6.339	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	-10.734	-10.734	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	-2.684	-2.684	0	%100
107	M110	X	0	0	0	%100
108	M110	Z	-2.684	-2.684	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	-2.122	-2.122	0	%100
111	M116	X	0	0	0	%100
112	M116	Z	-8.489	-8.489	0	%100
113	M117	X	0	0	0	%100
114	M117	Z	-2.122	-2.122	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	4.025	4.025	0	%100
2	M1	Z	-6.972	-6.972	0	%100
3	M4	X	1.486	1.486	0	%100
4	M4	Z	-2.575	-2.575	0	%100
5	M10	X	3.76	3.76	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,%]
6	M10	Z	-6.513	-6.513	0	%100
7	MP4A	X	3.288	3.288	0	%100
8	MP4A	Z	-5.695	-5.695	0	%100
9	M43	X	3.76	3.76	0	%100
10	M43	Z	-6.513	-6.513	0	%100
11	M46	X	6.901	6.901	0	%100
12	M46	Z	-11.952	-11.952	0	%100
13	M51B	X	3.832	3.832	0	%100
14	M51B	Z	-6.637	-6.637	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	2.3	2.3	0	%100
18	M76	Z	-3.984	-3.984	0	%100
19	M77	X	7.028	7.028	0	%100
20	M77	Z	-12.174	-12.174	0	%100
21	M80	X	7.403	7.403	0	%100
22	M80	Z	-12.822	-12.822	0	%100
23	M84	X	2.3	2.3	0	%100
24	M84	Z	-3.984	-3.984	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	0	0	0	%100
29	M34	X	1.486	1.486	0	%100
30	M34	Z	-2.575	-2.575	0	%100
31	M35	X	3.76	3.76	0	%100
32	M35	Z	-6.513	-6.513	0	%100
33	M36	X	3.76	3.76	0	%100
34	M36	Z	-6.513	-6.513	0	%100
35	M37	X	6.901	6.901	0	%100
36	M37	Z	-11.952	-11.952	0	%100
37	M40	X	0	0	0	%100
38	M40	Z	0	0	0	%100
39	M41	X	3.832	3.832	0	%100
40	M41	Z	-6.637	-6.637	0	%100
41	M45	X	2.3	2.3	0	%100
42	M45	Z	-3.984	-3.984	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	0	0	0	%100
45	M48	X	0	0	0	%100
46	M48	Z	0	0	0	%100
47	M50A	X	2.3	2.3	0	%100
48	M50A	Z	-3.984	-3.984	0	%100
49	M51C	X	7.028	7.028	0	%100
50	M51C	Z	-12.174	-12.174	0	%100
51	M53	X	7.403	7.403	0	%100
52	M53	Z	-12.822	-12.822	0	%100
53	M58A	X	5.946	5.946	0	%100
54	M58A	Z	-10.298	-10.298	0	%100
55	M59A	X	0	0	0	%100
56	M59A	Z	0	0	0	%100
57	M60	X	0	0	0	%100
58	M60	Z	0	0	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	0	0	0	%100
61	M64	X	3.832	3.832	0	%100
62	M64	Z	-6.637	-6.637	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,%]
63	M65	X	3.832	3.832	0	%100
64	M65	Z	-6.637	-6.637	0	%100
65	M69	X	9.201	9.201	0	%100
66	M69	Z	-15.936	-15.936	0	%100
67	M70	X	7.028	7.028	0	%100
68	M70	Z	-12.174	-12.174	0	%100
69	M72	X	7.403	7.403	0	%100
70	M72	Z	-12.822	-12.822	0	%100
71	M74	X	9.201	9.201	0	%100
72	M74	Z	-15.936	-15.936	0	%100
73	M75	X	7.028	7.028	0	%100
74	M75	Z	-12.174	-12.174	0	%100
75	M77A	X	7.403	7.403	0	%100
76	M77A	Z	-12.822	-12.822	0	%100
77	MP3A	X	3.288	3.288	0	%100
78	MP3A	Z	-5.695	-5.695	0	%100
79	MP2A	X	3.288	3.288	0	%100
80	MP2A	Z	-5.695	-5.695	0	%100
81	MP1A	X	3.288	3.288	0	%100
82	MP1A	Z	-5.695	-5.695	0	%100
83	M82	X	4.025	4.025	0	%100
84	M82	Z	-6.972	-6.972	0	%100
85	MP4C	X	3.288	3.288	0	%100
86	MP4C	Z	-5.695	-5.695	0	%100
87	MP3C	X	3.288	3.288	0	%100
88	MP3C	Z	-5.695	-5.695	0	%100
89	MP2C	X	3.288	3.288	0	%100
90	MP2C	Z	-5.695	-5.695	0	%100
91	MP1C	X	3.288	3.288	0	%100
92	MP1C	Z	-5.695	-5.695	0	%100
93	M91A	X	0	0	0	%100
94	M91A	Z	0	0	0	%100
95	MP4B	X	3.288	3.288	0	%100
96	MP4B	Z	-5.695	-5.695	0	%100
97	MP3B	X	3.288	3.288	0	%100
98	MP3B	Z	-5.695	-5.695	0	%100
99	MP2B	X	3.288	3.288	0	%100
100	MP2B	Z	-5.695	-5.695	0	%100
101	MP1B	X	3.288	3.288	0	%100
102	MP1B	Z	-5.695	-5.695	0	%100
103	M100	X	4.025	4.025	0	%100
104	M100	Z	-6.972	-6.972	0	%100
105	M105	X	4.025	4.025	0	%100
106	M105	Z	-6.972	-6.972	0	%100
107	M110	X	0	0	0	%100
108	M110	Z	0	0	0	%100
109	M115	X	3.183	3.183	0	%100
110	M115	Z	-5.513	-5.513	0	%100
111	M116	X	3.183	3.183	0	%100
112	M116	Z	-5.513	-5.513	0	%100
113	M117	X	0	0	0	%100
114	M117	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	M1	X	2.324	2.324	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,%]
2	M1	Z	-1.342	-1.342	0	%100
3	M4	X	7.724	7.724	0	%100
4	M4	Z	-4.459	-4.459	0	%100
5	M10	X	2.171	2.171	0	%100
6	M10	Z	-1.253	-1.253	0	%100
7	MP4A	X	6.104	6.104	0	%100
8	MP4A	Z	-3.524	-3.524	0	%100
9	M43	X	2.171	2.171	0	%100
10	M43	Z	-1.253	-1.253	0	%100
11	M46	X	3.984	3.984	0	%100
12	M46	Z	-2.3	-2.3	0	%100
13	M51B	X	8.849	8.849	0	%100
14	M51B	Z	-5.109	-5.109	0	%100
15	M52B	X	2.212	2.212	0	%100
16	M52B	Z	-1.277	-1.277	0	%100
17	M76	X	11.952	11.952	0	%100
18	M76	Z	-6.901	-6.901	0	%100
19	M77	X	16.231	16.231	0	%100
20	M77	Z	-9.371	-9.371	0	%100
21	M80	X	17.096	17.096	0	%100
22	M80	Z	-9.871	-9.871	0	%100
23	M84	X	11.952	11.952	0	%100
24	M84	Z	-6.901	-6.901	0	%100
25	M85	X	4.058	4.058	0	%100
26	M85	Z	-2.343	-2.343	0	%100
27	M91	X	4.274	4.274	0	%100
28	M91	Z	-2.468	-2.468	0	%100
29	M34	X	0	0	0	%100
30	M34	Z	0	0	0	%100
31	M35	X	8.684	8.684	0	%100
32	M35	Z	-5.014	-5.014	0	%100
33	M36	X	8.684	8.684	0	%100
34	M36	Z	-5.014	-5.014	0	%100
35	M37	X	15.936	15.936	0	%100
36	M37	Z	-9.201	-9.201	0	%100
37	M40	X	2.212	2.212	0	%100
38	M40	Z	-1.277	-1.277	0	%100
39	M41	X	2.212	2.212	0	%100
40	M41	Z	-1.277	-1.277	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	4.058	4.058	0	%100
44	M46A	Z	-2.343	-2.343	0	%100
45	M48	X	4.274	4.274	0	%100
46	M48	Z	-2.468	-2.468	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	4.058	4.058	0	%100
50	M51C	Z	-2.343	-2.343	0	%100
51	M53	X	4.274	4.274	0	%100
52	M53	Z	-2.468	-2.468	0	%100
53	M58A	X	7.724	7.724	0	%100
54	M58A	Z	-4.459	-4.459	0	%100
55	M59A	X	2.171	2.171	0	%100
56	M59A	Z	-1.253	-1.253	0	%100
57	M60	X	2.171	2.171	0	%100
58	M60	Z	-1.253	-1.253	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,%]
59	M61	X	3.984	3.984	0	%100
60	M61	Z	-2.3	-2.3	0	%100
61	M64	X	2.212	2.212	0	%100
62	M64	Z	-1.277	-1.277	0	%100
63	M65	X	8.849	8.849	0	%100
64	M65	Z	-5.109	-5.109	0	%100
65	M69	X	11.952	11.952	0	%100
66	M69	Z	-6.901	-6.901	0	%100
67	M70	X	4.058	4.058	0	%100
68	M70	Z	-2.343	-2.343	0	%100
69	M72	X	4.274	4.274	0	%100
70	M72	Z	-2.468	-2.468	0	%100
71	M74	X	11.952	11.952	0	%100
72	M74	Z	-6.901	-6.901	0	%100
73	M75	X	16.231	16.231	0	%100
74	M75	Z	-9.371	-9.371	0	%100
75	M77A	X	17.096	17.096	0	%100
76	M77A	Z	-9.871	-9.871	0	%100
77	MP3A	X	6.104	6.104	0	%100
78	MP3A	Z	-3.524	-3.524	0	%100
79	MP2A	X	6.104	6.104	0	%100
80	MP2A	Z	-3.524	-3.524	0	%100
81	MP1A	X	6.104	6.104	0	%100
82	MP1A	Z	-3.524	-3.524	0	%100
83	M82	X	9.296	9.296	0	%100
84	M82	Z	-5.367	-5.367	0	%100
85	MP4C	X	6.104	6.104	0	%100
86	MP4C	Z	-3.524	-3.524	0	%100
87	MP3C	X	6.104	6.104	0	%100
88	MP3C	Z	-3.524	-3.524	0	%100
89	MP2C	X	6.104	6.104	0	%100
90	MP2C	Z	-3.524	-3.524	0	%100
91	MP1C	X	6.104	6.104	0	%100
92	MP1C	Z	-3.524	-3.524	0	%100
93	M91A	X	2.324	2.324	0	%100
94	M91A	Z	-1.342	-1.342	0	%100
95	MP4B	X	6.104	6.104	0	%100
96	MP4B	Z	-3.524	-3.524	0	%100
97	MP3B	X	6.104	6.104	0	%100
98	MP3B	Z	-3.524	-3.524	0	%100
99	MP2B	X	6.104	6.104	0	%100
100	MP2B	Z	-3.524	-3.524	0	%100
101	MP1B	X	6.104	6.104	0	%100
102	MP1B	Z	-3.524	-3.524	0	%100
103	M100	X	2.324	2.324	0	%100
104	M100	Z	-1.342	-1.342	0	%100
105	M105	X	9.296	9.296	0	%100
106	M105	Z	-5.367	-5.367	0	%100
107	M110	X	2.324	2.324	0	%100
108	M110	Z	-1.342	-1.342	0	%100
109	M115	X	7.351	7.351	0	%100
110	M115	Z	-4.244	-4.244	0	%100
111	M116	X	1.838	1.838	0	%100
112	M116	Z	-1.061	-1.061	0	%100
113	M117	X	1.838	1.838	0	%100
114	M117	Z	-1.061	-1.061	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	11.892	11.892	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP4A	X	7.284	7.284	0	%100
8	MP4A	Z	0	0	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	0	0	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	0	0	0	%100
13	M51B	X	7.664	7.664	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	7.664	7.664	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	18.402	18.402	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	14.057	14.057	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	14.806	14.806	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	18.402	18.402	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	14.057	14.057	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	14.806	14.806	0	%100
28	M91	Z	0	0	0	%100
29	M34	X	2.973	2.973	0	%100
30	M34	Z	0	0	0	%100
31	M35	X	7.52	7.52	0	%100
32	M35	Z	0	0	0	%100
33	M36	X	7.52	7.52	0	%100
34	M36	Z	0	0	0	%100
35	M37	X	13.801	13.801	0	%100
36	M37	Z	0	0	0	%100
37	M40	X	7.664	7.664	0	%100
38	M40	Z	0	0	0	%100
39	M41	X	0	0	0	%100
40	M41	Z	0	0	0	%100
41	M45	X	4.6	4.6	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	14.057	14.057	0	%100
44	M46A	Z	0	0	0	%100
45	M48	X	14.806	14.806	0	%100
46	M48	Z	0	0	0	%100
47	M50A	X	4.6	4.6	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	0	0	0	%100
51	M53	X	0	0	0	%100
52	M53	Z	0	0	0	%100
53	M58A	X	2.973	2.973	0	%100
54	M58A	Z	0	0	0	%100
55	M59A	X	7.52	7.52	0	%100
56	M59A	Z	0	0	0	%100
57	M60	X	7.52	7.52	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,%]
58	M60	Z	0	0	0	%100
59	M61	X	13.801	13.801	0	%100
60	M61	Z	0	0	0	%100
61	M64	X	0	0	0	%100
62	M64	Z	0	0	0	%100
63	M65	X	7.664	7.664	0	%100
64	M65	Z	0	0	0	%100
65	M69	X	4.6	4.6	0	%100
66	M69	Z	0	0	0	%100
67	M70	X	0	0	0	%100
68	M70	Z	0	0	0	%100
69	M72	X	0	0	0	%100
70	M72	Z	0	0	0	%100
71	M74	X	4.6	4.6	0	%100
72	M74	Z	0	0	0	%100
73	M75	X	14.057	14.057	0	%100
74	M75	Z	0	0	0	%100
75	M77A	X	14.806	14.806	0	%100
76	M77A	Z	0	0	0	%100
77	MP3A	X	7.284	7.284	0	%100
78	MP3A	Z	0	0	0	%100
79	MP2A	X	7.284	7.284	0	%100
80	MP2A	Z	0	0	0	%100
81	MP1A	X	7.284	7.284	0	%100
82	MP1A	Z	0	0	0	%100
83	M82	X	8.051	8.051	0	%100
84	M82	Z	0	0	0	%100
85	MP4C	X	7.284	7.284	0	%100
86	MP4C	Z	0	0	0	%100
87	MP3C	X	7.284	7.284	0	%100
88	MP3C	Z	0	0	0	%100
89	MP2C	X	7.284	7.284	0	%100
90	MP2C	Z	0	0	0	%100
91	MP1C	X	7.284	7.284	0	%100
92	MP1C	Z	0	0	0	%100
93	M91A	X	8.051	8.051	0	%100
94	M91A	Z	0	0	0	%100
95	MP4B	X	7.284	7.284	0	%100
96	MP4B	Z	0	0	0	%100
97	MP3B	X	7.284	7.284	0	%100
98	MP3B	Z	0	0	0	%100
99	MP2B	X	7.284	7.284	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	7.284	7.284	0	%100
102	MP1B	Z	0	0	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	0	0	0	%100
105	M105	X	8.051	8.051	0	%100
106	M105	Z	0	0	0	%100
107	M110	X	8.051	8.051	0	%100
108	M110	Z	0	0	0	%100
109	M115	X	6.366	6.366	0	%100
110	M115	Z	0	0	0	%100
111	M116	X	0	0	0	%100
112	M116	Z	0	0	0	%100
113	M117	X	6.366	6.366	0	%100
114	M117	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.324	2.324	0	%100
2	M1	Z	1.342	1.342	0	%100
3	M4	X	7.724	7.724	0	%100
4	M4	Z	4.459	4.459	0	%100
5	M10	X	2.171	2.171	0	%100
6	M10	Z	1.253	1.253	0	%100
7	MP4A	X	6.104	6.104	0	%100
8	MP4A	Z	3.524	3.524	0	%100
9	M43	X	2.171	2.171	0	%100
10	M43	Z	1.253	1.253	0	%100
11	M46	X	3.984	3.984	0	%100
12	M46	Z	2.3	2.3	0	%100
13	M51B	X	2.212	2.212	0	%100
14	M51B	Z	1.277	1.277	0	%100
15	M52B	X	8.849	8.849	0	%100
16	M52B	Z	5.109	5.109	0	%100
17	M76	X	11.952	11.952	0	%100
18	M76	Z	6.901	6.901	0	%100
19	M77	X	4.058	4.058	0	%100
20	M77	Z	2.343	2.343	0	%100
21	M80	X	4.274	4.274	0	%100
22	M80	Z	2.468	2.468	0	%100
23	M84	X	11.952	11.952	0	%100
24	M84	Z	6.901	6.901	0	%100
25	M85	X	16.231	16.231	0	%100
26	M85	Z	9.371	9.371	0	%100
27	M91	X	17.096	17.096	0	%100
28	M91	Z	9.871	9.871	0	%100
29	M34	X	7.724	7.724	0	%100
30	M34	Z	4.459	4.459	0	%100
31	M35	X	2.171	2.171	0	%100
32	M35	Z	1.253	1.253	0	%100
33	M36	X	2.171	2.171	0	%100
34	M36	Z	1.253	1.253	0	%100
35	M37	X	3.984	3.984	0	%100
36	M37	Z	2.3	2.3	0	%100
37	M40	X	8.849	8.849	0	%100
38	M40	Z	5.109	5.109	0	%100
39	M41	X	2.212	2.212	0	%100
40	M41	Z	1.277	1.277	0	%100
41	M45	X	11.952	11.952	0	%100
42	M45	Z	6.901	6.901	0	%100
43	M46A	X	16.231	16.231	0	%100
44	M46A	Z	9.371	9.371	0	%100
45	M48	X	17.096	17.096	0	%100
46	M48	Z	9.871	9.871	0	%100
47	M50A	X	11.952	11.952	0	%100
48	M50A	Z	6.901	6.901	0	%100
49	M51C	X	4.058	4.058	0	%100
50	M51C	Z	2.343	2.343	0	%100
51	M53	X	4.274	4.274	0	%100
52	M53	Z	2.468	2.468	0	%100
53	M58A	X	0	0	0	%100
54	M58A	Z	0	0	0	%100
55	M59A	X	8.684	8.684	0	%100
56	M59A	Z	5.014	5.014	0	%100
57	M60	X	8.684	8.684	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,%]
58	M60	Z	5.014	5.014	0	%100
59	M61	X	15.936	15.936	0	%100
60	M61	Z	9.201	9.201	0	%100
61	M64	X	2.212	2.212	0	%100
62	M64	Z	1.277	1.277	0	%100
63	M65	X	2.212	2.212	0	%100
64	M65	Z	1.277	1.277	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	0	0	0	%100
67	M70	X	4.058	4.058	0	%100
68	M70	Z	2.343	2.343	0	%100
69	M72	X	4.274	4.274	0	%100
70	M72	Z	2.468	2.468	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	0	0	0	%100
73	M75	X	4.058	4.058	0	%100
74	M75	Z	2.343	2.343	0	%100
75	M77A	X	4.274	4.274	0	%100
76	M77A	Z	2.468	2.468	0	%100
77	MP3A	X	6.104	6.104	0	%100
78	MP3A	Z	3.524	3.524	0	%100
79	MP2A	X	6.104	6.104	0	%100
80	MP2A	Z	3.524	3.524	0	%100
81	MP1A	X	6.104	6.104	0	%100
82	MP1A	Z	3.524	3.524	0	%100
83	M82	X	2.324	2.324	0	%100
84	M82	Z	1.342	1.342	0	%100
85	MP4C	X	6.104	6.104	0	%100
86	MP4C	Z	3.524	3.524	0	%100
87	MP3C	X	6.104	6.104	0	%100
88	MP3C	Z	3.524	3.524	0	%100
89	MP2C	X	6.104	6.104	0	%100
90	MP2C	Z	3.524	3.524	0	%100
91	MP1C	X	6.104	6.104	0	%100
92	MP1C	Z	3.524	3.524	0	%100
93	M91A	X	9.296	9.296	0	%100
94	M91A	Z	5.367	5.367	0	%100
95	MP4B	X	6.104	6.104	0	%100
96	MP4B	Z	3.524	3.524	0	%100
97	MP3B	X	6.104	6.104	0	%100
98	MP3B	Z	3.524	3.524	0	%100
99	MP2B	X	6.104	6.104	0	%100
100	MP2B	Z	3.524	3.524	0	%100
101	MP1B	X	6.104	6.104	0	%100
102	MP1B	Z	3.524	3.524	0	%100
103	M100	X	2.324	2.324	0	%100
104	M100	Z	1.342	1.342	0	%100
105	M105	X	2.324	2.324	0	%100
106	M105	Z	1.342	1.342	0	%100
107	M110	X	9.296	9.296	0	%100
108	M110	Z	5.367	5.367	0	%100
109	M115	X	1.838	1.838	0	%100
110	M115	Z	1.061	1.061	0	%100
111	M116	X	1.838	1.838	0	%100
112	M116	Z	1.061	1.061	0	%100
113	M117	X	7.351	7.351	0	%100
114	M117	Z	4.244	4.244	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	4.025	4.025	0	%100
2	M1	Z	6.972	6.972	0	%100
3	M4	X	1.486	1.486	0	%100
4	M4	Z	2.575	2.575	0	%100
5	M10	X	3.76	3.76	0	%100
6	M10	Z	6.513	6.513	0	%100
7	MP4A	X	3.288	3.288	0	%100
8	MP4A	Z	5.695	5.695	0	%100
9	M43	X	3.76	3.76	0	%100
10	M43	Z	6.513	6.513	0	%100
11	M46	X	6.901	6.901	0	%100
12	M46	Z	11.952	11.952	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	3.832	3.832	0	%100
16	M52B	Z	6.637	6.637	0	%100
17	M76	X	2.3	2.3	0	%100
18	M76	Z	3.984	3.984	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	2.3	2.3	0	%100
24	M84	Z	3.984	3.984	0	%100
25	M85	X	7.028	7.028	0	%100
26	M85	Z	12.174	12.174	0	%100
27	M91	X	7.403	7.403	0	%100
28	M91	Z	12.822	12.822	0	%100
29	M34	X	5.946	5.946	0	%100
30	M34	Z	10.298	10.298	0	%100
31	M35	X	0	0	0	%100
32	M35	Z	0	0	0	%100
33	M36	X	0	0	0	%100
34	M36	Z	0	0	0	%100
35	M37	X	0	0	0	%100
36	M37	Z	0	0	0	%100
37	M40	X	3.832	3.832	0	%100
38	M40	Z	6.637	6.637	0	%100
39	M41	X	3.832	3.832	0	%100
40	M41	Z	6.637	6.637	0	%100
41	M45	X	9.201	9.201	0	%100
42	M45	Z	15.936	15.936	0	%100
43	M46A	X	7.028	7.028	0	%100
44	M46A	Z	12.174	12.174	0	%100
45	M48	X	7.403	7.403	0	%100
46	M48	Z	12.822	12.822	0	%100
47	M50A	X	9.201	9.201	0	%100
48	M50A	Z	15.936	15.936	0	%100
49	M51C	X	7.028	7.028	0	%100
50	M51C	Z	12.174	12.174	0	%100
51	M53	X	7.403	7.403	0	%100
52	M53	Z	12.822	12.822	0	%100
53	M58A	X	1.486	1.486	0	%100
54	M58A	Z	2.575	2.575	0	%100
55	M59A	X	3.76	3.76	0	%100
56	M59A	Z	6.513	6.513	0	%100
57	M60	X	3.76	3.76	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,%]
58	M60	Z	6.513	6.513	0	%100
59	M61	X	6.901	6.901	0	%100
60	M61	Z	11.952	11.952	0	%100
61	M64	X	3.832	3.832	0	%100
62	M64	Z	6.637	6.637	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	0	0	0	%100
65	M69	X	2.3	2.3	0	%100
66	M69	Z	3.984	3.984	0	%100
67	M70	X	7.028	7.028	0	%100
68	M70	Z	12.174	12.174	0	%100
69	M72	X	7.403	7.403	0	%100
70	M72	Z	12.822	12.822	0	%100
71	M74	X	2.3	2.3	0	%100
72	M74	Z	3.984	3.984	0	%100
73	M75	X	0	0	0	%100
74	M75	Z	0	0	0	%100
75	M77A	X	0	0	0	%100
76	M77A	Z	0	0	0	%100
77	MP3A	X	3.288	3.288	0	%100
78	MP3A	Z	5.695	5.695	0	%100
79	MP2A	X	3.288	3.288	0	%100
80	MP2A	Z	5.695	5.695	0	%100
81	MP1A	X	3.288	3.288	0	%100
82	MP1A	Z	5.695	5.695	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	0	0	0	%100
85	MP4C	X	3.288	3.288	0	%100
86	MP4C	Z	5.695	5.695	0	%100
87	MP3C	X	3.288	3.288	0	%100
88	MP3C	Z	5.695	5.695	0	%100
89	MP2C	X	3.288	3.288	0	%100
90	MP2C	Z	5.695	5.695	0	%100
91	MP1C	X	3.288	3.288	0	%100
92	MP1C	Z	5.695	5.695	0	%100
93	M91A	X	4.025	4.025	0	%100
94	M91A	Z	6.972	6.972	0	%100
95	MP4B	X	3.288	3.288	0	%100
96	MP4B	Z	5.695	5.695	0	%100
97	MP3B	X	3.288	3.288	0	%100
98	MP3B	Z	5.695	5.695	0	%100
99	MP2B	X	3.288	3.288	0	%100
100	MP2B	Z	5.695	5.695	0	%100
101	MP1B	X	3.288	3.288	0	%100
102	MP1B	Z	5.695	5.695	0	%100
103	M100	X	4.025	4.025	0	%100
104	M100	Z	6.972	6.972	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	0	0	0	%100
107	M110	X	4.025	4.025	0	%100
108	M110	Z	6.972	6.972	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	0	0	0	%100
111	M116	X	3.183	3.183	0	%100
112	M116	Z	5.513	5.513	0	%100
113	M117	X	3.183	3.183	0	%100
114	M117	Z	5.513	5.513	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	10.734	10.734	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	10.027	10.027	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	6.339	6.339	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	10.027	10.027	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	18.402	18.402	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	2.555	2.555	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	2.555	2.555	0	%100
17	M76	X	0	0	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	4.686	4.686	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	4.935	4.935	0	%100
23	M84	X	0	0	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	4.686	4.686	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	4.935	4.935	0	%100
29	M34	X	0	0	0	%100
30	M34	Z	8.919	8.919	0	%100
31	M35	X	0	0	0	%100
32	M35	Z	2.507	2.507	0	%100
33	M36	X	0	0	0	%100
34	M36	Z	2.507	2.507	0	%100
35	M37	X	0	0	0	%100
36	M37	Z	4.6	4.6	0	%100
37	M40	X	0	0	0	%100
38	M40	Z	2.555	2.555	0	%100
39	M41	X	0	0	0	%100
40	M41	Z	10.218	10.218	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	13.801	13.801	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	4.686	4.686	0	%100
45	M48	X	0	0	0	%100
46	M48	Z	4.935	4.935	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	13.801	13.801	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	18.742	18.742	0	%100
51	M53	X	0	0	0	%100
52	M53	Z	19.741	19.741	0	%100
53	M58A	X	0	0	0	%100
54	M58A	Z	8.919	8.919	0	%100
55	M59A	X	0	0	0	%100
56	M59A	Z	2.507	2.507	0	%100
57	M60	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,%]
58	M60	Z	2.507	2.507	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	4.6	4.6	0	%100
61	M64	X	0	0	0	%100
62	M64	Z	10.218	10.218	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	2.555	2.555	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	13.801	13.801	0	%100
67	M70	X	0	0	0	%100
68	M70	Z	18.742	18.742	0	%100
69	M72	X	0	0	0	%100
70	M72	Z	19.741	19.741	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	13.801	13.801	0	%100
73	M75	X	0	0	0	%100
74	M75	Z	4.686	4.686	0	%100
75	M77A	X	0	0	0	%100
76	M77A	Z	4.935	4.935	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	6.339	6.339	0	%100
79	MP2A	X	0	0	0	%100
80	MP2A	Z	6.339	6.339	0	%100
81	MP1A	X	0	0	0	%100
82	MP1A	Z	6.339	6.339	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	2.684	2.684	0	%100
85	MP4C	X	0	0	0	%100
86	MP4C	Z	6.339	6.339	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	6.339	6.339	0	%100
89	MP2C	X	0	0	0	%100
90	MP2C	Z	6.339	6.339	0	%100
91	MP1C	X	0	0	0	%100
92	MP1C	Z	6.339	6.339	0	%100
93	M91A	X	0	0	0	%100
94	M91A	Z	2.684	2.684	0	%100
95	MP4B	X	0	0	0	%100
96	MP4B	Z	6.339	6.339	0	%100
97	MP3B	X	0	0	0	%100
98	MP3B	Z	6.339	6.339	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	6.339	6.339	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	6.339	6.339	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	10.734	10.734	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	2.684	2.684	0	%100
107	M110	X	0	0	0	%100
108	M110	Z	2.684	2.684	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	2.122	2.122	0	%100
111	M116	X	0	0	0	%100
112	M116	Z	8.489	8.489	0	%100
113	M117	X	0	0	0	%100
114	M117	Z	2.122	2.122	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-4.025	-4.025	0	%100
2	M1	Z	6.972	6.972	0	%100
3	M4	X	-1.486	-1.486	0	%100
4	M4	Z	2.575	2.575	0	%100
5	M10	X	-3.76	-3.76	0	%100
6	M10	Z	6.513	6.513	0	%100
7	MP4A	X	-3.288	-3.288	0	%100
8	MP4A	Z	5.695	5.695	0	%100
9	M43	X	-3.76	-3.76	0	%100
10	M43	Z	6.513	6.513	0	%100
11	M46	X	-6.901	-6.901	0	%100
12	M46	Z	11.952	11.952	0	%100
13	M51B	X	-3.832	-3.832	0	%100
14	M51B	Z	6.637	6.637	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	-2.3	-2.3	0	%100
18	M76	Z	3.984	3.984	0	%100
19	M77	X	-7.028	-7.028	0	%100
20	M77	Z	12.174	12.174	0	%100
21	M80	X	-7.403	-7.403	0	%100
22	M80	Z	12.822	12.822	0	%100
23	M84	X	-2.3	-2.3	0	%100
24	M84	Z	3.984	3.984	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	0	0	0	%100
29	M34	X	-1.486	-1.486	0	%100
30	M34	Z	2.575	2.575	0	%100
31	M35	X	-3.76	-3.76	0	%100
32	M35	Z	6.513	6.513	0	%100
33	M36	X	-3.76	-3.76	0	%100
34	M36	Z	6.513	6.513	0	%100
35	M37	X	-6.901	-6.901	0	%100
36	M37	Z	11.952	11.952	0	%100
37	M40	X	0	0	0	%100
38	M40	Z	0	0	0	%100
39	M41	X	-3.832	-3.832	0	%100
40	M41	Z	6.637	6.637	0	%100
41	M45	X	-2.3	-2.3	0	%100
42	M45	Z	3.984	3.984	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	0	0	0	%100
45	M48	X	0	0	0	%100
46	M48	Z	0	0	0	%100
47	M50A	X	-2.3	-2.3	0	%100
48	M50A	Z	3.984	3.984	0	%100
49	M51C	X	-7.028	-7.028	0	%100
50	M51C	Z	12.174	12.174	0	%100
51	M53	X	-7.403	-7.403	0	%100
52	M53	Z	12.822	12.822	0	%100
53	M58A	X	-5.946	-5.946	0	%100
54	M58A	Z	10.298	10.298	0	%100
55	M59A	X	0	0	0	%100
56	M59A	Z	0	0	0	%100
57	M60	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,%]
58	M60	Z	0	0	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	0	0	0	%100
61	M64	X	-3.832	-3.832	0	%100
62	M64	Z	6.637	6.637	0	%100
63	M65	X	-3.832	-3.832	0	%100
64	M65	Z	6.637	6.637	0	%100
65	M69	X	-9.201	-9.201	0	%100
66	M69	Z	15.936	15.936	0	%100
67	M70	X	-7.028	-7.028	0	%100
68	M70	Z	12.174	12.174	0	%100
69	M72	X	-7.403	-7.403	0	%100
70	M72	Z	12.822	12.822	0	%100
71	M74	X	-9.201	-9.201	0	%100
72	M74	Z	15.936	15.936	0	%100
73	M75	X	-7.028	-7.028	0	%100
74	M75	Z	12.174	12.174	0	%100
75	M77A	X	-7.403	-7.403	0	%100
76	M77A	Z	12.822	12.822	0	%100
77	MP3A	X	-3.288	-3.288	0	%100
78	MP3A	Z	5.695	5.695	0	%100
79	MP2A	X	-3.288	-3.288	0	%100
80	MP2A	Z	5.695	5.695	0	%100
81	MP1A	X	-3.288	-3.288	0	%100
82	MP1A	Z	5.695	5.695	0	%100
83	M82	X	-4.025	-4.025	0	%100
84	M82	Z	6.972	6.972	0	%100
85	MP4C	X	-3.288	-3.288	0	%100
86	MP4C	Z	5.695	5.695	0	%100
87	MP3C	X	-3.288	-3.288	0	%100
88	MP3C	Z	5.695	5.695	0	%100
89	MP2C	X	-3.288	-3.288	0	%100
90	MP2C	Z	5.695	5.695	0	%100
91	MP1C	X	-3.288	-3.288	0	%100
92	MP1C	Z	5.695	5.695	0	%100
93	M91A	X	0	0	0	%100
94	M91A	Z	0	0	0	%100
95	MP4B	X	-3.288	-3.288	0	%100
96	MP4B	Z	5.695	5.695	0	%100
97	MP3B	X	-3.288	-3.288	0	%100
98	MP3B	Z	5.695	5.695	0	%100
99	MP2B	X	-3.288	-3.288	0	%100
100	MP2B	Z	5.695	5.695	0	%100
101	MP1B	X	-3.288	-3.288	0	%100
102	MP1B	Z	5.695	5.695	0	%100
103	M100	X	-4.025	-4.025	0	%100
104	M100	Z	6.972	6.972	0	%100
105	M105	X	-4.025	-4.025	0	%100
106	M105	Z	6.972	6.972	0	%100
107	M110	X	0	0	0	%100
108	M110	Z	0	0	0	%100
109	M115	X	-3.183	-3.183	0	%100
110	M115	Z	5.513	5.513	0	%100
111	M116	X	-3.183	-3.183	0	%100
112	M116	Z	5.513	5.513	0	%100
113	M117	X	0	0	0	%100
114	M117	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	M1	X	-2.324	-2.324	0	%100
2	M1	Z	1.342	1.342	0	%100
3	M4	X	-7.724	-7.724	0	%100
4	M4	Z	4.459	4.459	0	%100
5	M10	X	-2.171	-2.171	0	%100
6	M10	Z	1.253	1.253	0	%100
7	MP4A	X	-6.104	-6.104	0	%100
8	MP4A	Z	3.524	3.524	0	%100
9	M43	X	-2.171	-2.171	0	%100
10	M43	Z	1.253	1.253	0	%100
11	M46	X	-3.984	-3.984	0	%100
12	M46	Z	2.3	2.3	0	%100
13	M51B	X	-8.849	-8.849	0	%100
14	M51B	Z	5.109	5.109	0	%100
15	M52B	X	-2.212	-2.212	0	%100
16	M52B	Z	1.277	1.277	0	%100
17	M76	X	-11.952	-11.952	0	%100
18	M76	Z	6.901	6.901	0	%100
19	M77	X	-16.231	-16.231	0	%100
20	M77	Z	9.371	9.371	0	%100
21	M80	X	-17.096	-17.096	0	%100
22	M80	Z	9.871	9.871	0	%100
23	M84	X	-11.952	-11.952	0	%100
24	M84	Z	6.901	6.901	0	%100
25	M85	X	-4.058	-4.058	0	%100
26	M85	Z	2.343	2.343	0	%100
27	M91	X	-4.274	-4.274	0	%100
28	M91	Z	2.468	2.468	0	%100
29	M34	X	0	0	0	%100
30	M34	Z	0	0	0	%100
31	M35	X	-8.684	-8.684	0	%100
32	M35	Z	5.014	5.014	0	%100
33	M36	X	-8.684	-8.684	0	%100
34	M36	Z	5.014	5.014	0	%100
35	M37	X	-15.936	-15.936	0	%100
36	M37	Z	9.201	9.201	0	%100
37	M40	X	-2.212	-2.212	0	%100
38	M40	Z	1.277	1.277	0	%100
39	M41	X	-2.212	-2.212	0	%100
40	M41	Z	1.277	1.277	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	-4.058	-4.058	0	%100
44	M46A	Z	2.343	2.343	0	%100
45	M48	X	-4.274	-4.274	0	%100
46	M48	Z	2.468	2.468	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	-4.058	-4.058	0	%100
50	M51C	Z	2.343	2.343	0	%100
51	M53	X	-4.274	-4.274	0	%100
52	M53	Z	2.468	2.468	0	%100
53	M58A	X	-7.724	-7.724	0	%100
54	M58A	Z	4.459	4.459	0	%100
55	M59A	X	-2.171	-2.171	0	%100
56	M59A	Z	1.253	1.253	0	%100
57	M60	X	-2.171	-2.171	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,%]
58	M60	Z	1.253	1.253	0	%100
59	M61	X	-3.984	-3.984	0	%100
60	M61	Z	2.3	2.3	0	%100
61	M64	X	-2.212	-2.212	0	%100
62	M64	Z	1.277	1.277	0	%100
63	M65	X	-8.849	-8.849	0	%100
64	M65	Z	5.109	5.109	0	%100
65	M69	X	-11.952	-11.952	0	%100
66	M69	Z	6.901	6.901	0	%100
67	M70	X	-4.058	-4.058	0	%100
68	M70	Z	2.343	2.343	0	%100
69	M72	X	-4.274	-4.274	0	%100
70	M72	Z	2.468	2.468	0	%100
71	M74	X	-11.952	-11.952	0	%100
72	M74	Z	6.901	6.901	0	%100
73	M75	X	-16.231	-16.231	0	%100
74	M75	Z	9.371	9.371	0	%100
75	M77A	X	-17.096	-17.096	0	%100
76	M77A	Z	9.871	9.871	0	%100
77	MP3A	X	-6.104	-6.104	0	%100
78	MP3A	Z	3.524	3.524	0	%100
79	MP2A	X	-6.104	-6.104	0	%100
80	MP2A	Z	3.524	3.524	0	%100
81	MP1A	X	-6.104	-6.104	0	%100
82	MP1A	Z	3.524	3.524	0	%100
83	M82	X	-9.296	-9.296	0	%100
84	M82	Z	5.367	5.367	0	%100
85	MP4C	X	-6.104	-6.104	0	%100
86	MP4C	Z	3.524	3.524	0	%100
87	MP3C	X	-6.104	-6.104	0	%100
88	MP3C	Z	3.524	3.524	0	%100
89	MP2C	X	-6.104	-6.104	0	%100
90	MP2C	Z	3.524	3.524	0	%100
91	MP1C	X	-6.104	-6.104	0	%100
92	MP1C	Z	3.524	3.524	0	%100
93	M91A	X	-2.324	-2.324	0	%100
94	M91A	Z	1.342	1.342	0	%100
95	MP4B	X	-6.104	-6.104	0	%100
96	MP4B	Z	3.524	3.524	0	%100
97	MP3B	X	-6.104	-6.104	0	%100
98	MP3B	Z	3.524	3.524	0	%100
99	MP2B	X	-6.104	-6.104	0	%100
100	MP2B	Z	3.524	3.524	0	%100
101	MP1B	X	-6.104	-6.104	0	%100
102	MP1B	Z	3.524	3.524	0	%100
103	M100	X	-2.324	-2.324	0	%100
104	M100	Z	1.342	1.342	0	%100
105	M105	X	-9.296	-9.296	0	%100
106	M105	Z	5.367	5.367	0	%100
107	M110	X	-2.324	-2.324	0	%100
108	M110	Z	1.342	1.342	0	%100
109	M115	X	-7.351	-7.351	0	%100
110	M115	Z	4.244	4.244	0	%100
111	M116	X	-1.838	-1.838	0	%100
112	M116	Z	1.061	1.061	0	%100
113	M117	X	-1.838	-1.838	0	%100
114	M117	Z	1.061	1.061	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-11.892	-11.892	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP4A	X	-7.284	-7.284	0	%100
8	MP4A	Z	0	0	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	0	0	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	0	0	0	%100
13	M51B	X	-7.664	-7.664	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	-7.664	-7.664	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	-18.402	-18.402	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	-14.057	-14.057	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	-14.806	-14.806	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	-18.402	-18.402	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	-14.057	-14.057	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	-14.806	-14.806	0	%100
28	M91	Z	0	0	0	%100
29	M34	X	-2.973	-2.973	0	%100
30	M34	Z	0	0	0	%100
31	M35	X	-7.52	-7.52	0	%100
32	M35	Z	0	0	0	%100
33	M36	X	-7.52	-7.52	0	%100
34	M36	Z	0	0	0	%100
35	M37	X	-13.801	-13.801	0	%100
36	M37	Z	0	0	0	%100
37	M40	X	-7.664	-7.664	0	%100
38	M40	Z	0	0	0	%100
39	M41	X	0	0	0	%100
40	M41	Z	0	0	0	%100
41	M45	X	-4.6	-4.6	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	-14.057	-14.057	0	%100
44	M46A	Z	0	0	0	%100
45	M48	X	-14.806	-14.806	0	%100
46	M48	Z	0	0	0	%100
47	M50A	X	-4.6	-4.6	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	0	0	0	%100
51	M53	X	0	0	0	%100
52	M53	Z	0	0	0	%100
53	M58A	X	-2.973	-2.973	0	%100
54	M58A	Z	0	0	0	%100
55	M59A	X	-7.52	-7.52	0	%100
56	M59A	Z	0	0	0	%100
57	M60	X	-7.52	-7.52	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M60	Z	0	0	0	%100
59	M61	X	-13.801	-13.801	0	%100
60	M61	Z	0	0	0	%100
61	M64	X	0	0	0	%100
62	M64	Z	0	0	0	%100
63	M65	X	-7.664	-7.664	0	%100
64	M65	Z	0	0	0	%100
65	M69	X	-4.6	-4.6	0	%100
66	M69	Z	0	0	0	%100
67	M70	X	0	0	0	%100
68	M70	Z	0	0	0	%100
69	M72	X	0	0	0	%100
70	M72	Z	0	0	0	%100
71	M74	X	-4.6	-4.6	0	%100
72	M74	Z	0	0	0	%100
73	M75	X	-14.057	-14.057	0	%100
