Robinson+Cole

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Also admitted in Massachusetts
and New York

August 6, 2021

Via Electronic Mail

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

Re: **Notice of Exempt Modification – Facility Modification**
96 Powder Mill Road, Canton (Collinsville), Connecticut

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains an existing wireless telecommunications facility at the above-referenced property address (the "Property"). The facility consists of antennas and remote radio heads attached to a tower and related equipment on the ground, near the base of the tower. The tower was approved by the Town of Canton in September 2000. Cellco's shared use of the tower was approved by the Council in March 2001 (TS-VER-023-010216-2). A copy of the Town's approval and Cellco's approval are included in Attachment 1.

Cellco now intends to modify its facility by removing twelve (12) antennas and installing three (3) new Samsung MT6407-77A antennas; three (3) NHHSS-65B-R2BT0 antennas; three (3) NHH-65B-R2B antennas; and three (3) LNX-6514DS-A1M antennas on its existing antenna platform. Cellco also intends to install nine (9) remote radio heads ("RRHs") behind its antennas. A set of project plans showing Cellco's proposed facility modifications and new antennas and RRHs specifications are included in Attachment 2.

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

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

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

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

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

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

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

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

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

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

Sincerely,

Kenneth C. Baldwin

Enclosures
Copy to:
Robert Bessel, Canton First Selectman
Neil Pade, AICP, Canton Director of Planning and Community Development
Properties One LLC, Property Owner
Aleksey Tyurin

ATTACHMENT 1

North Canton/CT 06032-5

VOL. 248 - PAGE 192

Zoning

CERTIFICATE OF ACTION

CANTON ZONING COMMISSION

OWNER OF RECORD:	[	**ZONING FILE** *20*
Properties One, LLC	[	**APPLICATION** *843*
54 Church Street	[	**District** *LI*
Canton, CT	[	**Map** *6-6* **Lot** *3*
APPLICANT: *SBA, Inc. and Sprint Spectrum, LLC*	[	**Location** *96 Powder Mill Road*

APPROVAL OF SPECIAL EXCEPTION AND SITE PLAN

As Secretary of the Canton Zoning Commission, I certify that at the regular meeting on July 19, 2000, following a public hearing, the Zoning Commission approved with conditions your request for a special exception and site plan approval. This approval is subject to the following conditions:

1) approval is for a five year period which may be renewed for additional five year periods upon successful submission of a re-inspection report and renewals of removal bond;
2) the height of the main tower shall be 180 feet and if more than five carriers are to be installed on the tower the applicant will submit for a site plan modification;
3) the re-inspection of the tower structure for structural integrity be done at five year intervals concurrent with the renewal of the removal bond;
4) removal bond be posted in the initial amount of $50,000 and may be adjusted concurrent with the renewal dates to reflect the true cost of removing the tower;
5) the height and fall zone waivers as established in paragraph 67.4.14 of the regulations are granted in leu of the engineering report;
6) parking layout as shown and the landscaping as shown shall be adjusted as directed by staff.

In so approving, the Commission finds the proposal to be consistent with the adjacent uses and the Master Plan of Development. And further finds this application to be in conformance with Section 51 and Section 52 of the Canton Zoning Regulations.

Dated at Canton, Connecticut on September 7, 2000.

Douglas Kress

Douglas Kress, Secretary
CANTON ZONING COMMISSION

RECEIVED FOR RECORD AT CANTON, CT.
ON 9-13-00 AT 2:02 P.M.

ATTEST: SHIRLEY C. KROMPEGAL, TOWN CLERK

March 20, 2001

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

RE: **TS-VER-023-010216-2** - Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 96 Powder Mill Road, Canton.

Dear Ms. Carter:

At a public meeting held March 15, 2001, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

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

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

The proposed shared use is to be implemented as specified in your letter dated February 16, 2001.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/RKE/laf

c: Honorable Kathleen C. Corkum, First Selectman, Town of Canton
Frederick E. Turkington, Jr., Chief Administrative Officer, Town of Canton
Eric Barz, Town Planer, Town of Canton
Esther McNany, SBA, Inc.
Julie M. Donaldson, Esq., Hurwitz & Sagarin LLC
Christopher B. Fisher, Esq., Cuddy & Feder & Worby LLP

ATTACHMENT 2

verizon

WIRELESS COMMUNICATIONS FACILITY

COLLINSVILLE 2 CT
96 POWDER MILL ROAD
CANTON, CT 06019

DRAWING INDEX

T-1 TITLE SHEET

C-1 COMPOUND PLAN, TOWER ELEVATION, EQUIPMENT CONFIGURATION PLANS & ELEVATIONS.

B-1 RF BILL OF MATERIALS, MECHANICAL SPECIFICATIONS & EQUIPMENT DETAILS.

N-1 NOTES & SPECIFICATIONS

SITE DIRECTIONS

START: 20 ALEXANDER DRIVE
WALLINGFORD, CONNECTICUT 06492

END: 96 POWDER MILL ROAD
CANTON, CT 06019

1.	HEAD SOUTH TOWARD ALEXANDER DRIVE	279 FT
2.	SLIGHT RIGHT TOWARDS ALEXANDER DRIVE	289 FT
3.	TURN RIGHT TOWARD ALEXANDER DRIVE	167 FT
4.	TURN RIGHT ONTO ALEXANDER DRIVE	0.3 MI
5.	TURN RIGHT ONTO BARNES INDUSTRIAL ROAD S.	0.1 MI
6.	TURN LEFT AT THE 1ST CROSS STREET ONTO CT-68W	0.4 MI
7.	TURN RIGHT	0.2 MI
8.	TURN RIGHT TO MERGE ONTO CT-15 N TOWARD HARTFORD	0.5 MI
9.	MERGE ONTO CT-15 N	3.1 MI
10.	USE THE MIDDLE LANE TO STAY ON CT-15 N	0.1 MI
11.	TAKE EXIT 68W TO MERGE ONTO I-691 W TOWARD MERIDEN/WATERBURY	7.9 MI
12.	TAKE EXIT 2 TO MERGE ONTO I-84 E TOWARD HARTFORD	8.6 MI
13.	USE THE LEFT LANE TO TAKE EXIST. 33 TO MERGE ONTO CT-72 W TOWARD BRISTOL	2.2 MI
14.	TAKE EXIT 1 TOWARD CT-177 N	0.2 MI
15.	USE RIGHT 2 LANES TO TURN RIGHT ONTO CT-177 N	5.8 MI
16.	SLIGHT LEFT ONTO CT-4 W	2.6 MI
17.	CONTINUE ONTO CT-179 N	2.0 MI
18.	TURN RIGHT ONTO BRIDGE STREET	0.4 MI
19.	TURN LEFT ONTO CT-179 N/RIVER ROAD	1.4 MI
20.	TURN LEFT ONTO US-202 W	0.2 MI
21.	TURN RIGHT ONTO POWDER MILL ROAD (DESTINATION ON YOUR LEFT)	0.1 MI
22.		

LOCATION MAP
SCALE : 1" = 1000'-0"

SITE INFORMATION

VZ SITE NAME: COLLINSVILLE 2 CT
VZ PROJ FUZE I.D.: 2559343
VZ LOCATION CODE: 20181843208
VZ PROJECT CODE: 117980

LOCATION: 96 POWDER MILL ROAD
CANTON, CT 06019

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

MAP/BLOCK/LOT: 26/431/0096

ZONING DISTRICT: "I" (INDUSTRIAL)

LATITUDE: 41° 50' 03.2712" N (41.834242° N)

LONGITUDE: 72° 55' 57.0604" W (72.932739° W)

SITE COORDINATES AND GROUND ELEVATION OBTAINED FROM GOOGLE EARTH.

GROUND ELEVATION: 313'± AMSL

PROPERTY OWNER: PROPERTIES ONE LLC
P.O. BOX 125
COLLINSVILLE, CT 06022

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 CORP., P.C.
567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385
(860) 663-1697

VERIZON SMART TOOL PROJECT # 10032596; 10049754

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	04/12/21	FOR REVIEW: JRM
1	06/03/21	REV. FOR FILING: JRM
2	06/21/21	REV. FOR FILING: JRM
3	07/20/21	REV. FOR FILING: JRM
4		
5		
6		

STATE OF CONNECTICUT
MICHAEL TRODDEN
33313
LICENSED
PROFESSIONAL ENGINEER

DESIGN PROFESSIONALS OF RECORD

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

OWNER: PROPERTIES ONE LLC
ADDRESS: P.O. BOX 125 COLLINSVILLE, CT 06022

COLLINSVILLE 2 CT

SITE ADDRESS: 96 POWDER MILL ROAD CANTON, CT 06019

APT FILING NUMBER: CT141_11950

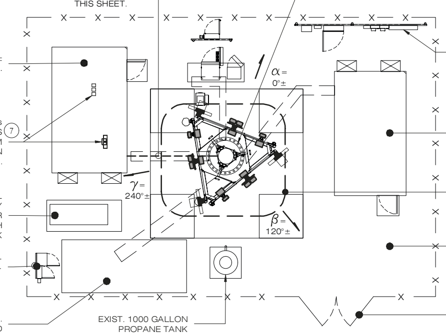
DRAWN BY: DRA
DATE: 04/12/21 CHECKED BY: JRM

VZ PROJECT CODE: 20181843208
VZ LOCATION CODE: 117980
VZ FUZE ID: 2559343

SHEET TITLE: **TITLE SHEET**

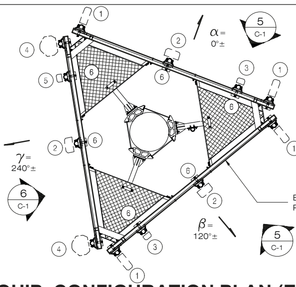
SHEET NUMBER: **T-1**

INSTALL (1) NEW 12x24 LOW INDUCTANCE HYBRID FEED-LINE CABLE ROUTED FROM EXIST. VERIZON EQUIP. SHELTER ALONG ICE BRIDGE UP TOWER TO NEW 12OVP ABOVE. SIX (6) EXIST. COAX FEED-LINE CABLES TO REMAIN. REMOVE UNUSED COAX CABLES. REFER TO STRUCTURAL ANALYSIS NOTE #1 THIS SHEET.



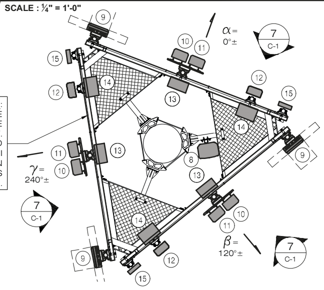
1 C-1 COMPOUND PLAN
SCALE : 1" = 15'-0"

15 0 7.5 15 30
(IN FEET) 1 inch = 15 ft.

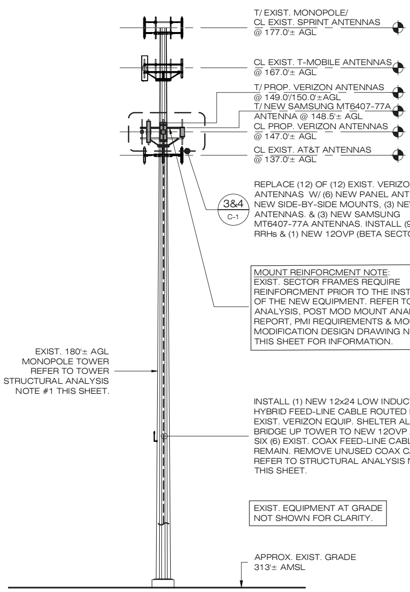


3 C-1 EQUIP. CONFIGURATION PLAN (EXIST.)
SCALE : ¼" = 1'-0"

MOUNT REINFORCMENT NOTE:
EXIST. SECTOR FRAMES REQUIRE REINFORCMENT PRIOR TO THE INSTALLATION OF THE NEW EQUIPMENT. REFER TO MOUNT ANALYSIS, POST MOD MOUNT ANALYSIS REPORT, PMI REQUIREMENTS & MOUNT MODIFICATION DESIGN DRAWING NOTES 2 & 3 THIS SHEET FOR INFORMATION.

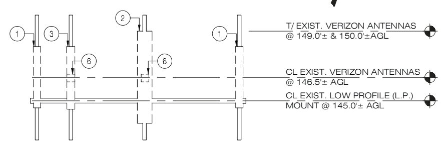


4 C-1 EQUIP. CONFIGURATION PLAN (NEW)
SCALE : ¼" = 1'-0"

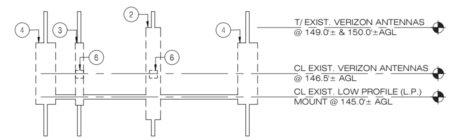


2 C-1 TOWER ELEVATION
SCALE : 1" = 20'-0"

20 0 10 20 40
(IN FEET) 1 inch = 20 ft.

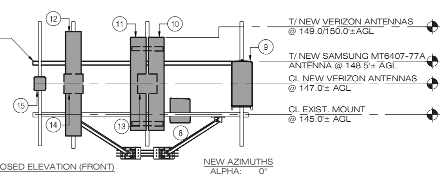


5 C-1 EQUIP. MOUNTING CONFIG. ALPHA & BETA (EXIST.)
SCALE : ¼" = 1'-0"



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

MOUNT REINFORCMENT NOTE:
EXIST. SECTOR FRAMES REQUIRE REINFORCMENT PRIOR TO THE INSTALLATION OF THE NEW EQUIPMENT. REFER TO MOUNT ANALYSIS, POST MOD MOUNT ANALYSIS REPORT, PMI REQUIREMENTS & MOUNT MODIFICATION DESIGN DRAWING NOTES 2 & 3 THIS SHEET FOR INFORMATION.



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

NOTES:

1. REFER TO TOWER STRUCTURAL ANALYSIS REPORT PREPARED BY TOWER ENGINEERING SOLUTIONS DATED JULY 13, 2021 AVAILABLE UNDER SEPARATE COVER.
2. REFER TO MOUNT ANALYSIS REPORT PREPARED BY MASER CONSULTING, P.A., PROJECT #20777653A MARKED REV0, DATED 02/26/21 AVAILABLE UNDER SEPARATE COVER.
3. REFER TO POST MOD MOUNT ANAYLSIS REPORT, PMI REQUIREMENTS & MOUNT MODIFICATION DESIGN DRAWINGS PREPARED BY MASER CONSULTING, P.A., PROJECT #20777653A REV1 DATED 07/07/21. AVAILABLE UNDER SEPERATE COVER.
4. BASE MAPPING FROM FIELD MEASUREMENTS TAKEN BY ALL-POINTS TECH. CORP., P.C. ON 12/15/20.
5. PROJECT SCOPE INCLUDES THE FOLLOWING:
   - REPLACEMENT OF (12) OF (12) EXIST. PANEL ANTENNAS W/ (6) NEW PANEL ANTENNAS ON SIDE-BY-SIDE MOUNTS, (3) NEW PANEL ANTENNAS & (3) NEW SAMSUNG MT6407-77A ANTENNAS.
   - INSTALLATION OF (9) NEW RRHs.
   - INSTALLATION OF (1) NEW 12OVP.
   - REMOVAL OF (3) EXIST. RRHs & (3) TWIN TRIPLEXERS FROM WITHIN EXIST. VERIZON EQUIP. SHELTER.
   - REMOVAL OF ALL UN-USED COAXIAL CABLE FEED-LINES.
6. ALL EXPOSED STEEL AND HARDWARE TO BE HOT DIP GALV. (HDG). PAINT TO MATCH EXIST. (WHERE APPLICABLE)
7. CAP & WEATHERPROOF ALL UN-USED CABLE ENTRY PORTS (WHERE APPLICABLE).
8. MOUNT & GROUND ALL NEW EQUIPMENT IN ACCORDANCE WITH NEC (NFPA-70), NESC AND MANUFACTURERS SPECIFICATION.
9. SECURE ALL NEW ANTENNA CABLES PER MANUFACTURER RECOMMENDATIONS.
10. BOND NEW ANTENNA MOUNTING PIPES TO ANTENNA SECTOR GROUND BAR w/ # 2 AWG, BCW, (WHERE APPLICABLE).
11. CONTRACTOR SHALL INSTALL NEW SIDE-BY-SIDE & DUAL-MOUNT BRACKETS PER ANTENNA MOUNT MANUFACTURER RECOMMENDATIONS, INCLUDING VERIFICATION OF MINIMUM PIPE MAST DIAMETER REQUIRED TO INSTALL NEW MOUNT BRACKETS. UNLESS NOTED OTHER WISE, CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD SHOULD EXIST. PIPE MAST REQUIRE REPLACEMENT TO SUPPORT THE NEW MOUNT BRACKETS.
12. ANTENNA CONFIGURATIONS SHOWN HEREIN ARE FRONT ELEVATIONS.
13. ANTENNA SPACING DIMENSIONS ARE TO THE CENTER OF THE EXIST. ANTENNA AND PROP. ANTENNA FACE.
14. REFER TO THE FINAL RFDS PROVIDED BY VERIZON FOR THE LATEST INFORMATION REGARDING EQUIPMENT MODELS, REQUIRED CABLING & DOWN-TILT INFORMATION.
15. APPLY 3M FILM OVER ALL EXPOSED MMWAVE ANTENNAS COLOR TO MATCH EXIST. STRUCTURE (WHERE APPLICABLE) COORDINATE WITH VERIZON CONSTRUCTION MANAGER AND LL.
16. PAINT ALL NEW NON SAMSUNG MT6407-77A ANTENNAS & APPURTENANCES TO MATCH EXIST. STRUCTURE (WHERE APPLICABLE) COORDINATE W/ VERIZON CONSTRUCTION MANAGER & BUILDING OWNER.

COMPOUND PLAN 1 C-1

APPROX. PROPERTY LINE, TYP.

LOCATION PLAN
SCALE: 1" = 200'

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: ANTEL LPA-80080-4CF
2. EXIST. ANTENNA (TO BE REPLACED) MODEL: ANTEL BXA-70063-6CF
3. EXIST. ANTENNA (TO BE REPLACED) MODEL: ANTEL BXA-171085-8CF
4. EXIST. ANTENNA (TO BE REPLACED) MODEL: ANTEL LPA-80063-4CF
5. EXIST. ANTENNA (TO BE REPLACED) MODEL: ANTEL BXA-171063-8CF
6. EXIST. DIPLEXER (TO BE REMOVED) MODEL: RFS FD9R6004/2C-3
7. (3) EXIST. RRHs & (3) TWIN TRIPLEXERS (TO BE REMOVED FROM WITHIN EXIST. EQUIP. SHELTER) MODEL: NOKIA B13 4x30W LTE RRH
8. NEW 12OVP MODEL: RAYCAP RVZDC-6627-PF-48
9. NEW ANTENNA MODEL: SAMSUNG MT6407-77A
10. NEW ANTENNA MOUNTED VIA NEW SIDE BY SIDE MOUNT BRACKETS (COMMSCOPE BSAMNT-SBS-1-2) MODEL: COMMSCOPE NHH-65B-R2B
11. NEW ANTENNA MOUNTED VIA NEW SIDE BY SIDE MOUNT BRACKETS. MODEL: COMMSCOPE NHHSS-65B-R2BTO
12. NEW ANTENNA MODEL: ANDREW LNX-6514DS-A1M
13. NEW DUAL BAND RRH MODEL: SAMSUNG B13/B5 RRH-BR04C (RFV01U-D2A)
14. NEW DUAL BAND RRH MODEL: SAMSUNG B66/B2A RRH-BR049 (RFV01U-D1A)
15. NEW RRH MODEL: CBRS RRH RT4401-48A

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	04/12/21	FOR REVIEW: JRM
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2	06/21/21	REV. FOR FILING: JRM
3	07/20/21	REV. FOR FILING: JRM
4		
5		
6		

DESIGN PROFESSIONALS OF RECORD

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

OWNER: PROPERTIES ONE LLC
ADDRESS: P.O. BOX 125 COLLINSVILLE, CT 06022

COLLINSVILLE 2 CT

SITE ADDRESS: 96 POWDER MILL ROAD CANTON, CT 06019

APT FILING NUMBER: CT141_11950

DRAWN BY: DRA

DATE: 04/12/21 CHECKED BY: JRM

VZ PROJECT CODE: 20181843208

VZ LOCATION CODE: 117980

VZ FUZE ID: 2559343

SHEET TITLE:

COMPOUND PLAN, TOWER ELEVATION, EQUIP. CONFIGURATION PLANS & ELEVATIONS

SHEET NUMBER:

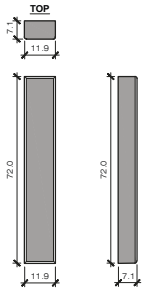
C-1

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	0°	NEW	35.1 (5)	16.1 (5)	5.5 (5)	87.1 (5)(6)
	700/850/1900/2100: COMMSCOPE NHHSS-65B-R2BT0	1	0°	NEW	72.0	11.9	7.1	51.0 (5)
	700/850/1900/2100: COMMSCOPE NHH-65B-R2B	1	0°	NEW	72.0	11.9	7.1	43.7 (5)
	850: ANDREW LNX-6514DS-A1M	1	0°	NEW	80.1	11.9	7.1	32.2 (5)
BETA	SAMSUNG MT6407-77A	1	120°	NEW	35.1 (5)	16.1 (5)	5.5 (5)	87.1 (5)(6)
	700/850/1900/2100: COMMSCOPE NHHSS-65B-R2BT0	1	120°	NEW	72.0	11.9	7.1	51.0 (5)
	700/850/1900/2100: COMMSCOPE NHH-65B-R2B	1	120°	NEW	72.0	11.9	7.1	43.7 (5)
	850: ANDREW LNX-6514DS-A1M	1	120°	NEW	80.1	11.9	7.1	32.2 (5)
GAMMA	SAMSUNG MT6407-77A	1	240°	NEW	35.1 (5)	16.1 (5)	5.5 (5)	87.1 (5)(6)
	700/850/1900/2100: COMMSCOPE NHHSS-65B-R2BT0	1	240°	NEW	72.0	11.9	7.1	51.0 (5)
	700/850/1900/2100: COMMSCOPE NHH-65B-R2B	1	240°	NEW	72.0	11.9	7.1	43.7 (5)
	850: ANDREW LNX-6514DS-A1M	1	240°	NEW	80.1	11.9	7.1	32.2 (5)
	APPURTENANCE MAKE/MODEL							
	SAMSUNG B2/B66A RRH-BR049 (RFV01U-D1A)	3	-	NEW	14.9	14.9	10.04	97.5
	SAMSUNG B5/B13 RRH-BR04C (RFV01U-D2A)	3	-	NEW	14.9	14.9	8.14	82.0
	SAMSUNG CBRS RT4401-48 RRH	3	-	NEW	10.6	8.9	3.0	11.0
	RAYCAP RMCDC-66247-PF-48	2	-	NEW	28.9	15.73	10.25	32

(1) 'ETR' DENOTES EXIST. TO REMAIN
(2) WEIGHT WITHOUT MOUNTING BRACKET.
(3) ANTENNA DATA BASED ON RFDS DATED 05/25/21
(4) EQUIPMENT CONFIGURATION INDICATED ABOVE VIEWED FROM THE BEHIND.
(5) NOT TO EXCEED

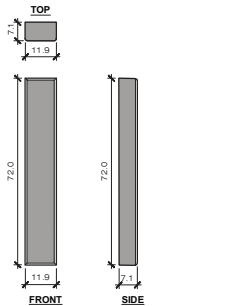


COMMSCOPE NHH-65B-R2B
HxWxD=72.0'x11.9'x7.1" 43.7 Lbs)

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

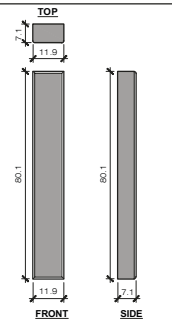
		QUANTITY	LENGTH	COMMENTS
1	700/850/1900/2100 ANTENNA	3		(NHHSS-65B-R2BT0) MOUNTED W/ NEW SIDE-BY-SIDE MOUNT (P/N BSAMNT-SBS-1-2)
2	700/850/1900/2100 ANTENNA	3		(NHH-65B-R2B) MOUNTED W/ NEW SIDE-BY-SIDE MOUNT (P/N BSAMNT-SBS-1-2)
3	SAMSUNG MT6407-77A	3		MOUNTED ON EXIST. PIPE MAST
4	850 ANTENNA	3		(AMPHENOL LNX-6514DS-A1M) MOUNTED TO EXIST. PIPE MAST
5	1/2" JUMPER CABLE	48	15 FT	ROUTE FROM RRH TO ANTENNAS
6	ANTENNA LINK CABLES	6	15 M	ROUTE FROM UPPER OVP TO ANTENNAS
7	ANTENNA POWER CABLES	3	15 M	PROPRIETARY POWER CABLE FROM UPPER OVP TO ANTENNAS
8	AWS/PCS RRH	3		SAMSUNG B2/B66 RRH-BR049 (RFV01U-D1A) MOUNTED TO EXIST. PIPE MAST
9	700/850 RRH	3		SAMSUNG B5/B13 RRH-BR04C (RFV01U-D2A) MOUNTED TO EXIST. PIPE MAST
10	SAMSUNG CBRS RT4401-48 RRH	3		MOUNTED ON EXIST. ANTENNA PIPE MAST (COORDINATE WIRING W/ 'VERIZON EQUIP. ENGINEER')
11	CPRI CABLE	6	25 FT	ROUTE FROM UPPER OVP TO RRH
12	10 AWG x2 DC POWER CABLE	3	25 FT	PROPRIETARY POWER CABLE FROM UPPER OVP TO ANTENNA/RRH
13	RRH CABLES	6	15M	PROPRIETARY POWER & FIBER CABLES
14	UPPER 12OVP	1		(RAYCAP RCMDC-6627-PF-48)
15	HYBRID CABLE	2	190± FT	12x24 LOW INDUCTANCE HYBRID CABLE (1⅝"Ø)

NOTES:
1. INFORMATION SHOWN HEREON IS FOR USE BY VERIZON EQUIPMENT OPERATIONS.
2. INFORMATION IS BASED ON RFDS DATED 05/25/21.
3. * DENOTES EQUIPMENT DESIGNATED "FOR LEASING ONLY" (WHERE APPLICABLE)
4. INSTALL ALARM BOARDS AT ALL OVPs WHERE REQUIRED. COORDINATE w/ VERIZON EQUIPMENT ENGINEERING.
5. INSTALL UP-CONVERTER(S) LOCATED AT BASE OVPs WHERE REQUIRED. COORDINATE w/ VERIZON EQUIPMENT ENGINEERING AS NECESSARY.
6. COORDINATE ANTENNA CABLING REQUIREMENTS WITH VERIZON ENGINEERING.
7. CONTRACTOR SHALL INSTALL NEW SIDE-BY-SIDE & DUAL-MOUNT BRACKETS PER ANTENNA MOUNT MANUFACTURER RECOMMENDATIONS, INCLUDING VERIFICATION OF MINIMUM PIPE MAST DIAMETER REQUIRED TO INSTALL NEW MOUNT BRACKETS. UNLESS NOTED OTHER WISE, CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD SHOULD EXIST. PIPE MAST REQUIRE REPLACEMENT TO SUPPORT THE NEW MOUNT BRACKETS.



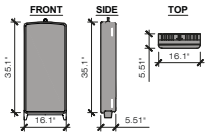
COMMSCOPE NHHSS-65B-R2BT0
HxWxD=72.0'x11.9'x7.1" 51.0 Lbs)

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



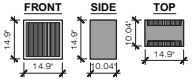
ANDREW LNX-6514DS-A1M
HxWxD=80.1'x11.9'x7.1" 32.2 Lbs)

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

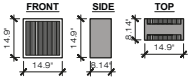


SAMSUNG MT6407-77A ANTENNA
HxWxD=35.1'x16.1'x5.51"
WT=87.1 Lbs
(NOT TO EXCEED)

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



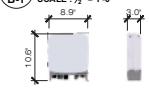
SAMSUNG DUAL HIGH BAND B2/B66A
RRH-BR049 (RFV01U-D1A)
RRH PCS/AWS
REMOTE RADIO HEAD (RRH)
WxDxH=14.9'x14.9'x1.0.04" (97.5 Lbs)



SAMSUNG DUAL HIGH BAND B5/B13
RRH-BR04C (RFV01U-D2A)
RRH 850/700
REMOTE RADIO HEAD (RRH)
WxDxH=14.9'x14.9'x8.14" (82.0 Lbs)

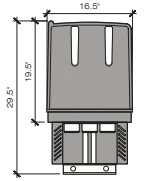
NOTE: WEIGHTS INCLUDE SOLAR SHEILD & MOUNTING BRACKET

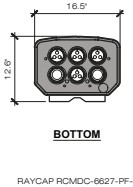
6 B-1 RRH EQUIPMENT DETAILS
SCALE : ½" = 1'-0"



SAMSUNG CBRS RT4401-48A RRH
HxWxD=10.6'x8.9'x3.0" (11.0 lbs)

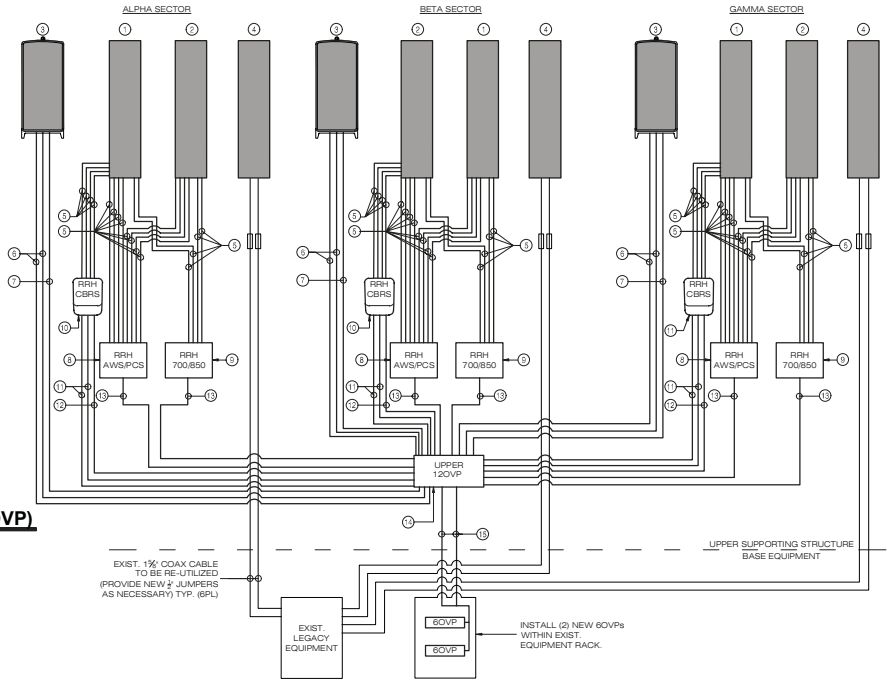
8 B-1 RRH EQUIPMENT
SCALE: 1" = 1'-0"





RAYCAP RCMDC-6627-PF-48
OVER VOLTAGE PROTECTION BOX (OVP)
WxDxH = 16.5'x12.6'x29.5" (32.0 lbs)

7 C-1 OVER VOLTAGE PROTECTION BOX (OVP)
SCALE: 1" = 1'-0"



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

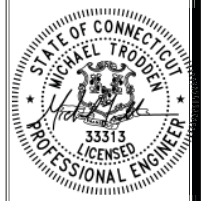
NOTE:
ANTENNA CONFIGURATIONS SHOWN WITHIN PLUMBING DIAGRAM ARE VIEWED FROM BEHIND.

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	04/12/21	FOR REVIEW: JRM
1	06/03/21	REV. FOR FILING: JRM
2	06/21/21	REV. FOR FILING: JRM
3	07/20/21	REV. FOR FILING: JRM
4		
5		
6		



DESIGN PROFESSIONALS OF RECORD

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

OWNER: PROPERTIES ONE LLC
ADDRESS: P.O. BOX 125 COLLINSVILLE, CT 06022

COLLINSVILLE 2 CT

SITE ADDRESS: 96 POWDER MILL ROAD CANTON, CT 06019

APT FILING NUMBER: CT141_11950

DRAWN BY: DRA
DATE: 04/12/21 CHECKED BY: JRM

VZ PROJECT CODE: 20181843208
VZ LOCATION CODE: 117980
VZ FUZE ID: 2559343

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 (TOWER)

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 CIRCUIT'S 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	04/12/21	FOR REVIEW: JRM
1	06/03/21	REV. FOR FILING: JRM
2	06/21/21	REV. FOR FILING: JRM
3	07/20/21	REV. FOR FILING: JRM
4		
5		
6		

STATE OF CONNECTICUT
MICHAEL TRODDEN
33313
LICENSED
PROFESSIONAL ENGINEER

DESIGN PROFESSIONALS OF RECORD

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

OWNER: PROPERTIES ONE LLC
ADDRESS: P.O. BOX 125 COLLINSVILLE, CT 06022

COLLINSVILLE 2 CT

SITE ADDRESS: 96 POWDER MILL ROAD CANTON, CT 06019

APT FILING NUMBER: CT141_11950

DRAWN BY: DRA

DATE: 04/12/21

CHECKED BY: JRM

VZ PROJECT CODE: 20181843208

VZ LOCATION CODE: 117980

VZ FUZE ID: 2559343

SHEET TITLE:

NOTES & SPECIFICATIONS

SHEET NUMBER:

N-1

LNX-6514DS-A1M

2-port sector antenna, 2x 698–896 MHz, 65° HPBW, 1x RET

- Great solution to maximize network coverage and capacity
- Excellent gain, VSWR, front-to-back ratio, and PIM specifications for robust network performance
- Ideal choice for site collocations and tough zoning restrictions
- Excellent solution for site sharing and maximizing capacity
- Fully compatible with Andrew remote electrical tilt system for greater OpEx savings
- The RF connectors are designed for IP67 rating and the radome for IP56 rating

General Specifications

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

Dimensions

Width	301 mm | 11.85 in
Depth	180.5 mm | 7.106 in
Length	2048 mm | 80.63 in
Net Weight, without mounting kit	14.6 kg | 32.187 lb

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	698 – 896 MHz
Polarization	±45°

LNX-6514DS-A1M

Electrical Specifications

Frequency Band, MHz	698–806	806–896
Gain, dBi	15.8	15.9
Beamwidth, Horizontal, degrees	65	63.9
Beamwidth, Vertical, degrees	12.4	11.2
Beam Tilt, degrees	0–10	0–10
USLS (First Lobe), dB	18	19
Front-to-Back Ratio at 180°, dB	33	33
Isolation, Cross Polarization, dB	30	30
VSWR | Return loss, dB	1.4 | 15.6	1.4 | 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153
Input Power per Port, maximum, watts	400	400

Electrical Specifications, BASTA

Frequency Band, MHz	698–806	806–896
Gain by all Beam Tilts, average, dBi	15.6	15.7
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.5
Gain by Beam Tilt, average, dBi	0 ° | 15.7 5 ° | 15.7 10 ° | 15.3	0 ° | 15.9 5 ° | 15.8 10 ° | 15.3
Beamwidth, Horizontal Tolerance, degrees	±1	±1.4
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.6
USLS, beampeak to 20° above beampeak, dB	18	20
Front-to-Back Total Power at 180° ± 30°, dB	25	23
CPR at Boresight, dB	25	25
CPR at Sector, dB	15	12

Mechanical Specifications

Wind Loading at Velocity, frontal	283.0 N @ 150 km/h | 63.6 lbf @ 150 km/h
Wind Loading at Velocity, lateral	234.0 N @ 150 km/h | 52.6 lbf @ 150 km/h
Wind Loading at Velocity, maximum	122.5 lbf @ 150 km/h | 545.0 N @ 150 km/h
Wind Loading at Velocity, rear	287.0 N @ 150 km/h | 64.5 lbf @ 150 km/h
Wind Speed, maximum	241 km/h | 149.75 mph

Packaging and Weights

Width, packed	411 mm | 16.181 in

LNX-6514DS-A1M

Depth, packed	284 mm | 11.181 in
Length, packed	2163 mm | 85.158 in
Weight, gross	32.9 kg | 72.532 lb

Regulatory Compliance/Certifications

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

Included Products

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

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance

SAMSUNG

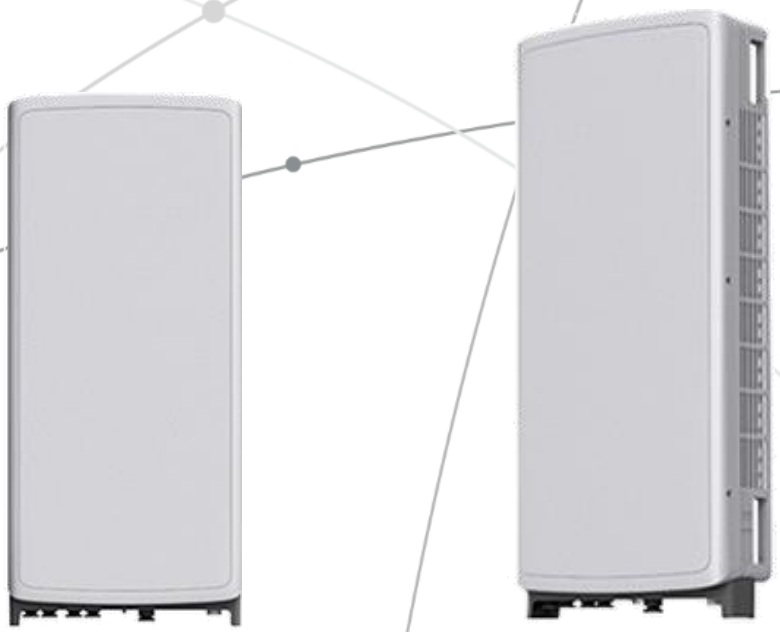
SAMSUNG

C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

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

Model Code : MT6407-77A

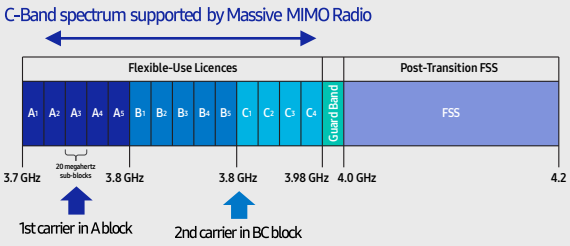


Points of Differentiation

Wide Bandwidth

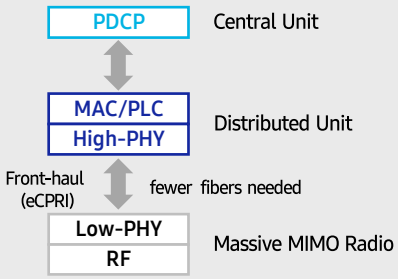
With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

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



Future Proof Product

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



Enhanced Performance

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

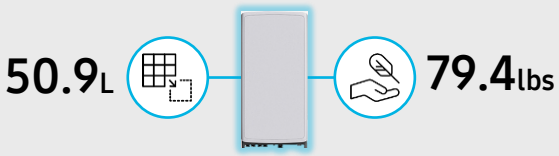
This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

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

Well Matched Design

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

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



Technical Specifications

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

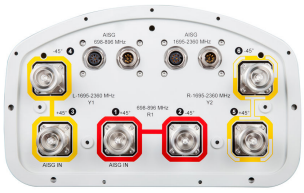
SAMSUNG

About Samsung Electronics Co., Ltd.

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

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

NHH-65B-R2B



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

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

General Specifications

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

Remote Electrical Tilt (RET) Information, General

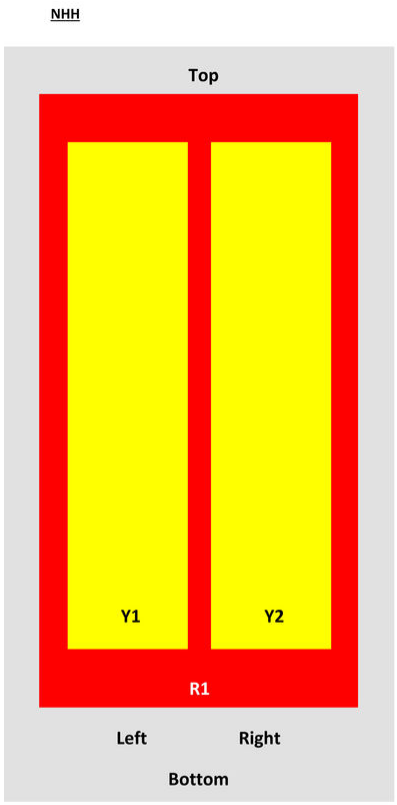
RET Interface	8-pin DIN Female | 8-pin DIN Male
RET Interface, quantity	2 female | 2 male

Dimensions

Width	301 mm | 11.85 in
Length	1828 mm | 71.969 in

Depth	180 mm | 7.087 in

Array Layout



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

View from the front of the antenna

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

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2360 MHz | 698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Remote Electrical Tilt (RET) Information, Electrical

Protocol	3GPP/AISG 2.0 (Single RET)
Power Consumption, idle state, maximum	2 W

NHH-65B-R2B

Power Consumption, normal conditions, maximum	13 W
Input Voltage	10–30 Vdc
Internal Bias Tee	Port 1 | Port 3
Internal RET	High band (1) | Low band (1)

Electrical Specifications

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

Electrical Specifications, BASTA

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

NHH-65B-R2B

CPR at Sector, dB	10	7	16	13	11	4

Mechanical Specifications

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

Packaging and Weights

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

Regulatory Compliance/Certifications

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

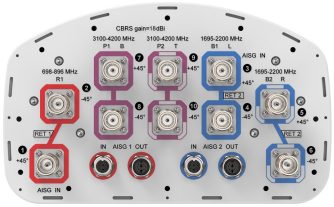
Included Products

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

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance

NHHSS-65B-R2BT2



10-port sector antenna, 2x 698–896, 4x 1695–2200 and 4x 3100-4200 MHz, 65° HPBW, 2x RETs and 2x SBTs. Both high bandsshare the same electrical tilt.