74	M75	Z	0	0	0	%100
75	M77A	X	-14.806	-14.806	0	%100
76	M77A	Z	0	0	0	%100
77	MP3A	X	-7.284	-7.284	0	%100
78	MP3A	Z	0	0	0	%100
79	MP2A	X	-7.284	-7.284	0	%100
80	MP2A	Z	0	0	0	%100
81	MP1A	X	-7.284	-7.284	0	%100
82	MP1A	Z	0	0	0	%100
83	M82	X	-8.051	-8.051	0	%100
84	M82	Z	0	0	0	%100
85	MP4C	X	-7.284	-7.284	0	%100
86	MP4C	Z	0	0	0	%100
87	MP3C	X	-7.284	-7.284	0	%100
88	MP3C	Z	0	0	0	%100
89	MP2C	X	-7.284	-7.284	0	%100
90	MP2C	Z	0	0	0	%100
91	MP1C	X	-7.284	-7.284	0	%100
92	MP1C	Z	0	0	0	%100
93	M91A	X	-8.051	-8.051	0	%100
94	M91A	Z	0	0	0	%100
95	MP4B	X	-7.284	-7.284	0	%100
96	MP4B	Z	0	0	0	%100
97	MP3B	X	-7.284	-7.284	0	%100
98	MP3B	Z	0	0	0	%100
99	MP2B	X	-7.284	-7.284	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	-7.284	-7.284	0	%100
102	MP1B	Z	0	0	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	0	0	0	%100
105	M105	X	-8.051	-8.051	0	%100
106	M105	Z	0	0	0	%100
107	M110	X	-8.051	-8.051	0	%100
108	M110	Z	0	0	0	%100
109	M115	X	-6.366	-6.366	0	%100
110	M115	Z	0	0	0	%100
111	M116	X	0	0	0	%100
112	M116	Z	0	0	0	%100
113	M117	X	-6.366	-6.366	0	%100
114	M117	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.324	-2.324	0	%100
2	M1	Z	-1.342	-1.342	0	%100
3	M4	X	-7.724	-7.724	0	%100
4	M4	Z	-4.459	-4.459	0	%100
5	M10	X	-2.171	-2.171	0	%100
6	M10	Z	-1.253	-1.253	0	%100
7	MP4A	X	-6.104	-6.104	0	%100
8	MP4A	Z	-3.524	-3.524	0	%100
9	M43	X	-2.171	-2.171	0	%100
10	M43	Z	-1.253	-1.253	0	%100
11	M46	X	-3.984	-3.984	0	%100
12	M46	Z	-2.3	-2.3	0	%100
13	M51B	X	-2.212	-2.212	0	%100
14	M51B	Z	-1.277	-1.277	0	%100
15	M52B	X	-8.849	-8.849	0	%100
16	M52B	Z	-5.109	-5.109	0	%100
17	M76	X	-11.952	-11.952	0	%100
18	M76	Z	-6.901	-6.901	0	%100
19	M77	X	-4.058	-4.058	0	%100
20	M77	Z	-2.343	-2.343	0	%100
21	M80	X	-4.274	-4.274	0	%100
22	M80	Z	-2.468	-2.468	0	%100
23	M84	X	-11.952	-11.952	0	%100
24	M84	Z	-6.901	-6.901	0	%100
25	M85	X	-16.231	-16.231	0	%100
26	M85	Z	-9.371	-9.371	0	%100
27	M91	X	-17.096	-17.096	0	%100
28	M91	Z	-9.871	-9.871	0	%100
29	M34	X	-7.724	-7.724	0	%100
30	M34	Z	-4.459	-4.459	0	%100
31	M35	X	-2.171	-2.171	0	%100
32	M35	Z	-1.253	-1.253	0	%100
33	M36	X	-2.171	-2.171	0	%100
34	M36	Z	-1.253	-1.253	0	%100
35	M37	X	-3.984	-3.984	0	%100
36	M37	Z	-2.3	-2.3	0	%100
37	M40	X	-8.849	-8.849	0	%100
38	M40	Z	-5.109	-5.109	0	%100
39	M41	X	-2.212	-2.212	0	%100
40	M41	Z	-1.277	-1.277	0	%100
41	M45	X	-11.952	-11.952	0	%100
42	M45	Z	-6.901	-6.901	0	%100
43	M46A	X	-16.231	-16.231	0	%100
44	M46A	Z	-9.371	-9.371	0	%100
45	M48	X	-17.096	-17.096	0	%100
46	M48	Z	-9.871	-9.871	0	%100
47	M50A	X	-11.952	-11.952	0	%100
48	M50A	Z	-6.901	-6.901	0	%100
49	M51C	X	-4.058	-4.058	0	%100
50	M51C	Z	-2.343	-2.343	0	%100
51	M53	X	-4.274	-4.274	0	%100
52	M53	Z	-2.468	-2.468	0	%100
53	M58A	X	0	0	0	%100
54	M58A	Z	0	0	0	%100
55	M59A	X	-8.684	-8.684	0	%100
56	M59A	Z	-5.014	-5.014	0	%100
57	M60	X	-8.684	-8.684	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,%]
58	M60	Z	-5.014	-5.014	0	%100
59	M61	X	-15.936	-15.936	0	%100
60	M61	Z	-9.201	-9.201	0	%100
61	M64	X	-2.212	-2.212	0	%100
62	M64	Z	-1.277	-1.277	0	%100
63	M65	X	-2.212	-2.212	0	%100
64	M65	Z	-1.277	-1.277	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	0	0	0	%100
67	M70	X	-4.058	-4.058	0	%100
68	M70	Z	-2.343	-2.343	0	%100
69	M72	X	-4.274	-4.274	0	%100
70	M72	Z	-2.468	-2.468	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	0	0	0	%100
73	M75	X	-4.058	-4.058	0	%100
74	M75	Z	-2.343	-2.343	0	%100
75	M77A	X	-4.274	-4.274	0	%100
76	M77A	Z	-2.468	-2.468	0	%100
77	MP3A	X	-6.104	-6.104	0	%100
78	MP3A	Z	-3.524	-3.524	0	%100
79	MP2A	X	-6.104	-6.104	0	%100
80	MP2A	Z	-3.524	-3.524	0	%100
81	MP1A	X	-6.104	-6.104	0	%100
82	MP1A	Z	-3.524	-3.524	0	%100
83	M82	X	-2.324	-2.324	0	%100
84	M82	Z	-1.342	-1.342	0	%100
85	MP4C	X	-6.104	-6.104	0	%100
86	MP4C	Z	-3.524	-3.524	0	%100
87	MP3C	X	-6.104	-6.104	0	%100
88	MP3C	Z	-3.524	-3.524	0	%100
89	MP2C	X	-6.104	-6.104	0	%100
90	MP2C	Z	-3.524	-3.524	0	%100
91	MP1C	X	-6.104	-6.104	0	%100
92	MP1C	Z	-3.524	-3.524	0	%100
93	M91A	X	-9.296	-9.296	0	%100
94	M91A	Z	-5.367	-5.367	0	%100
95	MP4B	X	-6.104	-6.104	0	%100
96	MP4B	Z	-3.524	-3.524	0	%100
97	MP3B	X	-6.104	-6.104	0	%100
98	MP3B	Z	-3.524	-3.524	0	%100
99	MP2B	X	-6.104	-6.104	0	%100
100	MP2B	Z	-3.524	-3.524	0	%100
101	MP1B	X	-6.104	-6.104	0	%100
102	MP1B	Z	-3.524	-3.524	0	%100
103	M100	X	-2.324	-2.324	0	%100
104	M100	Z	-1.342	-1.342	0	%100
105	M105	X	-2.324	-2.324	0	%100
106	M105	Z	-1.342	-1.342	0	%100
107	M110	X	-9.296	-9.296	0	%100
108	M110	Z	-5.367	-5.367	0	%100
109	M115	X	-1.838	-1.838	0	%100
110	M115	Z	-1.061	-1.061	0	%100
111	M116	X	-1.838	-1.838	0	%100
112	M116	Z	-1.061	-1.061	0	%100
113	M117	X	-7.351	-7.351	0	%100
114	M117	Z	-4.244	-4.244	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-4.025	-4.025	0	%100
2	M1	Z	-6.972	-6.972	0	%100
3	M4	X	-1.486	-1.486	0	%100
4	M4	Z	-2.575	-2.575	0	%100
5	M10	X	-3.76	-3.76	0	%100
6	M10	Z	-6.513	-6.513	0	%100
7	MP4A	X	-3.288	-3.288	0	%100
8	MP4A	Z	-5.695	-5.695	0	%100
9	M43	X	-3.76	-3.76	0	%100
10	M43	Z	-6.513	-6.513	0	%100
11	M46	X	-6.901	-6.901	0	%100
12	M46	Z	-11.952	-11.952	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	-3.832	-3.832	0	%100
16	M52B	Z	-6.637	-6.637	0	%100
17	M76	X	-2.3	-2.3	0	%100
18	M76	Z	-3.984	-3.984	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	-2.3	-2.3	0	%100
24	M84	Z	-3.984	-3.984	0	%100
25	M85	X	-7.028	-7.028	0	%100
26	M85	Z	-12.174	-12.174	0	%100
27	M91	X	-7.403	-7.403	0	%100
28	M91	Z	-12.822	-12.822	0	%100
29	M34	X	-5.946	-5.946	0	%100
30	M34	Z	-10.298	-10.298	0	%100
31	M35	X	0	0	0	%100
32	M35	Z	0	0	0	%100
33	M36	X	0	0	0	%100
34	M36	Z	0	0	0	%100
35	M37	X	0	0	0	%100
36	M37	Z	0	0	0	%100
37	M40	X	-3.832	-3.832	0	%100
38	M40	Z	-6.637	-6.637	0	%100
39	M41	X	-3.832	-3.832	0	%100
40	M41	Z	-6.637	-6.637	0	%100
41	M45	X	-9.201	-9.201	0	%100
42	M45	Z	-15.936	-15.936	0	%100
43	M46A	X	-7.028	-7.028	0	%100
44	M46A	Z	-12.174	-12.174	0	%100
45	M48	X	-7.403	-7.403	0	%100
46	M48	Z	-12.822	-12.822	0	%100
47	M50A	X	-9.201	-9.201	0	%100
48	M50A	Z	-15.936	-15.936	0	%100
49	M51C	X	-7.028	-7.028	0	%100
50	M51C	Z	-12.174	-12.174	0	%100
51	M53	X	-7.403	-7.403	0	%100
52	M53	Z	-12.822	-12.822	0	%100
53	M58A	X	-1.486	-1.486	0	%100
54	M58A	Z	-2.575	-2.575	0	%100
55	M59A	X	-3.76	-3.76	0	%100
56	M59A	Z	-6.513	-6.513	0	%100
57	M60	X	-3.76	-3.76	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	M60	Z	-6.513	-6.513	0	%100
59	M61	X	-6.901	-6.901	0	%100
60	M61	Z	-11.952	-11.952	0	%100
61	M64	X	-3.832	-3.832	0	%100
62	M64	Z	-6.637	-6.637	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	0	0	0	%100
65	M69	X	-2.3	-2.3	0	%100
66	M69	Z	-3.984	-3.984	0	%100
67	M70	X	-7.028	-7.028	0	%100
68	M70	Z	-12.174	-12.174	0	%100
69	M72	X	-7.403	-7.403	0	%100
70	M72	Z	-12.822	-12.822	0	%100
71	M74	X	-2.3	-2.3	0	%100
72	M74	Z	-3.984	-3.984	0	%100
73	M75	X	0	0	0	%100
74	M75	Z	0	0	0	%100
75	M77A	X	0	0	0	%100
76	M77A	Z	0	0	0	%100
77	MP3A	X	-3.288	-3.288	0	%100
78	MP3A	Z	-5.695	-5.695	0	%100
79	MP2A	X	-3.288	-3.288	0	%100
80	MP2A	Z	-5.695	-5.695	0	%100
81	MP1A	X	-3.288	-3.288	0	%100
82	MP1A	Z	-5.695	-5.695	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	0	0	0	%100
85	MP4C	X	-3.288	-3.288	0	%100
86	MP4C	Z	-5.695	-5.695	0	%100
87	MP3C	X	-3.288	-3.288	0	%100
88	MP3C	Z	-5.695	-5.695	0	%100
89	MP2C	X	-3.288	-3.288	0	%100
90	MP2C	Z	-5.695	-5.695	0	%100
91	MP1C	X	-3.288	-3.288	0	%100
92	MP1C	Z	-5.695	-5.695	0	%100
93	M91A	X	-4.025	-4.025	0	%100
94	M91A	Z	-6.972	-6.972	0	%100
95	MP4B	X	-3.288	-3.288	0	%100
96	MP4B	Z	-5.695	-5.695	0	%100
97	MP3B	X	-3.288	-3.288	0	%100
98	MP3B	Z	-5.695	-5.695	0	%100
99	MP2B	X	-3.288	-3.288	0	%100
100	MP2B	Z	-5.695	-5.695	0	%100
101	MP1B	X	-3.288	-3.288	0	%100
102	MP1B	Z	-5.695	-5.695	0	%100
103	M100	X	-4.025	-4.025	0	%100
104	M100	Z	-6.972	-6.972	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	0	0	0	%100
107	M110	X	-4.025	-4.025	0	%100
108	M110	Z	-6.972	-6.972	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	0	0	0	%100
111	M116	X	-3.183	-3.183	0	%100
112	M116	Z	-5.513	-5.513	0	%100
113	M117	X	-3.183	-3.183	0	%100
114	M117	Z	-5.513	-5.513	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-3.791	-3.791	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-3.092	-3.092	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	-2.874	-2.874	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	-3.092	-3.092	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	-4.431	-4.431	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	-.836	-.836	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	-.836	-.836	0	%100
17	M76	X	0	0	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	-1.113	-1.113	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	-1.158	-1.158	0	%100
23	M84	X	0	0	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	-1.113	-1.113	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	-1.158	-1.158	0	%100
29	M34	X	0	0	0	%100
30	M34	Z	-2.828	-2.828	0	%100
31	M35	X	0	0	0	%100
32	M35	Z	-.773	-.773	0	%100
33	M36	X	0	0	0	%100
34	M36	Z	-.773	-.773	0	%100
35	M37	X	0	0	0	%100
36	M37	Z	-1.108	-1.108	0	%100
37	M40	X	0	0	0	%100
38	M40	Z	-.836	-.836	0	%100
39	M41	X	0	0	0	%100
40	M41	Z	-3.345	-3.345	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	-3.294	-3.294	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	-1.113	-1.113	0	%100
45	M48	X	0	0	0	%100
46	M48	Z	-1.158	-1.158	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	-3.294	-3.294	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	-4.453	-4.453	0	%100
51	M53	X	0	0	0	%100
52	M53	Z	-4.633	-4.633	0	%100
53	M58A	X	0	0	0	%100
54	M58A	Z	-2.828	-2.828	0	%100
55	M59A	X	0	0	0	%100
56	M59A	Z	-.773	-.773	0	%100
57	M60	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,%]
58	M60	Z	-.773	-.773	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	-1.108	-1.108	0	%100
61	M64	X	0	0	0	%100
62	M64	Z	-3.345	-3.345	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	-.836	-.836	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	-3.294	-3.294	0	%100
67	M70	X	0	0	0	%100
68	M70	Z	-4.453	-4.453	0	%100
69	M72	X	0	0	0	%100
70	M72	Z	-4.633	-4.633	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	-3.294	-3.294	0	%100
73	M75	X	0	0	0	%100
74	M75	Z	-1.113	-1.113	0	%100
75	M77A	X	0	0	0	%100
76	M77A	Z	-1.158	-1.158	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	-2.874	-2.874	0	%100
79	MP2A	X	0	0	0	%100
80	MP2A	Z	-2.874	-2.874	0	%100
81	MP1A	X	0	0	0	%100
82	MP1A	Z	-2.874	-2.874	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	-.948	-.948	0	%100
85	MP4C	X	0	0	0	%100
86	MP4C	Z	-2.874	-2.874	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	-2.874	-2.874	0	%100
89	MP2C	X	0	0	0	%100
90	MP2C	Z	-2.874	-2.874	0	%100
91	MP1C	X	0	0	0	%100
92	MP1C	Z	-2.874	-2.874	0	%100
93	M91A	X	0	0	0	%100
94	M91A	Z	-.948	-.948	0	%100
95	MP4B	X	0	0	0	%100
96	MP4B	Z	-2.874	-2.874	0	%100
97	MP3B	X	0	0	0	%100
98	MP3B	Z	-2.874	-2.874	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	-2.874	-2.874	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	-2.874	-2.874	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	-3.791	-3.791	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	-.948	-.948	0	%100
107	M110	X	0	0	0	%100
108	M110	Z	-.948	-.948	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	-.666	-.666	0	%100
111	M116	X	0	0	0	%100
112	M116	Z	-2.663	-2.663	0	%100
113	M117	X	0	0	0	%100
114	M117	Z	-.666	-.666	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.422	1.422	0	%100
2	M1	Z	-2.463	-2.463	0	%100
3	M4	X	.471	.471	0	%100
4	M4	Z	-.816	-.816	0	%100
5	M10	X	1.16	1.16	0	%100
6	M10	Z	-2.008	-2.008	0	%100
7	MP4A	X	1.458	1.458	0	%100
8	MP4A	Z	-2.525	-2.525	0	%100
9	M43	X	1.16	1.16	0	%100
10	M43	Z	-2.008	-2.008	0	%100
11	M46	X	1.662	1.662	0	%100
12	M46	Z	-2.878	-2.878	0	%100
13	M51B	X	1.254	1.254	0	%100
14	M51B	Z	-2.173	-2.173	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	.549	.549	0	%100
18	M76	Z	-.951	-.951	0	%100
19	M77	X	1.67	1.67	0	%100
20	M77	Z	-2.892	-2.892	0	%100
21	M80	X	1.737	1.737	0	%100
22	M80	Z	-3.009	-3.009	0	%100
23	M84	X	.549	.549	0	%100
24	M84	Z	-.951	-.951	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	0	0	0	%100
29	M34	X	.471	.471	0	%100
30	M34	Z	-.816	-.816	0	%100
31	M35	X	1.16	1.16	0	%100
32	M35	Z	-2.008	-2.008	0	%100
33	M36	X	1.16	1.16	0	%100
34	M36	Z	-2.008	-2.008	0	%100
35	M37	X	1.662	1.662	0	%100
36	M37	Z	-2.878	-2.878	0	%100
37	M40	X	0	0	0	%100
38	M40	Z	0	0	0	%100
39	M41	X	1.254	1.254	0	%100
40	M41	Z	-2.173	-2.173	0	%100
41	M45	X	.549	.549	0	%100
42	M45	Z	-.951	-.951	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	0	0	0	%100
45	M48	X	0	0	0	%100
46	M48	Z	0	0	0	%100
47	M50A	X	.549	.549	0	%100
48	M50A	Z	-.951	-.951	0	%100
49	M51C	X	1.67	1.67	0	%100
50	M51C	Z	-2.892	-2.892	0	%100
51	M53	X	1.737	1.737	0	%100
52	M53	Z	-3.009	-3.009	0	%100
53	M58A	X	1.886	1.886	0	%100
54	M58A	Z	-3.266	-3.266	0	%100
55	M59A	X	0	0	0	%100
56	M59A	Z	0	0	0	%100
57	M60	X	0	0	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,%]
58	M60	Z	0	0	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	0	0	0	%100
61	M64	X	1.254	1.254	0	%100
62	M64	Z	-2.173	-2.173	0	%100
63	M65	X	1.254	1.254	0	%100
64	M65	Z	-2.173	-2.173	0	%100
65	M69	X	2.196	2.196	0	%100
66	M69	Z	-3.803	-3.803	0	%100
67	M70	X	1.67	1.67	0	%100
68	M70	Z	-2.892	-2.892	0	%100
69	M72	X	1.737	1.737	0	%100
70	M72	Z	-3.009	-3.009	0	%100
71	M74	X	2.196	2.196	0	%100
72	M74	Z	-3.803	-3.803	0	%100
73	M75	X	1.67	1.67	0	%100
74	M75	Z	-2.892	-2.892	0	%100
75	M77A	X	1.737	1.737	0	%100
76	M77A	Z	-3.009	-3.009	0	%100
77	MP3A	X	1.458	1.458	0	%100
78	MP3A	Z	-2.525	-2.525	0	%100
79	MP2A	X	1.458	1.458	0	%100
80	MP2A	Z	-2.525	-2.525	0	%100
81	MP1A	X	1.458	1.458	0	%100
82	MP1A	Z	-2.525	-2.525	0	%100
83	M82	X	1.422	1.422	0	%100
84	M82	Z	-2.463	-2.463	0	%100
85	MP4C	X	1.458	1.458	0	%100
86	MP4C	Z	-2.525	-2.525	0	%100
87	MP3C	X	1.458	1.458	0	%100
88	MP3C	Z	-2.525	-2.525	0	%100
89	MP2C	X	1.458	1.458	0	%100
90	MP2C	Z	-2.525	-2.525	0	%100
91	MP1C	X	1.458	1.458	0	%100
92	MP1C	Z	-2.525	-2.525	0	%100
93	M91A	X	0	0	0	%100
94	M91A	Z	0	0	0	%100
95	MP4B	X	1.458	1.458	0	%100
96	MP4B	Z	-2.525	-2.525	0	%100
97	MP3B	X	1.458	1.458	0	%100
98	MP3B	Z	-2.525	-2.525	0	%100
99	MP2B	X	1.458	1.458	0	%100
100	MP2B	Z	-2.525	-2.525	0	%100
101	MP1B	X	1.458	1.458	0	%100
102	MP1B	Z	-2.525	-2.525	0	%100
103	M100	X	1.422	1.422	0	%100
104	M100	Z	-2.463	-2.463	0	%100
105	M105	X	1.422	1.422	0	%100
106	M105	Z	-2.463	-2.463	0	%100
107	M110	X	0	0	0	%100
108	M110	Z	0	0	0	%100
109	M115	X	.999	.999	0	%100
110	M115	Z	-1.729	-1.729	0	%100
111	M116	X	.999	.999	0	%100
112	M116	Z	-1.729	-1.729	0	%100
113	M117	X	0	0	0	%100
114	M117	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	M1	X	.821	.821	0	%100
2	M1	Z	-.474	-.474	0	%100
3	M4	X	2.449	2.449	0	%100
4	M4	Z	-1.414	-1.414	0	%100
5	M10	X	.669	.669	0	%100
6	M10	Z	-.387	-.387	0	%100
7	MP4A	X	2.599	2.599	0	%100
8	MP4A	Z	-1.5	-1.5	0	%100
9	M43	X	.669	.669	0	%100
10	M43	Z	-.387	-.387	0	%100
11	M46	X	.959	.959	0	%100
12	M46	Z	-.554	-.554	0	%100
13	M51B	X	2.897	2.897	0	%100
14	M51B	Z	-1.673	-1.673	0	%100
15	M52B	X	.724	.724	0	%100
16	M52B	Z	-.418	-.418	0	%100
17	M76	X	2.852	2.852	0	%100
18	M76	Z	-1.647	-1.647	0	%100
19	M77	X	3.856	3.856	0	%100
20	M77	Z	-2.226	-2.226	0	%100
21	M80	X	4.012	4.012	0	%100
22	M80	Z	-2.316	-2.316	0	%100
23	M84	X	2.852	2.852	0	%100
24	M84	Z	-1.647	-1.647	0	%100
25	M85	X	.964	.964	0	%100
26	M85	Z	-.557	-.557	0	%100
27	M91	X	1.003	1.003	0	%100
28	M91	Z	-.579	-.579	0	%100
29	M34	X	0	0	0	%100
30	M34	Z	0	0	0	%100
31	M35	X	2.678	2.678	0	%100
32	M35	Z	-1.546	-1.546	0	%100
33	M36	X	2.678	2.678	0	%100
34	M36	Z	-1.546	-1.546	0	%100
35	M37	X	3.838	3.838	0	%100
36	M37	Z	-2.216	-2.216	0	%100
37	M40	X	.724	.724	0	%100
38	M40	Z	-.418	-.418	0	%100
39	M41	X	.724	.724	0	%100
40	M41	Z	-.418	-.418	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	.964	.964	0	%100
44	M46A	Z	-.557	-.557	0	%100
45	M48	X	1.003	1.003	0	%100
46	M48	Z	-.579	-.579	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	.964	.964	0	%100
50	M51C	Z	-.557	-.557	0	%100
51	M53	X	1.003	1.003	0	%100
52	M53	Z	-.579	-.579	0	%100
53	M58A	X	2.449	2.449	0	%100
54	M58A	Z	-1.414	-1.414	0	%100
55	M59A	X	.669	.669	0	%100
56	M59A	Z	-.387	-.387	0	%100
57	M60	X	.669	.669	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,%]
58	M60	Z	-.387	-.387	0	%100
59	M61	X	.959	.959	0	%100
60	M61	Z	-.554	-.554	0	%100
61	M64	X	.724	.724	0	%100
62	M64	Z	-.418	-.418	0	%100
63	M65	X	2.897	2.897	0	%100
64	M65	Z	-1.673	-1.673	0	%100
65	M69	X	2.852	2.852	0	%100
66	M69	Z	-1.647	-1.647	0	%100
67	M70	X	.964	.964	0	%100
68	M70	Z	-.557	-.557	0	%100
69	M72	X	1.003	1.003	0	%100
70	M72	Z	-.579	-.579	0	%100
71	M74	X	2.852	2.852	0	%100
72	M74	Z	-1.647	-1.647	0	%100
73	M75	X	3.856	3.856	0	%100
74	M75	Z	-2.226	-2.226	0	%100
75	M77A	X	4.012	4.012	0	%100
76	M77A	Z	-2.316	-2.316	0	%100
77	MP3A	X	2.599	2.599	0	%100
78	MP3A	Z	-1.5	-1.5	0	%100
79	MP2A	X	2.599	2.599	0	%100
80	MP2A	Z	-1.5	-1.5	0	%100
81	MP1A	X	2.599	2.599	0	%100
82	MP1A	Z	-1.5	-1.5	0	%100
83	M82	X	3.284	3.284	0	%100
84	M82	Z	-1.896	-1.896	0	%100
85	MP4C	X	2.599	2.599	0	%100
86	MP4C	Z	-1.5	-1.5	0	%100
87	MP3C	X	2.599	2.599	0	%100
88	MP3C	Z	-1.5	-1.5	0	%100
89	MP2C	X	2.599	2.599	0	%100
90	MP2C	Z	-1.5	-1.5	0	%100
91	MP1C	X	2.599	2.599	0	%100
92	MP1C	Z	-1.5	-1.5	0	%100
93	M91A	X	.821	.821	0	%100
94	M91A	Z	-.474	-.474	0	%100
95	MP4B	X	2.599	2.599	0	%100
96	MP4B	Z	-1.5	-1.5	0	%100
97	MP3B	X	2.599	2.599	0	%100
98	MP3B	Z	-1.5	-1.5	0	%100
99	MP2B	X	2.599	2.599	0	%100
100	MP2B	Z	-1.5	-1.5	0	%100
101	MP1B	X	2.599	2.599	0	%100
102	MP1B	Z	-1.5	-1.5	0	%100
103	M100	X	.821	.821	0	%100
104	M100	Z	-.474	-.474	0	%100
105	M105	X	3.284	3.284	0	%100
106	M105	Z	-1.896	-1.896	0	%100
107	M110	X	.821	.821	0	%100
108	M110	Z	-.474	-.474	0	%100
109	M115	X	2.306	2.306	0	%100
110	M115	Z	-1.331	-1.331	0	%100
111	M116	X	.576	.576	0	%100
112	M116	Z	-.333	-.333	0	%100
113	M117	X	.576	.576	0	%100
114	M117	Z	-.333	-.333	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	3.771	3.771	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP4A	X	3.043	3.043	0	%100
8	MP4A	Z	0	0	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	0	0	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	0	0	0	%100
13	M51B	X	2.509	2.509	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	2.509	2.509	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	4.391	4.391	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	3.339	3.339	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	3.474	3.474	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	4.391	4.391	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	3.339	3.339	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	3.474	3.474	0	%100
28	M91	Z	0	0	0	%100
29	M34	X	.943	.943	0	%100
30	M34	Z	0	0	0	%100
31	M35	X	2.319	2.319	0	%100
32	M35	Z	0	0	0	%100
33	M36	X	2.319	2.319	0	%100
34	M36	Z	0	0	0	%100
35	M37	X	3.323	3.323	0	%100
36	M37	Z	0	0	0	%100
37	M40	X	2.509	2.509	0	%100
38	M40	Z	0	0	0	%100
39	M41	X	0	0	0	%100
40	M41	Z	0	0	0	%100
41	M45	X	1.098	1.098	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	3.339	3.339	0	%100
44	M46A	Z	0	0	0	%100
45	M48	X	3.474	3.474	0	%100
46	M48	Z	0	0	0	%100
47	M50A	X	1.098	1.098	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	0	0	0	%100
51	M53	X	0	0	0	%100
52	M53	Z	0	0	0	%100
53	M58A	X	.943	.943	0	%100
54	M58A	Z	0	0	0	%100
55	M59A	X	2.319	2.319	0	%100
56	M59A	Z	0	0	0	%100
57	M60	X	2.319	2.319	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,%]
58	M60	Z	0	0	0	%100
59	M61	X	3.323	3.323	0	%100
60	M61	Z	0	0	0	%100
61	M64	X	0	0	0	%100
62	M64	Z	0	0	0	%100
63	M65	X	2.509	2.509	0	%100
64	M65	Z	0	0	0	%100
65	M69	X	1.098	1.098	0	%100
66	M69	Z	0	0	0	%100
67	M70	X	0	0	0	%100
68	M70	Z	0	0	0	%100
69	M72	X	0	0	0	%100
70	M72	Z	0	0	0	%100
71	M74	X	1.098	1.098	0	%100
72	M74	Z	0	0	0	%100
73	M75	X	3.339	3.339	0	%100
74	M75	Z	0	0	0	%100
75	M77A	X	3.474	3.474	0	%100
76	M77A	Z	0	0	0	%100
77	MP3A	X	3.043	3.043	0	%100
78	MP3A	Z	0	0	0	%100
79	MP2A	X	3.043	3.043	0	%100
80	MP2A	Z	0	0	0	%100
81	MP1A	X	3.043	3.043	0	%100
82	MP1A	Z	0	0	0	%100
83	M82	X	2.844	2.844	0	%100
84	M82	Z	0	0	0	%100
85	MP4C	X	3.043	3.043	0	%100
86	MP4C	Z	0	0	0	%100
87	MP3C	X	3.043	3.043	0	%100
88	MP3C	Z	0	0	0	%100
89	MP2C	X	3.043	3.043	0	%100
90	MP2C	Z	0	0	0	%100
91	MP1C	X	3.043	3.043	0	%100
92	MP1C	Z	0	0	0	%100
93	M91A	X	2.844	2.844	0	%100
94	M91A	Z	0	0	0	%100
95	MP4B	X	3.043	3.043	0	%100
96	MP4B	Z	0	0	0	%100
97	MP3B	X	3.043	3.043	0	%100
98	MP3B	Z	0	0	0	%100
99	MP2B	X	3.043	3.043	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	3.043	3.043	0	%100
102	MP1B	Z	0	0	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	0	0	0	%100
105	M105	X	2.844	2.844	0	%100
106	M105	Z	0	0	0	%100
107	M110	X	2.844	2.844	0	%100
108	M110	Z	0	0	0	%100
109	M115	X	1.997	1.997	0	%100
110	M115	Z	0	0	0	%100
111	M116	X	0	0	0	%100
112	M116	Z	0	0	0	%100
113	M117	X	1.997	1.997	0	%100
114	M117	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.821	.821	0	%100
2	M1	Z	.474	.474	0	%100
3	M4	X	2.449	2.449	0	%100
4	M4	Z	1.414	1.414	0	%100
5	M10	X	.669	.669	0	%100
6	M10	Z	.387	.387	0	%100
7	MP4A	X	2.599	2.599	0	%100
8	MP4A	Z	1.5	1.5	0	%100
9	M43	X	.669	.669	0	%100
10	M43	Z	.387	.387	0	%100
11	M46	X	.959	.959	0	%100
12	M46	Z	.554	.554	0	%100
13	M51B	X	.724	.724	0	%100
14	M51B	Z	.418	.418	0	%100
15	M52B	X	2.897	2.897	0	%100
16	M52B	Z	1.673	1.673	0	%100
17	M76	X	2.852	2.852	0	%100
18	M76	Z	1.647	1.647	0	%100
19	M77	X	.964	.964	0	%100
20	M77	Z	.557	.557	0	%100
21	M80	X	1.003	1.003	0	%100
22	M80	Z	.579	.579	0	%100
23	M84	X	2.852	2.852	0	%100
24	M84	Z	1.647	1.647	0	%100
25	M85	X	3.856	3.856	0	%100
26	M85	Z	2.226	2.226	0	%100
27	M91	X	4.012	4.012	0	%100
28	M91	Z	2.316	2.316	0	%100
29	M34	X	2.449	2.449	0	%100
30	M34	Z	1.414	1.414	0	%100
31	M35	X	.669	.669	0	%100
32	M35	Z	.387	.387	0	%100
33	M36	X	.669	.669	0	%100
34	M36	Z	.387	.387	0	%100
35	M37	X	.959	.959	0	%100
36	M37	Z	.554	.554	0	%100
37	M40	X	2.897	2.897	0	%100
38	M40	Z	1.673	1.673	0	%100
39	M41	X	.724	.724	0	%100
40	M41	Z	.418	.418	0	%100
41	M45	X	2.852	2.852	0	%100
42	M45	Z	1.647	1.647	0	%100
43	M46A	X	3.856	3.856	0	%100
44	M46A	Z	2.226	2.226	0	%100
45	M48	X	4.012	4.012	0	%100
46	M48	Z	2.316	2.316	0	%100
47	M50A	X	2.852	2.852	0	%100
48	M50A	Z	1.647	1.647	0	%100
49	M51C	X	.964	.964	0	%100
50	M51C	Z	.557	.557	0	%100
51	M53	X	1.003	1.003	0	%100
52	M53	Z	.579	.579	0	%100
53	M58A	X	0	0	0	%100
54	M58A	Z	0	0	0	%100
55	M59A	X	2.678	2.678	0	%100
56	M59A	Z	1.546	1.546	0	%100
57	M60	X	2.678	2.678	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M60	Z	1.546	1.546	0	%100
59	M61	X	3.838	3.838	0	%100
60	M61	Z	2.216	2.216	0	%100
61	M64	X	.724	.724	0	%100
62	M64	Z	.418	.418	0	%100
63	M65	X	.724	.724	0	%100
64	M65	Z	.418	.418	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	0	0	0	%100
67	M70	X	.964	.964	0	%100
68	M70	Z	.557	.557	0	%100
69	M72	X	1.003	1.003	0	%100
70	M72	Z	.579	.579	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	0	0	0	%100
73	M75	X	.964	.964	0	%100
74	M75	Z	.557	.557	0	%100
75	M77A	X	1.003	1.003	0	%100
76	M77A	Z	.579	.579	0	%100
77	MP3A	X	2.599	2.599	0	%100
78	MP3A	Z	1.5	1.5	0	%100
79	MP2A	X	2.599	2.599	0	%100
80	MP2A	Z	1.5	1.5	0	%100
81	MP1A	X	2.599	2.599	0	%100
82	MP1A	Z	1.5	1.5	0	%100
83	M82	X	.821	.821	0	%100
84	M82	Z	.474	.474	0	%100
85	MP4C	X	2.599	2.599	0	%100
86	MP4C	Z	1.5	1.5	0	%100
87	MP3C	X	2.599	2.599	0	%100
88	MP3C	Z	1.5	1.5	0	%100
89	MP2C	X	2.599	2.599	0	%100
90	MP2C	Z	1.5	1.5	0	%100
91	MP1C	X	2.599	2.599	0	%100
92	MP1C	Z	1.5	1.5	0	%100
93	M91A	X	3.284	3.284	0	%100
94	M91A	Z	1.896	1.896	0	%100
95	MP4B	X	2.599	2.599	0	%100
96	MP4B	Z	1.5	1.5	0	%100
97	MP3B	X	2.599	2.599	0	%100
98	MP3B	Z	1.5	1.5	0	%100
99	MP2B	X	2.599	2.599	0	%100
100	MP2B	Z	1.5	1.5	0	%100
101	MP1B	X	2.599	2.599	0	%100
102	MP1B	Z	1.5	1.5	0	%100
103	M100	X	.821	.821	0	%100
104	M100	Z	.474	.474	0	%100
105	M105	X	.821	.821	0	%100
106	M105	Z	.474	.474	0	%100
107	M110	X	3.284	3.284	0	%100
108	M110	Z	1.896	1.896	0	%100
109	M115	X	.576	.576	0	%100
110	M115	Z	.333	.333	0	%100
111	M116	X	.576	.576	0	%100
112	M116	Z	.333	.333	0	%100
113	M117	X	2.306	2.306	0	%100
114	M117	Z	1.331	1.331	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.422	1.422	0	%100
2	M1	Z	2.463	2.463	0	%100
3	M4	X	.471	.471	0	%100
4	M4	Z	.816	.816	0	%100
5	M10	X	1.16	1.16	0	%100
6	M10	Z	2.008	2.008	0	%100
7	MP4A	X	1.458	1.458	0	%100
8	MP4A	Z	2.525	2.525	0	%100
9	M43	X	1.16	1.16	0	%100
10	M43	Z	2.008	2.008	0	%100
11	M46	X	1.662	1.662	0	%100
12	M46	Z	2.878	2.878	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	1.254	1.254	0	%100
16	M52B	Z	2.173	2.173	0	%100
17	M76	X	.549	.549	0	%100
18	M76	Z	.951	.951	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	.549	.549	0	%100
24	M84	Z	.951	.951	0	%100
25	M85	X	1.67	1.67	0	%100
26	M85	Z	2.892	2.892	0	%100
27	M91	X	1.737	1.737	0	%100
28	M91	Z	3.009	3.009	0	%100
29	M34	X	1.886	1.886	0	%100
30	M34	Z	3.266	3.266	0	%100
31	M35	X	0	0	0	%100
32	M35	Z	0	0	0	%100
33	M36	X	0	0	0	%100
34	M36	Z	0	0	0	%100
35	M37	X	0	0	0	%100
36	M37	Z	0	0	0	%100
37	M40	X	1.254	1.254	0	%100
38	M40	Z	2.173	2.173	0	%100
39	M41	X	1.254	1.254	0	%100
40	M41	Z	2.173	2.173	0	%100
41	M45	X	2.196	2.196	0	%100
42	M45	Z	3.803	3.803	0	%100
43	M46A	X	1.67	1.67	0	%100
44	M46A	Z	2.892	2.892	0	%100
45	M48	X	1.737	1.737	0	%100
46	M48	Z	3.009	3.009	0	%100
47	M50A	X	2.196	2.196	0	%100
48	M50A	Z	3.803	3.803	0	%100
49	M51C	X	1.67	1.67	0	%100
50	M51C	Z	2.892	2.892	0	%100
51	M53	X	1.737	1.737	0	%100
52	M53	Z	3.009	3.009	0	%100
53	M58A	X	.471	.471	0	%100
54	M58A	Z	.816	.816	0	%100
55	M59A	X	1.16	1.16	0	%100
56	M59A	Z	2.008	2.008	0	%100
57	M60	X	1.16	1.16	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,%]
58	M60	Z	2.008	2.008	0	%100
59	M61	X	1.662	1.662	0	%100
60	M61	Z	2.878	2.878	0	%100
61	M64	X	1.254	1.254	0	%100
62	M64	Z	2.173	2.173	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	0	0	0	%100
65	M69	X	.549	.549	0	%100
66	M69	Z	.951	.951	0	%100
67	M70	X	1.67	1.67	0	%100
68	M70	Z	2.892	2.892	0	%100
69	M72	X	1.737	1.737	0	%100
70	M72	Z	3.009	3.009	0	%100
71	M74	X	.549	.549	0	%100
72	M74	Z	.951	.951	0	%100
73	M75	X	0	0	0	%100
74	M75	Z	0	0	0	%100
75	M77A	X	0	0	0	%100
76	M77A	Z	0	0	0	%100
77	MP3A	X	1.458	1.458	0	%100
78	MP3A	Z	2.525	2.525	0	%100
79	MP2A	X	1.458	1.458	0	%100
80	MP2A	Z	2.525	2.525	0	%100
81	MP1A	X	1.458	1.458	0	%100
82	MP1A	Z	2.525	2.525	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	0	0	0	%100
85	MP4C	X	1.458	1.458	0	%100
86	MP4C	Z	2.525	2.525	0	%100
87	MP3C	X	1.458	1.458	0	%100
88	MP3C	Z	2.525	2.525	0	%100
89	MP2C	X	1.458	1.458	0	%100
90	MP2C	Z	2.525	2.525	0	%100
91	MP1C	X	1.458	1.458	0	%100
92	MP1C	Z	2.525	2.525	0	%100
93	M91A	X	1.422	1.422	0	%100
94	M91A	Z	2.463	2.463	0	%100
95	MP4B	X	1.458	1.458	0	%100
96	MP4B	Z	2.525	2.525	0	%100
97	MP3B	X	1.458	1.458	0	%100
98	MP3B	Z	2.525	2.525	0	%100
99	MP2B	X	1.458	1.458	0	%100
100	MP2B	Z	2.525	2.525	0	%100
101	MP1B	X	1.458	1.458	0	%100
102	MP1B	Z	2.525	2.525	0	%100
103	M100	X	1.422	1.422	0	%100
104	M100	Z	2.463	2.463	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	0	0	0	%100
107	M110	X	1.422	1.422	0	%100
108	M110	Z	2.463	2.463	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	0	0	0	%100
111	M116	X	.999	.999	0	%100
112	M116	Z	1.729	1.729	0	%100
113	M117	X	.999	.999	0	%100
114	M117	Z	1.729	1.729	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	3.791	3.791	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	3.092	3.092	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	2.874	2.874	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	3.092	3.092	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	4.431	4.431	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	.836	.836	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	.836	.836	0	%100
17	M76	X	0	0	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	1.113	1.113	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	1.158	1.158	0	%100
23	M84	X	0	0	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	1.113	1.113	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	1.158	1.158	0	%100
29	M34	X	0	0	0	%100
30	M34	Z	2.828	2.828	0	%100
31	M35	X	0	0	0	%100
32	M35	Z	.773	.773	0	%100
33	M36	X	0	0	0	%100
34	M36	Z	.773	.773	0	%100
35	M37	X	0	0	0	%100
36	M37	Z	1.108	1.108	0	%100
37	M40	X	0	0	0	%100
38	M40	Z	.836	.836	0	%100
39	M41	X	0	0	0	%100
40	M41	Z	3.345	3.345	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	3.294	3.294	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	1.113	1.113	0	%100
45	M48	X	0	0	0	%100
46	M48	Z	1.158	1.158	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	3.294	3.294	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	4.453	4.453	0	%100
51	M53	X	0	0	0	%100
52	M53	Z	4.633	4.633	0	%100
53	M58A	X	0	0	0	%100
54	M58A	Z	2.828	2.828	0	%100
55	M59A	X	0	0	0	%100
56	M59A	Z	.773	.773	0	%100
57	M60	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M60	Z	.773	.773	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	1.108	1.108	0	%100
61	M64	X	0	0	0	%100
62	M64	Z	3.345	3.345	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	.836	.836	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	3.294	3.294	0	%100
67	M70	X	0	0	0	%100
68	M70	Z	4.453	4.453	0	%100
69	M72	X	0	0	0	%100
70	M72	Z	4.633	4.633	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	3.294	3.294	0	%100
73	M75	X	0	0	0	%100
74	M75	Z	1.113	1.113	0	%100
75	M77A	X	0	0	0	%100
76	M77A	Z	1.158	1.158	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	2.874	2.874	0	%100
79	MP2A	X	0	0	0	%100
80	MP2A	Z	2.874	2.874	0	%100
81	MP1A	X	0	0	0	%100
82	MP1A	Z	2.874	2.874	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	.948	.948	0	%100
85	MP4C	X	0	0	0	%100
86	MP4C	Z	2.874	2.874	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	2.874	2.874	0	%100
89	MP2C	X	0	0	0	%100
90	MP2C	Z	2.874	2.874	0	%100
91	MP1C	X	0	0	0	%100
92	MP1C	Z	2.874	2.874	0	%100
93	M91A	X	0	0	0	%100
94	M91A	Z	.948	.948	0	%100
95	MP4B	X	0	0	0	%100
96	MP4B	Z	2.874	2.874	0	%100
97	MP3B	X	0	0	0	%100
98	MP3B	Z	2.874	2.874	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	2.874	2.874	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	2.874	2.874	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	3.791	3.791	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	.948	.948	0	%100
107	M110	X	0	0	0	%100
108	M110	Z	.948	.948	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	.666	.666	0	%100
111	M116	X	0	0	0	%100
112	M116	Z	2.663	2.663	0	%100
113	M117	X	0	0	0	%100
114	M117	Z	.666	.666	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.422	-1.422	0	%100
2	M1	Z	2.463	2.463	0	%100
3	M4	X	-.471	-.471	0	%100
4	M4	Z	.816	.816	0	%100
5	M10	X	-1.16	-1.16	0	%100
6	M10	Z	2.008	2.008	0	%100
7	MP4A	X	-1.458	-1.458	0	%100
8	MP4A	Z	2.525	2.525	0	%100
9	M43	X	-1.16	-1.16	0	%100
10	M43	Z	2.008	2.008	0	%100
11	M46	X	-1.662	-1.662	0	%100
12	M46	Z	2.878	2.878	0	%100
13	M51B	X	-1.254	-1.254	0	%100
14	M51B	Z	2.173	2.173	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	-.549	-.549	0	%100
18	M76	Z	.951	.951	0	%100
19	M77	X	-1.67	-1.67	0	%100
20	M77	Z	2.892	2.892	0	%100
21	M80	X	-1.737	-1.737	0	%100
22	M80	Z	3.009	3.009	0	%100
23	M84	X	-.549	-.549	0	%100
24	M84	Z	.951	.951	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	0	0	0	%100
29	M34	X	-.471	-.471	0	%100
30	M34	Z	.816	.816	0	%100
31	M35	X	-1.16	-1.16	0	%100
32	M35	Z	2.008	2.008	0	%100
33	M36	X	-1.16	-1.16	0	%100
34	M36	Z	2.008	2.008	0	%100
35	M37	X	-1.662	-1.662	0	%100
36	M37	Z	2.878	2.878	0	%100
37	M40	X	0	0	0	%100
38	M40	Z	0	0	0	%100
39	M41	X	-1.254	-1.254	0	%100
40	M41	Z	2.173	2.173	0	%100
41	M45	X	-.549	-.549	0	%100
42	M45	Z	.951	.951	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	0	0	0	%100
45	M48	X	0	0	0	%100
46	M48	Z	0	0	0	%100
47	M50A	X	-.549	-.549	0	%100
48	M50A	Z	.951	.951	0	%100
49	M51C	X	-1.67	-1.67	0	%100
50	M51C	Z	2.892	2.892	0	%100
51	M53	X	-1.737	-1.737	0	%100
52	M53	Z	3.009	3.009	0	%100
53	M58A	X	-1.886	-1.886	0	%100
54	M58A	Z	3.266	3.266	0	%100
55	M59A	X	0	0	0	%100
56	M59A	Z	0	0	0	%100
57	M60	X	0	0	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,%]
58	M60	Z	0	0	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	0	0	0	%100
61	M64	X	-1.254	-1.254	0	%100
62	M64	Z	2.173	2.173	0	%100
63	M65	X	-1.254	-1.254	0	%100
64	M65	Z	2.173	2.173	0	%100
65	M69	X	-2.196	-2.196	0	%100
66	M69	Z	3.803	3.803	0	%100
67	M70	X	-1.67	-1.67	0	%100
68	M70	Z	2.892	2.892	0	%100
69	M72	X	-1.737	-1.737	0	%100
70	M72	Z	3.009	3.009	0	%100
71	M74	X	-2.196	-2.196	0	%100
72	M74	Z	3.803	3.803	0	%100
73	M75	X	-1.67	-1.67	0	%100
74	M75	Z	2.892	2.892	0	%100
75	M77A	X	-1.737	-1.737	0	%100
76	M77A	Z	3.009	3.009	0	%100
77	MP3A	X	-1.458	-1.458	0	%100
78	MP3A	Z	2.525	2.525	0	%100
79	MP2A	X	-1.458	-1.458	0	%100
80	MP2A	Z	2.525	2.525	0	%100
81	MP1A	X	-1.458	-1.458	0	%100
82	MP1A	Z	2.525	2.525	0	%100
83	M82	X	-1.422	-1.422	0	%100
84	M82	Z	2.463	2.463	0	%100
85	MP4C	X	-1.458	-1.458	0	%100
86	MP4C	Z	2.525	2.525	0	%100
87	MP3C	X	-1.458	-1.458	0	%100
88	MP3C	Z	2.525	2.525	0	%100
89	MP2C	X	-1.458	-1.458	0	%100
90	MP2C	Z	2.525	2.525	0	%100
91	MP1C	X	-1.458	-1.458	0	%100
92	MP1C	Z	2.525	2.525	0	%100
93	M91A	X	0	0	0	%100
94	M91A	Z	0	0	0	%100
95	MP4B	X	-1.458	-1.458	0	%100
96	MP4B	Z	2.525	2.525	0	%100
97	MP3B	X	-1.458	-1.458	0	%100
98	MP3B	Z	2.525	2.525	0	%100
99	MP2B	X	-1.458	-1.458	0	%100
100	MP2B	Z	2.525	2.525	0	%100
101	MP1B	X	-1.458	-1.458	0	%100
102	MP1B	Z	2.525	2.525	0	%100
103	M100	X	-1.422	-1.422	0	%100
104	M100	Z	2.463	2.463	0	%100
105	M105	X	-1.422	-1.422	0	%100
106	M105	Z	2.463	2.463	0	%100
107	M110	X	0	0	0	%100
108	M110	Z	0	0	0	%100
109	M115	X	-.999	-.999	0	%100
110	M115	Z	1.729	1.729	0	%100
111	M116	X	-.999	-.999	0	%100
112	M116	Z	1.729	1.729	0	%100
113	M117	X	0	0	0	%100
114	M117	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	M1	X	-.821	-.821	0	%100
2	M1	Z	.474	.474	0	%100
3	M4	X	-2.449	-2.449	0	%100
4	M4	Z	1.414	1.414	0	%100
5	M10	X	-.669	-.669	0	%100
6	M10	Z	.387	.387	0	%100
7	MP4A	X	-2.599	-2.599	0	%100
8	MP4A	Z	1.5	1.5	0	%100
9	M43	X	-.669	-.669	0	%100
10	M43	Z	.387	.387	0	%100
11	M46	X	-.959	-.959	0	%100
12	M46	Z	.554	.554	0	%100
13	M51B	X	-2.897	-2.897	0	%100
14	M51B	Z	1.673	1.673	0	%100
15	M52B	X	-.724	-.724	0	%100
16	M52B	Z	.418	.418	0	%100
17	M76	X	-2.852	-2.852	0	%100
18	M76	Z	1.647	1.647	0	%100
19	M77	X	-3.856	-3.856	0	%100
20	M77	Z	2.226	2.226	0	%100
21	M80	X	-4.012	-4.012	0	%100
22	M80	Z	2.316	2.316	0	%100
23	M84	X	-2.852	-2.852	0	%100
24	M84	Z	1.647	1.647	0	%100
25	M85	X	-.964	-.964	0	%100
26	M85	Z	.557	.557	0	%100
27	M91	X	-1.003	-1.003	0	%100
28	M91	Z	.579	.579	0	%100
29	M34	X	0	0	0	%100
30	M34	Z	0	0	0	%100
31	M35	X	-2.678	-2.678	0	%100
32	M35	Z	1.546	1.546	0	%100
33	M36	X	-2.678	-2.678	0	%100
34	M36	Z	1.546	1.546	0	%100
35	M37	X	-3.838	-3.838	0	%100
36	M37	Z	2.216	2.216	0	%100
37	M40	X	-.724	-.724	0	%100
38	M40	Z	.418	.418	0	%100
39	M41	X	-.724	-.724	0	%100
40	M41	Z	.418	.418	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	-.964	-.964	0	%100
44	M46A	Z	.557	.557	0	%100
45	M48	X	-1.003	-1.003	0	%100
46	M48	Z	.579	.579	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	-.964	-.964	0	%100
50	M51C	Z	.557	.557	0	%100
51	M53	X	-1.003	-1.003	0	%100
52	M53	Z	.579	.579	0	%100
53	M58A	X	-2.449	-2.449	0	%100
54	M58A	Z	1.414	1.414	0	%100
55	M59A	X	-.669	-.669	0	%100
56	M59A	Z	.387	.387	0	%100
57	M60	X	-.669	-.669	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,%]
58	M60	Z	.387	.387	0	%100
59	M61	X	-.959	-.959	0	%100
60	M61	Z	.554	.554	0	%100
61	M64	X	-.724	-.724	0	%100
62	M64	Z	.418	.418	0	%100
63	M65	X	-2.897	-2.897	0	%100
64	M65	Z	1.673	1.673	0	%100
65	M69	X	-2.852	-2.852	0	%100
66	M69	Z	1.647	1.647	0	%100
67	M70	X	-.964	-.964	0	%100
68	M70	Z	.557	.557	0	%100
69	M72	X	-1.003	-1.003	0	%100
70	M72	Z	.579	.579	0	%100
71	M74	X	-2.852	-2.852	0	%100
72	M74	Z	1.647	1.647	0	%100
73	M75	X	-3.856	-3.856	0	%100
74	M75	Z	2.226	2.226	0	%100
75	M77A	X	-4.012	-4.012	0	%100
76	M77A	Z	2.316	2.316	0	%100
77	MP3A	X	-2.599	-2.599	0	%100
78	MP3A	Z	1.5	1.5	0	%100
79	MP2A	X	-2.599	-2.599	0	%100
80	MP2A	Z	1.5	1.5	0	%100
81	MP1A	X	-2.599	-2.599	0	%100
82	MP1A	Z	1.5	1.5	0	%100
83	M82	X	-3.284	-3.284	0	%100
84	M82	Z	1.896	1.896	0	%100
85	MP4C	X	-2.599	-2.599	0	%100
86	MP4C	Z	1.5	1.5	0	%100
87	MP3C	X	-2.599	-2.599	0	%100
88	MP3C	Z	1.5	1.5	0	%100
89	MP2C	X	-2.599	-2.599	0	%100
90	MP2C	Z	1.5	1.5	0	%100
91	MP1C	X	-2.599	-2.599	0	%100
92	MP1C	Z	1.5	1.5	0	%100
93	M91A	X	-.821	-.821	0	%100
94	M91A	Z	.474	.474	0	%100
95	MP4B	X	-2.599	-2.599	0	%100
96	MP4B	Z	1.5	1.5	0	%100
97	MP3B	X	-2.599	-2.599	0	%100
98	MP3B	Z	1.5	1.5	0	%100
99	MP2B	X	-2.599	-2.599	0	%100
100	MP2B	Z	1.5	1.5	0	%100
101	MP1B	X	-2.599	-2.599	0	%100
102	MP1B	Z	1.5	1.5	0	%100
103	M100	X	-.821	-.821	0	%100
104	M100	Z	.474	.474	0	%100
105	M105	X	-3.284	-3.284	0	%100
106	M105	Z	1.896	1.896	0	%100
107	M110	X	-.821	-.821	0	%100
108	M110	Z	.474	.474	0	%100
109	M115	X	-2.306	-2.306	0	%100
110	M115	Z	1.331	1.331	0	%100
111	M116	X	-.576	-.576	0	%100
112	M116	Z	.333	.333	0	%100
113	M117	X	-.576	-.576	0	%100
114	M117	Z	.333	.333	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-3.771	-3.771	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP4A	X	-3.043	-3.043	0	%100
8	MP4A	Z	0	0	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	0	0	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	0	0	0	%100
13	M51B	X	-2.509	-2.509	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	-2.509	-2.509	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	-4.391	-4.391	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	-3.339	-3.339	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	-3.474	-3.474	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	-4.391	-4.391	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	-3.339	-3.339	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	-3.474	-3.474	0	%100
28	M91	Z	0	0	0	%100
29	M34	X	-.943	-.943	0	%100
30	M34	Z	0	0	0	%100
31	M35	X	-2.319	-2.319	0	%100
32	M35	Z	0	0	0	%100
33	M36	X	-2.319	-2.319	0	%100
34	M36	Z	0	0	0	%100
35	M37	X	-3.323	-3.323	0	%100
36	M37	Z	0	0	0	%100
37	M40	X	-2.509	-2.509	0	%100
38	M40	Z	0	0	0	%100
39	M41	X	0	0	0	%100
40	M41	Z	0	0	0	%100
41	M45	X	-1.098	-1.098	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	-3.339	-3.339	0	%100
44	M46A	Z	0	0	0	%100
45	M48	X	-3.474	-3.474	0	%100
46	M48	Z	0	0	0	%100
47	M50A	X	-1.098	-1.098	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	0	0	0	%100
51	M53	X	0	0	0	%100
52	M53	Z	0	0	0	%100
53	M58A	X	-.943	-.943	0	%100
54	M58A	Z	0	0	0	%100
55	M59A	X	-2.319	-2.319	0	%100
56	M59A	Z	0	0	0	%100
57	M60	X	-2.319	-2.319	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	M60	Z	0	0	0	%100
59	M61	X	-3.323	-3.323	0	%100
60	M61	Z	0	0	0	%100
61	M64	X	0	0	0	%100
62	M64	Z	0	0	0	%100
63	M65	X	-2.509	-2.509	0	%100
64	M65	Z	0	0	0	%100
65	M69	X	-1.098	-1.098	0	%100
66	M69	Z	0	0	0	%100
67	M70	X	0	0	0	%100
68	M70	Z	0	0	0	%100
69	M72	X	0	0	0	%100
70	M72	Z	0	0	0	%100
71	M74	X	-1.098	-1.098	0	%100
72	M74	Z	0	0	0	%100
73	M75	X	-3.339	-3.339	0	%100
74	M75	Z	0	0	0	%100
75	M77A	X	-3.474	-3.474	0	%100
76	M77A	Z	0	0	0	%100
77	MP3A	X	-3.043	-3.043	0	%100
78	MP3A	Z	0	0	0	%100
79	MP2A	X	-3.043	-3.043	0	%100
80	MP2A	Z	0	0	0	%100
81	MP1A	X	-3.043	-3.043	0	%100
82	MP1A	Z	0	0	0	%100
83	M82	X	-2.844	-2.844	0	%100
84	M82	Z	0	0	0	%100
85	MP4C	X	-3.043	-3.043	0	%100
86	MP4C	Z	0	0	0	%100
87	MP3C	X	-3.043	-3.043	0	%100
88	MP3C	Z	0	0	0	%100
89	MP2C	X	-3.043	-3.043	0	%100
90	MP2C	Z	0	0	0	%100
91	MP1C	X	-3.043	-3.043	0	%100
92	MP1C	Z	0	0	0	%100
93	M91A	X	-2.844	-2.844	0	%100
94	M91A	Z	0	0	0	%100
95	MP4B	X	-3.043	-3.043	0	%100
96	MP4B	Z	0	0	0	%100
97	MP3B	X	-3.043	-3.043	0	%100
98	MP3B	Z	0	0	0	%100
99	MP2B	X	-3.043	-3.043	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	-3.043	-3.043	0	%100
102	MP1B	Z	0	0	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	0	0	0	%100
105	M105	X	-2.844	-2.844	0	%100
106	M105	Z	0	0	0	%100
107	M110	X	-2.844	-2.844	0	%100
108	M110	Z	0	0	0	%100
109	M115	X	-1.997	-1.997	0	%100
110	M115	Z	0	0	0	%100
111	M116	X	0	0	0	%100
112	M116	Z	0	0	0	%100
113	M117	X	-1.997	-1.997	0	%100
114	M117	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.821	-.821	0	%100
2	M1	Z	-.474	-.474	0	%100
3	M4	X	-2.449	-2.449	0	%100
4	M4	Z	-1.414	-1.414	0	%100
5	M10	X	-.669	-.669	0	%100
6	M10	Z	-.387	-.387	0	%100
7	MP4A	X	-2.599	-2.599	0	%100
8	MP4A	Z	-1.5	-1.5	0	%100
9	M43	X	-.669	-.669	0	%100
10	M43	Z	-.387	-.387	0	%100
11	M46	X	-.959	-.959	0	%100
12	M46	Z	-.554	-.554	0	%100
13	M51B	X	-.724	-.724	0	%100
14	M51B	Z	-.418	-.418	0	%100
15	M52B	X	-2.897	-2.897	0	%100
16	M52B	Z	-1.673	-1.673	0	%100
17	M76	X	-2.852	-2.852	0	%100
18	M76	Z	-1.647	-1.647	0	%100
19	M77	X	-.964	-.964	0	%100
20	M77	Z	-.557	-.557	0	%100
21	M80	X	-1.003	-1.003	0	%100
22	M80	Z	-.579	-.579	0	%100
23	M84	X	-2.852	-2.852	0	%100
24	M84	Z	-1.647	-1.647	0	%100
25	M85	X	-3.856	-3.856	0	%100
26	M85	Z	-2.226	-2.226	0	%100
27	M91	X	-4.012	-4.012	0	%100
28	M91	Z	-2.316	-2.316	0	%100
29	M34	X	-2.449	-2.449	0	%100
30	M34	Z	-1.414	-1.414	0	%100
31	M35	X	-.669	-.669	0	%100
32	M35	Z	-.387	-.387	0	%100
33	M36	X	-.669	-.669	0	%100
34	M36	Z	-.387	-.387	0	%100
35	M37	X	-.959	-.959	0	%100
36	M37	Z	-.554	-.554	0	%100
37	M40	X	-2.897	-2.897	0	%100
38	M40	Z	-1.673	-1.673	0	%100
39	M41	X	-.724	-.724	0	%100
40	M41	Z	-.418	-.418	0	%100
41	M45	X	-2.852	-2.852	0	%100
42	M45	Z	-1.647	-1.647	0	%100
43	M46A	X	-3.856	-3.856	0	%100
44	M46A	Z	-2.226	-2.226	0	%100
45	M48	X	-4.012	-4.012	0	%100
46	M48	Z	-2.316	-2.316	0	%100
47	M50A	X	-2.852	-2.852	0	%100
48	M50A	Z	-1.647	-1.647	0	%100
49	M51C	X	-.964	-.964	0	%100
50	M51C	Z	-.557	-.557	0	%100
51	M53	X	-1.003	-1.003	0	%100
52	M53	Z	-.579	-.579	0	%100
53	M58A	X	0	0	0	%100
54	M58A	Z	0	0	0	%100
55	M59A	X	-2.678	-2.678	0	%100
56	M59A	Z	-1.546	-1.546	0	%100
57	M60	X	-2.678	-2.678	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,%]
58	M60	Z	-1.546	-1.546	0	%100
59	M61	X	-3.838	-3.838	0	%100
60	M61	Z	-2.216	-2.216	0	%100
61	M64	X	-.724	-.724	0	%100
62	M64	Z	-.418	-.418	0	%100
63	M65	X	-.724	-.724	0	%100
64	M65	Z	-.418	-.418	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	0	0	0	%100
67	M70	X	-.964	-.964	0	%100
68	M70	Z	-.557	-.557	0	%100
69	M72	X	-1.003	-1.003	0	%100
70	M72	Z	-.579	-.579	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	0	0	0	%100
73	M75	X	-.964	-.964	0	%100
74	M75	Z	-.557	-.557	0	%100
75	M77A	X	-1.003	-1.003	0	%100
76	M77A	Z	-.579	-.579	0	%100
77	MP3A	X	-2.599	-2.599	0	%100
78	MP3A	Z	-1.5	-1.5	0	%100
79	MP2A	X	-2.599	-2.599	0	%100
80	MP2A	Z	-1.5	-1.5	0	%100
81	MP1A	X	-2.599	-2.599	0	%100
82	MP1A	Z	-1.5	-1.5	0	%100
83	M82	X	-.821	-.821	0	%100
84	M82	Z	-.474	-.474	0	%100
85	MP4C	X	-2.599	-2.599	0	%100
86	MP4C	Z	-1.5	-1.5	0	%100
87	MP3C	X	-2.599	-2.599	0	%100
88	MP3C	Z	-1.5	-1.5	0	%100
89	MP2C	X	-2.599	-2.599	0	%100
90	MP2C	Z	-1.5	-1.5	0	%100
91	MP1C	X	-2.599	-2.599	0	%100
92	MP1C	Z	-1.5	-1.5	0	%100
93	M91A	X	-3.284	-3.284	0	%100
94	M91A	Z	-1.896	-1.896	0	%100
95	MP4B	X	-2.599	-2.599	0	%100
96	MP4B	Z	-1.5	-1.5	0	%100
97	MP3B	X	-2.599	-2.599	0	%100
98	MP3B	Z	-1.5	-1.5	0	%100
99	MP2B	X	-2.599	-2.599	0	%100
100	MP2B	Z	-1.5	-1.5	0	%100
101	MP1B	X	-2.599	-2.599	0	%100
102	MP1B	Z	-1.5	-1.5	0	%100
103	M100	X	-.821	-.821	0	%100
104	M100	Z	-.474	-.474	0	%100
105	M105	X	-.821	-.821	0	%100
106	M105	Z	-.474	-.474	0	%100
107	M110	X	-3.284	-3.284	0	%100
108	M110	Z	-1.896	-1.896	0	%100
109	M115	X	-.576	-.576	0	%100
110	M115	Z	-.333	-.333	0	%100
111	M116	X	-.576	-.576	0	%100
112	M116	Z	-.333	-.333	0	%100
113	M117	X	-2.306	-2.306	0	%100
114	M117	Z	-1.331	-1.331	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.422	-1.422	0	%100
2	M1	Z	-2.463	-2.463	0	%100
3	M4	X	-.471	-.471	0	%100
4	M4	Z	-.816	-.816	0	%100
5	M10	X	-1.16	-1.16	0	%100
6	M10	Z	-2.008	-2.008	0	%100
7	MP4A	X	-1.458	-1.458	0	%100
8	MP4A	Z	-2.525	-2.525	0	%100
9	M43	X	-1.16	-1.16	0	%100
10	M43	Z	-2.008	-2.008	0	%100
11	M46	X	-1.662	-1.662	0	%100
12	M46	Z	-2.878	-2.878	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	-1.254	-1.254	0	%100
16	M52B	Z	-2.173	-2.173	0	%100
17	M76	X	-.549	-.549	0	%100
18	M76	Z	-.951	-.951	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	-.549	-.549	0	%100
24	M84	Z	-.951	-.951	0	%100
25	M85	X	-1.67	-1.67	0	%100
26	M85	Z	-2.892	-2.892	0	%100
27	M91	X	-1.737	-1.737	0	%100
28	M91	Z	-3.009	-3.009	0	%100
29	M34	X	-1.886	-1.886	0	%100
30	M34	Z	-3.266	-3.266	0	%100
31	M35	X	0	0	0	%100
32	M35	Z	0	0	0	%100
33	M36	X	0	0	0	%100
34	M36	Z	0	0	0	%100
35	M37	X	0	0	0	%100
36	M37	Z	0	0	0	%100
37	M40	X	-1.254	-1.254	0	%100
38	M40	Z	-2.173	-2.173	0	%100
39	M41	X	-1.254	-1.254	0	%100
40	M41	Z	-2.173	-2.173	0	%100
41	M45	X	-2.196	-2.196	0	%100
42	M45	Z	-3.803	-3.803	0	%100
43	M46A	X	-1.67	-1.67	0	%100
44	M46A	Z	-2.892	-2.892	0	%100
45	M48	X	-1.737	-1.737	0	%100
46	M48	Z	-3.009	-3.009	0	%100
47	M50A	X	-2.196	-2.196	0	%100
48	M50A	Z	-3.803	-3.803	0	%100
49	M51C	X	-1.67	-1.67	0	%100
50	M51C	Z	-2.892	-2.892	0	%100
51	M53	X	-1.737	-1.737	0	%100
52	M53	Z	-3.009	-3.009	0	%100
53	M58A	X	-.471	-.471	0	%100
54	M58A	Z	-.816	-.816	0	%100
55	M59A	X	-1.16	-1.16	0	%100
56	M59A	Z	-2.008	-2.008	0	%100
57	M60	X	-1.16	-1.16	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M60	Z	-2.008	-2.008	0	%100
59	M61	X	-1.662	-1.662	0	%100
60	M61	Z	-2.878	-2.878	0	%100
61	M64	X	-1.254	-1.254	0	%100
62	M64	Z	-2.173	-2.173	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	0	0	0	%100
65	M69	X	-.549	-.549	0	%100
66	M69	Z	-.951	-.951	0	%100
67	M70	X	-1.67	-1.67	0	%100
68	M70	Z	-2.892	-2.892	0	%100
69	M72	X	-1.737	-1.737	0	%100
70	M72	Z	-3.009	-3.009	0	%100
71	M74	X	-.549	-.549	0	%100
72	M74	Z	-.951	-.951	0	%100
73	M75	X	0	0	0	%100
74	M75	Z	0	0	0	%100
75	M77A	X	0	0	0	%100
76	M77A	Z	0	0	0	%100
77	MP3A	X	-1.458	-1.458	0	%100
78	MP3A	Z	-2.525	-2.525	0	%100
79	MP2A	X	-1.458	-1.458	0	%100
80	MP2A	Z	-2.525	-2.525	0	%100
81	MP1A	X	-1.458	-1.458	0	%100
82	MP1A	Z	-2.525	-2.525	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	0	0	0	%100
85	MP4C	X	-1.458	-1.458	0	%100
86	MP4C	Z	-2.525	-2.525	0	%100
87	MP3C	X	-1.458	-1.458	0	%100
88	MP3C	Z	-2.525	-2.525	0	%100
89	MP2C	X	-1.458	-1.458	0	%100
90	MP2C	Z	-2.525	-2.525	0	%100
91	MP1C	X	-1.458	-1.458	0	%100
92	MP1C	Z	-2.525	-2.525	0	%100
93	M91A	X	-1.422	-1.422	0	%100
94	M91A	Z	-2.463	-2.463	0	%100
95	MP4B	X	-1.458	-1.458	0	%100
96	MP4B	Z	-2.525	-2.525	0	%100
97	MP3B	X	-1.458	-1.458	0	%100
98	MP3B	Z	-2.525	-2.525	0	%100
99	MP2B	X	-1.458	-1.458	0	%100
100	MP2B	Z	-2.525	-2.525	0	%100
101	MP1B	X	-1.458	-1.458	0	%100
102	MP1B	Z	-2.525	-2.525	0	%100
103	M100	X	-1.422	-1.422	0	%100
104	M100	Z	-2.463	-2.463	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	0	0	0	%100
107	M110	X	-1.422	-1.422	0	%100
108	M110	Z	-2.463	-2.463	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	0	0	0	%100
111	M116	X	-.999	-.999	0	%100
112	M116	Z	-1.729	-1.729	0	%100
113	M117	X	-.999	-.999	0	%100
114	M117	Z	-1.729	-1.729	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-.694	-.694	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-.648	-.648	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	-.41	-.41	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	-.648	-.648	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	-1.189	-1.189	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	-.165	-.165	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	-.165	-.165	0	%100
17	M76	X	0	0	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	-.303	-.303	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	-.319	-.319	0	%100
23	M84	X	0	0	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	-.303	-.303	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	-.319	-.319	0	%100
29	M34	X	0	0	0	%100
30	M34	Z	-.576	-.576	0	%100
31	M35	X	0	0	0	%100
32	M35	Z	-.162	-.162	0	%100
33	M36	X	0	0	0	%100
34	M36	Z	-.162	-.162	0	%100
35	M37	X	0	0	0	%100
36	M37	Z	-.297	-.297	0	%100
37	M40	X	0	0	0	%100
38	M40	Z	-.165	-.165	0	%100
39	M41	X	0	0	0	%100
40	M41	Z	-.66	-.66	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	-.892	-.892	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	-.303	-.303	0	%100
45	M48	X	0	0	0	%100
46	M48	Z	-.319	-.319	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	-.892	-.892	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	-1.211	-1.211	0	%100
51	M53	X	0	0	0	%100
52	M53	Z	-1.276	-1.276	0	%100
53	M58A	X	0	0	0	%100
54	M58A	Z	-.576	-.576	0	%100
55	M59A	X	0	0	0	%100
56	M59A	Z	-.162	-.162	0	%100
57	M60	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,%]
58	M60	Z	-.162	-.162	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	-.297	-.297	0	%100
61	M64	X	0	0	0	%100
62	M64	Z	-.66	-.66	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	-.165	-.165	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	-.892	-.892	0	%100
67	M70	X	0	0	0	%100
68	M70	Z	-1.211	-1.211	0	%100
69	M72	X	0	0	0	%100
70	M72	Z	-1.276	-1.276	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	-.892	-.892	0	%100
73	M75	X	0	0	0	%100
74	M75	Z	-.303	-.303	0	%100
75	M77A	X	0	0	0	%100
76	M77A	Z	-.319	-.319	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	-.41	-.41	0	%100
79	MP2A	X	0	0	0	%100
80	MP2A	Z	-.41	-.41	0	%100
81	MP1A	X	0	0	0	%100
82	MP1A	Z	-.41	-.41	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	-.173	-.173	0	%100
85	MP4C	X	0	0	0	%100
86	MP4C	Z	-.41	-.41	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	-.41	-.41	0	%100
89	MP2C	X	0	0	0	%100
90	MP2C	Z	-.41	-.41	0	%100
91	MP1C	X	0	0	0	%100
92	MP1C	Z	-.41	-.41	0	%100
93	M91A	X	0	0	0	%100
94	M91A	Z	-.173	-.173	0	%100
95	MP4B	X	0	0	0	%100
96	MP4B	Z	-.41	-.41	0	%100
97	MP3B	X	0	0	0	%100
98	MP3B	Z	-.41	-.41	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	-.41	-.41	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	-.41	-.41	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	-.694	-.694	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	-.173	-.173	0	%100
107	M110	X	0	0	0	%100
108	M110	Z	-.173	-.173	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	-.137	-.137	0	%100
111	M116	X	0	0	0	%100
112	M116	Z	-.549	-.549	0	%100
113	M117	X	0	0	0	%100
114	M117	Z	-.137	-.137	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.26	.26	0	%100
2	M1	Z	-.451	-.451	0	%100
3	M4	X	.096	.096	0	%100
4	M4	Z	-.166	-.166	0	%100
5	M10	X	.243	.243	0	%100
6	M10	Z	-.421	-.421	0	%100
7	MP4A	X	.213	.213	0	%100
8	MP4A	Z	-.368	-.368	0	%100
9	M43	X	.243	.243	0	%100
10	M43	Z	-.421	-.421	0	%100
11	M46	X	.446	.446	0	%100
12	M46	Z	-.773	-.773	0	%100
13	M51B	X	.248	.248	0	%100
14	M51B	Z	-.429	-.429	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	.149	.149	0	%100
18	M76	Z	-.258	-.258	0	%100
19	M77	X	.454	.454	0	%100
20	M77	Z	-.787	-.787	0	%100
21	M80	X	.478	.478	0	%100
22	M80	Z	-.829	-.829	0	%100
23	M84	X	.149	.149	0	%100
24	M84	Z	-.258	-.258	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	0	0	0	%100
29	M34	X	.096	.096	0	%100
30	M34	Z	-.166	-.166	0	%100
31	M35	X	.243	.243	0	%100
32	M35	Z	-.421	-.421	0	%100
33	M36	X	.243	.243	0	%100
34	M36	Z	-.421	-.421	0	%100
35	M37	X	.446	.446	0	%100
36	M37	Z	-.773	-.773	0	%100
37	M40	X	0	0	0	%100
38	M40	Z	0	0	0	%100
39	M41	X	.248	.248	0	%100
40	M41	Z	-.429	-.429	0	%100
41	M45	X	.149	.149	0	%100
42	M45	Z	-.258	-.258	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	0	0	0	%100
45	M48	X	0	0	0	%100
46	M48	Z	0	0	0	%100
47	M50A	X	.149	.149	0	%100
48	M50A	Z	-.258	-.258	0	%100
49	M51C	X	.454	.454	0	%100
50	M51C	Z	-.787	-.787	0	%100
51	M53	X	.478	.478	0	%100
52	M53	Z	-.829	-.829	0	%100
53	M58A	X	.384	.384	0	%100
54	M58A	Z	-.666	-.666	0	%100
55	M59A	X	0	0	0	%100
56	M59A	Z	0	0	0	%100
57	M60	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M60	Z	0	0	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	0	0	0	%100
61	M64	X	.248	.248	0	%100
62	M64	Z	-.429	-.429	0	%100
63	M65	X	.248	.248	0	%100
64	M65	Z	-.429	-.429	0	%100
65	M69	X	.595	.595	0	%100
66	M69	Z	-1.03	-1.03	0	%100
67	M70	X	.454	.454	0	%100
68	M70	Z	-.787	-.787	0	%100
69	M72	X	.478	.478	0	%100
70	M72	Z	-.829	-.829	0	%100
71	M74	X	.595	.595	0	%100
72	M74	Z	-1.03	-1.03	0	%100
73	M75	X	.454	.454	0	%100
74	M75	Z	-.787	-.787	0	%100
75	M77A	X	.478	.478	0	%100
76	M77A	Z	-.829	-.829	0	%100
77	MP3A	X	.213	.213	0	%100
78	MP3A	Z	-.368	-.368	0	%100
79	MP2A	X	.213	.213	0	%100
80	MP2A	Z	-.368	-.368	0	%100
81	MP1A	X	.213	.213	0	%100
82	MP1A	Z	-.368	-.368	0	%100
83	M82	X	.26	.26	0	%100
84	M82	Z	-.451	-.451	0	%100
85	MP4C	X	.213	.213	0	%100
86	MP4C	Z	-.368	-.368	0	%100
87	MP3C	X	.213	.213	0	%100
88	MP3C	Z	-.368	-.368	0	%100
89	MP2C	X	.213	.213	0	%100
90	MP2C	Z	-.368	-.368	0	%100
91	MP1C	X	.213	.213	0	%100
92	MP1C	Z	-.368	-.368	0	%100
93	M91A	X	0	0	0	%100
94	M91A	Z	0	0	0	%100
95	MP4B	X	.213	.213	0	%100
96	MP4B	Z	-.368	-.368	0	%100
97	MP3B	X	.213	.213	0	%100
98	MP3B	Z	-.368	-.368	0	%100
99	MP2B	X	.213	.213	0	%100
100	MP2B	Z	-.368	-.368	0	%100
101	MP1B	X	.213	.213	0	%100
102	MP1B	Z	-.368	-.368	0	%100
103	M100	X	.26	.26	0	%100
104	M100	Z	-.451	-.451	0	%100
105	M105	X	.26	.26	0	%100
106	M105	Z	-.451	-.451	0	%100
107	M110	X	0	0	0	%100
108	M110	Z	0	0	0	%100
109	M115	X	.206	.206	0	%100
110	M115	Z	-.356	-.356	0	%100
111	M116	X	.206	.206	0	%100
112	M116	Z	-.356	-.356	0	%100
113	M117	X	0	0	0	%100
114	M117	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	M1	X	.15	.15	0	%100
2	M1	Z	-.087	-.087	0	%100
3	M4	X	.499	.499	0	%100
4	M4	Z	-.288	-.288	0	%100
5	M10	X	.14	.14	0	%100
6	M10	Z	-.081	-.081	0	%100
7	MP4A	X	.395	.395	0	%100
8	MP4A	Z	-.228	-.228	0	%100
9	M43	X	.14	.14	0	%100
10	M43	Z	-.081	-.081	0	%100
11	M46	X	.258	.258	0	%100
12	M46	Z	-.149	-.149	0	%100
13	M51B	X	.572	.572	0	%100
14	M51B	Z	-.33	-.33	0	%100
15	M52B	X	.143	.143	0	%100
16	M52B	Z	-.083	-.083	0	%100
17	M76	X	.773	.773	0	%100
18	M76	Z	-.446	-.446	0	%100
19	M77	X	1.049	1.049	0	%100
20	M77	Z	-.606	-.606	0	%100
21	M80	X	1.105	1.105	0	%100
22	M80	Z	-.638	-.638	0	%100
23	M84	X	.773	.773	0	%100
24	M84	Z	-.446	-.446	0	%100
25	M85	X	.262	.262	0	%100
26	M85	Z	-.151	-.151	0	%100
27	M91	X	.276	.276	0	%100
28	M91	Z	-.159	-.159	0	%100
29	M34	X	0	0	0	%100
30	M34	Z	0	0	0	%100
31	M35	X	.561	.561	0	%100
32	M35	Z	-.324	-.324	0	%100
33	M36	X	.561	.561	0	%100
34	M36	Z	-.324	-.324	0	%100
35	M37	X	1.03	1.03	0	%100
36	M37	Z	-.595	-.595	0	%100
37	M40	X	.143	.143	0	%100
38	M40	Z	-.083	-.083	0	%100
39	M41	X	.143	.143	0	%100
40	M41	Z	-.083	-.083	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	.262	.262	0	%100
44	M46A	Z	-.151	-.151	0	%100
45	M48	X	.276	.276	0	%100
46	M48	Z	-.159	-.159	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	.262	.262	0	%100
50	M51C	Z	-.151	-.151	0	%100
51	M53	X	.276	.276	0	%100
52	M53	Z	-.159	-.159	0	%100
53	M58A	X	.499	.499	0	%100
54	M58A	Z	-.288	-.288	0	%100
55	M59A	X	.14	.14	0	%100
56	M59A	Z	-.081	-.081	0	%100
57	M60	X	.14	.14	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,%]
58	M60	Z	-.081	-.081	0	%100
59	M61	X	.258	.258	0	%100
60	M61	Z	-.149	-.149	0	%100
61	M64	X	.143	.143	0	%100
62	M64	Z	-.083	-.083	0	%100
63	M65	X	.572	.572	0	%100
64	M65	Z	-.33	-.33	0	%100
65	M69	X	.773	.773	0	%100
66	M69	Z	-.446	-.446	0	%100
67	M70	X	.262	.262	0	%100
68	M70	Z	-.151	-.151	0	%100
69	M72	X	.276	.276	0	%100
70	M72	Z	-.159	-.159	0	%100
71	M74	X	.773	.773	0	%100
72	M74	Z	-.446	-.446	0	%100
73	M75	X	1.049	1.049	0	%100
74	M75	Z	-.606	-.606	0	%100
75	M77A	X	1.105	1.105	0	%100
76	M77A	Z	-.638	-.638	0	%100
77	MP3A	X	.395	.395	0	%100
78	MP3A	Z	-.228	-.228	0	%100
79	MP2A	X	.395	.395	0	%100
80	MP2A	Z	-.228	-.228	0	%100
81	MP1A	X	.395	.395	0	%100
82	MP1A	Z	-.228	-.228	0	%100
83	M82	X	.601	.601	0	%100
84	M82	Z	-.347	-.347	0	%100
85	MP4C	X	.395	.395	0	%100
86	MP4C	Z	-.228	-.228	0	%100
87	MP3C	X	.395	.395	0	%100
88	MP3C	Z	-.228	-.228	0	%100
89	MP2C	X	.395	.395	0	%100
90	MP2C	Z	-.228	-.228	0	%100
91	MP1C	X	.395	.395	0	%100
92	MP1C	Z	-.228	-.228	0	%100
93	M91A	X	.15	.15	0	%100
94	M91A	Z	-.087	-.087	0	%100
95	MP4B	X	.395	.395	0	%100
96	MP4B	Z	-.228	-.228	0	%100
97	MP3B	X	.395	.395	0	%100
98	MP3B	Z	-.228	-.228	0	%100
99	MP2B	X	.395	.395	0	%100
100	MP2B	Z	-.228	-.228	0	%100
101	MP1B	X	.395	.395	0	%100
102	MP1B	Z	-.228	-.228	0	%100
103	M100	X	.15	.15	0	%100
104	M100	Z	-.087	-.087	0	%100
105	M105	X	.601	.601	0	%100
106	M105	Z	-.347	-.347	0	%100
107	M110	X	.15	.15	0	%100
108	M110	Z	-.087	-.087	0	%100
109	M115	X	.475	.475	0	%100
110	M115	Z	-.274	-.274	0	%100
111	M116	X	.119	.119	0	%100
112	M116	Z	-.069	-.069	0	%100
113	M117	X	.119	.119	0	%100
114	M117	Z	-.069	-.069	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	.769	.769	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP4A	X	.471	.471	0	%100
8	MP4A	Z	0	0	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	0	0	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	0	0	0	%100
13	M51B	X	.495	.495	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	.495	.495	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	1.189	1.189	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	.909	.909	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	.957	.957	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	1.189	1.189	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	.909	.909	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	.957	.957	0	%100
28	M91	Z	0	0	0	%100
29	M34	X	.192	.192	0	%100
30	M34	Z	0	0	0	%100
31	M35	X	.486	.486	0	%100
32	M35	Z	0	0	0	%100
33	M36	X	.486	.486	0	%100
34	M36	Z	0	0	0	%100
35	M37	X	.892	.892	0	%100
36	M37	Z	0	0	0	%100
37	M40	X	.495	.495	0	%100
38	M40	Z	0	0	0	%100
39	M41	X	0	0	0	%100
40	M41	Z	0	0	0	%100