- Perfect antenna to add 3.5GHz CBRS to macro sites
- Low band and mid band performance mirrors the performance of existing NHH hex port antennas
- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- One LB RET and one HB RET. Both high bands are controlled by one RET to ensure same tilt level for 4x MIMO

General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light gray
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, mid band	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	10

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	4x 8 pin connector as per IEC 60130-9 Daisy chain in: Male / Daisy chain out: Female Pin3: RS485A(AISG_B), Pin5: RS485B(AISG_A), Pin6: DC 10~30V, Pin7: DC_ Return

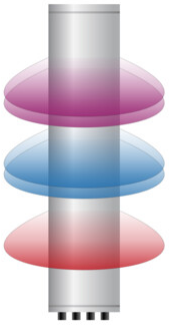
NHHSS-65B-R2BT2

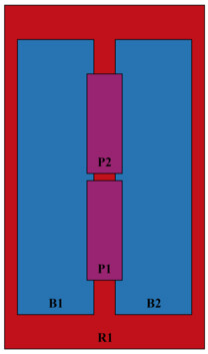
RET Interface, quantity	2 female | 2 male
Input Voltage	10–30 Vdc
Internal RET	High band (1) | Low band (1)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	301 mm | 11.85 in
Depth	181 mm | 7.126 in
Length	1828 mm | 71.969 in
Net Weight, without mounting kit	23.1 kg | 50.927 lb

Array Layout



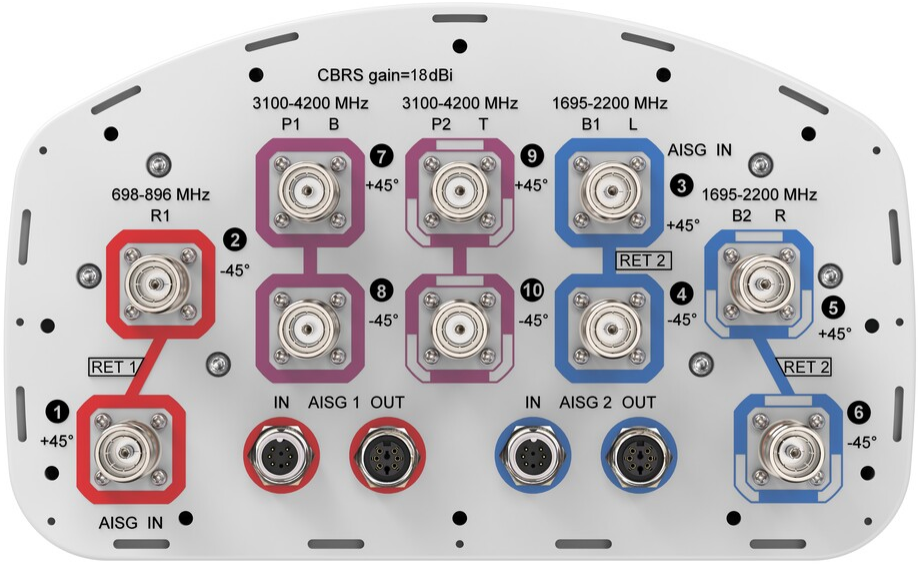


Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxR1
B1	1695-2200	3 - 4	2	AISG2	CPxxxxxxxxxxxxxxB1
B2	1695-2200	5 - 6			
P1	3100-4200	7 - 8	N/A	NA	N/A
P2	3100-4200	9 - 10			

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

Port Configuration

NHHSS-65B-R2BT2



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2200 MHz | 3100 – 4200 MHz | 698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	1,000 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	**698–806**	**806–896**	**1695–1880**	**1850–1990**	**1920–2200**	**3100–3550**	**3550–3700**	**3700–4200**
Gain, dBi	14.8	15.2	17.4	17.8	18	17.5	17.3	17.6
Beamwidth, Horizontal, degrees	65	62	66	61	64	55	65	61
Beamwidth, Vertical, degrees	13	11.6	5.5	5.2	4.9	5.7	5.4	4.9
Beam Tilt, degrees	0–14	0–14	0–7	0–7	0–7	2	2	2
USLS (First Lobe), dB	15	15	16	18	18	17	17	17
Front-to-Back Ratio at 180°, dB	26	29	31	28	27	30	32	29
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	28	28	28
VSWR | Return loss, dB	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-140	-140	-140

NHHSS-65B-R2BT2

Input Power per Port at 50°C, maximum, watts	300	300	300	300	300	100	100	100

Electrical Specifications, BASTA

Frequency Band, MHz	**698–806**	**806–896**	**1695–1880**	**1850–1990**	**1920–2200**	**3100–3550**	**3550–3700**	**3700–4200**
Gain by all Beam Tilts, average, dBi	14.6	14.8	17	17.5	17.7	17.1	16.9	17.1
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.6	±0.3	±0.4	±0.5	±0.7	±0.8
Gain by Beam Tilt, average, dBi	0 ° | 14.6 7 ° | 14.6 14 ° | 14.4	0 ° | 15.0 7 ° | 14.9 14 ° | 14.5	0 ° | 16.9 3 ° | 17.0 7 ° | 16.8	0 ° | 17.4 3 ° | 17.5 7 ° | 17.4	0 ° | 17.5 3 ° | 17.8 7 ° | 17.6			
Beamwidth, Horizontal Tolerance, degrees	±1.7	±1.3	±7.2	±3.1	±6.2	±11.7	±7.4	±10.9
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.8	±0.2	±0.2	±0.4	±0.4	±0.3	±0.4
USLS, beampeak to 20° above beampeak, dB	18	16	14	15	17	14		
Front-to-Back Total Power at 180° ± 30°, dB	22	25	25	25	24	26	25	23
CPR at Boresight, dB	24	17	16	21	19	15	16	14
CPR at Sector, dB	12	6	11	10	8	7	8	7

Mechanical Specifications

Wind Loading at Velocity, frontal	278.0 N @ 150 km/h | 62.5 lbf @ 150 km/h
Wind Loading at Velocity, lateral	230.0 N @ 150 km/h | 51.7 lbf @ 150 km/h
Wind Loading at Velocity, maximum	120.7 lbf @ 150 km/h | 537.0 N @ 150 km/h
Wind Speed, maximum	241 km/h | 149.75 mph

Packaging and Weights

Width, packed	1973 mm | 77.677 in
Depth, packed	441 mm | 17.362 in
Length, packed	337 mm | 13.268 in
Weight, gross	35.1 kg | 77.382 lb

Regulatory Compliance/Certifications

Agency	**Classification**
CHINA-ROHS	Above maximum concentration value
ROHS	Compliant/Exempted

NHHSS-65B-R2BT2

Included Products

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

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance

SAMSUNG

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

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

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

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

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

Features and Benefits

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

Key Technical Specifications

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

SAMSUNG

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

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

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

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

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

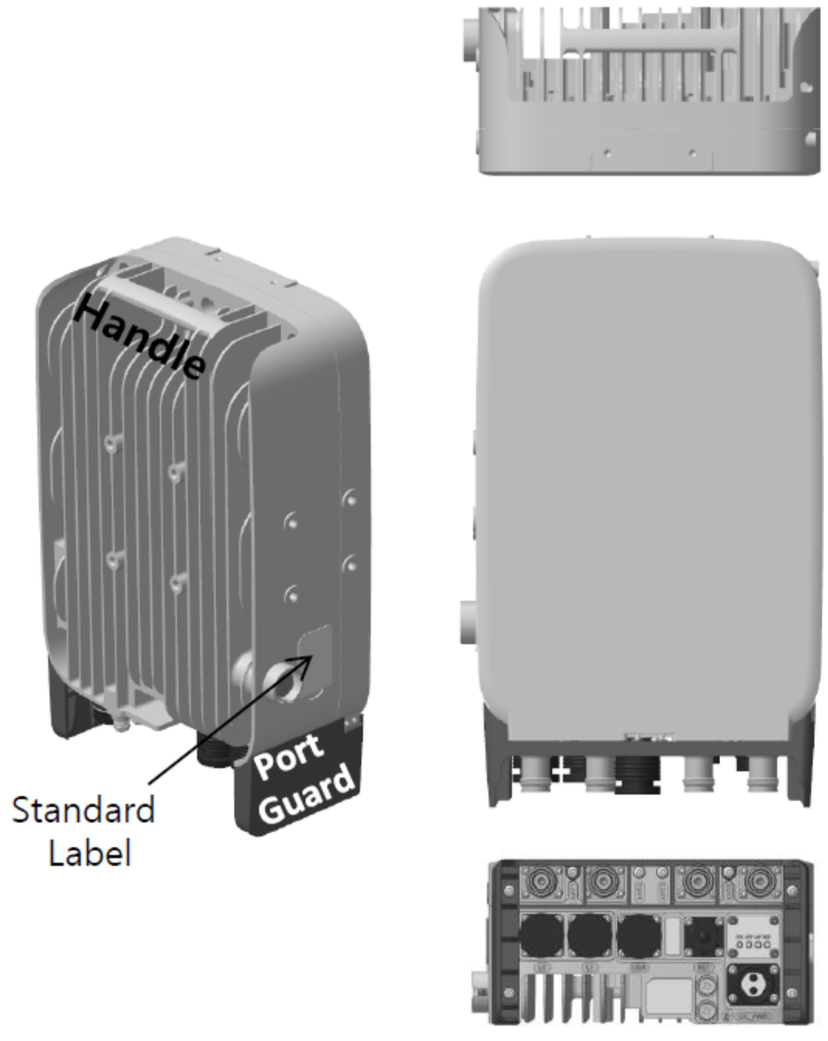
Features and Benefits

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

Key Technical Specifications

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

[CBRS RRH] Spec.



Current Size: 216 x 307 x 105.5 mm (6.99L)
(8.5 x 12.1 x 4.1 inch., excluding Port Guard)
Design is subject to minor change

Item	Specification
Band	Band 48 (3.5 GHz)
Frequency	3550~3700 MHz
IBW	150 MHz
OBW	80 MHz
# of Carriers	5/10/15/20 MHz x 4 carriers
RF Chain	4TX / 4RX
RF Output Power & EIRP	4 path x 5 W (Total: 20 W = 43 dBm) (EIRP: 47 dBm / 10 MHz)
RX Sensitivity	Typical : -101.5 dBm @ 1 Rx (3GPP 36.104, Wide Area)
Modulation	256-QAM support (1024-QAM with 1~2dB power back-off)
Input Power	-48 VDC (-38 to -57 VDC, 1 SKU), with clip-on AC-DC converter (Option)
Power Consumption	About 160 Watt @ 100% RF load, typical conditions
Volume	**Under 7L** (w/o Antenna), Under 9.6L (with antenna)
Weight	**Under 8.0 kg** (**18.64** lb) (w/o Antenna), Under 10.5 Kg (with ant.)
Operating Temperature	-40°C (-40°F) ~ 55°C (131°F) (W/o solar load)
Cooling	Natural convection
Unwanted Emission	3GPP 36.104 Category A
	[B48] : FCC 47 CFR 96.41 e)
Optic Interface	20km, 2 ports (9.8Gbps x 2), SFP, single mode, duplex or Bi-Di
CPRI Cascade	Not supported
# of Antenna Port	4
External Alarm (UDA)	4
RET	AISG 2.2
TMA & built-in Bias-T I//F and PIM cancellation	Not supported
Mounting Options	Pole, wall, tower, back to back, side by side (for external ant), 3 RRH with Clip-on Antenna on the pole
Antenna Type	Integrated (Clip-on) antenna (Option), External antenna (Option)
NB-IoT	Not Supported (HW Resource reserved for 1 Guard Band NB-IoT per LTE carrier)
Spectrum Analyzer	TX/RX Support
External Alarm (UDA)	4
5G NR	Support with S/W upgrade
XRAN	Support with S/W upgrade

ATTACHMENT 3

	General	Power	Density					
Site Name: Collinsville 2 (Canton)								
Tower Height: Verizon @ 147ft								
CARRIER	**# OF CHAN.**	**WATTS ERP**	**HEIGHT**	**CALC. POWER DENS**	**FREQ.**	**MAX. PERMISS. EXP.**	**FRACTION MPE**	**Total**
*Sprint	1	377	177	850	0.0046	0.5667	0.08%	
*Sprint	2	942	177	850	0.0232	0.5667	0.41%	
*Sprint	5	512	177	1900	0.0315	1.0000	0.31%	
*Sprint	2	1280	177	1900	0.0315	1.0000	0.31%	
*Sprint	8	778	177	2500	0.0765	1.0000	0.77%	
*T-Mobile	4	703	167	1900	0.0390	1.0000	0.39%	
*T-Mobile	1	264	167	1900	0.0037	1.0000	0.04%	
*T-Mobile	2	789	167	600	0.0219	0.4000	0.55%	
*T-Mobile	2	433	167	7000	0.0120	1.0000	0.12%	
*AT&T	1	565	137	850	0.0118	0.5667	0.21%	
*AT&T	1	1000	137	850	0.0210	0.5667	0.37%	
*AT&T	1	1000	137	850	0.0210	0.5667	0.37%	
*AT&T	1	1476	137	700	0.0309	0.4667	0.66%	
*AT&T	2	3664	137	1900	0.1536	1.0000	1.54%	
*AT&T	1	3837	137	2100	0.0804	1.0000	0.80%	
VZW 700	**4**	**642**	**147**	**0.0043**	**751**	**0.5007**	**0.85%**	
VZW CDMA	**2**	**389**	**147**	**0.0013**	**869**	**0.5793**	**0.22%**	
VZW Cellular	**4**	**691**	**147**	**0.0046**	**869**	**0.5973**	**0.79%**	
VZW PCS	**4**	**1390**	**147**	**0.0093**	**1980**	**1.0000**	**0.93%**	
VZW AWS	**4**	**1364**	**147**	**0.0091**	**2125**	**1.0000**	**0.91%**	
VZW CBAND	**4**	**6531**	**147**	**0.0435**	**3730**	**1.0000**	**4.35%**	
VZW CBRS	**4**	**12**	**147**	**0.0001**	**3625**	**1.0000**	**0.01%**	
								14.98%
* Source: Siting Council								

ATTACHMENT 4

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

Structural Analysis Report

Existing 180 ft Valmont Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT01722-S

Customer Site Name: South Canton

Carrier Name: Verizon (App#: 159171, V2)

Carrier Site ID / Name: 117980 / COLLINSVILLE_2_CT

Site Location: 96 Powder Mill Road

Canton, Connecticut

Hartford County

Latitude: 41.834244

Longitude: -72.932669

Exp.10/31/2021

07/13/2021

Analysis Result:

Max Structural Usage: 82.8% [Pass]

Max Foundation Usage: 84.0% [Pass]

Additional Usage Caused by New Mount/Mount Modification:

Report Prepared By: Younus Alkarawi

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

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Analysis Result:

Max Structural Usage: 82.8% [Pass]

Max Foundation Usage: 84.0% [Pass]

Additional Usage Caused by New Mount/Mount Modification:

Report Prepared By: Younus Alkarawi

Introduction

The purpose of this report is to summarize the analysis results on the 180 ft Valmont Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Tower Drawings	Valmont Design Calculations, Order #12156-00, 8/03/2000 Valmont Record Drawings, Order #12156-00, 8/03/2000
Foundation Drawing	FDH Nondestructive Testing Report, Project #1206272EN1, 8/01/2012
Geotechnical Report	FDH Geotechnical Evaluation, Project #1206272EG1, 8/06/2012
Modification Drawings	FDH Modification Inspection Report, Project #1301891700, 8/08/2013
Mount Analysis	

Analysis Criteria

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

Wind Speed Used in the Analysis:	Ultimate Design Wind Speed V_{ult} = 120.0 mph (3-Sec. Gust)/ Nominal Design Wind Speed V_{asd} = 93.0 mph (3-Sec. Gust)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 1" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-G-2 / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	
Structure Class:	
Topographic Category:	
Crest Height:	0 ft
Seismic Parameters:	

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

Existing Antennas, Mounts and Transmission Lines

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

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
			ALU 1900 MHz	(1) Platform w/ Hand Rails & Sitepro PRK-1245L	(4) 1-1/4" Fiber	Sprint Nextel
			ALU 800 MHz			
			ALU TD-RRH8x20-25			
			Commscope NNVV-65B-R4			
			RFS APXV18-206517S-C-A20 Panel	Low Profile Mount w/HRK Sitepro RMQP-	(1) 1-5/8" Fiber	T-Mobile
			RFS APXVAARR24_43-U-NA20 Panel			
			Ericsson Radio 4449 B71+B12			
			Antel BXA-70063/6CF	(1) Low Profile Platform		Verizon
			Antel LPA-80080/4CF-EDIN			
			Antel BXA-171085-8CF-2			
			Antel BXA-171063/8CF-2			
			Antel LPA-80063/4CF			
			Powerwave Allgon - 7770 - Panel	(3) Modified T-Arms with (3) Pipe Masts, (3) Horizontal Face Pipe and (6) Pipe Masts	(2) 7/16" Fiber*	
			CCI - OPA65R-BU6DA- Panel			
			CCI - OPA65R-BU8DA- Panel			
			CCI - DMP65R-BU6DA- Panel			
			CCI - DMP65R-BU8DA- Panel			
			Powerwave LGP21401 TMA			
			Powerwave 21903 Diplexer			
			Ericsson 4449 B5/B12			
			Ericsson RRUS 8843 B2 B66A			
			Raycap DC6-48-60-18-8F			
			Raycap DC6-48-60-0-8C-EV			
			Andrew ABT-DF-DMADBH BIAS-T			
				(1) Stand Off	(1) 1/2”	Sprint Nextel

3" (Housing (4) 3/4" DC power & (2) 7//16" Fiber cables)

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

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

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
		3	Commscope NHHSS-65B-R2BT0 - Panel	Low Profile Platform	(6) 1 5/8" (2) 12x24 Hybrid	Verizon
			Andrew LNX-6514DS-A1M - Panel			
			Commscope NHH-65B-R2B - Panel			
			Samsung MT6407-77A - Panel			
			Samsung B2/B66A RRH-BR049			
			Samsung B5/B13 RRH-BR04C			
			Samsung CBRS RRH - RT4401-48A			
			Commscope FE-16148-OVP-B12-OVP			

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

Analysis Results

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

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:			
Pass/Fail	**Pass**	**Pass**	**Pass**

Foundations

	Moment (Kip-Ft)	Shear (Kips)
Original Design Reactions		
Analysis Reactions		
Factored Reactions*		
% of Design Reactions		

* Per section 15.5.1 of the TIA-222-G standard, factored reactions were obtained by multiplying a 1.35 factor to the original design reactions.

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

Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.4898 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

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

Standard Conditions

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

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

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

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

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

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

Usage Diagram - Max Ratio 82.82% at 98.0ft

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021
Site Name:	South Canton	**Exposure:**	C	
Height:	180.00 (ft)	**Gh:**	1.1	
Base Elev:	0.000 (ft)			Page: 1

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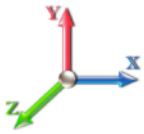
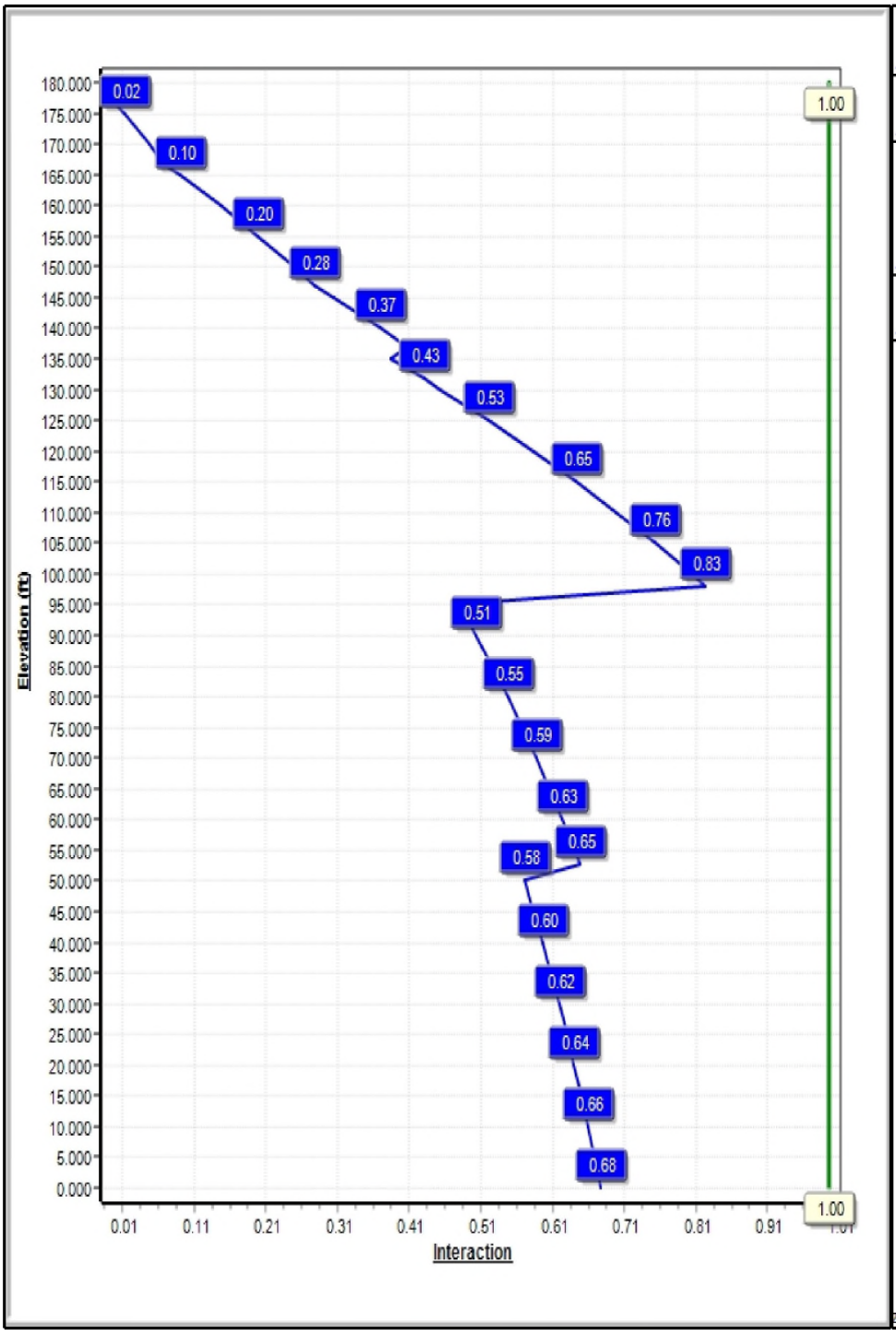
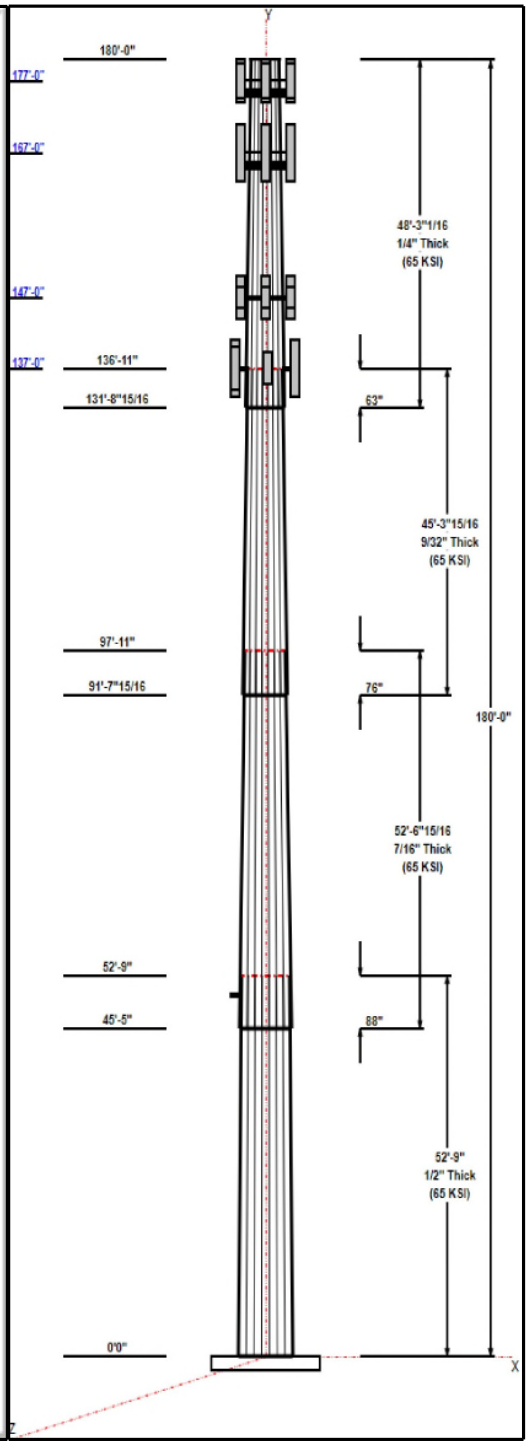
Dead Load Factor:	1.20	**Iterations:**	25
Wind Load Factor:	1.60		

Load Case : 1.2D + 1.6W 93 mph Wind







Structure: CT01722-S-SBA

Type: Tapered
Site Name: South Canton
Height: 180.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 16 Sided
Taper: 0.19501

7/13/2021

Tower Engineering Solutions

Shaft Properties

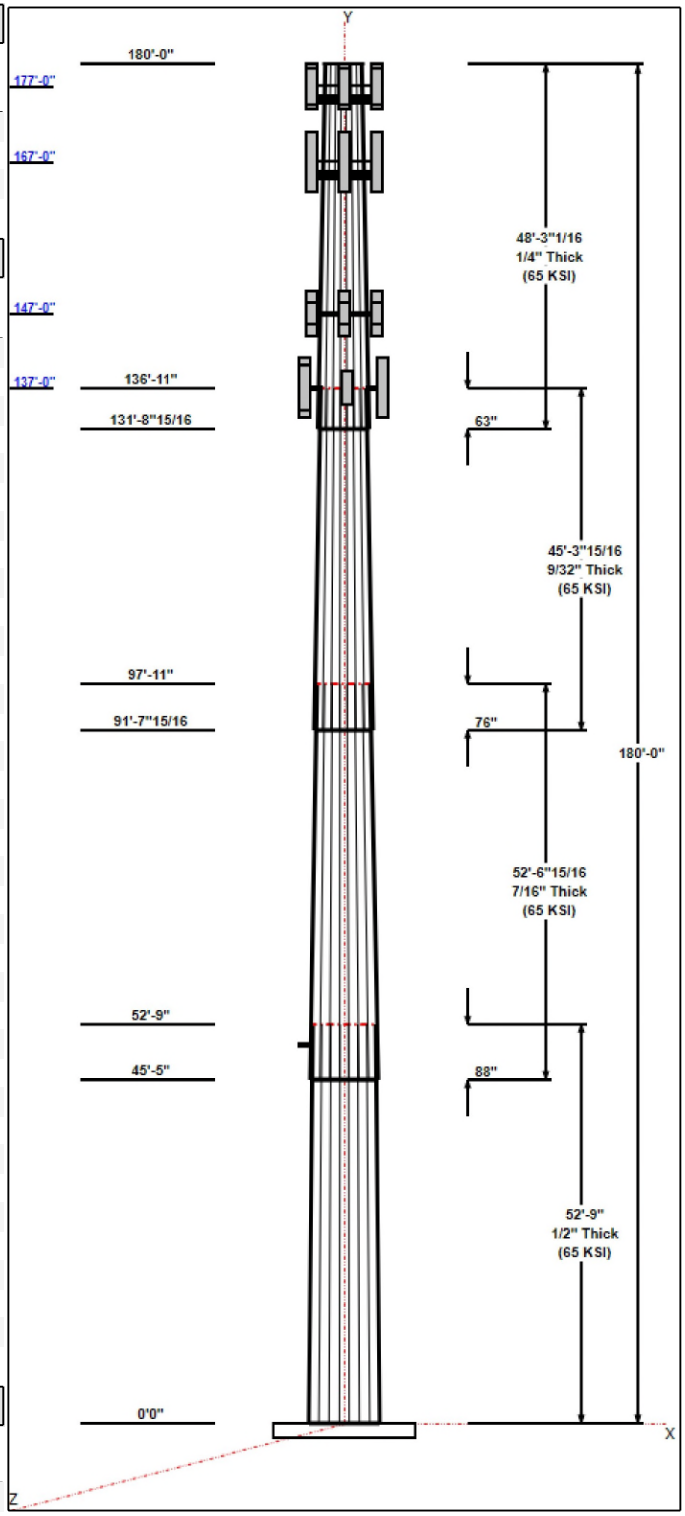
Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	52.75	49.71	60.00	0.500		0.19501	65
2	52.58	41.77	52.02	0.438	Slip	0.19501	65
3	45.33	34.72	43.56	0.281	Slip	0.19501	65
4	48.26	26.84	36.25	0.250	Slip	0.19501	65

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
177.00	177.00	3	ALU 1900 MHz	Sprint Nextel
177.00	177.00	6	ALU 800 MHz	Sprint Nextel
177.00	177.00	3	ALU TD-RRH8x20-25	Sprint Nextel
177.00	177.00	1	Platform w/ Hand Rails	Sprint Nextel
177.00	177.00	3	RFS APXVTM14-C-I20	Sprint Nextel
177.00	177.00	3	Commscope	Sprint Nextel
177.00	177.00	1	Sitepro PRK-1245L	Sprint Nextel
167.00	167.00	3	RFS	T-Mobile
167.00	167.00	3	RFS	T-Mobile
167.00	167.00	1	Sitepro RMQP-4096-HK	T-Mobile
167.00	167.00	3	Ericsson Radio 4449	T-Mobile
147.00	147.00	3	Andrew LNX-6514DS-A1M	Verizon
147.00	147.00	3	Commscope	Verizon
147.00	147.00	3	Samsung MT6407-77A	Verizon
147.00	147.00	3	Samsung B2/B66A	Verizon
147.00	147.00	3	Samsung B5/B13	Verizon
147.00	147.00	3	Samsung CBRS RRH -	Verizon
147.00	147.00	1	Commscope	Verizon
147.00	147.00	3	Commscope	Verizon
147.00	147.00	1	Low Profile Platform	Verizon
137.00	137.00	6	7770	AT&T
137.00	137.00	1	OPA65R-KE6D	AT&T
137.00	137.00	2	OPA65R-BU8DA	AT&T
137.00	137.00	1	DMP65R-BU6DA	AT&T
137.00	137.00	2	DMP65R-BU8DA	AT&T
137.00	137.00	6	Powerwave LGP21401	AT&T
137.00	137.00	6	2Powerwave 1903	AT&T
137.00	137.00	3	4449 B5/B12	AT&T
137.00	137.00	3	RRUS 8843 B2 B66A	AT&T
137.00	137.00	1	Raycap DC6-48-60-18-8F	AT&T
137.00	137.00	1	Raycap	AT&T
137.00	137.00	3	Andrew ABT-DF-DMADBH	AT&T
137.00	137.00	1	(3) T-Arm Kit	AT&T
137.00	137.00	3	T-Arms	AT&T
50.00	50.00	1	GPS	Sprint Nextel
50.00	50.00	1	Stand Off	Sprint Nextel

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	177.00	Inside	1-1/4" Fiber	Sprint Nextel
0.00	167.00	Inside	1-5/8" Coax	T-Mobile
0.00	167.00	Inside	1-5/8" Fiber	T-Mobile
0.00	147.00	Inside	1 5/8" Coax	Verizon
0.00	147.00	Inside	12x24 Hybrid	Verizon
0.00	139.00	Inside	1 5/8" Coax	AT&T



0.00	139.00	Inside	3" Conduit	AT&T
0.00	139.00	Inside	3/4" DC	AT&T
0.00	139.00	Inside	3/8" RET	AT&T
0.00	139.00	Inside	7/16 Fiber	AT&T
0.00	50.00	Outside	1/2" Coax	Sprint Nextel

Anchor Bolts

Qty	Specifications	Grade (ksi)	Arrangement
28	2.25" 18J	75.0	Radial

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
2.7500	74.6	60.0	Polygon

Reactions

Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W 93 mph Wind	5410.7	42.8	64.2
0.9D + 1.6W 93 mph Wind	5348.5	42.8	48.1
1.2D + 1.0Di + 1.0Wi 50 mph Wind	1680.9	12.8	108.3
1.2D + 1.0E	322.2	2.4	64.3
0.9D + 1.0E	318.1	2.4	48.2
1.0D + 1.0W 60 mph Wind	1398.8	11.1	53.5

Structure: CT01722-S-SBA - Coax Line Placement

Type: Monopole
Site Name: South Canton
Height: 180.00 (ft)

7/13/2021

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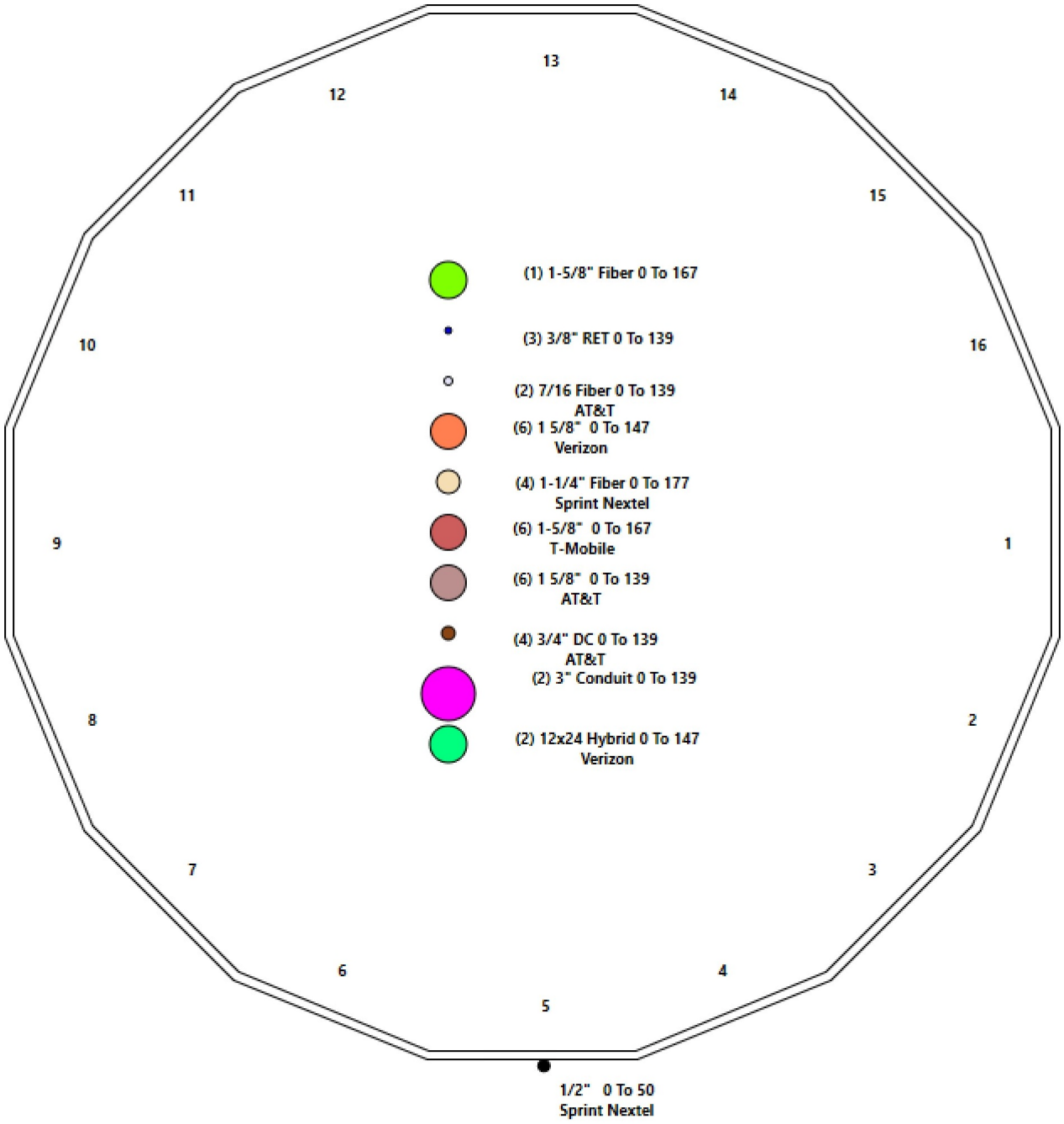

Shaft Properties

Structure:	CT01722-S-SBA		**Code:**	EIA/TIA-222-G	7/13/2021
Site Name:	South Canton		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 5

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Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	16	52.750	0.5000	65		0.00	15,562
2	16	52.580	0.4380	65	Slip	88.00	11,613
3	16	45.330	0.2813	65	Slip	76.00	5,378
4	16	48.257	0.2500	65	Slip	63.00	4,098
					Total Shaft Weight:		**36,651**

	Bottom						Top						
Sec. No.	**Dia (in)**	**Elev (ft)**	**Area (sqin)**	**Ix (in^4)**	**W/t Ratio**	**D/t Ratio**	**Dia (in)**	**Elev (ft)**	**Area (sqin)**	**Ix (in^4)**	**W/t Ratio**	**D/t Ratio**	**Taper**
1	60.00	0.00	94.90	42444.94	22.28	120.00	49.71	52.75	78.50	24017.2	18.19	99.43	0.195008
2	52.02	45.42	72.07	24224.67	22.03	118.77	41.77	98.00	57.74	12459.6	17.38	95.36	0.195008
3	43.56	91.66	38.83	9190.17	29.22	154.89	34.72	136.99	30.90	4631.04	22.97	123.4	0.195008
4	36.25	131.7	28.71	4699.59	27.25	144.99	26.84	180.00	21.20	1893.45	19.76	107.3	0.195008

Load Summary

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 6	

Tower Engineering Solutions

Discrete Appurtenances

				No Ice			Ice				
No.	Elev (ft)	Description	Qty	Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor	Hor. Ecc. (ft)	Vert Ecc (ft)
1	177.00	ALU 1900 MHz	3	60.00	3.80	0.67	261.79	5.684	0.67	0.00	0.00
2	177.00	ALU 800 MHz	6	53.00	2.49	0.67	153.26	4.040	0.67	0.00	0.00
3	177.00	ALU TD-RRH8x20-25	3	70.00	4.05	0.67	231.09	5.183	0.67	0.00	0.00
4	177.00	Platform w/ Hand Rails	1	2000.00	35.00	1.00	4838.95	59.841	1.00	0.00	0.00
5	177.00	RFS APXVTM14-C-I20	3	56.00	6.34	0.79	289.33	7.884	0.79	0.00	0.00
6	177.00	Commscope NNVV-65B-R4	3	77.40	12.27	0.74	464.50	14.244	0.74	0.00	0.00
7	177.00	Sitepro PRK-1245L	1	464.91	9.50	1.00	904.86	22.985	1.00	0.00	0.00
8	167.00	RFS APXV18-206517S-C-A20	3	32.50	5.17	0.74	186.55	8.371	0.74	0.00	0.00
9	167.00	RFS APXVAARR24_43-U-NA20	3	128.00	20.24	0.70	733.50	22.834	0.70	0.00	0.00
10	167.00	Sitepro RMQP-4096-HK	1	2280.00	46.00	1.00	5497.63	89.278	1.00	0.00	0.00
11	167.00	Ericsson Radio 4449 B71+B12	3	74.00	1.65	0.67	173.08	2.374	0.67	0.00	0.00
12	147.00	Andrew LNX-6514DS-A1M	3	38.80	8.17	0.83	273.39	11.927	0.83	0.00	0.00
13	147.00	Commscope NHH-65B-R2B	3	43.70	8.08	0.83	329.19	9.838	0.83	0.00	0.00
14	147.00	Samsung MT6407-77A	3	79.40	4.69	0.70	249.73	5.970	0.70	0.00	0.00
15	147.00	Samsung B2/B66A RRH-BR049	3	84.40	1.87	0.67	194.63	2.657	0.67	0.00	0.00
16	147.00	Samsung B5/B13 RRH-BR04C	3	70.30	1.87	0.67	170.62	2.657	0.67	0.00	0.00
17	147.00	Samsung CBRS RRH - RT4401-48A	3	18.60	0.99	0.67	55.45	1.551	0.67	0.00	0.00
18	147.00	Commscope FE-16148-OVP-B12	1	16.00	2.22	1.00	93.49	3.525	1.00	0.00	0.00
19	147.00	Commscope NHHSS-65B-R2BT0	3	43.70	8.08	0.83	329.19	9.838	0.83	0.00	0.00
20	147.00	Low Profile Platform	1	1500.00	22.00	1.00	3241.69	45.501	1.00	0.00	0.00
21	137.00	7770	6	35.00	5.51	0.73	226.86	6.937	0.73	0.00	0.00
22	137.00	OPA65R-KE6D	1	60.20	12.87	1.00	463.27	14.874	1.00	0.00	0.00
23	137.00	OPA65R-BU8DA	2	76.50	18.09	0.86	603.41	20.539	0.87	0.00	0.00
24	137.00	DMP65R-BU6DA	1	79.40	12.71	1.00	477.28	14.705	1.00	0.00	0.00
25	137.00	DMP65R-BU8DA	2	95.70	17.87	0.86	615.94	20.312	0.87	0.00	0.00
26	137.00	Powerwave LGP21401 TMA	6	14.10	1.29	1.00	47.13	2.394	1.00	0.00	0.00
27	137.00	2Powerwave 1903 Diplexer	6	5.50	0.27	0.84	16.64	0.795	0.84	0.00	0.00
28	137.00	4449 B5/B12	3	71.00	1.97	0.67	141.53	2.693	0.67	0.00	0.00
29	137.00	RRUS 8843 B2 B66A	3	72.00	1.64	0.67	133.90	2.296	0.67	0.00	0.00
30	137.00	Raycap DC6-48-60-18-8F	1	31.80	0.92	1.00	113.49	1.499	1.00	0.00	0.00
31	137.00	Raycap DC6-48-60-0-8C-EV	1	16.00	4.78	1.00	179.49	5.948	1.00	0.00	0.00
32	137.00	Andrew ABT-DF-DMADBH	3	1.10	0.05	0.98	4.05	0.304	0.98	0.00	0.00
33	137.00	(3) T-Arm Kit	1	500.00	16.50	1.00	1284.02	37.807	1.00	0.00	0.00
34	137.00	T-Arms	3	350.00	8.00	0.75	672.83	17.224	0.75	0.00	0.00
35	50.00	GPS	1	10.00	1.00	1.00	45.03	1.851	1.00	0.00	0.00
36	50.00	Stand Off	1	40.00	2.63	1.00	135.90	9.760	1.00	0.00	0.00
		Totals:	**94**	**12,101.01**			**37,060.18**				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	177.00	(4) 1-1/4" Fiber	0.00	Inside
0.00	167.00	(6) 1-5/8" Coax	0.00	Inside
0.00	167.00	(1) 1-5/8" Fiber	0.00	Inside
0.00	147.00	(6) 1 5/8" Coax	0.00	Inside
0.00	147.00	(2) 12x24 Hybrid	0.00	Inside

Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice Weight (lb)	No Ice CaAa (sf)	No Ice CaAa Factor	Ice Weight (lb)	Ice CaAa (sf)	Ice CaAa Factor	Hor. Ecc. (ft)	Vert Ecc (ft)
0.00	139.00	(6) 1 5/8" Coax			0.00	Inside					
0.00	139.00	(2) 3" Conduit			0.00	Inside					
0.00	139.00	(4) 3/4" DC			0.00	Inside					
0.00	139.00	(3) 3/8" RET			0.00	Inside					
0.00	139.00	(2) 7/16 Fiber			0.00	Inside					
0.00	50.00	(1) 1/2" Coax			0.65	Outside					

Shaft Section Properties

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 8	

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Increment Length: **5 (ft)**

Elev (ft)	Description	Thick (in)	Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fpy (ksi)	S (in^3)	Weight (lb)
0.00		0.5000	60.000	94.903	42444.9	22.28	120.00	77.4	1387.	0.0
5.00		0.5000	59.025	93.347	40392.3	21.89	118.05	77.8	1342.	1601.4
10.00		0.5000	58.050	91.792	38406.9	21.50	116.10	78.2	1297.	1575.0
15.00		0.5000	57.075	90.237	36487.6	21.11	114.15	78.7	1254.	1548.5
20.00		0.5000	56.100	88.682	34633.4	20.73	112.20	79.1	1211.	1522.1
25.00		0.5000	55.125	87.127	32843.1	20.34	110.25	79.6	1168.	1495.6
30.00		0.5000	54.150	85.571	31115.6	19.95	108.30	80.0	1127.	1469.1
35.00		0.5000	53.175	84.016	29449.7	19.56	106.35	80.4	1086.	1442.7
40.00		0.5000	52.200	82.461	27844.4	19.18	104.40	80.9	1046.	1416.2
45.00		0.5000	51.225	80.906	26298.5	18.79	102.45	81.3	1007.	1389.8
45.42	Bot - Section 2	0.5000	51.143	80.776	26172.4	18.75	102.29	81.3	1003.	114.6
50.00		0.5000	50.250	79.351	24811.0	18.40	100.50	81.8	968.5	2363.0
52.75	Top - Section 1	0.4380	50.589	70.072	22265.2	21.38	115.50	0.0	0.0	1397.8
55.00		0.4380	50.151	69.459	21685.9	21.18	114.50	78.6	848.2	534.1
60.00		0.4380	49.176	68.097	20434.7	20.74	112.27	79.1	815.1	1170.2
65.00		0.4380	48.200	66.735	19232.7	20.30	110.05	79.6	782.7	1147.0
70.00		0.4380	47.225	65.372	18078.7	19.86	107.82	80.1	750.9	1123.8
75.00		0.4380	46.250	64.010	16971.8	19.41	105.59	80.6	719.8	1100.6
80.00		0.4380	45.275	62.648	15911.0	18.97	103.37	81.1	689.4	1077.5
85.00		0.4380	44.300	61.285	14895.4	18.53	101.14	81.6	659.6	1054.3
90.00		0.4380	43.325	59.923	13924.0	18.08	98.92	82.1	630.4	1031.1
91.66	Bot - Section 3	0.4380	43.001	59.470	13610.4	17.94	98.18	82.3	620.9	337.9
95.00		0.4380	42.350	58.561	12995.7	17.64	96.69	82.5	601.9	1107.6
98.00	Top - Section 2	0.2813	42.328	37.724	8425.7	28.35	150.50	0.0	0.0	980.3
100.00		0.2813	41.938	37.374	8193.0	28.07	149.11	70.8	383.2	256.0
105.00		0.2813	40.963	36.499	7631.1	27.38	145.64	71.6	365.4	628.4
110.00		0.2813	39.988	35.624	7095.4	26.69	142.18	72.4	348.1	613.5
115.00		0.2813	39.013	34.749	6585.4	26.00	138.71	73.2	331.1	598.7
120.00		0.2813	38.038	33.874	6100.5	25.31	135.24	73.9	314.6	583.8
125.00		0.2813	37.062	33.000	5640.0	24.62	131.78	74.7	298.5	568.9
130.00		0.2813	36.087	32.125	5203.2	23.93	128.31	75.5	282.8	554.0
131.74	Bot - Section 4	0.2813	35.747	31.820	5056.4	23.69	127.10	75.8	277.5	189.7
135.00		0.2813	35.112	31.250	4789.6	23.24	124.84	76.3	267.6	664.8
136.99	Top - Section 3	0.2500	35.224	27.891	4309.9	26.43	140.89	0.0	0.0	401.0
137.00		0.2500	35.222	27.890	4309.4	26.43	140.89	72.7	240.0	0.6
140.00		0.2500	34.637	27.424	4096.8	25.97	138.55	73.2	232.0	282.3
145.00		0.2500	33.662	26.646	3758.1	25.19	134.65	74.1	219.0	460.0
147.00		0.2500	33.272	26.335	3628.0	24.88	133.09	74.4	213.9	180.3
150.00		0.2500	32.687	25.869	3438.6	24.42	130.75	74.9	206.3	266.5
155.00		0.2500	31.712	25.091	3137.7	23.64	126.85	75.8	194.1	433.5
160.00		0.2500	30.737	24.314	2854.9	22.86	122.95	76.7	182.2	420.3
165.00		0.2500	29.762	23.536	2589.7	22.09	119.05	77.6	170.7	407.1
167.00		0.2500	29.372	23.225	2488.4	21.78	117.49	77.9	166.2	159.1
170.00		0.2500	28.787	22.758	2341.4	21.31	115.15	78.5	159.5	234.7
175.00		0.2500	27.812	21.981	2109.5	20.54	111.25	79.3	148.8	380.6
177.00		0.2500	27.422	21.670	2021.2	20.23	109.69	79.7	144.6	148.5
180.00		0.2500	26.837	21.203	1893.4	19.76	107.35	80.2	138.4	218.8
										36651.2