41	M45	X	.297	.297	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	.909	.909	0	%100
44	M46A	Z	0	0	0	%100
45	M48	X	.957	.957	0	%100
46	M48	Z	0	0	0	%100
47	M50A	X	.297	.297	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	0	0	0	%100
51	M53	X	0	0	0	%100
52	M53	Z	0	0	0	%100
53	M58A	X	.192	.192	0	%100
54	M58A	Z	0	0	0	%100
55	M59A	X	.486	.486	0	%100
56	M59A	Z	0	0	0	%100
57	M60	X	.486	.486	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,%]
58	M60	Z	0	0	0	%100
59	M61	X	.892	.892	0	%100
60	M61	Z	0	0	0	%100
61	M64	X	0	0	0	%100
62	M64	Z	0	0	0	%100
63	M65	X	.495	.495	0	%100
64	M65	Z	0	0	0	%100
65	M69	X	.297	.297	0	%100
66	M69	Z	0	0	0	%100
67	M70	X	0	0	0	%100
68	M70	Z	0	0	0	%100
69	M72	X	0	0	0	%100
70	M72	Z	0	0	0	%100
71	M74	X	.297	.297	0	%100
72	M74	Z	0	0	0	%100
73	M75	X	.909	.909	0	%100
74	M75	Z	0	0	0	%100
75	M77A	X	.957	.957	0	%100
76	M77A	Z	0	0	0	%100
77	MP3A	X	.471	.471	0	%100
78	MP3A	Z	0	0	0	%100
79	MP2A	X	.471	.471	0	%100
80	MP2A	Z	0	0	0	%100
81	MP1A	X	.471	.471	0	%100
82	MP1A	Z	0	0	0	%100
83	M82	X	.52	.52	0	%100
84	M82	Z	0	0	0	%100
85	MP4C	X	.471	.471	0	%100
86	MP4C	Z	0	0	0	%100
87	MP3C	X	.471	.471	0	%100
88	MP3C	Z	0	0	0	%100
89	MP2C	X	.471	.471	0	%100
90	MP2C	Z	0	0	0	%100
91	MP1C	X	.471	.471	0	%100
92	MP1C	Z	0	0	0	%100
93	M91A	X	.52	.52	0	%100
94	M91A	Z	0	0	0	%100
95	MP4B	X	.471	.471	0	%100
96	MP4B	Z	0	0	0	%100
97	MP3B	X	.471	.471	0	%100
98	MP3B	Z	0	0	0	%100
99	MP2B	X	.471	.471	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	.471	.471	0	%100
102	MP1B	Z	0	0	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	0	0	0	%100
105	M105	X	.52	.52	0	%100
106	M105	Z	0	0	0	%100
107	M110	X	.52	.52	0	%100
108	M110	Z	0	0	0	%100
109	M115	X	.412	.412	0	%100
110	M115	Z	0	0	0	%100
111	M116	X	0	0	0	%100
112	M116	Z	0	0	0	%100
113	M117	X	.412	.412	0	%100
114	M117	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.15	.15	0	%100
2	M1	Z	.087	.087	0	%100
3	M4	X	.499	.499	0	%100
4	M4	Z	.288	.288	0	%100
5	M10	X	.14	.14	0	%100
6	M10	Z	.081	.081	0	%100
7	MP4A	X	.395	.395	0	%100
8	MP4A	Z	.228	.228	0	%100
9	M43	X	.14	.14	0	%100
10	M43	Z	.081	.081	0	%100
11	M46	X	.258	.258	0	%100
12	M46	Z	.149	.149	0	%100
13	M51B	X	.143	.143	0	%100
14	M51B	Z	.083	.083	0	%100
15	M52B	X	.572	.572	0	%100
16	M52B	Z	.33	.33	0	%100
17	M76	X	.773	.773	0	%100
18	M76	Z	.446	.446	0	%100
19	M77	X	.262	.262	0	%100
20	M77	Z	.151	.151	0	%100
21	M80	X	.276	.276	0	%100
22	M80	Z	.159	.159	0	%100
23	M84	X	.773	.773	0	%100
24	M84	Z	.446	.446	0	%100
25	M85	X	1.049	1.049	0	%100
26	M85	Z	.606	.606	0	%100
27	M91	X	1.105	1.105	0	%100
28	M91	Z	.638	.638	0	%100
29	M34	X	.499	.499	0	%100
30	M34	Z	.288	.288	0	%100
31	M35	X	.14	.14	0	%100
32	M35	Z	.081	.081	0	%100
33	M36	X	.14	.14	0	%100
34	M36	Z	.081	.081	0	%100
35	M37	X	.258	.258	0	%100
36	M37	Z	.149	.149	0	%100
37	M40	X	.572	.572	0	%100
38	M40	Z	.33	.33	0	%100
39	M41	X	.143	.143	0	%100
40	M41	Z	.083	.083	0	%100
41	M45	X	.773	.773	0	%100
42	M45	Z	.446	.446	0	%100
43	M46A	X	1.049	1.049	0	%100
44	M46A	Z	.606	.606	0	%100
45	M48	X	1.105	1.105	0	%100
46	M48	Z	.638	.638	0	%100
47	M50A	X	.773	.773	0	%100
48	M50A	Z	.446	.446	0	%100
49	M51C	X	.262	.262	0	%100
50	M51C	Z	.151	.151	0	%100
51	M53	X	.276	.276	0	%100
52	M53	Z	.159	.159	0	%100
53	M58A	X	0	0	0	%100
54	M58A	Z	0	0	0	%100
55	M59A	X	.561	.561	0	%100
56	M59A	Z	.324	.324	0	%100
57	M60	X	.561	.561	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,%]
58	M60	Z	.324	.324	0	%100
59	M61	X	1.03	1.03	0	%100
60	M61	Z	.595	.595	0	%100
61	M64	X	.143	.143	0	%100
62	M64	Z	.083	.083	0	%100
63	M65	X	.143	.143	0	%100
64	M65	Z	.083	.083	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	0	0	0	%100
67	M70	X	.262	.262	0	%100
68	M70	Z	.151	.151	0	%100
69	M72	X	.276	.276	0	%100
70	M72	Z	.159	.159	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	0	0	0	%100
73	M75	X	.262	.262	0	%100
74	M75	Z	.151	.151	0	%100
75	M77A	X	.276	.276	0	%100
76	M77A	Z	.159	.159	0	%100
77	MP3A	X	.395	.395	0	%100
78	MP3A	Z	.228	.228	0	%100
79	MP2A	X	.395	.395	0	%100
80	MP2A	Z	.228	.228	0	%100
81	MP1A	X	.395	.395	0	%100
82	MP1A	Z	.228	.228	0	%100
83	M82	X	.15	.15	0	%100
84	M82	Z	.087	.087	0	%100
85	MP4C	X	.395	.395	0	%100
86	MP4C	Z	.228	.228	0	%100
87	MP3C	X	.395	.395	0	%100
88	MP3C	Z	.228	.228	0	%100
89	MP2C	X	.395	.395	0	%100
90	MP2C	Z	.228	.228	0	%100
91	MP1C	X	.395	.395	0	%100
92	MP1C	Z	.228	.228	0	%100
93	M91A	X	.601	.601	0	%100
94	M91A	Z	.347	.347	0	%100
95	MP4B	X	.395	.395	0	%100
96	MP4B	Z	.228	.228	0	%100
97	MP3B	X	.395	.395	0	%100
98	MP3B	Z	.228	.228	0	%100
99	MP2B	X	.395	.395	0	%100
100	MP2B	Z	.228	.228	0	%100
101	MP1B	X	.395	.395	0	%100
102	MP1B	Z	.228	.228	0	%100
103	M100	X	.15	.15	0	%100
104	M100	Z	.087	.087	0	%100
105	M105	X	.15	.15	0	%100
106	M105	Z	.087	.087	0	%100
107	M110	X	.601	.601	0	%100
108	M110	Z	.347	.347	0	%100
109	M115	X	.119	.119	0	%100
110	M115	Z	.069	.069	0	%100
111	M116	X	.119	.119	0	%100
112	M116	Z	.069	.069	0	%100
113	M117	X	.475	.475	0	%100
114	M117	Z	.274	.274	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.26	.26	0	%100
2	M1	Z	.451	.451	0	%100
3	M4	X	.096	.096	0	%100
4	M4	Z	.166	.166	0	%100
5	M10	X	.243	.243	0	%100
6	M10	Z	.421	.421	0	%100
7	MP4A	X	.213	.213	0	%100
8	MP4A	Z	.368	.368	0	%100
9	M43	X	.243	.243	0	%100
10	M43	Z	.421	.421	0	%100
11	M46	X	.446	.446	0	%100
12	M46	Z	.773	.773	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	.248	.248	0	%100
16	M52B	Z	.429	.429	0	%100
17	M76	X	.149	.149	0	%100
18	M76	Z	.258	.258	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	.149	.149	0	%100
24	M84	Z	.258	.258	0	%100
25	M85	X	.454	.454	0	%100
26	M85	Z	.787	.787	0	%100
27	M91	X	.478	.478	0	%100
28	M91	Z	.829	.829	0	%100
29	M34	X	.384	.384	0	%100
30	M34	Z	.666	.666	0	%100
31	M35	X	0	0	0	%100
32	M35	Z	0	0	0	%100
33	M36	X	0	0	0	%100
34	M36	Z	0	0	0	%100
35	M37	X	0	0	0	%100
36	M37	Z	0	0	0	%100
37	M40	X	.248	.248	0	%100
38	M40	Z	.429	.429	0	%100
39	M41	X	.248	.248	0	%100
40	M41	Z	.429	.429	0	%100
41	M45	X	.595	.595	0	%100
42	M45	Z	1.03	1.03	0	%100
43	M46A	X	.454	.454	0	%100
44	M46A	Z	.787	.787	0	%100
45	M48	X	.478	.478	0	%100
46	M48	Z	.829	.829	0	%100
47	M50A	X	.595	.595	0	%100
48	M50A	Z	1.03	1.03	0	%100
49	M51C	X	.454	.454	0	%100
50	M51C	Z	.787	.787	0	%100
51	M53	X	.478	.478	0	%100
52	M53	Z	.829	.829	0	%100
53	M58A	X	.096	.096	0	%100
54	M58A	Z	.166	.166	0	%100
55	M59A	X	.243	.243	0	%100
56	M59A	Z	.421	.421	0	%100
57	M60	X	.243	.243	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,%]
58	M60	Z	.421	.421	0	%100
59	M61	X	.446	.446	0	%100
60	M61	Z	.773	.773	0	%100
61	M64	X	.248	.248	0	%100
62	M64	Z	.429	.429	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	0	0	0	%100
65	M69	X	.149	.149	0	%100
66	M69	Z	.258	.258	0	%100
67	M70	X	.454	.454	0	%100
68	M70	Z	.787	.787	0	%100
69	M72	X	.478	.478	0	%100
70	M72	Z	.829	.829	0	%100
71	M74	X	.149	.149	0	%100
72	M74	Z	.258	.258	0	%100
73	M75	X	0	0	0	%100
74	M75	Z	0	0	0	%100
75	M77A	X	0	0	0	%100
76	M77A	Z	0	0	0	%100
77	MP3A	X	.213	.213	0	%100
78	MP3A	Z	.368	.368	0	%100
79	MP2A	X	.213	.213	0	%100
80	MP2A	Z	.368	.368	0	%100
81	MP1A	X	.213	.213	0	%100
82	MP1A	Z	.368	.368	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	0	0	0	%100
85	MP4C	X	.213	.213	0	%100
86	MP4C	Z	.368	.368	0	%100
87	MP3C	X	.213	.213	0	%100
88	MP3C	Z	.368	.368	0	%100
89	MP2C	X	.213	.213	0	%100
90	MP2C	Z	.368	.368	0	%100
91	MP1C	X	.213	.213	0	%100
92	MP1C	Z	.368	.368	0	%100
93	M91A	X	.26	.26	0	%100
94	M91A	Z	.451	.451	0	%100
95	MP4B	X	.213	.213	0	%100
96	MP4B	Z	.368	.368	0	%100
97	MP3B	X	.213	.213	0	%100
98	MP3B	Z	.368	.368	0	%100
99	MP2B	X	.213	.213	0	%100
100	MP2B	Z	.368	.368	0	%100
101	MP1B	X	.213	.213	0	%100
102	MP1B	Z	.368	.368	0	%100
103	M100	X	.26	.26	0	%100
104	M100	Z	.451	.451	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	0	0	0	%100
107	M110	X	.26	.26	0	%100
108	M110	Z	.451	.451	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	0	0	0	%100
111	M116	X	.206	.206	0	%100
112	M116	Z	.356	.356	0	%100
113	M117	X	.206	.206	0	%100
114	M117	Z	.356	.356	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	.694	.694	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	.648	.648	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	.41	.41	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	.648	.648	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	1.189	1.189	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	.165	.165	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	.165	.165	0	%100
17	M76	X	0	0	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	.303	.303	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	.319	.319	0	%100
23	M84	X	0	0	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	.303	.303	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	.319	.319	0	%100
29	M34	X	0	0	0	%100
30	M34	Z	.576	.576	0	%100
31	M35	X	0	0	0	%100
32	M35	Z	.162	.162	0	%100
33	M36	X	0	0	0	%100
34	M36	Z	.162	.162	0	%100
35	M37	X	0	0	0	%100
36	M37	Z	.297	.297	0	%100
37	M40	X	0	0	0	%100
38	M40	Z	.165	.165	0	%100
39	M41	X	0	0	0	%100
40	M41	Z	.66	.66	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	.892	.892	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	.303	.303	0	%100
45	M48	X	0	0	0	%100
46	M48	Z	.319	.319	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	.892	.892	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	1.211	1.211	0	%100
51	M53	X	0	0	0	%100
52	M53	Z	1.276	1.276	0	%100
53	M58A	X	0	0	0	%100
54	M58A	Z	.576	.576	0	%100
55	M59A	X	0	0	0	%100
56	M59A	Z	.162	.162	0	%100
57	M60	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M60	Z	.162	.162	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	.297	.297	0	%100
61	M64	X	0	0	0	%100
62	M64	Z	.66	.66	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	.165	.165	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	.892	.892	0	%100
67	M70	X	0	0	0	%100
68	M70	Z	1.211	1.211	0	%100
69	M72	X	0	0	0	%100
70	M72	Z	1.276	1.276	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	.892	.892	0	%100
73	M75	X	0	0	0	%100
74	M75	Z	.303	.303	0	%100
75	M77A	X	0	0	0	%100
76	M77A	Z	.319	.319	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	.41	.41	0	%100
79	MP2A	X	0	0	0	%100
80	MP2A	Z	.41	.41	0	%100
81	MP1A	X	0	0	0	%100
82	MP1A	Z	.41	.41	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	.173	.173	0	%100
85	MP4C	X	0	0	0	%100
86	MP4C	Z	.41	.41	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	.41	.41	0	%100
89	MP2C	X	0	0	0	%100
90	MP2C	Z	.41	.41	0	%100
91	MP1C	X	0	0	0	%100
92	MP1C	Z	.41	.41	0	%100
93	M91A	X	0	0	0	%100
94	M91A	Z	.173	.173	0	%100
95	MP4B	X	0	0	0	%100
96	MP4B	Z	.41	.41	0	%100
97	MP3B	X	0	0	0	%100
98	MP3B	Z	.41	.41	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	.41	.41	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	.41	.41	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	.694	.694	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	.173	.173	0	%100
107	M110	X	0	0	0	%100
108	M110	Z	.173	.173	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	.137	.137	0	%100
111	M116	X	0	0	0	%100
112	M116	Z	.549	.549	0	%100
113	M117	X	0	0	0	%100
114	M117	Z	.137	.137	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.26	-.26	0	%100
2	M1	Z	.451	.451	0	%100
3	M4	X	-.096	-.096	0	%100
4	M4	Z	.166	.166	0	%100
5	M10	X	-.243	-.243	0	%100
6	M10	Z	.421	.421	0	%100
7	MP4A	X	-.213	-.213	0	%100
8	MP4A	Z	.368	.368	0	%100
9	M43	X	-.243	-.243	0	%100
10	M43	Z	.421	.421	0	%100
11	M46	X	-.446	-.446	0	%100
12	M46	Z	.773	.773	0	%100
13	M51B	X	-.248	-.248	0	%100
14	M51B	Z	.429	.429	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	-.149	-.149	0	%100
18	M76	Z	.258	.258	0	%100
19	M77	X	-.454	-.454	0	%100
20	M77	Z	.787	.787	0	%100
21	M80	X	-.478	-.478	0	%100
22	M80	Z	.829	.829	0	%100
23	M84	X	-.149	-.149	0	%100
24	M84	Z	.258	.258	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	0	0	0	%100
29	M34	X	-.096	-.096	0	%100
30	M34	Z	.166	.166	0	%100
31	M35	X	-.243	-.243	0	%100
32	M35	Z	.421	.421	0	%100
33	M36	X	-.243	-.243	0	%100
34	M36	Z	.421	.421	0	%100
35	M37	X	-.446	-.446	0	%100
36	M37	Z	.773	.773	0	%100
37	M40	X	0	0	0	%100
38	M40	Z	0	0	0	%100
39	M41	X	-.248	-.248	0	%100
40	M41	Z	.429	.429	0	%100
41	M45	X	-.149	-.149	0	%100
42	M45	Z	.258	.258	0	%100
43	M46A	X	0	0	0	%100
44	M46A	Z	0	0	0	%100
45	M48	X	0	0	0	%100
46	M48	Z	0	0	0	%100
47	M50A	X	-.149	-.149	0	%100
48	M50A	Z	.258	.258	0	%100
49	M51C	X	-.454	-.454	0	%100
50	M51C	Z	.787	.787	0	%100
51	M53	X	-.478	-.478	0	%100
52	M53	Z	.829	.829	0	%100
53	M58A	X	-.384	-.384	0	%100
54	M58A	Z	.666	.666	0	%100
55	M59A	X	0	0	0	%100
56	M59A	Z	0	0	0	%100
57	M60	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	M60	Z	0	0	0	%100
59	M61	X	0	0	0	%100
60	M61	Z	0	0	0	%100
61	M64	X	-.248	-.248	0	%100
62	M64	Z	.429	.429	0	%100
63	M65	X	-.248	-.248	0	%100
64	M65	Z	.429	.429	0	%100
65	M69	X	-.595	-.595	0	%100
66	M69	Z	1.03	1.03	0	%100
67	M70	X	-.454	-.454	0	%100
68	M70	Z	.787	.787	0	%100
69	M72	X	-.478	-.478	0	%100
70	M72	Z	.829	.829	0	%100
71	M74	X	-.595	-.595	0	%100
72	M74	Z	1.03	1.03	0	%100
73	M75	X	-.454	-.454	0	%100
74	M75	Z	.787	.787	0	%100
75	M77A	X	-.478	-.478	0	%100
76	M77A	Z	.829	.829	0	%100
77	MP3A	X	-.213	-.213	0	%100
78	MP3A	Z	.368	.368	0	%100
79	MP2A	X	-.213	-.213	0	%100
80	MP2A	Z	.368	.368	0	%100
81	MP1A	X	-.213	-.213	0	%100
82	MP1A	Z	.368	.368	0	%100
83	M82	X	-.26	-.26	0	%100
84	M82	Z	.451	.451	0	%100
85	MP4C	X	-.213	-.213	0	%100
86	MP4C	Z	.368	.368	0	%100
87	MP3C	X	-.213	-.213	0	%100
88	MP3C	Z	.368	.368	0	%100
89	MP2C	X	-.213	-.213	0	%100
90	MP2C	Z	.368	.368	0	%100
91	MP1C	X	-.213	-.213	0	%100
92	MP1C	Z	.368	.368	0	%100
93	M91A	X	0	0	0	%100
94	M91A	Z	0	0	0	%100
95	MP4B	X	-.213	-.213	0	%100
96	MP4B	Z	.368	.368	0	%100
97	MP3B	X	-.213	-.213	0	%100
98	MP3B	Z	.368	.368	0	%100
99	MP2B	X	-.213	-.213	0	%100
100	MP2B	Z	.368	.368	0	%100
101	MP1B	X	-.213	-.213	0	%100
102	MP1B	Z	.368	.368	0	%100
103	M100	X	-.26	-.26	0	%100
104	M100	Z	.451	.451	0	%100
105	M105	X	-.26	-.26	0	%100
106	M105	Z	.451	.451	0	%100
107	M110	X	0	0	0	%100
108	M110	Z	0	0	0	%100
109	M115	X	-.206	-.206	0	%100
110	M115	Z	.356	.356	0	%100
111	M116	X	-.206	-.206	0	%100
112	M116	Z	.356	.356	0	%100
113	M117	X	0	0	0	%100
114	M117	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	M1	X	-.15	-.15	0	%100
2	M1	Z	.087	.087	0	%100
3	M4	X	-.499	-.499	0	%100
4	M4	Z	.288	.288	0	%100
5	M10	X	-.14	-.14	0	%100
6	M10	Z	.081	.081	0	%100
7	MP4A	X	-.395	-.395	0	%100
8	MP4A	Z	.228	.228	0	%100
9	M43	X	-.14	-.14	0	%100
10	M43	Z	.081	.081	0	%100
11	M46	X	-.258	-.258	0	%100
12	M46	Z	.149	.149	0	%100
13	M51B	X	-.572	-.572	0	%100
14	M51B	Z	.33	.33	0	%100
15	M52B	X	-.143	-.143	0	%100
16	M52B	Z	.083	.083	0	%100
17	M76	X	-.773	-.773	0	%100
18	M76	Z	.446	.446	0	%100
19	M77	X	-1.049	-1.049	0	%100
20	M77	Z	.606	.606	0	%100
21	M80	X	-1.105	-1.105	0	%100
22	M80	Z	.638	.638	0	%100
23	M84	X	-.773	-.773	0	%100
24	M84	Z	.446	.446	0	%100
25	M85	X	-.262	-.262	0	%100
26	M85	Z	.151	.151	0	%100
27	M91	X	-.276	-.276	0	%100
28	M91	Z	.159	.159	0	%100
29	M34	X	0	0	0	%100
30	M34	Z	0	0	0	%100
31	M35	X	-.561	-.561	0	%100
32	M35	Z	.324	.324	0	%100
33	M36	X	-.561	-.561	0	%100
34	M36	Z	.324	.324	0	%100
35	M37	X	-1.03	-1.03	0	%100
36	M37	Z	.595	.595	0	%100
37	M40	X	-.143	-.143	0	%100
38	M40	Z	.083	.083	0	%100
39	M41	X	-.143	-.143	0	%100
40	M41	Z	.083	.083	0	%100
41	M45	X	0	0	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	-.262	-.262	0	%100
44	M46A	Z	.151	.151	0	%100
45	M48	X	-.276	-.276	0	%100
46	M48	Z	.159	.159	0	%100
47	M50A	X	0	0	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	-.262	-.262	0	%100
50	M51C	Z	.151	.151	0	%100
51	M53	X	-.276	-.276	0	%100
52	M53	Z	.159	.159	0	%100
53	M58A	X	-.499	-.499	0	%100
54	M58A	Z	.288	.288	0	%100
55	M59A	X	-.14	-.14	0	%100
56	M59A	Z	.081	.081	0	%100
57	M60	X	-.14	-.14	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,%]
58	M60	Z	.081	.081	0	%100
59	M61	X	-.258	-.258	0	%100
60	M61	Z	.149	.149	0	%100
61	M64	X	-.143	-.143	0	%100
62	M64	Z	.083	.083	0	%100
63	M65	X	-.572	-.572	0	%100
64	M65	Z	.33	.33	0	%100
65	M69	X	-.773	-.773	0	%100
66	M69	Z	.446	.446	0	%100
67	M70	X	-.262	-.262	0	%100
68	M70	Z	.151	.151	0	%100
69	M72	X	-.276	-.276	0	%100
70	M72	Z	.159	.159	0	%100
71	M74	X	-.773	-.773	0	%100
72	M74	Z	.446	.446	0	%100
73	M75	X	-1.049	-1.049	0	%100
74	M75	Z	.606	.606	0	%100
75	M77A	X	-1.105	-1.105	0	%100
76	M77A	Z	.638	.638	0	%100
77	MP3A	X	-.395	-.395	0	%100
78	MP3A	Z	.228	.228	0	%100
79	MP2A	X	-.395	-.395	0	%100
80	MP2A	Z	.228	.228	0	%100
81	MP1A	X	-.395	-.395	0	%100
82	MP1A	Z	.228	.228	0	%100
83	M82	X	-.601	-.601	0	%100
84	M82	Z	.347	.347	0	%100
85	MP4C	X	-.395	-.395	0	%100
86	MP4C	Z	.228	.228	0	%100
87	MP3C	X	-.395	-.395	0	%100
88	MP3C	Z	.228	.228	0	%100
89	MP2C	X	-.395	-.395	0	%100
90	MP2C	Z	.228	.228	0	%100
91	MP1C	X	-.395	-.395	0	%100
92	MP1C	Z	.228	.228	0	%100
93	M91A	X	-.15	-.15	0	%100
94	M91A	Z	.087	.087	0	%100
95	MP4B	X	-.395	-.395	0	%100
96	MP4B	Z	.228	.228	0	%100
97	MP3B	X	-.395	-.395	0	%100
98	MP3B	Z	.228	.228	0	%100
99	MP2B	X	-.395	-.395	0	%100
100	MP2B	Z	.228	.228	0	%100
101	MP1B	X	-.395	-.395	0	%100
102	MP1B	Z	.228	.228	0	%100
103	M100	X	-.15	-.15	0	%100
104	M100	Z	.087	.087	0	%100
105	M105	X	-.601	-.601	0	%100
106	M105	Z	.347	.347	0	%100
107	M110	X	-.15	-.15	0	%100
108	M110	Z	.087	.087	0	%100
109	M115	X	-.475	-.475	0	%100
110	M115	Z	.274	.274	0	%100
111	M116	X	-.119	-.119	0	%100
112	M116	Z	.069	.069	0	%100
113	M117	X	-.119	-.119	0	%100
114	M117	Z	.069	.069	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-.769	-.769	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP4A	X	-.471	-.471	0	%100
8	MP4A	Z	0	0	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	0	0	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	0	0	0	%100
13	M51B	X	-.495	-.495	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	-.495	-.495	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	-1.189	-1.189	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	-.909	-.909	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	-.957	-.957	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	-1.189	-1.189	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	-.909	-.909	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	-.957	-.957	0	%100
28	M91	Z	0	0	0	%100
29	M34	X	-.192	-.192	0	%100
30	M34	Z	0	0	0	%100
31	M35	X	-.486	-.486	0	%100
32	M35	Z	0	0	0	%100
33	M36	X	-.486	-.486	0	%100
34	M36	Z	0	0	0	%100
35	M37	X	-.892	-.892	0	%100
36	M37	Z	0	0	0	%100
37	M40	X	-.495	-.495	0	%100
38	M40	Z	0	0	0	%100
39	M41	X	0	0	0	%100
40	M41	Z	0	0	0	%100
41	M45	X	-.297	-.297	0	%100
42	M45	Z	0	0	0	%100
43	M46A	X	-.909	-.909	0	%100
44	M46A	Z	0	0	0	%100
45	M48	X	-.957	-.957	0	%100
46	M48	Z	0	0	0	%100
47	M50A	X	-.297	-.297	0	%100
48	M50A	Z	0	0	0	%100
49	M51C	X	0	0	0	%100
50	M51C	Z	0	0	0	%100
51	M53	X	0	0	0	%100
52	M53	Z	0	0	0	%100
53	M58A	X	-.192	-.192	0	%100
54	M58A	Z	0	0	0	%100
55	M59A	X	-.486	-.486	0	%100
56	M59A	Z	0	0	0	%100
57	M60	X	-.486	-.486	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,%]
58	M60	Z	0	0	0	%100
59	M61	X	-.892	-.892	0	%100
60	M61	Z	0	0	0	%100
61	M64	X	0	0	0	%100
62	M64	Z	0	0	0	%100
63	M65	X	-.495	-.495	0	%100
64	M65	Z	0	0	0	%100
65	M69	X	-.297	-.297	0	%100
66	M69	Z	0	0	0	%100
67	M70	X	0	0	0	%100
68	M70	Z	0	0	0	%100
69	M72	X	0	0	0	%100
70	M72	Z	0	0	0	%100
71	M74	X	-.297	-.297	0	%100
72	M74	Z	0	0	0	%100
73	M75	X	-.909	-.909	0	%100
74	M75	Z	0	0	0	%100
75	M77A	X	-.957	-.957	0	%100
76	M77A	Z	0	0	0	%100
77	MP3A	X	-.471	-.471	0	%100
78	MP3A	Z	0	0	0	%100
79	MP2A	X	-.471	-.471	0	%100
80	MP2A	Z	0	0	0	%100
81	MP1A	X	-.471	-.471	0	%100
82	MP1A	Z	0	0	0	%100
83	M82	X	-.52	-.52	0	%100
84	M82	Z	0	0	0	%100
85	MP4C	X	-.471	-.471	0	%100
86	MP4C	Z	0	0	0	%100
87	MP3C	X	-.471	-.471	0	%100
88	MP3C	Z	0	0	0	%100
89	MP2C	X	-.471	-.471	0	%100
90	MP2C	Z	0	0	0	%100
91	MP1C	X	-.471	-.471	0	%100
92	MP1C	Z	0	0	0	%100
93	M91A	X	-.52	-.52	0	%100
94	M91A	Z	0	0	0	%100
95	MP4B	X	-.471	-.471	0	%100
96	MP4B	Z	0	0	0	%100
97	MP3B	X	-.471	-.471	0	%100
98	MP3B	Z	0	0	0	%100
99	MP2B	X	-.471	-.471	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	-.471	-.471	0	%100
102	MP1B	Z	0	0	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	0	0	0	%100
105	M105	X	-.52	-.52	0	%100
106	M105	Z	0	0	0	%100
107	M110	X	-.52	-.52	0	%100
108	M110	Z	0	0	0	%100
109	M115	X	-.412	-.412	0	%100
110	M115	Z	0	0	0	%100
111	M116	X	0	0	0	%100
112	M116	Z	0	0	0	%100
113	M117	X	-.412	-.412	0	%100
114	M117	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.15	-.15	0	%100
2	M1	Z	-.087	-.087	0	%100
3	M4	X	-.499	-.499	0	%100
4	M4	Z	-.288	-.288	0	%100
5	M10	X	-.14	-.14	0	%100
6	M10	Z	-.081	-.081	0	%100
7	MP4A	X	-.395	-.395	0	%100
8	MP4A	Z	-.228	-.228	0	%100
9	M43	X	-.14	-.14	0	%100
10	M43	Z	-.081	-.081	0	%100
11	M46	X	-.258	-.258	0	%100
12	M46	Z	-.149	-.149	0	%100
13	M51B	X	-.143	-.143	0	%100
14	M51B	Z	-.083	-.083	0	%100
15	M52B	X	-.572	-.572	0	%100
16	M52B	Z	-.33	-.33	0	%100
17	M76	X	-.773	-.773	0	%100
18	M76	Z	-.446	-.446	0	%100
19	M77	X	-.262	-.262	0	%100
20	M77	Z	-.151	-.151	0	%100
21	M80	X	-.276	-.276	0	%100
22	M80	Z	-.159	-.159	0	%100
23	M84	X	-.773	-.773	0	%100
24	M84	Z	-.446	-.446	0	%100
25	M85	X	-1.049	-1.049	0	%100
26	M85	Z	-.606	-.606	0	%100
27	M91	X	-1.105	-1.105	0	%100
28	M91	Z	-.638	-.638	0	%100
29	M34	X	-.499	-.499	0	%100
30	M34	Z	-.288	-.288	0	%100
31	M35	X	-.14	-.14	0	%100
32	M35	Z	-.081	-.081	0	%100
33	M36	X	-.14	-.14	0	%100
34	M36	Z	-.081	-.081	0	%100
35	M37	X	-.258	-.258	0	%100
36	M37	Z	-.149	-.149	0	%100
37	M40	X	-.572	-.572	0	%100
38	M40	Z	-.33	-.33	0	%100
39	M41	X	-.143	-.143	0	%100
40	M41	Z	-.083	-.083	0	%100
41	M45	X	-.773	-.773	0	%100
42	M45	Z	-.446	-.446	0	%100
43	M46A	X	-1.049	-1.049	0	%100
44	M46A	Z	-.606	-.606	0	%100
45	M48	X	-1.105	-1.105	0	%100
46	M48	Z	-.638	-.638	0	%100
47	M50A	X	-.773	-.773	0	%100
48	M50A	Z	-.446	-.446	0	%100
49	M51C	X	-.262	-.262	0	%100
50	M51C	Z	-.151	-.151	0	%100
51	M53	X	-.276	-.276	0	%100
52	M53	Z	-.159	-.159	0	%100
53	M58A	X	0	0	0	%100
54	M58A	Z	0	0	0	%100
55	M59A	X	-.561	-.561	0	%100
56	M59A	Z	-.324	-.324	0	%100
57	M60	X	-.561	-.561	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,%]
58	M60	Z	-.324	-.324	0	%100
59	M61	X	-1.03	-1.03	0	%100
60	M61	Z	-.595	-.595	0	%100
61	M64	X	-.143	-.143	0	%100
62	M64	Z	-.083	-.083	0	%100
63	M65	X	-.143	-.143	0	%100
64	M65	Z	-.083	-.083	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	0	0	0	%100
67	M70	X	-.262	-.262	0	%100
68	M70	Z	-.151	-.151	0	%100
69	M72	X	-.276	-.276	0	%100
70	M72	Z	-.159	-.159	0	%100
71	M74	X	0	0	0	%100
72	M74	Z	0	0	0	%100
73	M75	X	-.262	-.262	0	%100
74	M75	Z	-.151	-.151	0	%100
75	M77A	X	-.276	-.276	0	%100
76	M77A	Z	-.159	-.159	0	%100
77	MP3A	X	-.395	-.395	0	%100
78	MP3A	Z	-.228	-.228	0	%100
79	MP2A	X	-.395	-.395	0	%100
80	MP2A	Z	-.228	-.228	0	%100
81	MP1A	X	-.395	-.395	0	%100
82	MP1A	Z	-.228	-.228	0	%100
83	M82	X	-.15	-.15	0	%100
84	M82	Z	-.087	-.087	0	%100
85	MP4C	X	-.395	-.395	0	%100
86	MP4C	Z	-.228	-.228	0	%100
87	MP3C	X	-.395	-.395	0	%100
88	MP3C	Z	-.228	-.228	0	%100
89	MP2C	X	-.395	-.395	0	%100
90	MP2C	Z	-.228	-.228	0	%100
91	MP1C	X	-.395	-.395	0	%100
92	MP1C	Z	-.228	-.228	0	%100
93	M91A	X	-.601	-.601	0	%100
94	M91A	Z	-.347	-.347	0	%100
95	MP4B	X	-.395	-.395	0	%100
96	MP4B	Z	-.228	-.228	0	%100
97	MP3B	X	-.395	-.395	0	%100
98	MP3B	Z	-.228	-.228	0	%100
99	MP2B	X	-.395	-.395	0	%100
100	MP2B	Z	-.228	-.228	0	%100
101	MP1B	X	-.395	-.395	0	%100
102	MP1B	Z	-.228	-.228	0	%100
103	M100	X	-.15	-.15	0	%100
104	M100	Z	-.087	-.087	0	%100
105	M105	X	-.15	-.15	0	%100
106	M105	Z	-.087	-.087	0	%100
107	M110	X	-.601	-.601	0	%100
108	M110	Z	-.347	-.347	0	%100
109	M115	X	-.119	-.119	0	%100
110	M115	Z	-.069	-.069	0	%100
111	M116	X	-.119	-.119	0	%100
112	M116	Z	-.069	-.069	0	%100
113	M117	X	-.475	-.475	0	%100
114	M117	Z	-.274	-.274	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.26	-.26	0	%100
2	M1	Z	-.451	-.451	0	%100
3	M4	X	-.096	-.096	0	%100
4	M4	Z	-.166	-.166	0	%100
5	M10	X	-.243	-.243	0	%100
6	M10	Z	-.421	-.421	0	%100
7	MP4A	X	-.213	-.213	0	%100
8	MP4A	Z	-.368	-.368	0	%100
9	M43	X	-.243	-.243	0	%100
10	M43	Z	-.421	-.421	0	%100
11	M46	X	-.446	-.446	0	%100
12	M46	Z	-.773	-.773	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	-.248	-.248	0	%100
16	M52B	Z	-.429	-.429	0	%100
17	M76	X	-.149	-.149	0	%100
18	M76	Z	-.258	-.258	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	-.149	-.149	0	%100
24	M84	Z	-.258	-.258	0	%100
25	M85	X	-.454	-.454	0	%100
26	M85	Z	-.787	-.787	0	%100
27	M91	X	-.478	-.478	0	%100
28	M91	Z	-.829	-.829	0	%100
29	M34	X	-.384	-.384	0	%100
30	M34	Z	-.666	-.666	0	%100
31	M35	X	0	0	0	%100
32	M35	Z	0	0	0	%100
33	M36	X	0	0	0	%100
34	M36	Z	0	0	0	%100
35	M37	X	0	0	0	%100
36	M37	Z	0	0	0	%100
37	M40	X	-.248	-.248	0	%100
38	M40	Z	-.429	-.429	0	%100
39	M41	X	-.248	-.248	0	%100
40	M41	Z	-.429	-.429	0	%100
41	M45	X	-.595	-.595	0	%100
42	M45	Z	-1.03	-1.03	0	%100
43	M46A	X	-.454	-.454	0	%100
44	M46A	Z	-.787	-.787	0	%100
45	M48	X	-.478	-.478	0	%100
46	M48	Z	-.829	-.829	0	%100
47	M50A	X	-.595	-.595	0	%100
48	M50A	Z	-1.03	-1.03	0	%100
49	M51C	X	-.454	-.454	0	%100
50	M51C	Z	-.787	-.787	0	%100
51	M53	X	-.478	-.478	0	%100
52	M53	Z	-.829	-.829	0	%100
53	M58A	X	-.096	-.096	0	%100
54	M58A	Z	-.166	-.166	0	%100
55	M59A	X	-.243	-.243	0	%100
56	M59A	Z	-.421	-.421	0	%100
57	M60	X	-.243	-.243	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M60	Z	-.421	-.421	0	%100
59	M61	X	-.446	-.446	0	%100
60	M61	Z	-.773	-.773	0	%100
61	M64	X	-.248	-.248	0	%100
62	M64	Z	-.429	-.429	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	0	0	0	%100
65	M69	X	-.149	-.149	0	%100
66	M69	Z	-.258	-.258	0	%100
67	M70	X	-.454	-.454	0	%100
68	M70	Z	-.787	-.787	0	%100
69	M72	X	-.478	-.478	0	%100
70	M72	Z	-.829	-.829	0	%100
71	M74	X	-.149	-.149	0	%100
72	M74	Z	-.258	-.258	0	%100
73	M75	X	0	0	0	%100
74	M75	Z	0	0	0	%100
75	M77A	X	0	0	0	%100
76	M77A	Z	0	0	0	%100
77	MP3A	X	-.213	-.213	0	%100
78	MP3A	Z	-.368	-.368	0	%100
79	MP2A	X	-.213	-.213	0	%100
80	MP2A	Z	-.368	-.368	0	%100
81	MP1A	X	-.213	-.213	0	%100
82	MP1A	Z	-.368	-.368	0	%100
83	M82	X	0	0	0	%100
84	M82	Z	0	0	0	%100
85	MP4C	X	-.213	-.213	0	%100
86	MP4C	Z	-.368	-.368	0	%100
87	MP3C	X	-.213	-.213	0	%100
88	MP3C	Z	-.368	-.368	0	%100
89	MP2C	X	-.213	-.213	0	%100
90	MP2C	Z	-.368	-.368	0	%100
91	MP1C	X	-.213	-.213	0	%100
92	MP1C	Z	-.368	-.368	0	%100
93	M91A	X	-.26	-.26	0	%100
94	M91A	Z	-.451	-.451	0	%100
95	MP4B	X	-.213	-.213	0	%100
96	MP4B	Z	-.368	-.368	0	%100
97	MP3B	X	-.213	-.213	0	%100
98	MP3B	Z	-.368	-.368	0	%100
99	MP2B	X	-.213	-.213	0	%100
100	MP2B	Z	-.368	-.368	0	%100
101	MP1B	X	-.213	-.213	0	%100
102	MP1B	Z	-.368	-.368	0	%100
103	M100	X	-.26	-.26	0	%100
104	M100	Z	-.451	-.451	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	0	0	0	%100
107	M110	X	-.26	-.26	0	%100
108	M110	Z	-.451	-.451	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	0	0	0	%100
111	M116	X	-.206	-.206	0	%100
112	M116	Z	-.356	-.356	0	%100
113	M117	X	-.206	-.206	0	%100
114	M117	Z	-.356	-.356	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	M40	Y	-1.881	-4.429	0	.832
2	M40	Y	-4.429	-7.041	.832	1.665
3	M40	Y	-7.041	-8.256	1.665	2.497
4	M40	Y	-8.256	-6.578	2.497	3.329
5	M40	Y	-6.578	-3.469	3.329	4.162
6	M41	Y	-3.463	-6.544	0	.832
7	M41	Y	-6.544	-8.189	.832	1.665
8	M41	Y	-8.189	-6.901	1.665	2.497
9	M41	Y	-6.901	-4.226	2.497	3.329
10	M41	Y	-4.226	-1.665	3.329	4.162
11	M51B	Y	-1.879	-4.428	0	.832
12	M51B	Y	-4.428	-7.042	.832	1.665
13	M51B	Y	-7.042	-8.256	1.665	2.497
14	M51B	Y	-8.256	-6.578	2.497	3.329
15	M51B	Y	-6.578	-3.47	3.329	4.162
16	M52B	Y	-3.463	-6.545	0	.832
17	M52B	Y	-6.545	-8.189	.832	1.665
18	M52B	Y	-8.189	-6.9	1.665	2.497
19	M52B	Y	-6.9	-4.227	2.497	3.329
20	M52B	Y	-4.227	-1.665	3.329	4.162
21	M64	Y	-1.661	-4.228	0	.832
22	M64	Y	-4.228	-6.902	.832	1.665
23	M64	Y	-6.902	-8.189	1.665	2.497
24	M64	Y	-8.189	-6.545	2.497	3.329
25	M64	Y	-6.545	-3.463	3.329	4.162
26	M65	Y	-3.462	-6.573	0	.832
27	M65	Y	-6.573	-8.26	.832	1.665
28	M65	Y	-8.26	-7.044	1.665	2.497
29	M65	Y	-7.044	-4.426	2.497	3.329
30	M65	Y	-4.426	-1.884	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	M40	Y	-4.545	-10.703	0	.832
2	M40	Y	-10.703	-17.016	.832	1.665
3	M40	Y	-17.016	-19.95	1.665	2.497
4	M40	Y	-19.95	-15.895	2.497	3.329
5	M40	Y	-15.895	-8.384	3.329	4.162
6	M41	Y	-8.368	-15.813	0	.832
7	M41	Y	-15.813	-19.79	.832	1.665
8	M41	Y	-19.79	-16.676	1.665	2.497
9	M41	Y	-16.676	-10.212	2.497	3.329
10	M41	Y	-10.212	-4.024	3.329	4.162
11	M51B	Y	-4.542	-10.701	0	.832
12	M51B	Y	-10.701	-17.016	.832	1.665
13	M51B	Y	-17.016	-19.952	1.665	2.497
14	M51B	Y	-19.952	-15.896	2.497	3.329
15	M51B	Y	-15.896	-8.385	3.329	4.162
16	M52B	Y	-8.368	-15.815	0	.832
17	M52B	Y	-15.815	-19.788	.832	1.665
18	M52B	Y	-19.788	-16.674	1.665	2.497
19	M52B	Y	-16.674	-10.214	2.497	3.329
20	M52B	Y	-10.214	-4.025	3.329	4.162
21	M64	Y	-4.015	-10.218	0	.832
22	M64	Y	-10.218	-16.679	.832	1.665
23	M64	Y	-16.679	-19.788	1.665	2.497