Wind Loading - Shaft

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 9	

Tower Engineering Solutions

Load Case: 1.2D + 1.6W 93 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 25

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	17.879	19.67	437.11	0.750	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	17.879	19.67	430.00	0.750	0.000	5.00	25.283	18.96	596.7	0.0	1921.7
10.00		1.00	0.85	17.879	19.67	422.90	0.750	0.000	5.00	24.868	18.65	586.9	0.0	1890.0
15.00		1.00	0.85	17.879	19.67	415.80	0.750	0.000	5.00	24.454	18.34	577.1	0.0	1858.2
20.00		1.00	0.90	18.971	20.87	420.98	0.750	0.000	5.00	24.040	18.03	602.0	0.0	1826.5
25.00		1.00	0.95	19.883	21.87	423.50	0.750	0.000	5.00	23.626	17.72	620.1	0.0	1794.7
30.00		1.00	0.98	20.661	22.73	424.07	0.750	0.000	5.00	23.212	17.41	633.0	0.0	1763.0
35.00		1.00	1.01	21.343	23.48	423.24	0.750	0.000	5.00	22.797	17.10	642.3	0.0	1731.2
40.00		1.00	1.04	21.951	24.15	421.37	0.750	0.000	5.00	22.383	16.79	648.6	0.0	1699.5
45.00		1.00	1.07	22.502	24.75	418.65	0.750	0.000	5.00	21.969	16.48	652.5	0.0	1667.7
45.42	Bot - Section 2	1.00	1.07	22.546	24.80	418.39	0.750	0.000	0.42	1.812	1.36	53.9	0.0	137.5
50.00	Appurtenance(s)	1.00	1.09	23.007	25.31	415.26	0.750	0.000	4.58	20.084	15.06	609.9	0.0	2835.5
52.75	Top - Section 1	1.00	1.11	23.268	25.59	413.15	0.750	0.000	2.75	11.883	8.91	365.0	0.0	1677.3
55.00		1.00	1.12	23.473	25.82	418.62	0.750	0.000	2.25	9.629	7.22	298.4	0.0	641.0
60.00		1.00	1.14	23.907	26.30	414.26	0.750	0.000	5.00	21.098	15.82	665.8	0.0	1404.2
65.00		1.00	1.16	24.313	26.74	409.48	0.750	0.000	5.00	20.684	15.51	663.8	0.0	1376.4
70.00		1.00	1.17	24.696	27.17	404.34	0.750	0.000	5.00	20.270	15.20	660.8	0.0	1348.6
75.00		1.00	1.19	25.057	27.56	398.88	0.750	0.000	5.00	19.856	14.89	656.7	0.0	1320.8
80.00		1.00	1.21	25.400	27.94	393.13	0.750	0.000	5.00	19.441	14.58	651.8	0.0	1293.0
85.00		1.00	1.22	25.726	28.30	387.13	0.750	0.000	5.00	19.027	14.27	646.1	0.0	1265.1
90.00		1.00	1.24	26.037	28.64	380.89	0.750	0.000	5.00	18.613	13.96	639.7	0.0	1237.3
91.66	Bot - Section 3	1.00	1.24	26.138	28.75	378.77	0.750	0.000	1.66	6.100	4.58	210.5	0.0	405.5
95.00		1.00	1.25	26.336	28.97	374.45	0.750	0.000	3.34	12.258	9.19	426.1	0.0	1329.2
98.00	Top - Section 2	1.00	1.26	26.508	29.16	370.49	0.750	0.000	3.00	10.852	8.14	379.7	0.0	1176.4
100.00		1.00	1.27	26.621	29.28	372.81	0.750	0.000	2.00	7.172	5.38	252.0	0.0	307.2
105.00		1.00	1.28	26.896	29.59	366.01	0.750	0.000	5.00	17.609	13.21	625.2	0.0	754.1
110.00		1.00	1.29	27.161	29.88	359.06	0.750	0.000	5.00	17.195	12.90	616.5	0.0	736.3
115.00		1.00	1.30	27.416	30.16	351.94	0.750	0.000	5.00	16.781	12.59	607.3	0.0	718.4
120.00		1.00	1.32	27.663	30.43	344.69	0.750	0.000	5.00	16.367	12.27	597.6	0.0	700.5
125.00		1.00	1.33	27.902	30.69	337.30	0.750	0.000	5.00	15.952	11.96	587.5	0.0	682.7
130.00		1.00	1.34	28.133	30.95	329.78	0.750	0.000	5.00	15.538	11.65	577.0	0.0	664.8
131.74	Bot - Section 4	1.00	1.34	28.212	31.03	327.14	0.750	0.000	1.74	5.320	3.99	198.1	0.0	227.6
135.00		1.00	1.35	28.358	31.19	322.15	0.750	0.000	3.26	9.942	7.46	372.2	0.0	797.7
136.99	Top - Section 3	1.00	1.35	28.445	31.29	319.08	0.750	0.000	1.99	5.999	4.50	225.2	0.0	481.2
137.00	Appurtenance(s)	1.00	1.35	28.446	31.29	323.66	0.750	0.000	0.01	0.020	0.01	0.7	0.0	0.8
140.00		1.00	1.36	28.576	31.43	319.01	0.750	0.000	3.00	8.904	6.68	335.8	0.0	338.8
145.00		1.00	1.37	28.788	31.67	311.18	0.750	0.000	5.00	14.508	10.88	551.3	0.0	552.0
147.00	Appurtenance(s)	1.00	1.37	28.871	31.76	308.02	0.750	0.000	2.00	5.687	4.27	216.7	0.0	216.3
150.00		1.00	1.38	28.994	31.89	303.24	0.750	0.000	3.00	8.406	6.30	321.7	0.0	319.7
155.00		1.00	1.39	29.195	32.11	295.22	0.750	0.000	5.00	13.679	10.26	527.2	0.0	520.2
160.00		1.00	1.40	29.390	32.33	287.10	0.750	0.000	5.00	13.265	9.95	514.6	0.0	504.3
165.00		1.00	1.41	29.581	32.54	278.89	0.750	0.000	5.00	12.851	9.64	501.8	0.0	488.5
167.00	Appurtenance(s)	1.00	1.41	29.657	32.62	275.59	0.750	0.000	2.00	5.024	3.77	196.7	0.0	190.9
170.00		1.00	1.42	29.768	32.74	270.60	0.750	0.000	3.00	7.412	5.56	291.3	0.0	281.6
175.00		1.00	1.42	29.950	32.95	262.24	0.750	0.000	5.00	12.022	9.02	475.3	0.0	456.7
177.00	Appurtenance(s)	1.00	1.43	30.022	33.02	258.87	0.750	0.000	2.00	4.693	3.52	186.0	0.0	178.2
180.00		1.00	1.43	30.128	33.14	253.80	0.750	0.000	3.00	6.915	5.19	275.0	0.0	262.6

Wind Loading - Shaft

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 10	

Totals:	**180.00**	**21,540.3**	**43,981.5**

Discrete Appurtenance Forces

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 11	

Tower Engineering Solutions

Load Case: 1.2D + 1.6W 93 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 25

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	177.00	Commscope	3	30.022	33.024	0.55	0.75	20.43	278.64	0.000	0.000	1079.47	0.00	0.00
2	177.00	RFS APXVTM14-C-I20	3	30.022	33.024	0.59	0.75	11.27	201.60	0.000	0.000	595.45	0.00	0.00
3	177.00	Platform w/ Hand Rails	1	30.022	33.024	1.00	1.00	35.00	2400.00	0.000	0.000	1849.35	0.00	0.00
4	177.00	ALU TD-RRH8x20-25	3	30.022	33.024	0.50	0.75	6.11	252.00	0.000	0.000	322.60	0.00	0.00
5	177.00	ALU 800 MHz	6	30.022	33.024	0.50	0.75	7.51	381.60	0.000	0.000	396.68	0.00	0.00
6	177.00	ALU 1900 MHz	3	30.022	33.024	0.50	0.75	5.73	216.00	0.000	0.000	302.68	0.00	0.00
7	177.00	Sitepro PRK-1245L	1	30.022	33.024	1.00	1.00	9.50	557.89	0.000	0.000	501.97	0.00	0.00
8	167.00	Sitepro RMQP-4096-HK	1	29.657	32.622	1.00	1.00	46.00	2736.00	0.000	0.000	2400.99	0.00	0.00
9	167.00	RFS	3	29.657	32.622	0.52	0.75	31.88	460.80	0.000	0.000	1663.89	0.00	0.00
10	167.00	Ericsson Radio 4449	3	29.657	32.622	0.50	0.75	2.49	266.40	0.000	0.000	129.83	0.00	0.00
11	167.00	RFS	3	29.657	32.622	0.55	0.75	8.61	117.00	0.000	0.000	449.30	0.00	0.00
12	147.00	Commscope	1	28.871	31.758	0.80	0.80	1.78	19.20	0.000	0.000	90.24	0.00	0.00
13	147.00	Samsung CBRS RRH -	3	28.871	31.758	0.54	0.80	1.59	66.96	0.000	0.000	80.89	0.00	0.00
14	147.00	Samsung B5/B13	3	28.871	31.758	0.54	0.80	3.01	253.08	0.000	0.000	152.79	0.00	0.00
15	147.00	Samsung B2/B66A	3	28.871	31.758	0.54	0.80	3.01	303.84	0.000	0.000	152.79	0.00	0.00
16	147.00	Samsung MT6407-77A	3	28.871	31.758	0.56	0.80	7.88	285.84	0.000	0.000	400.36	0.00	0.00
17	147.00	Commscope	3	28.871	31.758	0.66	0.80	16.10	157.32	0.000	0.000	817.84	0.00	0.00
18	147.00	Andrew LNX-6514DS-A1M	3	28.871	31.758	0.66	0.80	16.27	139.68	0.000	0.000	826.95	0.00	0.00
19	147.00	Commscope	3	28.871	31.758	0.66	0.80	16.10	157.32	0.000	0.000	817.84	0.00	0.00
20	147.00	Low Profile Platform	1	28.871	31.758	1.00	1.00	22.00	1800.00	0.000	0.000	1117.87	0.00	0.00
21	137.00	T-Arms	3	28.446	31.290	0.56	0.75	13.50	1260.00	0.000	0.000	675.87	0.00	0.00
22	137.00	7770	6	28.446	31.290	0.58	0.80	19.31	252.00	0.000	0.000	966.59	0.00	0.00
23	137.00	OPA65R-KE6D	1	28.446	31.290	0.80	0.80	10.30	72.24	0.000	0.000	515.46	0.00	0.00
24	137.00	OPA65R-BU8DA	2	28.446	31.290	0.69	0.80	24.89	183.60	0.000	0.000	1246.19	0.00	0.00
25	137.00	DMP65R-BU6DA	1	28.446	31.290	0.80	0.80	10.17	95.28	0.000	0.000	509.05	0.00	0.00
26	137.00	DMP65R-BU8DA	2	28.446	31.290	0.69	0.80	24.59	229.68	0.000	0.000	1231.04	0.00	0.00
27	137.00	Powerwave LGP21401	6	28.446	31.290	0.80	0.80	6.19	101.52	0.000	0.000	310.00	0.00	0.00
28	137.00	2Powerwave 1903	6	28.446	31.290	0.67	0.80	1.09	39.60	0.000	0.000	54.50	0.00	0.00
29	137.00	4449 B5/B12	3	28.446	31.290	0.54	0.80	3.17	255.60	0.000	0.000	158.59	0.00	0.00
30	137.00	RRUS 8843 B2 B66A	3	28.446	31.290	0.54	0.80	2.64	259.20	0.000	0.000	132.03	0.00	0.00
31	137.00	Raycap DC6-48-60-18-8F	1	28.446	31.290	0.80	0.80	0.74	38.16	0.000	0.000	36.85	0.00	0.00
32	137.00	Raycap	1	28.446	31.290	0.80	0.80	3.82	19.20	0.000	0.000	191.45	0.00	0.00
33	137.00	Andrew ABT-DF-DMADBH	3	28.446	31.290	0.78	0.80	0.12	3.96	0.000	0.000	5.89	0.00	0.00
34	137.00	(3) T-Arm Kit	1	28.446	31.290	1.00	1.00	16.50	600.00	0.000	0.000	826.06	0.00	0.00
35	50.00	Stand Off	1	23.007	25.308	1.00	1.00	2.63	48.00	0.000	0.000	106.49	0.00	0.00
36	50.00	GPS	1	23.007	25.308	1.00	1.00	1.00	12.00	0.000	0.000	40.49	0.00	0.00
							Totals:		**14,521.21**			**21,156.34**		

Total Applied Force Summary

Structure:	CT01722-S-SBA		**Code:**	EIA/TIA-222-G	7/13/2021
Site Name:	South Canton		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 12

Load Case: 1.2D + 1.6W 93 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 25

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		596.69	2111.53	0.00	0.00
10.00		586.91	2079.78	0.00	0.00
15.00		577.13	2048.03	0.00	0.00
20.00		601.99	2016.28	0.00	0.00
25.00		620.07	1984.53	0.00	0.00
30.00		633.04	1952.77	0.00	0.00
35.00		642.25	1921.02	0.00	0.00
40.00		648.56	1889.27	0.00	0.00
45.00		652.54	1857.52	0.00	0.00
45.42		53.93	153.36	0.00	0.00
50.00	(2) attachments	756.91	3069.54	0.00	0.00
52.75		364.97	1781.17	0.00	0.00
55.00		298.36	725.96	0.00	0.00
60.00		665.81	1593.08	0.00	0.00
65.00		663.83	1565.26	0.00	0.00
70.00		660.76	1537.45	0.00	0.00
75.00		656.73	1509.63	0.00	0.00
80.00		651.83	1481.82	0.00	0.00
85.00		646.13	1454.00	0.00	0.00
90.00		639.72	1426.19	0.00	0.00
91.66		210.47	468.28	0.00	0.00
95.00		426.13	1455.20	0.00	0.00
98.00		379.72	1289.58	0.00	0.00
100.00		252.02	382.83	0.00	0.00
105.00		625.18	942.97	0.00	0.00
110.00		616.49	925.11	0.00	0.00
115.00		607.29	907.25	0.00	0.00
120.00		597.63	889.39	0.00	0.00
125.00		587.53	871.53	0.00	0.00
130.00		577.02	853.67	0.00	0.00
131.74		198.13	293.45	0.00	0.00
135.00		372.15	920.75	0.00	0.00
136.99		225.23	556.51	0.00	0.00
137.00	(39) attachments	6860.32	3411.05	0.00	0.00
140.00		335.84	437.86	0.00	0.00
145.00		551.29	669.54	0.00	0.00
147.00	(23) attachments	4674.32	3441.55	0.00	0.00
150.00		321.73	359.91	0.00	0.00
155.00		527.16	587.15	0.00	0.00
160.00		514.63	571.27	0.00	0.00
165.00		501.80	555.40	0.00	0.00
167.00	(10) attachments	4840.70	3797.91	0.00	0.00
170.00		291.26	295.38	0.00	0.00
175.00		475.30	479.61	0.00	0.00
177.00	(20) attachments	5234.17	4475.13	0.00	0.00
180.00		275.01	262.60	0.00	0.00

Total Applied Force Summary

Structure:	CT01722-S-SBA		**Code:**	EIA/TIA-222-G	7/13/2021
Site Name:	South Canton		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 13

Totals:	**42,696.67**	**64,259.07**	**0.00**	**0.00**

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 14	

Load Case: 1.2D + 1.6W 93 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.011	0.000	17.879	0.00	0.96
10.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.011	0.000	17.879	0.00	0.96
15.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.011	0.000	17.879	0.00	0.96
20.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.011	0.000	18.971	0.00	0.96
25.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.011	0.000	19.883	0.00	0.96
30.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	20.661	0.00	0.96
35.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	21.343	0.00	0.96
40.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	21.951	0.00	0.96
45.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	22.502	0.00	0.96
45.42	1/2" Coax	Yes	0.42	0.000	0.65	0.02	0.00	0.012	0.000	22.546	0.00	0.08
50.00	1/2" Coax	Yes	4.58	0.000	0.65	0.25	0.00	0.013	0.000	23.007	0.00	0.88
										Totals:	**0.0**	**9.6**

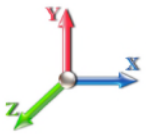
Calculated Forces

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 15	

Load Case: 1.2D + 1.6W 93 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 25

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-64.19	-42.80	0.00	-5410.7	0.00	5410.70	6607.78	3303.89	16218.3	8051.48	0.00	0.000	0.000	0.682
5.00	-61.95	-42.39	0.00	-5196.7	0.00	5196.71	6536.37	3268.19	15777.9	7832.86	0.10	-0.178	0.000	0.673
10.00	-59.74	-41.98	0.00	-4984.7	0.00	4984.76	6463.73	3231.87	15340.5	7615.67	0.38	-0.357	0.000	0.664
15.00	-57.57	-41.57	0.00	-4774.8	0.00	4774.85	6389.86	3194.93	14906.0	7399.99	0.85	-0.538	0.000	0.654
20.00	-55.42	-41.12	0.00	-4567.0	0.00	4567.00	6314.77	3157.38	14474.7	7185.88	1.51	-0.720	0.000	0.644
25.00	-53.32	-40.65	0.00	-4361.3	0.00	4361.38	6238.44	3119.22	14046.7	6973.42	2.36	-0.903	0.000	0.634
30.00	-51.25	-40.15	0.00	-4158.1	0.00	4158.15	6160.89	3080.44	13622.3	6762.68	3.41	-1.088	0.000	0.623
35.00	-49.21	-39.62	0.00	-3957.4	0.00	3957.42	6082.10	3041.05	13201.4	6553.75	4.65	-1.273	0.000	0.612
40.00	-47.21	-39.09	0.00	-3759.3	0.00	3759.30	6002.09	3001.05	12784.3	6346.69	6.08	-1.460	0.000	0.600
45.00	-45.31	-38.46	0.00	-3563.8	0.00	3563.87	5920.85	2960.42	12371.1	6141.58	7.71	-1.647	0.000	0.588
45.42	-45.09	-38.48	0.00	-3547.8	0.00	3547.85	5914.02	2957.01	12336.9	6124.58	7.85	-1.663	0.000	0.587
50.00	-41.95	-37.73	0.00	-3371.4	0.00	3371.49	5838.38	2919.19	11962.1	5938.49	9.53	-1.835	0.000	0.575
52.75	-40.12	-37.37	0.00	-3267.7	0.00	3267.74	4942.80	2471.40	10222.2	5074.76	10.62	-1.940	0.000	0.652
55.00	-39.31	-37.15	0.00	-3183.6	0.00	3183.65	4913.65	2456.82	10072.3	5000.32	11.56	-2.026	0.000	0.645
60.00	-37.62	-36.56	0.00	-2997.9	0.00	2997.91	4847.98	2423.99	9741.07	4835.88	13.79	-2.228	0.000	0.628
65.00	-35.95	-35.96	0.00	-2815.1	0.00	2815.12	4781.08	2390.54	9412.76	4672.89	16.23	-2.431	0.000	0.610
70.00	-34.32	-35.35	0.00	-2635.3	0.00	2635.33	4712.96	2356.48	9087.49	4511.41	18.88	-2.632	0.000	0.592
75.00	-32.73	-34.74	0.00	-2458.5	0.00	2458.58	4643.60	2321.80	8765.44	4351.53	21.75	-2.833	0.000	0.572
80.00	-31.16	-34.12	0.00	-2284.9	0.00	2284.90	4573.02	2286.51	8446.74	4193.32	24.82	-3.032	0.000	0.552
85.00	-29.63	-33.49	0.00	-2114.3	0.00	2114.31	4501.21	2250.60	8131.55	4036.84	28.10	-3.228	0.000	0.531
90.00	-28.17	-32.84	0.00	-1946.8	0.00	1946.84	4428.17	2214.08	7820.02	3882.19	31.58	-3.422	0.000	0.508
91.66	-27.66	-32.64	0.00	-1892.2	0.00	1892.23	4403.60	2201.80	7717.21	3831.15	32.79	-3.487	0.000	0.500
95.00	-26.17	-32.18	0.00	-1783.3	0.00	1783.30	4350.76	2175.38	7506.87	3726.73	35.27	-3.616	0.000	0.485
98.00	-24.85	-31.76	0.00	-1686.8	0.00	1686.86	2393.56	1196.78	4158.66	2064.53	37.57	-3.729	0.000	0.828
100.00	-24.39	-31.56	0.00	-1623.2	0.00	1623.23	2381.84	1190.92	4099.59	2035.21	39.16	-3.805	0.000	0.809
105.00	-23.35	-30.98	0.00	-1465.4	0.00	1465.42	2351.72	1175.86	3952.36	1962.12	43.28	-4.073	0.000	0.757
110.00	-22.34	-30.40	0.00	-1310.5	0.00	1310.52	2320.37	1160.18	3805.57	1889.24	47.69	-4.332	0.000	0.704
115.00	-21.36	-29.81	0.00	-1158.5	0.00	1158.53	2287.79	1143.89	3659.35	1816.65	52.35	-4.579	0.000	0.648
120.00	-20.40	-29.22	0.00	-1009.4	0.00	1009.47	2253.98	1126.99	3513.86	1744.43	57.27	-4.814	0.000	0.588
125.00	-19.48	-28.64	0.00	-863.36	0.00	863.36	2218.95	1109.47	3369.25	1672.64	62.43	-5.032	0.000	0.526
130.00	-18.62	-28.03	0.00	-720.18	0.00	720.18	2182.68	1091.34	3225.66	1601.35	67.80	-5.232	0.000	0.459
131.74	-18.30	-27.83	0.00	-671.32	0.00	671.32	2169.75	1084.87	3175.87	1576.63	69.72	-5.298	0.000	0.435
135.00	-17.38	-27.40	0.00	-580.69	0.00	580.69	2145.19	1072.59	3083.25	1530.65	73.37	-5.413	0.000	0.388
136.99	-16.83	-27.13	0.00	-526.07	0.00	526.07	1823.96	911.98	2634.70	1307.98	75.64	-5.478	0.000	0.412
137.00	-14.07	-19.99	0.00	-525.89	0.00	525.89	1823.92	911.96	2634.55	1307.90	75.65	-5.478	0.000	0.410
140.00	-13.63	-19.65	0.00	-465.91	0.00	465.91	1806.41	903.20	2565.29	1273.52	79.12	-5.577	0.000	0.374
145.00	-12.98	-19.05	0.00	-367.69	0.00	367.69	1776.24	888.12	2450.41	1216.49	85.03	-5.721	0.000	0.310
147.00	-10.01	-14.07	0.00	-329.58	0.00	329.58	1763.83	881.91	2404.67	1193.78	87.44	-5.774	0.000	0.282
150.00	-9.66	-13.73	0.00	-287.38	0.00	287.38	1744.84	872.42	2336.33	1159.85	91.08	-5.847	0.000	0.254
155.00	-9.11	-13.16	0.00	-218.75	0.00	218.75	1712.21	856.11	2223.20	1103.69	97.26	-5.951	0.000	0.204
160.00	-8.58	-12.60	0.00	-152.97	0.00	152.97	1678.36	839.18	2111.17	1048.07	103.53	-6.036	0.000	0.151
165.00	-8.08	-12.04	0.00	-89.99	0.00	89.99	1643.27	821.64	2000.39	993.08	109.87	-6.096	0.000	0.096
167.00	-4.81	-6.83	0.00	-65.90	0.00	65.90	1628.90	814.45	1956.47	971.27	112.42	-6.113	0.000	0.071
170.00	-4.55	-6.51	0.00	-45.42	0.00	45.42	1606.96	803.48	1891.02	938.78	116.26	-6.132	0.000	0.051
175.00	-4.12	-5.99	0.00	-12.87	0.00	12.87	1569.42	784.71	1783.19	885.25	122.69	-6.150	0.000	0.017
177.00	-0.23	-0.30	0.00	-0.90	0.00	0.90	1554.06	777.03	1740.53	864.07	125.26	-6.152	0.000	0.001
180.00	0.00	-0.27	0.00	0.00	0.00	0.00	1530.65	765.32	1677.06	832.56	129.12	-6.152	0.000	0.000