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
24	M64	Y	-19.788	-15.815	2.497	3.329
25	M64	Y	-15.815	-8.369	3.329	4.162
26	M65	Y	-8.365	-15.884	0	.832
27	M65	Y	-15.884	-19.962	.832	1.665
28	M65	Y	-19.962	-17.023	1.665	2.497
29	M65	Y	-17.023	-10.696	2.497	3.329
30	M65	Y	-10.696	-4.554	3.329	4.162

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N79	N77	N54	N55	Y	Two Way	-.005
2	N7	N87B	N87C	N6	Y	Two Way	-.005
3	N83	N84	N108	N106	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N79	N77	N54	N55	Y	Two Way	-.013
2	N7	N87B	N87C	N6	Y	Two Way	-.013
3	N83	N84	N108	N106	Y	Two Way	-.013

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	861.467	10	3037.708	13	1886.473	1	6.655	13	1.272	4	.367	9
2		min	-858.948	4	80.135	7	-2030.062	7	-1.307	7	-1.261	10	-.434	4
3	N52	max	1649.214	9	3038.841	21	1044.378	1	.693	3	1.263	12	1.147	3
4		min	-1774.585	3	70.978	3	-974.79	7	-3.38	21	-1.252	6	-5.739	21
5	N81	max	1789.599	11	3039.176	17	1116.442	1	.647	11	1.263	8	5.798	17
6		min	-1666.163	5	71.086	11	-1042.445	7	-3.279	17	-1.252	2	-1.173	11
7	Totals:	max	4115.682	10	8406.568	18	4047.293	1						
8		min	-4115.679	4	2987.037	12	-4047.297	7						

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear C...	Lo...	Dir	LC	phi*Pn...	phi*...	phi*...	phi*...	...	Eqn
1	M1	PIPE_3.0	.185	4.167	4	.127	12...		7	28250....	65205	5.749	5.749	...	H1-...
2	M4	HSS4X4X3	.527	0	13	.119	5....	y	10	95848....	1068..	12.662	12.662	...	H1-...
3	M10	HSS4X4X3	.260	2.375	14	.079	2....	y	13	104414..	1068..	12.662	12.662	...	H1-...
4	MP4A	PIPE_2.0	.384	4.313	5	.209	.875		7	20866....	32130	1.872	1.872	...	H1-...
5	M43	HSS4X4X3	.273	0	24	.085	0	y	13	104414..	1068..	12.662	12.662	...	H1-...
6	M46	PL1/2x6	.183	.516	2	.321	.516	y	10	66009....	97200	1.012	12.15	...	H1-...
7	M51B	L2x2x3	.155	0	3	.016	0	y	16	9823.1...	2339..	.558	1.132	...	H2-1
8	M52B	L2x2x3	.148	4.162	11	.018	4....	y	21	9823.1...	2339..	.558	1.14	...	H2-1
9	M76	PL3/8x6	.235	0	4	.342	0	y	17	70647....	72900	.57	9.113	...	H1-...
10	M77	PL3/8x6	.200	.167	7	.406	0	y	14	71583....	72900	.57	9.113	...	H1-...
11	M80	PL1/2x6	.073	.112	2	.255	0	y	10	96757....	97200	1.012	12.15	...	H1-...
12	M84	PL3/8x6	.302	0	10	.330	0	y	21	70647....	72900	.57	9.113	...	H1-...
13	M85	PL3/8x6	.204	.167	7	.428	0	y	24	71583....	72900	.57	9.113	...	H1-...
14	M91	PL1/2x6	.076	.112	12	.253	.112	y	9	96757....	97200	1.012	12.15	...	H1-...
15	M34	HSS4X4X3	.528	0	21	.127	0	y	34	95848....	1068..	12.662	12.662	...	H1-...
16	M35	HSS4X4X3	.260	2.375	22	.079	2....	y	21	104414..	1068..	12.662	12.662	...	H1-...
17	M36	HSS4X4X3	.273	0	20	.085	0	y	21	104414..	1068..	12.662	12.662	...	H1-...
18	M37	PL1/2x6	.185	.516	10	.319	.516	y	6	66009....	97200	1.012	12.15	...	H1-...
19	M40	L2x2x3	.155	0	11	.016	0	y	24	9823.1...	2339..	.558	1.132	...	H2-1