Calculated Forces

Structure:	CT01722-S-SBA		**Code:**	EIA/TIA-222-G	7/13/2021
Site Name:	South Canton		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 16

Wind Loading - Shaft

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 17	

Load Case: 0.9D + 1.6W 93 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60

Iterations 25

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	17.879	19.67	437.11	0.750	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	17.879	19.67	430.00	0.750	0.000	5.00	25.283	18.96	596.7	0.0	1441.3
10.00		1.00	0.85	17.879	19.67	422.90	0.750	0.000	5.00	24.868	18.65	586.9	0.0	1417.5
15.00		1.00	0.85	17.879	19.67	415.80	0.750	0.000	5.00	24.454	18.34	577.1	0.0	1393.7
20.00		1.00	0.90	18.971	20.87	420.98	0.750	0.000	5.00	24.040	18.03	602.0	0.0	1369.8
25.00		1.00	0.95	19.883	21.87	423.50	0.750	0.000	5.00	23.626	17.72	620.1	0.0	1346.0
30.00		1.00	0.98	20.661	22.73	424.07	0.750	0.000	5.00	23.212	17.41	633.0	0.0	1322.2
35.00		1.00	1.01	21.343	23.48	423.24	0.750	0.000	5.00	22.797	17.10	642.3	0.0	1298.4
40.00		1.00	1.04	21.951	24.15	421.37	0.750	0.000	5.00	22.383	16.79	648.6	0.0	1274.6
45.00		1.00	1.07	22.502	24.75	418.65	0.750	0.000	5.00	21.969	16.48	652.5	0.0	1250.8
45.42	Bot - Section 2	1.00	1.07	22.546	24.80	418.39	0.750	0.000	0.42	1.812	1.36	53.9	0.0	103.2
50.00	Appurtenance(s)	1.00	1.09	23.007	25.31	415.26	0.750	0.000	4.58	20.084	15.06	609.9	0.0	2126.7
52.75	Top - Section 1	1.00	1.11	23.268	25.59	413.15	0.750	0.000	2.75	11.883	8.91	365.0	0.0	1258.0
55.00		1.00	1.12	23.473	25.82	418.62	0.750	0.000	2.25	9.629	7.22	298.4	0.0	480.7
60.00		1.00	1.14	23.907	26.30	414.26	0.750	0.000	5.00	21.098	15.82	665.8	0.0	1053.2
65.00		1.00	1.16	24.313	26.74	409.48	0.750	0.000	5.00	20.684	15.51	663.8	0.0	1032.3
70.00		1.00	1.17	24.696	27.17	404.34	0.750	0.000	5.00	20.270	15.20	660.8	0.0	1011.4
75.00		1.00	1.19	25.057	27.56	398.88	0.750	0.000	5.00	19.856	14.89	656.7	0.0	990.6
80.00		1.00	1.21	25.400	27.94	393.13	0.750	0.000	5.00	19.441	14.58	651.8	0.0	969.7
85.00		1.00	1.22	25.726	28.30	387.13	0.750	0.000	5.00	19.027	14.27	646.1	0.0	948.9
90.00		1.00	1.24	26.037	28.64	380.89	0.750	0.000	5.00	18.613	13.96	639.7	0.0	928.0
91.66	Bot - Section 3	1.00	1.24	26.138	28.75	378.77	0.750	0.000	1.66	6.100	4.58	210.5	0.0	304.1
95.00		1.00	1.25	26.336	28.97	374.45	0.750	0.000	3.34	12.258	9.19	426.1	0.0	996.9
98.00	Top - Section 2	1.00	1.26	26.508	29.16	370.49	0.750	0.000	3.00	10.852	8.14	379.7	0.0	882.3
100.00		1.00	1.27	26.621	29.28	372.81	0.750	0.000	2.00	7.172	5.38	252.0	0.0	230.4
105.00		1.00	1.28	26.896	29.59	366.01	0.750	0.000	5.00	17.609	13.21	625.2	0.0	565.6
110.00		1.00	1.29	27.161	29.88	359.06	0.750	0.000	5.00	17.195	12.90	616.5	0.0	552.2
115.00		1.00	1.30	27.416	30.16	351.94	0.750	0.000	5.00	16.781	12.59	607.3	0.0	538.8
120.00		1.00	1.32	27.663	30.43	344.69	0.750	0.000	5.00	16.367	12.27	597.6	0.0	525.4
125.00		1.00	1.33	27.902	30.69	337.30	0.750	0.000	5.00	15.952	11.96	587.5	0.0	512.0
130.00		1.00	1.34	28.133	30.95	329.78	0.750	0.000	5.00	15.538	11.65	577.0	0.0	498.6
131.74	Bot - Section 4	1.00	1.34	28.212	31.03	327.14	0.750	0.000	1.74	5.320	3.99	198.1	0.0	170.7
135.00		1.00	1.35	28.358	31.19	322.15	0.750	0.000	3.26	9.942	7.46	372.2	0.0	598.3
136.99	Top - Section 3	1.00	1.35	28.445	31.29	319.08	0.750	0.000	1.99	5.999	4.50	225.2	0.0	360.9
137.00	Appurtenance(s)	1.00	1.35	28.446	31.29	323.66	0.750	0.000	0.01	0.020	0.01	0.7	0.0	0.6
140.00		1.00	1.36	28.576	31.43	319.01	0.750	0.000	3.00	8.904	6.68	335.8	0.0	254.1
145.00		1.00	1.37	28.788	31.67	311.18	0.750	0.000	5.00	14.508	10.88	551.3	0.0	414.0
147.00	Appurtenance(s)	1.00	1.37	28.871	31.76	308.02	0.750	0.000	2.00	5.687	4.27	216.7	0.0	162.3
150.00		1.00	1.38	28.994	31.89	303.24	0.750	0.000	3.00	8.406	6.30	321.7	0.0	239.8
155.00		1.00	1.39	29.195	32.11	295.22	0.750	0.000	5.00	13.679	10.26	527.2	0.0	390.2
160.00		1.00	1.40	29.390	32.33	287.10	0.750	0.000	5.00	13.265	9.95	514.6	0.0	378.3
165.00		1.00	1.41	29.581	32.54	278.89	0.750	0.000	5.00	12.851	9.64	501.8	0.0	366.3
167.00	Appurtenance(s)	1.00	1.41	29.657	32.62	275.59	0.750	0.000	2.00	5.024	3.77	196.7	0.0	143.2
170.00		1.00	1.42	29.768	32.74	270.60	0.750	0.000	3.00	7.412	5.56	291.3	0.0	211.2
175.00		1.00	1.42	29.950	32.95	262.24	0.750	0.000	5.00	12.022	9.02	475.3	0.0	342.5
177.00	Appurtenance(s)	1.00	1.43	30.022	33.02	258.87	0.750	0.000	2.00	4.693	3.52	186.0	0.0	133.7
180.00		1.00	1.43	30.128	33.14	253.80	0.750	0.000	3.00	6.915	5.19	275.0	0.0	196.9

Wind Loading - Shaft

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 18	

Totals:	**180.00**	**21,540.3**	**32,986.1**

Discrete Appurtenance Forces

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 19	

Tower Engineering Solutions

Load Case: 0.9D + 1.6W 93 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60

Iterations 25

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	177.00	Commscope	3	30.022	33.024	0.55	0.75	20.43	208.98	0.000	0.000	1079.47	0.00	0.00
2	177.00	RFS APXVTM14-C-I20	3	30.022	33.024	0.59	0.75	11.27	151.20	0.000	0.000	595.45	0.00	0.00
3	177.00	Platform w/ Hand Rails	1	30.022	33.024	1.00	1.00	35.00	1800.00	0.000	0.000	1849.35	0.00	0.00
4	177.00	ALU TD-RRH8x20-25	3	30.022	33.024	0.50	0.75	6.11	189.00	0.000	0.000	322.60	0.00	0.00
5	177.00	ALU 800 MHz	6	30.022	33.024	0.50	0.75	7.51	286.20	0.000	0.000	396.68	0.00	0.00
6	177.00	ALU 1900 MHz	3	30.022	33.024	0.50	0.75	5.73	162.00	0.000	0.000	302.68	0.00	0.00
7	177.00	Sitepro PRK-1245L	1	30.022	33.024	1.00	1.00	9.50	418.42	0.000	0.000	501.97	0.00	0.00
8	167.00	Sitepro RMQP-4096-HK	1	29.657	32.622	1.00	1.00	46.00	2052.00	0.000	0.000	2400.99	0.00	0.00
9	167.00	RFS	3	29.657	32.622	0.52	0.75	31.88	345.60	0.000	0.000	1663.89	0.00	0.00
10	167.00	Ericsson Radio 4449	3	29.657	32.622	0.50	0.75	2.49	199.80	0.000	0.000	129.83	0.00	0.00
11	167.00	RFS	3	29.657	32.622	0.55	0.75	8.61	87.75	0.000	0.000	449.30	0.00	0.00
12	147.00	Commscope	1	28.871	31.758	0.80	0.80	1.78	14.40	0.000	0.000	90.24	0.00	0.00
13	147.00	Samsung CBRS RRH -	3	28.871	31.758	0.54	0.80	1.59	50.22	0.000	0.000	80.89	0.00	0.00
14	147.00	Samsung B5/B13	3	28.871	31.758	0.54	0.80	3.01	189.81	0.000	0.000	152.79	0.00	0.00
15	147.00	Samsung B2/B66A	3	28.871	31.758	0.54	0.80	3.01	227.88	0.000	0.000	152.79	0.00	0.00
16	147.00	Samsung MT6407-77A	3	28.871	31.758	0.56	0.80	7.88	214.38	0.000	0.000	400.36	0.00	0.00
17	147.00	Commscope	3	28.871	31.758	0.66	0.80	16.10	117.99	0.000	0.000	817.84	0.00	0.00
18	147.00	Andrew LNX-6514DS-A1M	3	28.871	31.758	0.66	0.80	16.27	104.76	0.000	0.000	826.95	0.00	0.00
19	147.00	Commscope	3	28.871	31.758	0.66	0.80	16.10	117.99	0.000	0.000	817.84	0.00	0.00
20	147.00	Low Profile Platform	1	28.871	31.758	1.00	1.00	22.00	1350.00	0.000	0.000	1117.87	0.00	0.00
21	137.00	T-Arms	3	28.446	31.290	0.56	0.75	13.50	945.00	0.000	0.000	675.87	0.00	0.00
22	137.00	7770	6	28.446	31.290	0.58	0.80	19.31	189.00	0.000	0.000	966.59	0.00	0.00
23	137.00	OPA65R-KE6D	1	28.446	31.290	0.80	0.80	10.30	54.18	0.000	0.000	515.46	0.00	0.00
24	137.00	OPA65R-BU8DA	2	28.446	31.290	0.69	0.80	24.89	137.70	0.000	0.000	1246.19	0.00	0.00
25	137.00	DMP65R-BU6DA	1	28.446	31.290	0.80	0.80	10.17	71.46	0.000	0.000	509.05	0.00	0.00
26	137.00	DMP65R-BU8DA	2	28.446	31.290	0.69	0.80	24.59	172.26	0.000	0.000	1231.04	0.00	0.00
27	137.00	Powerwave LGP21401	6	28.446	31.290	0.80	0.80	6.19	76.14	0.000	0.000	310.00	0.00	0.00
28	137.00	2Powerwave 1903	6	28.446	31.290	0.67	0.80	1.09	29.70	0.000	0.000	54.50	0.00	0.00
29	137.00	4449 B5/B12	3	28.446	31.290	0.54	0.80	3.17	191.70	0.000	0.000	158.59	0.00	0.00
30	137.00	RRUS 8843 B2 B66A	3	28.446	31.290	0.54	0.80	2.64	194.40	0.000	0.000	132.03	0.00	0.00
31	137.00	Raycap DC6-48-60-18-8F	1	28.446	31.290	0.80	0.80	0.74	28.62	0.000	0.000	36.85	0.00	0.00
32	137.00	Raycap	1	28.446	31.290	0.80	0.80	3.82	14.40	0.000	0.000	191.45	0.00	0.00
33	137.00	Andrew ABT-DF-DMADBH	3	28.446	31.290	0.78	0.80	0.12	2.97	0.000	0.000	5.89	0.00	0.00
34	137.00	(3) T-Arm Kit	1	28.446	31.290	1.00	1.00	16.50	450.00	0.000	0.000	826.06	0.00	0.00
35	50.00	Stand Off	1	23.007	25.308	1.00	1.00	2.63	36.00	0.000	0.000	106.49	0.00	0.00
36	50.00	GPS	1	23.007	25.308	1.00	1.00	1.00	9.00	0.000	0.000	40.49	0.00	0.00
							Totals:		**10,890.91**			**21,156.34**		

Total Applied Force Summary

Structure:	CT01722-S-SBA		**Code:**	EIA/TIA-222-G	7/13/2021
Site Name:	South Canton		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 20

Load Case: 0.9D + 1.6W 93 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60

Iterations 25

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		596.69	1583.65	0.00	0.00
10.00		586.91	1559.84	0.00	0.00
15.00		577.13	1536.02	0.00	0.00
20.00		601.99	1512.21	0.00	0.00
25.00		620.07	1488.39	0.00	0.00
30.00		633.04	1464.58	0.00	0.00
35.00		642.25	1440.77	0.00	0.00
40.00		648.56	1416.95	0.00	0.00
45.00		652.54	1393.14	0.00	0.00
45.42		53.93	115.02	0.00	0.00
50.00	(2) attachments	756.91	2302.16	0.00	0.00
52.75		364.97	1335.88	0.00	0.00
55.00		298.36	544.47	0.00	0.00
60.00		665.81	1194.81	0.00	0.00
65.00		663.83	1173.95	0.00	0.00
70.00		660.76	1153.09	0.00	0.00
75.00		656.73	1132.23	0.00	0.00
80.00		651.83	1111.36	0.00	0.00
85.00		646.13	1090.50	0.00	0.00
90.00		639.72	1069.64	0.00	0.00
91.66		210.47	351.21	0.00	0.00
95.00		426.13	1091.40	0.00	0.00
98.00		379.72	967.18	0.00	0.00
100.00		252.02	287.12	0.00	0.00
105.00		625.18	707.23	0.00	0.00
110.00		616.49	693.83	0.00	0.00
115.00		607.29	680.44	0.00	0.00
120.00		597.63	667.04	0.00	0.00
125.00		587.53	653.65	0.00	0.00
130.00		577.02	640.25	0.00	0.00
131.74		198.13	220.08	0.00	0.00
135.00		372.15	690.57	0.00	0.00
136.99		225.23	417.38	0.00	0.00
137.00	(39) attachments	6860.32	2558.29	0.00	0.00
140.00		335.84	328.39	0.00	0.00
145.00		551.29	502.16	0.00	0.00
147.00	(23) attachments	4674.32	2581.16	0.00	0.00
150.00		321.73	269.93	0.00	0.00
155.00		527.16	440.36	0.00	0.00
160.00		514.63	428.46	0.00	0.00
165.00		501.80	416.55	0.00	0.00
167.00	(10) attachments	4840.70	2848.44	0.00	0.00
170.00		291.26	221.54	0.00	0.00
175.00		475.30	359.71	0.00	0.00
177.00	(20) attachments	5234.17	3356.35	0.00	0.00
180.00		275.01	196.95	0.00	0.00

Total Applied Force Summary

Structure:	CT01722-S-SBA		**Code:**	EIA/TIA-222-G	7/13/2021
Site Name:	South Canton		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 21

Totals:	**42,696.67**	**48,194.30**	**0.00**	**0.00**

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 22	

Load Case: 0.9D + 1.6W 93 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60

Iterations 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.011	0.000	17.879	0.00	0.72
10.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.011	0.000	17.879	0.00	0.72
15.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.011	0.000	17.879	0.00	0.72
20.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.011	0.000	18.971	0.00	0.72
25.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.011	0.000	19.883	0.00	0.72
30.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	20.661	0.00	0.72
35.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	21.343	0.00	0.72
40.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	21.951	0.00	0.72
45.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	22.502	0.00	0.72
45.42	1/2" Coax	Yes	0.42	0.000	0.65	0.02	0.00	0.012	0.000	22.546	0.00	0.06
50.00	1/2" Coax	Yes	4.58	0.000	0.65	0.25	0.00	0.013	0.000	23.007	0.00	0.66
										Totals:	**0.0**	**7.2**

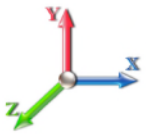
Calculated Forces

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 23	

Load Case: 0.9D + 1.6W 93 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 25