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear C...	Lo...	Dir	LC	phi*Pn...	phi*...	phi*...	phi*...	...	Eqn
20	M41	L2x2x3	.147	4.162	7	.018	4....	y	17	9823.1...	2339..	.558	1.14	...	H2-1
21	M45	PL3/8x6	.233	0	12	.342	0	y	13	70647....	72900	.57	9.113	...	H1-...
22	M46A	PL3/8x6	.203	.167	3	.406	0	y	22	71583....	72900	.57	9.113	...	H1-...
23	M48	PL1/2x6	.074	.112	10	.253	0	y	6	96757....	97200	1.012	12.15	...	H1-...
24	M50A	PL3/8x6	.301	0	6	.330	0	y	17	70647....	72900	.57	9.113	...	H1-...
25	M51C	PL3/8x6	.207	.167	3	.428	0	y	20	71583....	72900	.57	9.113	...	H1-...
26	M53	PL1/2x6	.076	.112	8	.253	.112	y	5	96757....	97200	1.012	12.15	...	H1-...
27	M58A	HSS4X4X3	.528	0	17	.118	0	y	39	95848....	1068..	12.662	12.662	...	H1-...
28	M59A	HSS4X4X3	.260	2.375	18	.079	2....	y	17	104414...	1068..	12.662	12.662	...	H1-...
29	M60	HSS4X4X3	.273	0	16	.085	0	y	17	104414...	1068..	12.662	12.662	...	H1-...
30	M61	PL1/2x6	.183	.516	6	.319	.516	y	2	66009....	97200	1.012	12.15	...	H1-...
31	M64	L2x2x3	.153	0	7	.016	0	y	20	9823.1...	2339..	.558	1.14	...	H2-1
32	M65	L2x2x3	.148	4.162	3	.019	4....	y	13	9823.1...	2339..	.558	1.132	...	H2-1
33	M69	PL3/8x6	.233	0	8	.342	0	y	21	70647....	72900	.57	9.113	...	H1-...
34	M70	PL3/8x6	.203	.167	11	.406	0	y	18	71583....	72900	.57	9.113	...	H1-...
35	M72	PL1/2x6	.073	.112	6	.253	0	y	2	96757....	97200	1.012	12.15	...	H1-...
36	M74	PL3/8x6	.301	0	2	.329	0	y	13	70647....	72900	.57	9.113	...	H1-...
37	M75	PL3/8x6	.207	.167	11	.428	0	y	16	71583....	72900	.57	9.113	...	H1-...
38	M77A	PL1/2x6	.077	.112	4	.251	.112	y	1	96757....	97200	1.012	12.15	...	H1-...
39	MP3A	PIPE_2.0	.599	4.313	5	.189	4....		3	20866....	32130	1.872	1.872	...	H1-...
40	MP2A	PIPE_2.0	.551	4.313	9	.149	4....		5	20866....	32130	1.872	1.872	...	H1-...
41	MP1A	PIPE_2.0	.394	4.313	9	.208	4....		6	20866....	32130	1.872	1.872	...	H1-...
42	M82	PIPE_3.0	.184	4.167	12	.128	12...		3	28250....	65205	5.749	5.749	...	H1-...
43	MP4C	PIPE_2.0	.381	4.313	1	.211	.875		3	20866....	32130	1.872	1.872	...	H1-...
44	MP3C	PIPE_2.0	.593	4.313	1	.189	4....		11	20866....	32130	1.872	1.872	...	H1-...
45	MP2C	PIPE_2.0	.551	4.313	5	.147	4....		1	20866....	32130	1.872	1.872	...	H1-...
46	MP1C	PIPE_2.0	.394	4.313	5	.208	4....		2	20866....	32130	1.872	1.872	...	H1-...
47	M91A	PIPE_3.0	.184	4.297	9	.128	12...		11	28250....	65205	5.749	5.749	...	H1-...
48	MP4B	PIPE_2.0	.384	4.313	9	.211	.875		11	20866....	32130	1.872	1.872	...	H1-...
49	MP3B	PIPE_2.0	.599	4.313	9	.188	4....		7	20866....	32130	1.872	1.872	...	H1-...
50	MP2B	PIPE_2.0	.546	4.313	1	.149	4....		9	20866....	32130	1.872	1.872	...	H1-...
51	MP1B	PIPE_2.0	.390	4.313	1	.209	4....		10	20866....	32130	1.872	1.872	...	H1-...
52	M100	PIPE_2.0	.436	12.109	5	.272	12...		5	6295.4...	32130	1.872	1.872	...	H1-...
53	M105	PIPE_2.0	.433	12.109	1	.270	12...		1	6295.4...	32130	1.872	1.872	...	H1-...
54	M110	PIPE_2.0	.436	12.109	9	.272	12...		9	6295.4...	32130	1.872	1.872	...	H1-...
55	M115	L2.5x2.5x4	.551	0	5	.271	0	y	12	37000....	38556	1.114	2.537	...	H2-1
56	M116	L2.5x2.5x4	.551	0	9	.273	0	y	4	37000....	38556	1.114	2.537	...	H2-1
57	M117	L2.5x2.5x4	.547	0	1	.271	0	y	8	37000....	38556	1.114	2.537	...	H2-1

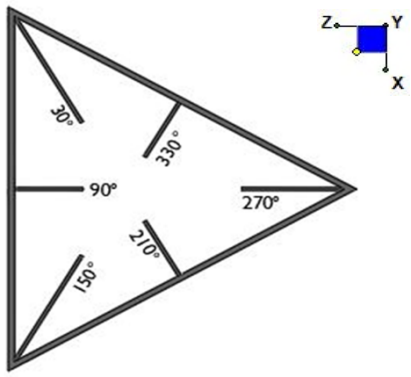
Client:	Verizon Wireless	Date:	11/11/2020
Site Name:	Manchester Green CT		
Project No.	20777294A		
Title:	Antenna Mount Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

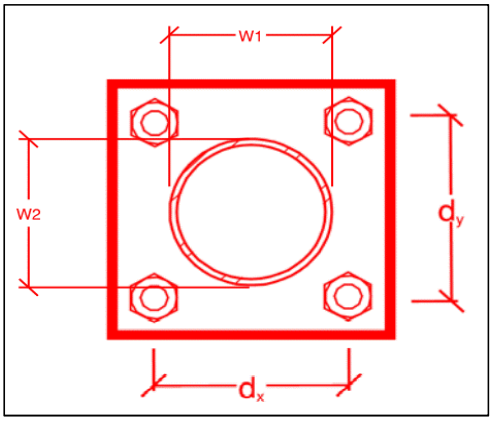
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N3	270
N81	150
N52	30



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:	A307
Bolt Diameter (in):	0.625
Required Tensile Strength (kips):	27.0
Required Shear Strength (kips):	4.6
Tensile Strength / bolt (kips):	10.0
Shear Strength / bolt (kips):	6.0
Tensile Capacity Overall:	**67.3%***
Shear Capacity Overall:	**19.3%**



**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):	7.75
Plate Height (in):	7.75
W1 (in):	4
W2 (in):	4
Fy (ksi, plate):	36
t_{Plate} (in):	0.75
Weld Size (1/16 in):	3
Phi*Rn (kip/in):	4.18
Required Weld Strength (kip/in):	3.77
Plate Bending Capacity:	**38.2%**
Weld Capacity:	**90.3%**

Max Plate Bending Strengths

Mu_{xx} *(kip-in)* :	13.5
Phi*Mn_{xx} *(kip-in)* :	35.3
Mu_{yy} *(kip-in)* :	0.0
Phi*Mn_{yy} *(kip-in)* :	35.3

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Passing Mount Analysis

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 installation was completed in accordance with this Passing Mount Analysis.
- Contractor shall relay any data that can impact the performance of the mount, this includes safety issues.

Base Requirements:

- Any special photos outside of the standard requirements will be indicated on the passing MA
- Verification that loading is as communicated in the Passing Mount Analysis. NOTE If loading is different than what is conveyed 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 equipment 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 equipment.
    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

- 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.

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 any other information the contractor deems necessary to share that was identified:

Issue:

NO SUPPORT RAIL WAS FOUND IN THE MAPPING REPORT, BUT IT WAS SPECIFIED IN THE PREVIOUS MOUNT ANALYSIS REPORT BY ALL-POINTS TECHNOLOGY CORPORATION.

Response:

GENERAL CONTRACTOR NEEDS TO INSTALL THE PREVIOUSLY SPECIFIED SUPPOR RAIL KIT (SITE PRO 1 P/N: HRK12-U) AT 3.5' ABOVE PLATFORM BASE.

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: 468026-VZW - Manchester Green CT

Sector: **A**

Structure Type: Monopole

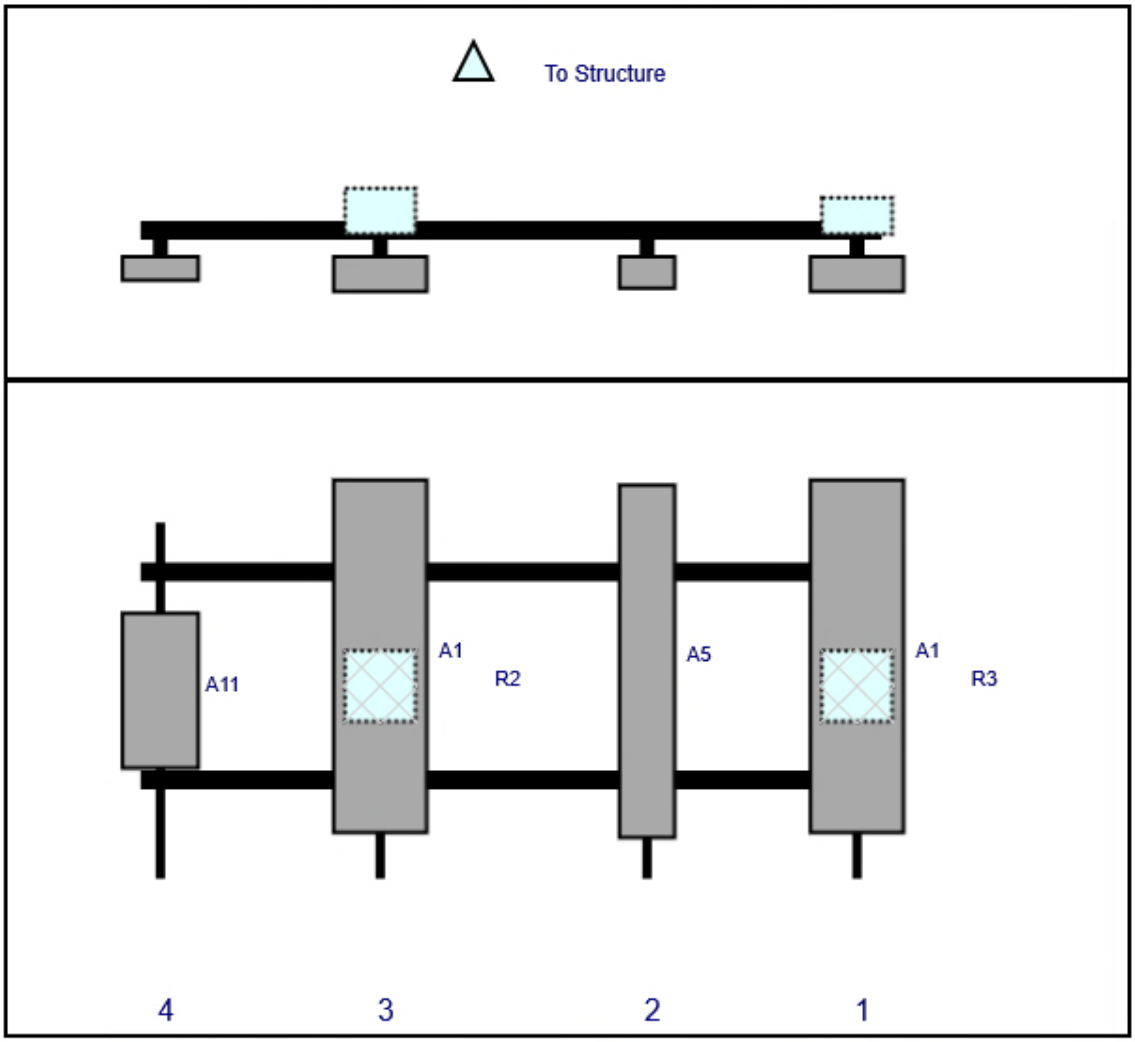
Mount Elev: 110.50

11/9/2020

MASER CONSULTING CONNECTICUT

Plan View

Front View
Looking at Structure

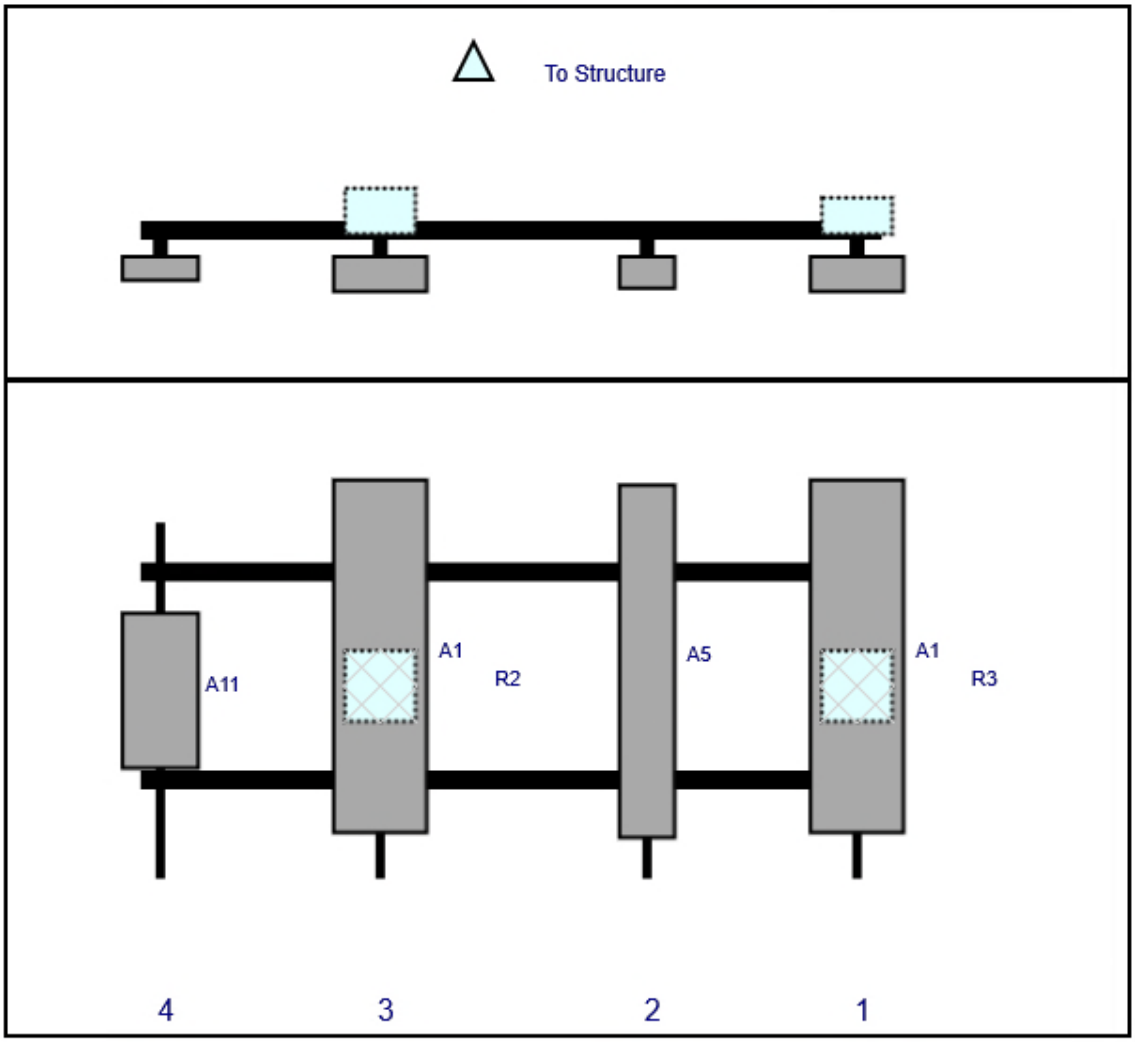


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	NNHH-65B-R4	72	19.6	145	1	a	Front	27	0	Retained	10/26/2020
R3	B5/B13 RRH-BR04C	15	15	145	1	a	Behind	33	0	Retained	10/26/2020
A5	LNX-6514DS-VTM	72	11.9	102.5	2	a	Front	28.02	0	Retained	10/26/2020
A1	NNHH-65B-R4	72	19.6	48.5	3	a	Front	27	0	Retained	10/26/2020
R2	B2/B66A RRH-BR049	15	15	48.5	3	a	Behind	33	0	Retained	10/26/2020
A11	nL-Sub6 Antenna	32.1	16.1	4	4	a	Front	33.96	0	Added	

MASER CONSULTING CONNECTICUT

Plan View

Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	NNHH-65B-R4	72	19.6	145	1	a	Front	27	0	Retained	10/26/2020
R3	B5/B13 RRH-BR04C	15	15	145	1	a	Behind	33	0	Retained	10/26/2020
A5	LNX-6514DS-VTM	72	11.9	102.5	2	a	Front	28.02	0	Retained	10/26/2020
A1	NNHH-65B-R4	72	19.6	48.5	3	a	Front	27	0	Retained	10/26/2020
R2	B2/B66A RRH-BR049	15	15	48.5	3	a	Behind	33	0	Retained	10/26/2020
A11	nL-Sub6 Antenna	32.1	16.1	4	4	a	Front	33.96	0	Added	

Sector: **C**

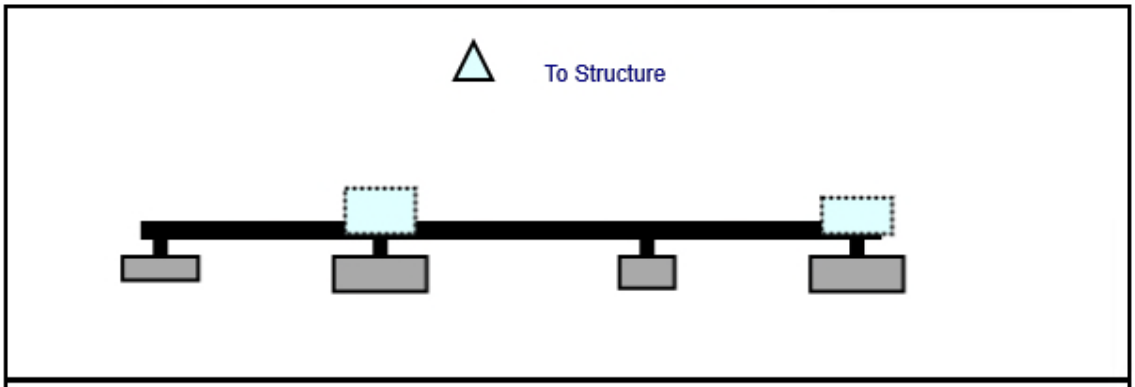
Structure Type: Monopole

Mount Elev: 110.50

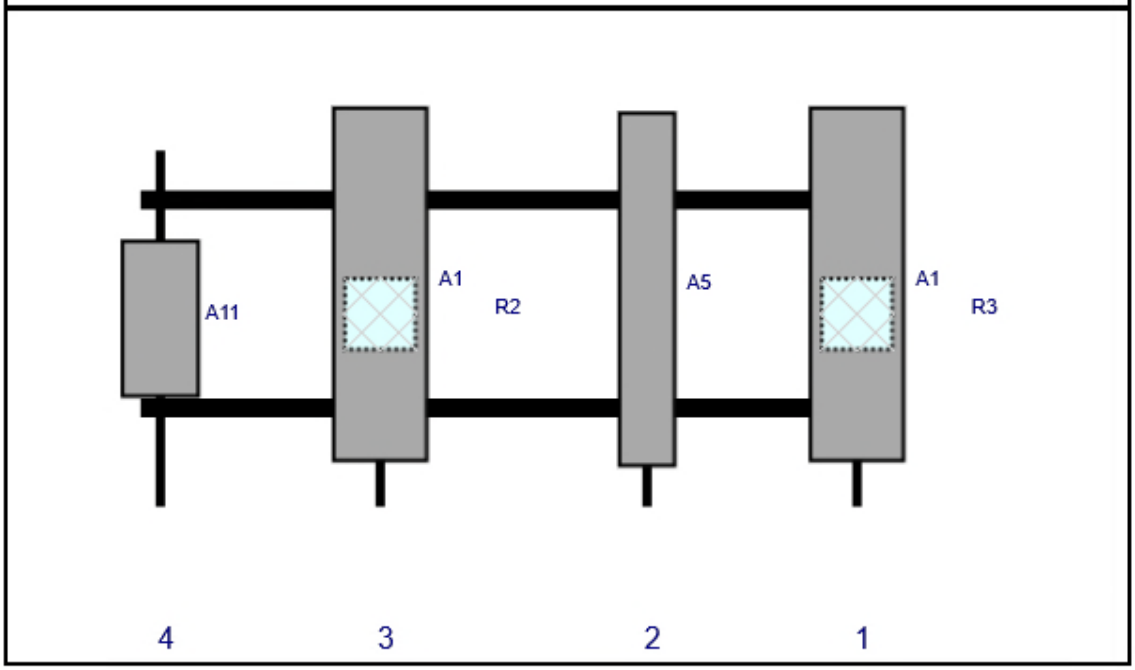
11/9/2020

MASER CONSULTING — CONNECTICUT —

Plan View



Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	NNHH-65B-R4	72	19.6	145	1	a	Front	27	0	Retained	10/26/2020
R3	B5/B13 RRH-BR04C	15	15	145	1	a	Behind	33	0	Retained	10/26/2020
A5	LNX-6514DS-VTM	72	11.9	102.5	2	a	Front	28.02	0	Retained	10/26/2020
A1	NNHH-65B-R4	72	19.6	48.5	3	a	Front	27	0	Retained	10/26/2020
R2	B2/B66A RRH-BR049	15	15	48.5	3	a	Behind	33	0	Retained	10/26/2020
A11	nL-Sub6 Antenna	32.1	16.1	4	4	a	Front	33.96	0	Added	

Maser Consulting Connecticut

MASER CONSULTING
— CONNECTICUT —

Subject		TIA-222-H Usage
Site Information	Site ID:	468026-VZW / Manchester Green CT
	Site Name:	Manchester Green CT
	Carrier Name:	Verizon Wireless
	Address:	239 Middle Turnpike East Manchester, Connecticut 06045 Hartford County
	Latitude:	41.78442222°
	Longitude:	-72.51174167°
Structure Information	Tower Type:	180-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 map by ASCE 7 based on updated studies of the wind data.

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

Sincerely,

Dejian Xu

Dejian Xu PE
Technical Specialist

331 Newman Springs Road - Suite 203, Red Bank, New Jersey 07701 Phone: (732) 383-1950, Fax: (732) 383-1984

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.

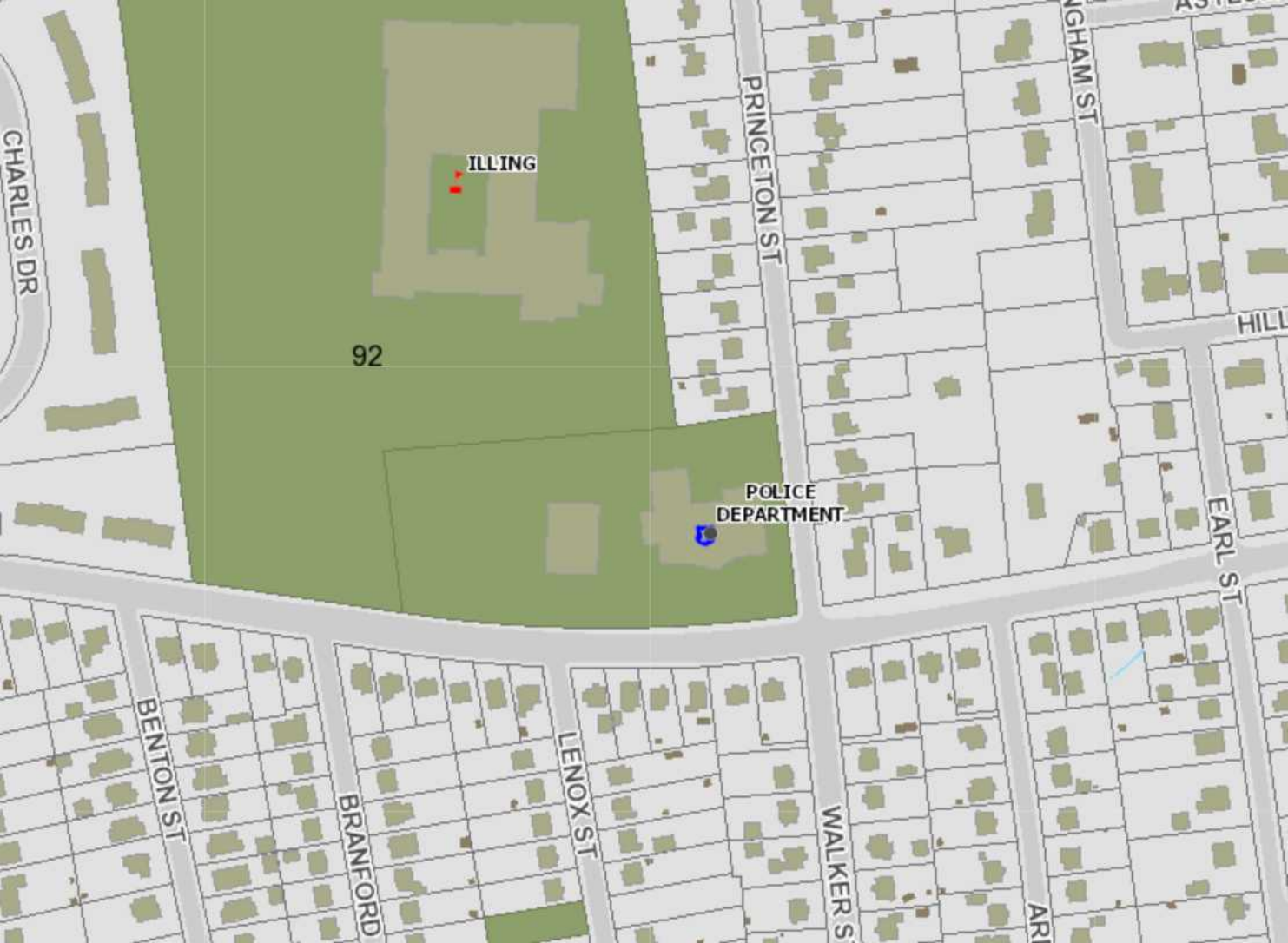
The antenna naming convention "Licensed Sub-6, L-Sub6, nL-Sub6, VZS01" and any other slight variants refer to the 64T64RMMU antenna manufactured by Samsung Electronics. These names are interchangeable and are used in various documents, including but not limited to the "Antenna Mount Analysis".

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


ILLING
92
POLICE
DEPARTMENT
CHARLES DR
PRINCETON ST
EARL ST
BENTON ST
BRANFORD
LENOX ST
WALKER S

239 MIDDLE TURNPIKE EAST

Sales | Print | Map It

Location	239 MIDDLE TURNPIKE EAST	**Mblu**	92/ 3950/ 239/ /
Acct#	395000239	**Owner**	MANCHESTER TOWN OF
Assessment	$4,361,200	**Appraisal**	$6,230,200
PID	10705	**Building Count**	2
DISTRICT	X	**CONCRETE**	

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2021	$5,721,500	$508,700	$6,230,200
Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2021	$4,005,100	$356,100	$4,361,200

Owner of Record

Owner MANCHESTER TOWN OF
Address 41 CENTER ST
MANCHESTER, CT 06040-5096

Sale Price $0
Certificate C
Book & Page /0
Sale Date
Instrument

ATTACHMENT 6

MANCHESTER GREEN

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	Postmaster, per *(name of receiving employee)*		

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1.	Steve Stephanou, General Manager Town of Manchester USPS 41 Center Street Manchester, CT 06040				
2.	Gary Anderson, Director of Planning and Economic Development Town of Manchester 41 Center Street Manchester, CT 06040				
3.					
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5.					
6.					

See Reverse for Instructions