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-48.13	-42.77	0.00	-5348.4	0.00	5348.46	6607.78	3303.89	16218.3	8051.48	0.00	0.000	0.000	0.672
5.00	-46.41	-42.32	0.00	-5134.6	0.00	5134.61	6536.37	3268.19	15777.9	7832.86	0.09	-0.176	0.000	0.663
10.00	-44.73	-41.86	0.00	-4923.0	0.00	4923.03	6463.73	3231.87	15340.5	7615.67	0.37	-0.353	0.000	0.654
15.00	-43.07	-41.41	0.00	-4713.7	0.00	4713.74	6389.86	3194.93	14906.0	7399.99	0.84	-0.531	0.000	0.644
20.00	-41.43	-40.92	0.00	-4506.7	0.00	4506.71	6314.77	3157.38	14474.7	7185.88	1.49	-0.711	0.000	0.634
25.00	-39.83	-40.40	0.00	-4302.1	0.00	4302.12	6238.44	3119.22	14046.7	6973.42	2.33	-0.892	0.000	0.623
30.00	-38.24	-39.87	0.00	-4100.1	0.00	4100.10	6160.89	3080.44	13622.3	6762.68	3.37	-1.074	0.000	0.613
35.00	-36.69	-39.31	0.00	-3900.7	0.00	3900.77	6082.10	3041.05	13201.4	6553.75	4.59	-1.257	0.000	0.601
40.00	-35.17	-38.75	0.00	-3704.2	0.00	3704.20	6002.09	3001.05	12784.3	6346.69	6.00	-1.440	0.000	0.590
45.00	-33.73	-38.11	0.00	-3510.4	0.00	3510.48	5920.85	2960.42	12371.1	6141.58	7.61	-1.625	0.000	0.577
45.42	-33.55	-38.11	0.00	-3494.6	0.00	3494.60	5914.02	2957.01	12336.9	6124.58	7.75	-1.640	0.000	0.576
50.00	-31.18	-37.36	0.00	-3319.9	0.00	3319.92	5838.38	2919.19	11962.1	5938.49	9.41	-1.810	0.000	0.565
52.75	-29.80	-37.00	0.00	-3217.1	0.00	3217.18	4942.80	2471.40	10222.2	5074.76	10.49	-1.913	0.000	0.640
55.00	-29.17	-36.76	0.00	-3133.9	0.00	3133.93	4913.65	2456.82	10072.3	5000.32	11.41	-1.998	0.000	0.633
60.00	-27.88	-36.14	0.00	-2950.1	0.00	2950.15	4847.98	2423.99	9741.07	4835.88	13.61	-2.197	0.000	0.616
65.00	-26.61	-35.53	0.00	-2769.4	0.00	2769.43	4781.08	2390.54	9412.76	4672.89	16.02	-2.397	0.000	0.598
70.00	-25.37	-34.90	0.00	-2591.8	0.00	2591.80	4712.96	2356.48	9087.49	4511.41	18.63	-2.595	0.000	0.580
75.00	-24.15	-34.28	0.00	-2417.2	0.00	2417.28	4643.60	2321.80	8765.44	4351.53	21.45	-2.792	0.000	0.561
80.00	-22.96	-33.65	0.00	-2245.8	0.00	2245.89	4573.02	2286.51	8446.74	4193.32	24.48	-2.987	0.000	0.541
85.00	-21.79	-33.02	0.00	-2077.6	0.00	2077.65	4501.21	2250.60	8131.55	4036.84	27.71	-3.181	0.000	0.520
90.00	-20.69	-32.36	0.00	-1912.5	0.00	1912.56	4428.17	2214.08	7820.02	3882.19	31.15	-3.371	0.000	0.498
91.66	-20.30	-32.17	0.00	-1858.7	0.00	1858.73	4403.60	2201.80	7717.21	3831.15	32.33	-3.435	0.000	0.490
95.00	-19.17	-31.71	0.00	-1751.4	0.00	1751.40	4350.76	2175.38	7506.87	3726.73	34.78	-3.561	0.000	0.475
98.00	-18.18	-31.30	0.00	-1656.3	0.00	1656.37	2393.56	1196.78	4158.66	2064.53	37.05	-3.673	0.000	0.811
100.00	-17.81	-31.09	0.00	-1593.6	0.00	1593.65	2381.84	1190.92	4099.59	2035.21	38.60	-3.747	0.000	0.791
105.00	-17.01	-30.49	0.00	-1438.2	0.00	1438.22	2351.72	1175.86	3952.36	1962.12	42.67	-4.010	0.000	0.741
110.00	-16.24	-29.90	0.00	-1285.7	0.00	1285.76	2320.37	1160.18	3805.57	1889.24	47.00	-4.264	0.000	0.688
115.00	-15.48	-29.31	0.00	-1136.2	0.00	1136.26	2287.79	1143.89	3659.35	1816.65	51.60	-4.507	0.000	0.633
120.00	-14.76	-28.71	0.00	-989.74	0.00	989.74	2253.98	1126.99	3513.86	1744.43	56.44	-4.737	0.000	0.575
125.00	-14.05	-28.12	0.00	-846.18	0.00	846.18	2218.95	1109.47	3369.25	1672.64	61.51	-4.951	0.000	0.513
130.00	-13.41	-27.52	0.00	-705.56	0.00	705.56	2182.68	1091.34	3225.66	1601.35	66.80	-5.146	0.000	0.447
131.74	-13.16	-27.33	0.00	-657.58	0.00	657.58	2169.75	1084.87	3175.87	1576.63	68.69	-5.211	0.000	0.424
135.00	-12.47	-26.91	0.00	-568.59	0.00	568.59	2145.19	1072.59	3083.25	1530.65	72.28	-5.324	0.000	0.378
136.99	-12.06	-26.65	0.00	-514.95	0.00	514.95	1823.96	911.98	2634.70	1307.98	74.51	-5.388	0.000	0.401
137.00	-10.14	-19.59	0.00	-514.78	0.00	514.78	1823.92	911.96	2634.55	1307.90	74.52	-5.388	0.000	0.400
140.00	-9.80	-19.25	0.00	-456.00	0.00	456.00	1806.41	903.20	2565.29	1273.52	77.93	-5.484	0.000	0.364
145.00	-9.33	-18.67	0.00	-359.77	0.00	359.77	1776.24	888.12	2450.41	1216.49	83.75	-5.626	0.000	0.301
147.00	-7.20	-13.77	0.00	-322.44	0.00	322.44	1763.83	881.91	2404.67	1193.78	86.11	-5.678	0.000	0.274
150.00	-6.95	-13.43	0.00	-281.13	0.00	281.13	1744.84	872.42	2336.33	1159.85	89.70	-5.749	0.000	0.247
155.00	-6.54	-12.87	0.00	-213.98	0.00	213.98	1712.21	856.11	2223.20	1103.69	95.76	-5.851	0.000	0.198
160.00	-6.15	-12.32	0.00	-149.62	0.00	149.62	1678.36	839.18	2111.17	1048.07	101.93	-5.933	0.000	0.147
165.00	-5.78	-11.79	0.00	-88.00	0.00	88.00	1643.27	821.64	2000.39	993.08	108.17	-5.993	0.000	0.092
167.00	-3.45	-6.67	0.00	-64.43	0.00	64.43	1628.90	814.45	1956.47	971.27	110.68	-6.009	0.000	0.069
170.00	-3.26	-6.36	0.00	-44.40	0.00	44.40	1606.96	803.48	1891.02	938.78	114.45	-6.028	0.000	0.049
175.00	-2.95	-5.85	0.00	-12.59	0.00	12.59	1569.42	784.71	1783.19	885.25	120.76	-6.045	0.000	0.016
177.00	-0.17	-0.29	0.00	-0.88	0.00	0.88	1554.06	777.03	1740.53	864.07	123.29	-6.047	0.000	0.001
180.00	0.00	-0.27	0.00	0.00	0.00	0.00	1530.65	765.32	1677.06	832.56	127.09	-6.047	0.000	0.000

Calculated Forces

Structure:	CT01722-S-SBA		**Code:**	EIA/TIA-222-G	7/13/2021
Site Name:	South Canton		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 24

Wind Loading - Shaft

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 25	

Tower Engineering Solutions

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

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 25

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	5.168	5.68	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	5.168	5.68	0.00	1.200	1.656	5.00	26.663	32.00	181.9	635.2	2556.9
10.00		1.00	0.85	5.168	5.68	0.00	1.200	1.775	5.00	26.348	31.62	179.7	671.2	2561.1
15.00		1.00	0.85	5.168	5.68	0.00	1.200	1.848	5.00	25.995	31.19	177.3	688.4	2546.6
20.00		1.00	0.90	5.483	6.03	0.00	1.200	1.902	5.00	25.625	30.75	185.5	697.4	2523.8
25.00		1.00	0.95	5.747	6.32	0.00	1.200	1.945	5.00	25.247	30.30	191.5	701.6	2496.3
30.00		1.00	0.98	5.972	6.57	0.00	1.200	1.981	5.00	24.862	29.83	196.0	702.8	2465.7
35.00		1.00	1.01	6.169	6.79	0.00	1.200	2.012	5.00	24.474	29.37	199.3	701.7	2432.9
40.00		1.00	1.04	6.345	6.98	0.00	1.200	2.039	5.00	24.082	28.90	201.7	698.9	2398.3
45.00		1.00	1.07	6.504	7.15	0.00	1.200	2.063	5.00	23.688	28.43	203.4	694.7	2362.4
45.42	Bot - Section 2	1.00	1.07	6.517	7.17	0.00	1.200	2.065	0.42	1.955	2.35	16.8	57.9	195.4
50.00	Appurtenance(s)	1.00	1.09	6.650	7.32	0.00	1.200	2.085	4.58	21.676	26.01	190.3	642.6	3478.2
52.75	Top - Section 1	1.00	1.11	6.726	7.40	0.00	1.200	2.096	2.75	12.844	15.41	114.0	383.8	2061.1
55.00		1.00	1.12	6.785	7.46	0.00	1.200	2.105	2.25	10.419	12.50	93.3	312.8	953.8
60.00		1.00	1.14	6.910	7.60	0.00	1.200	2.123	5.00	22.868	27.44	208.6	688.3	2092.5
65.00		1.00	1.16	7.028	7.73	0.00	1.200	2.140	5.00	22.468	26.96	208.4	680.8	2057.2
70.00		1.00	1.17	7.138	7.85	0.00	1.200	2.156	5.00	22.067	26.48	207.9	672.8	2021.4
75.00		1.00	1.19	7.243	7.97	0.00	1.200	2.171	5.00	21.665	26.00	207.1	664.3	1985.1
80.00		1.00	1.21	7.342	8.08	0.00	1.200	2.185	5.00	21.262	25.51	206.1	655.3	1948.3
85.00		1.00	1.22	7.436	8.18	0.00	1.200	2.198	5.00	20.859	25.03	204.7	645.9	1911.1
90.00		1.00	1.24	7.526	8.28	0.00	1.200	2.211	5.00	20.456	24.55	203.2	636.2	1873.5
91.66	Bot - Section 3	1.00	1.24	7.555	8.31	0.00	1.200	2.215	1.66	6.714	8.06	67.0	210.5	616.0
95.00		1.00	1.25	7.612	8.37	0.00	1.200	2.223	3.34	13.494	16.19	135.6	423.1	1752.2
98.00	Top - Section 2	1.00	1.26	7.662	8.43	0.00	1.200	2.230	3.00	11.966	14.36	121.0	376.3	1552.7
100.00		1.00	1.27	7.695	8.46	0.00	1.200	2.234	2.00	7.918	9.50	80.4	249.9	557.0
105.00		1.00	1.28	7.774	8.55	0.00	1.200	2.245	5.00	19.480	23.38	199.9	613.0	1367.1
110.00		1.00	1.29	7.851	8.64	0.00	1.200	2.256	5.00	19.075	22.89	197.7	602.1	1338.3
115.00		1.00	1.30	7.925	8.72	0.00	1.200	2.266	5.00	18.669	22.40	195.3	590.9	1309.3
120.00		1.00	1.32	7.996	8.80	0.00	1.200	2.276	5.00	18.263	21.92	192.8	579.5	1280.1
125.00		1.00	1.33	8.065	8.87	0.00	1.200	2.285	5.00	17.856	21.43	190.1	568.0	1250.6
130.00		1.00	1.34	8.132	8.95	0.00	1.200	2.294	5.00	17.450	20.94	187.3	556.2	1221.0
131.74	Bot - Section 4	1.00	1.34	8.155	8.97	0.00	1.200	2.297	1.74	5.988	7.19	64.5	192.5	420.1
135.00		1.00	1.35	8.197	9.02	0.00	1.200	2.303	3.26	11.192	13.43	121.1	359.2	1156.9
136.99	Top - Section 3	1.00	1.35	8.222	9.04	0.00	1.200	2.306	1.99	6.765	8.12	73.4	217.9	699.2
137.00	Appurtenance(s)	1.00	1.35	8.222	9.04	0.00	1.200	2.306	0.01	0.023	0.03	0.2	0.7	1.5
140.00		1.00	1.36	8.260	9.09	0.00	1.200	2.311	3.00	10.059	12.07	109.7	323.6	662.4
145.00		1.00	1.37	8.321	9.15	0.00	1.200	2.319	5.00	16.440	19.73	180.6	527.1	1079.0
147.00	Appurtenance(s)	1.00	1.37	8.345	9.18	0.00	1.200	2.322	2.00	6.461	7.75	71.2	208.8	425.2
150.00		1.00	1.38	8.381	9.22	0.00	1.200	2.327	3.00	9.570	11.48	105.9	308.8	628.5
155.00		1.00	1.39	8.439	9.28	0.00	1.200	2.335	5.00	15.625	18.75	174.0	502.0	1022.2
160.00		1.00	1.40	8.495	9.34	0.00	1.200	2.342	5.00	15.217	18.26	170.6	489.3	993.6
165.00		1.00	1.41	8.551	9.41	0.00	1.200	2.349	5.00	14.809	17.77	167.1	476.4	964.9
167.00	Appurtenance(s)	1.00	1.41	8.572	9.43	0.00	1.200	2.352	2.00	5.808	6.97	65.7	188.5	379.4
170.00		1.00	1.42	8.604	9.46	0.00	1.200	2.356	3.00	8.590	10.31	97.6	278.0	559.7
175.00		1.00	1.42	8.657	9.52	0.00	1.200	2.363	5.00	13.992	16.79	159.9	450.3	907.0
177.00	Appurtenance(s)	1.00	1.43	8.678	9.55	0.00	1.200	2.366	2.00	5.482	6.58	62.8	178.0	356.2
180.00		1.00	1.43	8.709	9.58	0.00	1.200	2.370	3.00	8.100	9.72	93.1	262.2	524.8

Wind Loading - Shaft

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 26	

Totals:	**180.00**	**6,861.3**	**65,946.7**

Discrete Appurtenance Forces

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 27	

Tower Engineering Solutions

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

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 25

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	177.00	Commscope	3	8.678	9.546	0.55	0.75	23.72	1242.54	0.000	0.000	226.39	0.00	0.00
2	177.00	RFS APXVTM14-C-I20	3	8.678	9.546	0.59	0.75	14.01	901.58	0.000	0.000	133.76	0.00	0.00
3	177.00	Platform w/ Hand Rails	1	8.678	9.546	1.00	1.00	59.84	4638.95	0.000	0.000	571.22	0.00	0.00
4	177.00	ALU TD-RRH8x20-25	3	8.678	9.546	0.50	0.75	7.81	735.26	0.000	0.000	74.58	0.00	0.00
5	177.00	ALU 800 MHz	6	8.678	9.546	0.50	0.75	12.18	856.56	0.000	0.000	116.28	0.00	0.00
6	177.00	ALU 1900 MHz	3	8.678	9.546	0.50	0.75	8.57	775.78	0.000	0.000	81.80	0.00	0.00
7	177.00	Sitepro PRK-1245L	1	8.678	9.546	1.00	1.00	22.98	902.75	0.000	0.000	219.41	0.00	0.00
8	167.00	Sitepro RMQP-4096-HK	1	8.572	9.429	1.00	1.00	89.28	4994.63	0.000	0.000	841.84	0.00	0.00
9	167.00	RFS	3	8.572	9.429	0.52	0.75	35.96	2277.30	0.000	0.000	339.12	0.00	0.00
10	167.00	Ericsson Radio 4449	3	8.572	9.429	0.50	0.75	3.58	563.64	0.000	0.000	33.75	0.00	0.00
11	167.00	RFS	3	8.572	9.429	0.55	0.75	13.94	517.64	0.000	0.000	131.42	0.00	0.00
12	147.00	Commscope	1	8.345	9.180	0.80	0.80	2.82	80.09	0.000	0.000	25.89	0.00	0.00
13	147.00	Samsung CBRS RRH -	3	8.345	9.180	0.54	0.80	2.49	158.92	0.000	0.000	22.89	0.00	0.00
14	147.00	Samsung B5/B13	3	8.345	9.180	0.54	0.80	4.27	554.05	0.000	0.000	39.22	0.00	0.00
15	147.00	Samsung B2/B66A	3	8.345	9.180	0.54	0.80	4.27	634.53	0.000	0.000	39.22	0.00	0.00
16	147.00	Samsung MT6407-77A	3	8.345	9.180	0.56	0.80	10.03	796.83	0.000	0.000	92.07	0.00	0.00
17	147.00	Commscope	3	8.345	9.180	0.66	0.80	19.60	1013.78	0.000	0.000	179.90	0.00	0.00
18	147.00	Andrew LNX-6514DS-A1M	3	8.345	9.180	0.66	0.80	23.76	691.96	0.000	0.000	218.09	0.00	0.00
19	147.00	Commscope	3	8.345	9.180	0.66	0.80	19.60	1013.78	0.000	0.000	179.90	0.00	0.00
20	147.00	Low Profile Platform	1	8.345	9.180	1.00	1.00	45.50	3241.69	0.000	0.000	417.68	0.00	0.00
21	137.00	T-Arms	3	8.222	9.044	0.56	0.75	29.07	2018.50	0.000	0.000	262.88	0.00	0.00
22	137.00	7770	6	8.222	9.044	0.58	0.80	24.31	1403.18	0.000	0.000	219.85	0.00	0.00
23	137.00	OPA65R-KE6D	1	8.222	9.044	0.80	0.80	11.90	475.31	0.000	0.000	107.62	0.00	0.00
24	137.00	OPA65R-BU8DA	2	8.222	9.044	0.70	0.80	28.59	1237.42	0.000	0.000	258.58	0.00	0.00
25	137.00	DMP65R-BU6DA	1	8.222	9.044	0.80	0.80	11.76	493.16	0.000	0.000	106.40	0.00	0.00
26	137.00	DMP65R-BU8DA	2	8.222	9.044	0.70	0.80	28.27	1270.15	0.000	0.000	255.72	0.00	0.00
27	137.00	Powerwave LGP21401	6	8.222	9.044	0.80	0.80	11.49	257.13	0.000	0.000	103.94	0.00	0.00
28	137.00	2Powerwave 1903	6	8.222	9.044	0.67	0.80	3.21	92.01	0.000	0.000	29.01	0.00	0.00
29	137.00	4449 B5/B12	3	8.222	9.044	0.54	0.80	4.33	426.40	0.000	0.000	39.17	0.00	0.00
30	137.00	RRUS 8843 B2 B66A	3	8.222	9.044	0.54	0.80	3.69	408.89	0.000	0.000	33.40	0.00	0.00
31	137.00	Raycap DC6-48-60-18-8F	1	8.222	9.044	0.80	0.80	1.20	102.15	0.000	0.000	10.84	0.00	0.00
32	137.00	Raycap	1	8.222	9.044	0.80	0.80	4.76	152.89	0.000	0.000	43.04	0.00	0.00
33	137.00	Andrew ABT-DF-DMADBH	3	8.222	9.044	0.78	0.80	0.72	10.70	0.000	0.000	6.48	0.00	0.00
34	137.00	(3) T-Arm Kit	1	8.222	9.044	1.00	1.00	37.81	1234.02	0.000	0.000	341.94	0.00	0.00
35	50.00	Stand Off	1	6.650	7.315	1.00	1.00	9.76	120.90	0.000	0.000	71.40	0.00	0.00
36	50.00	GPS	1	6.650	7.315	1.00	1.00	1.85	39.03	0.000	0.000	13.54	0.00	0.00
							Totals:		**36,334.09**			**5,888.25**		

Total Applied Force Summary

Structure:	CT01722-S-SBA		**Code:**	EIA/TIA-222-G	7/13/2021
Site Name:	South Canton		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 28

Tower Engineering Solutions

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

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 25

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		181.89	2767.85	0.00	0.00
10.00		179.74	2774.85	0.00	0.00
15.00		177.33	2762.12	0.00	0.00
20.00		185.48	2740.74	0.00	0.00
25.00		191.53	2714.36	0.00	0.00
30.00		195.99	2684.69	0.00	0.00
35.00		199.29	2652.67	0.00	0.00
40.00		201.70	2618.85	0.00	0.00
45.00		203.38	2583.64	0.00	0.00
45.42		16.82	213.84	0.00	0.00
50.00	(2) attachments	275.21	3841.44	0.00	0.00
52.75		114.02	2165.00	0.00	0.00
55.00		93.31	1038.74	0.00	0.00
60.00		208.59	2281.36	0.00	0.00
65.00		208.43	2246.11	0.00	0.00
70.00		207.93	2210.27	0.00	0.00
75.00		207.13	2173.93	0.00	0.00
80.00		206.06	2137.13	0.00	0.00
85.00		204.75	2099.93	0.00	0.00
90.00		203.22	2062.35	0.00	0.00
91.66		66.96	678.80	0.00	0.00
95.00		135.60	1878.27	0.00	0.00
98.00		121.02	1665.84	0.00	0.00
100.00		80.42	632.69	0.00	0.00
105.00		199.91	1555.94	0.00	0.00
110.00		197.68	1527.18	0.00	0.00
115.00		195.29	1498.17	0.00	0.00
120.00		192.76	1468.93	0.00	0.00
125.00		190.10	1439.48	0.00	0.00
130.00		187.31	1409.84	0.00	0.00
131.74		64.45	485.92	0.00	0.00
135.00		121.09	1279.95	0.00	0.00
136.99		73.42	774.45	0.00	0.00
137.00	(39) attachments	1819.12	9583.65	0.00	0.00
140.00		109.67	761.47	0.00	0.00
145.00		180.58	1196.61	0.00	0.00
147.00	(23) attachments	1286.05	8652.79	0.00	0.00
150.00		105.87	668.68	0.00	0.00
155.00		174.05	1089.18	0.00	0.00
160.00		170.64	1060.57	0.00	0.00
165.00		167.14	1031.82	0.00	0.00
167.00	(10) attachments	1411.86	8759.41	0.00	0.00
170.00		97.57	573.43	0.00	0.00
175.00		159.89	929.89	0.00	0.00
177.00	(20) attachments	1486.22	10418.81	0.00	0.00
180.00		93.11	524.82	0.00	0.00

Total Applied Force Summary

Structure:	CT01722-S-SBA		**Code:**	EIA/TIA-222-G	7/13/2021
Site Name:	South Canton		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 29

Totals:	**12,749.56**	**108,316.46**	**0.00**	**0.00**

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 30	

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

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	1/2" Coax	Yes	5.00	0.000	0.65	1.65	0.00	0.011	0.000	5.168	0.00	22.08
10.00	1/2" Coax	Yes	5.00	0.000	0.65	1.75	0.00	0.011	0.000	5.168	0.00	24.87
15.00	1/2" Coax	Yes	5.00	0.000	0.65	1.81	0.00	0.011	0.000	5.168	0.00	26.68
20.00	1/2" Coax	Yes	5.00	0.000	0.65	1.86	0.00	0.011	0.000	5.483	0.00	28.05
25.00	1/2" Coax	Yes	5.00	0.000	0.65	1.89	0.00	0.011	0.000	5.747	0.00	29.17
30.00	1/2" Coax	Yes	5.00	0.000	0.65	1.92	0.00	0.012	0.000	5.972	0.00	30.12
35.00	1/2" Coax	Yes	5.00	0.000	0.65	1.95	0.00	0.012	0.000	6.169	0.00	30.95
40.00	1/2" Coax	Yes	5.00	0.000	0.65	1.97	0.00	0.012	0.000	6.345	0.00	31.68
45.00	1/2" Coax	Yes	5.00	0.000	0.65	1.99	0.00	0.012	0.000	6.504	0.00	32.35
45.42	1/2" Coax	Yes	0.42	0.000	0.65	0.17	0.00	0.012	0.000	6.517	0.00	2.70
50.00	1/2" Coax	Yes	4.58	0.000	0.65	1.84	0.00	0.013	0.000	6.650	0.00	30.21
									Totals:		**0.0**	**288.8**

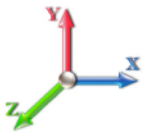
Calculated Forces

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 31	

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

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 25

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-108.3	-12.80	0.00	-1680.9	0.00	1680.90	6607.78	3303.89	16218.3	8051.48	0.00	0.000	0.000	0.225
5.00	-105.5	-12.72	0.00	-1616.8	0.00	1616.89	6536.37	3268.19	15777.9	7832.86	0.03	-0.055	0.000	0.223
10.00	-102.7	-12.64	0.00	-1553.2	0.00	1553.28	6463.73	3231.87	15340.5	7615.67	0.12	-0.111	0.000	0.220
15.00	-99.97	-12.55	0.00	-1490.0	0.00	1490.09	6389.86	3194.93	14906.0	7399.99	0.26	-0.167	0.000	0.217
20.00	-97.22	-12.46	0.00	-1427.3	0.00	1427.32	6314.77	3157.38	14474.7	7185.88	0.47	-0.224	0.000	0.214
25.00	-94.49	-12.35	0.00	-1365.0	0.00	1365.05	6238.44	3119.22	14046.7	6973.42	0.74	-0.282	0.000	0.211
30.00	-91.79	-12.23	0.00	-1303.3	0.00	1303.32	6160.89	3080.44	13622.3	6762.68	1.06	-0.339	0.000	0.208
35.00	-89.13	-12.10	0.00	-1242.1	0.00	1242.17	6082.10	3041.05	13201.4	6553.75	1.45	-0.398	0.000	0.204
40.00	-86.50	-11.97	0.00	-1181.6	0.00	1181.66	6002.09	3001.05	12784.3	6346.69	1.90	-0.456	0.000	0.201
45.00	-83.91	-11.79	0.00	-1121.8	0.00	1121.81	5920.85	2960.42	12371.1	6141.58	2.41	-0.515	0.000	0.197
45.42	-83.69	-11.82	0.00	-1116.8	0.00	1116.89	5914.02	2957.01	12336.9	6124.58	2.45	-0.520	0.000	0.197
50.00	-79.85	-11.57	0.00	-1062.7	0.00	1062.73	5838.38	2919.19	11962.1	5938.49	2.98	-0.574	0.000	0.193
52.75	-77.68	-11.47	0.00	-1030.9	0.00	1030.93	4942.80	2471.40	10222.2	5074.76	3.32	-0.607	0.000	0.219
55.00	-76.63	-11.43	0.00	-1005.1	0.00	1005.12	4913.65	2456.82	10072.3	5000.32	3.61	-0.634	0.000	0.217
60.00	-74.34	-11.27	0.00	-947.99	0.00	947.99	4847.98	2423.99	9741.07	4835.88	4.31	-0.699	0.000	0.211
65.00	-72.08	-11.12	0.00	-891.62	0.00	891.62	4781.08	2390.54	9412.76	4672.89	5.08	-0.763	0.000	0.206
70.00	-69.86	-10.96	0.00	-836.03	0.00	836.03	4712.96	2356.48	9087.49	4511.41	5.91	-0.826	0.000	0.200
75.00	-67.68	-10.79	0.00	-781.24	0.00	781.24	4643.60	2321.80	8765.44	4351.53	6.81	-0.890	0.000	0.194
80.00	-65.54	-10.62	0.00	-727.28	0.00	727.28	4573.02	2286.51	8446.74	4193.32	7.77	-0.953	0.000	0.188
85.00	-63.43	-10.45	0.00	-674.16	0.00	674.16	4501.21	2250.60	8131.55	4036.84	8.81	-1.016	0.000	0.181
90.00	-61.36	-10.26	0.00	-621.90	0.00	621.90	4428.17	2214.08	7820.02	3882.19	9.90	-1.078	0.000	0.174
91.66	-60.68	-10.21	0.00	-604.84	0.00	604.84	4403.60	2201.80	7717.21	3831.15	10.28	-1.099	0.000	0.172
95.00	-58.80	-10.08	0.00	-570.78	0.00	570.78	4350.76	2175.38	7506.87	3726.73	11.07	-1.140	0.000	0.167
98.00	-57.13	-9.95	0.00	-540.59	0.00	540.59	2393.56	1196.78	4158.66	2064.53	11.79	-1.176	0.000	0.286
100.00	-56.49	-9.91	0.00	-520.65	0.00	520.65	2381.84	1190.92	4099.59	2035.21	12.29	-1.200	0.000	0.280
105.00	-54.92	-9.76	0.00	-471.09	0.00	471.09	2351.72	1175.86	3952.36	1962.12	13.60	-1.287	0.000	0.264
110.00	-53.39	-9.60	0.00	-422.29	0.00	422.29	2320.37	1160.18	3805.57	1889.24	14.99	-1.370	0.000	0.247
115.00	-51.88	-9.44	0.00	-374.27	0.00	374.27	2287.79	1143.89	3659.35	1816.65	16.47	-1.450	0.000	0.229
120.00	-50.41	-9.28	0.00	-327.06	0.00	327.06	2253.98	1126.99	3513.86	1744.43	18.03	-1.525	0.000	0.210
125.00	-48.96	-9.10	0.00	-280.68	0.00	280.68	2218.95	1109.47	3369.25	1672.64	19.66	-1.596	0.000	0.190
130.00	-47.55	-8.91	0.00	-235.16	0.00	235.16	2182.68	1091.34	3225.66	1601.35	21.37	-1.661	0.000	0.169
131.74	-47.06	-8.86	0.00	-219.62	0.00	219.62	2169.75	1084.87	3175.87	1576.63	21.98	-1.683	0.000	0.161
135.00	-45.78	-8.72	0.00	-190.77	0.00	190.77	2145.19	1072.59	3083.25	1530.65	23.14	-1.721	0.000	0.146
136.99	-45.01	-8.63	0.00	-173.39	0.00	173.39	1823.96	911.98	2634.70	1307.98	23.87	-1.742	0.000	0.157
137.00	-35.48	-6.54	0.00	-173.33	0.00	173.33	1823.92	911.96	2634.55	1307.90	23.87	-1.742	0.000	0.152
140.00	-34.72	-6.43	0.00	-153.73	0.00	153.73	1806.41	903.20	2565.29	1273.52	24.97	-1.775	0.000	0.140
145.00	-33.53	-6.23	0.00	-121.59	0.00	121.59	1776.24	888.12	2450.41	1216.49	26.86	-1.822	0.000	0.119
147.00	-24.92	-4.67	0.00	-109.14	0.00	109.14	1763.83	881.91	2404.67	1193.78	27.63	-1.840	0.000	0.106
150.00	-24.25	-4.56	0.00	-95.12	0.00	95.12	1744.84	872.42	2336.33	1159.85	28.79	-1.864	0.000	0.096
155.00	-23.17	-4.36	0.00	-72.32	0.00	72.32	1712.21	856.11	2223.20	1103.69	30.76	-1.899	0.000	0.079
160.00	-22.11	-4.17	0.00	-50.51	0.00	50.51	1678.36	839.18	2111.17	1048.07	32.76	-1.926	0.000	0.061
165.00	-21.08	-3.97	0.00	-29.68	0.00	29.68	1643.27	821.64	2000.39	993.08	34.79	-1.946	0.000	0.043
167.00	-12.38	-2.26	0.00	-21.74	0.00	21.74	1628.90	814.45	1956.47	971.27	35.61	-1.952	0.000	0.030
170.00	-11.81	-2.14	0.00	-14.96	0.00	14.96	1606.96	803.48	1891.02	938.78	36.84	-1.958	0.000	0.023
175.00	-10.88	-1.95	0.00	-4.24	0.00	4.24	1569.42	784.71	1783.19	885.25	38.89	-1.964	0.000	0.012
177.00	-0.52	-0.11	0.00	-0.33	0.00	0.33	1554.06	777.03	1740.53	864.07	39.72	-1.965	0.000	0.001
180.00	0.00	-0.09	0.00	0.00	0.00	0.00	1530.65	765.32	1677.06	832.56	40.95	-1.965	0.000	0.000

Calculated Forces

Structure:	CT01722-S-SBA		**Code:**	EIA/TIA-222-G	7/13/2021
Site Name:	South Canton		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 32

Seismic Segment Forces (Factored)

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 33	

Load Case:	1.2D + 1.0E							**Iterations**	23
Gust Response Factor	1.10				**Sds**	0.19		**Ss**	0.18
Dead Load Factor	1.20	**Seismic Load Factor**	1.00		**Sd1**	0.10		**S1**	0.07
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.30		**SA**	0.03	**Seismic Importance Factor**		1.00

Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
5.00		1601.4	0.00	0.03	0.02	28.28	
10.00		1574.9	0.01	0.05	0.03	41.19	
15.00		1548.5	0.01	0.06	0.03	47.54	
20.00		1522.0	0.02	0.07	0.04	50.58	
25.00		1495.5	0.04	0.07	0.04	51.89	
30.00		1469.1	0.05	0.07	0.04	52.39	
35.00		1442.6	0.07	0.07	0.04	52.55	
40.00		1416.2	0.09	0.07	0.04	52.63	
45.00		1389.7	0.12	0.07	0.03	52.69	
45.42	Bot - Section 2	114.62	0.12	0.07	0.03	4.35	
50.00	Appurtenance(s)	2412.9	0.15	0.07	0.03	93.16	
52.75	Top - Section 1	1397.7	0.16	0.07	0.03	54.39	
55.00		534.15	0.18	0.07	0.03	20.87	
60.00		1170.1	0.21	0.06	0.02	45.69	
65.00		1147.0	0.25	0.06	0.02	43.74	
70.00		1123.8	0.29	0.05	0.01	40.29	
75.00		1100.6	0.33	0.04	0.01	34.85	
80.00		1077.4	0.37	0.03	0.01	27.01	
85.00		1054.2	0.42	0.01	0.01	16.72	
90.00		1031.1	0.47	-0.01	0.01	4.54	
91.66	Bot - Section 3	337.88	0.49	-0.01	0.01	0.09	
95.00		1107.6	0.53	-0.03	0.01	-9.10	
98.00	Top - Section 2	980.32	0.56	-0.04	0.01	-15.35	
100.00		255.97	0.58	-0.05	0.01	-5.21	
105.00		628.43	0.64	-0.07	0.02	-19.14	
110.00		613.55	0.71	-0.09	0.03	-22.96	
115.00		598.66	0.77	-0.11	0.05	-24.41	
120.00		583.78	0.84	-0.12	0.07	-23.57	
125.00		568.89	0.91	-0.12	0.09	-20.67	
130.00		554.01	0.99	-0.11	0.12	-15.91	
131.74	Bot - Section 4	189.67	1.01	-0.11	0.14	-4.79	
135.00		664.79	1.06	-0.09	0.17	-11.73	
136.99	Top - Section 3	401.02	1.09	-0.07	0.18	-4.92	
137.00	Appurtenance(s)	2842.3	1.09	-0.07	0.18	-34.85	
140.00		282.33	1.14	-0.04	0.21	-0.89	
145.00		459.97	1.23	0.03	0.27	6.80	
147.00	Appurtenance(s)	2832.9	1.26	0.07	0.30	64.97	
150.00		266.46	1.31	0.14	0.35	9.64	
155.00		433.51	1.40	0.29	0.43	26.48	
160.00		420.28	1.49	0.48	0.53	37.64	
165.00		407.05	1.59	0.74	0.65	49.53	
167.00	Appurtenance(s)	3142.6	1.63	0.86	0.71	425.97	
170.00		234.71	1.69	1.07	0.79	36.96	
175.00		380.59	1.79	1.48	0.95	75.01	
177.00	Appurtenance(s)	3721.6	1.83	1.67	1.03	796.52	

Seismic Segment Forces (Factored)

Structure:	CT01722-S-SBA		**Code:**	EIA/TIA-222-G	7/13/2021
Site Name:	South Canton		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 34

180.00			218.83	1.89	1.98	1.14	52.65	
		Totals:	**48,752.2**				**2,184.1**	**Total Wind:** **42,696.7**

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

Calculated Forces

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 35	

Tower Engineering Solutions

Load Case: 1.2D + 1.0E

Gust Response Factor	1.10			**Sds**	0.19			**Iterations**	23
Dead Load Factor	1.20	**Seismic Load Factor**	1.00	**Sd1**	0.10			**Ss**	0.18
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.30	**SA**	0.03			**S1**	0.07
								Seismic Importance Factor	1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-64.26	-2.40	0.00	-322.19	0.00	322.19	6607.78	3303.89	16218.3	8051.48		0.00	0.00	0.050
5.00	-62.15	-2.39	0.00	-310.17	0.00	310.17	6536.37	3268.19	15777.9	7832.86		0.01	-0.01	0.049
10.00	-60.07	-2.36	0.00	-298.24	0.00	298.24	6463.73	3231.87	15340.5	7615.67		0.02	-0.02	0.048
15.00	-58.02	-2.32	0.00	-286.47	0.00	286.47	6389.86	3194.93	14906.0	7399.99		0.05	-0.03	0.048
20.00	-56.00	-2.28	0.00	-274.88	0.00	274.88	6314.77	3157.38	14474.7	7185.88		0.09	-0.04	0.047
25.00	-54.02	-2.23	0.00	-263.49	0.00	263.49	6238.44	3119.22	14046.7	6973.42		0.14	-0.05	0.046
30.00	-52.06	-2.19	0.00	-252.32	0.00	252.32	6160.89	3080.44	13622.3	6762.68		0.20	-0.07	0.046
35.00	-50.14	-2.14	0.00	-241.37	0.00	241.37	6082.10	3041.05	13201.4	6553.75		0.28	-0.08	0.045
40.00	-48.25	-2.10	0.00	-230.65	0.00	230.65	6002.09	3001.05	12784.3	6346.69		0.36	-0.09	0.044
45.00	-46.39	-2.05	0.00	-220.16	0.00	220.16	5920.85	2960.42	12371.1	6141.58		0.46	-0.10	0.044
45.42	-46.24	-2.05	0.00	-219.30	0.00	219.30	5914.02	2957.01	12336.9	6124.58		0.47	-0.10	0.044
50.00	-43.17	-1.96	0.00	-209.91	0.00	209.91	5838.38	2919.19	11962.1	5938.49		0.57	-0.11	0.043
52.75	-41.39	-1.90	0.00	-204.53	0.00	204.53	4942.80	2471.40	10222.2	5074.76		0.64	-0.12	0.049
55.00	-40.66	-1.89	0.00	-200.25	0.00	200.25	4913.65	2456.82	10072.3	5000.32		0.70	-0.12	0.048
60.00	-39.07	-1.85	0.00	-190.82	0.00	190.82	4847.98	2423.99	9741.07	4835.88		0.83	-0.14	0.048
65.00	-37.51	-1.81	0.00	-181.59	0.00	181.59	4781.08	2390.54	9412.76	4672.89		0.98	-0.15	0.047
70.00	-35.97	-1.77	0.00	-172.56	0.00	172.56	4712.96	2356.48	9087.49	4511.41		1.14	-0.16	0.046
75.00	-34.46	-1.74	0.00	-163.70	0.00	163.70	4643.60	2321.80	8765.44	4351.53		1.32	-0.18	0.045
80.00	-32.98	-1.72	0.00	-155.01	0.00	155.01	4573.02	2286.51	8446.74	4193.32		1.51	-0.19	0.044
85.00	-31.52	-1.70	0.00	-146.43	0.00	146.43	4501.21	2250.60	8131.55	4036.84		1.72	-0.20	0.043
90.00	-30.09	-1.70	0.00	-137.93	0.00	137.93	4428.17	2214.08	7820.02	3882.19		1.94	-0.22	0.042
91.66	-29.63	-1.70	0.00	-135.10	0.00	135.10	4403.60	2201.80	7717.21	3831.15		2.01	-0.22	0.042
95.00	-28.17	-1.70	0.00	-129.44	0.00	129.44	4350.76	2175.38	7506.87	3726.73		2.17	-0.23	0.041
98.00	-26.88	-1.69	0.00	-124.35	0.00	124.35	2393.56	1196.78	4158.66	2064.53		2.32	-0.24	0.071
100.00	-26.50	-1.70	0.00	-120.96	0.00	120.96	2381.84	1190.92	4099.59	2035.21		2.42	-0.24	0.071
105.00	-25.55	-1.70	0.00	-112.46	0.00	112.46	2351.72	1175.86	3952.36	1962.12		2.68	-0.26	0.068
110.00	-24.63	-1.71	0.00	-103.95	0.00	103.95	2320.37	1160.18	3805.57	1889.24		2.97	-0.28	0.066
115.00	-23.72	-1.71	0.00	-95.41	0.00	95.41	2287.79	1143.89	3659.35	1816.65		3.28	-0.30	0.063
120.00	-22.83	-1.71	0.00	-86.85	0.00	86.85	2253.98	1126.99	3513.86	1744.43		3.61	-0.32	0.060
125.00	-21.96	-1.72	0.00	-78.27	0.00	78.27	2218.95	1109.47	3369.25	1672.64		3.96	-0.34	0.057
130.00	-21.10	-1.72	0.00	-69.69	0.00	69.69	2182.68	1091.34	3225.66	1601.35		4.32	-0.36	0.053
131.74	-20.81	-1.72	0.00	-66.70	0.00	66.70	2169.75	1084.87	3175.87	1576.63		4.46	-0.37	0.052
135.00	-19.89	-1.71	0.00	-61.11	0.00	61.11	2145.19	1072.59	3083.25	1530.65		4.71	-0.38	0.049
136.99	-19.33	-1.71	0.00	-57.69	0.00	57.69	1823.96	911.98	2634.70	1307.98		4.87	-0.39	0.055
137.00	-15.92	-1.69	0.00	-57.68	0.00	57.68	1823.92	911.96	2634.55	1307.90		4.87	-0.39	0.053
140.00	-15.48	-1.69	0.00	-52.60	0.00	52.60	1806.41	903.20	2565.29	1273.52		5.12	-0.40	0.050
145.00	-14.81	-1.68	0.00	-44.14	0.00	44.14	1776.24	888.12	2450.41	1216.49		5.55	-0.41	0.045
147.00	-11.37	-1.59	0.00	-40.78	0.00	40.78	1763.83	881.91	2404.67	1193.78		5.72	-0.42	0.041
150.00	-11.01	-1.58	0.00	-35.99	0.00	35.99	1744.84	872.42	2336.33	1159.85		5.99	-0.43	0.037
155.00	-10.43	-1.56	0.00	-28.07	0.00	28.07	1712.21	856.11	2223.20	1103.69		6.45	-0.44	0.032
160.00	-9.85	-1.52	0.00	-20.29	0.00	20.29	1678.36	839.18	2111.17	1048.07		6.92	-0.45	0.025
165.00	-9.30	-1.46	0.00	-12.72	0.00	12.72	1643.27	821.64	2000.39	993.08		7.40	-0.46	0.018
167.00	-5.50	-1.01	0.00	-9.79	0.00	9.79	1628.90	814.45	1956.47	971.27		7.59	-0.46	0.013
170.00	-5.21	-0.97	0.00	-6.77	0.00	6.77	1606.96	803.48	1891.02	938.78		7.88	-0.47	0.010
175.00	-4.73	-0.89	0.00	-1.94	0.00	1.94	1569.42	784.71	1783.19	885.25		8.38	-0.47	0.005
177.00	-0.26	-0.05	0.00	-0.16	0.00	0.16	1554.06	777.03	1740.53	864.07		8.57	-0.47	0.000
180.00	0.00	-0.05	0.00	0.00	0.00	0.00	1530.65	765.32	1677.06	832.56		8.87	-0.47	0.000

Calculated Forces

Structure:	CT01722-S-SBA		**Code:**	EIA/TIA-222-G	7/13/2021
Site Name:	South Canton		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 36

Seismic Segment Forces (Factored)

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 37	

Load Case:	0.9D + 1.0E							**Iterations**	23
Gust Response Factor	1.10				**Sds**	0.19		**Ss**	0.18
Dead Load Factor	0.90	**Seismic Load Factor**	1.00		**Sd1**	0.10		**S1**	0.07
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.30		**SA**	0.03	**Seismic Importance Factor**		1.00

Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
5.00		1601.4	0.00	0.03	0.02	28.28	
10.00		1574.9	0.01	0.05	0.03	41.19	
15.00		1548.5	0.01	0.06	0.03	47.54	
20.00		1522.0	0.02	0.07	0.04	50.58	
25.00		1495.5	0.04	0.07	0.04	51.89	
30.00		1469.1	0.05	0.07	0.04	52.39	
35.00		1442.6	0.07	0.07	0.04	52.55	
40.00		1416.2	0.09	0.07	0.04	52.63	
45.00		1389.7	0.12	0.07	0.03	52.69	
45.42	Bot - Section 2	114.62	0.12	0.07	0.03	4.35	
50.00	Appurtenance(s)	2412.9	0.15	0.07	0.03	93.16	
52.75	Top - Section 1	1397.7	0.16	0.07	0.03	54.39	
55.00		534.15	0.18	0.07	0.03	20.87	
60.00		1170.1	0.21	0.06	0.02	45.69	
65.00		1147.0	0.25	0.06	0.02	43.74	
70.00		1123.8	0.29	0.05	0.01	40.29	
75.00		1100.6	0.33	0.04	0.01	34.85	
80.00		1077.4	0.37	0.03	0.01	27.01	
85.00		1054.2	0.42	0.01	0.01	16.72	
90.00		1031.1	0.47	-0.01	0.01	4.54	
91.66	Bot - Section 3	337.88	0.49	-0.01	0.01	0.09	
95.00		1107.6	0.53	-0.03	0.01	-9.10	
98.00	Top - Section 2	980.32	0.56	-0.04	0.01	-15.35	
100.00		255.97	0.58	-0.05	0.01	-5.21	
105.00		628.43	0.64	-0.07	0.02	-19.14	
110.00		613.55	0.71	-0.09	0.03	-22.96	
115.00		598.66	0.77	-0.11	0.05	-24.41	
120.00		583.78	0.84	-0.12	0.07	-23.57	
125.00		568.89	0.91	-0.12	0.09	-20.67	
130.00		554.01	0.99	-0.11	0.12	-15.91	
131.74	Bot - Section 4	189.67	1.01	-0.11	0.14	-4.79	
135.00		664.79	1.06	-0.09	0.17	-11.73	
136.99	Top - Section 3	401.02	1.09	-0.07	0.18	-4.92	
137.00	Appurtenance(s)	2842.3	1.09	-0.07	0.18	-34.85	
140.00		282.33	1.14	-0.04	0.21	-0.89	
145.00		459.97	1.23	0.03	0.27	6.80	
147.00	Appurtenance(s)	2832.9	1.26	0.07	0.30	64.97	
150.00		266.46	1.31	0.14	0.35	9.64	
155.00		433.51	1.40	0.29	0.43	26.48	
160.00		420.28	1.49	0.48	0.53	37.64	
165.00		407.05	1.59	0.74	0.65	49.53	
167.00	Appurtenance(s)	3142.6	1.63	0.86	0.71	425.97	
170.00		234.71	1.69	1.07	0.79	36.96	
175.00		380.59	1.79	1.48	0.95	75.01	
177.00	Appurtenance(s)	3721.6	1.83	1.67	1.03	796.52	

Seismic Segment Forces (Factored)

Structure:	CT01722-S-SBA		**Code:**	EIA/TIA-222-G	7/13/2021
Site Name:	South Canton		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 38

180.00		218.83	1.89	1.98	1.14	52.65		
	Totals:	**48,752.2**				**2,184.1**	**Total Wind:**	**42,696.7**

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

Calculated Forces

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 39	

Tower Engineering Solutions

Load Case: 0.9D + 1.0E

Iterations 23

Gust Response Factor	1.10			**Sds**	0.19			**Ss**	0.18
Dead Load Factor	0.90	**Seismic Load Factor**	1.00	**Sd1**	0.10			**S1**	0.07
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.30	**SA**	0.03	**Seismic Importance Factor**			1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-48.19	-2.40	0.00	-318.10	0.00	318.10	6607.78	3303.89	16218.3	8051.48		0.00	0.00	0.047
5.00	-46.61	-2.38	0.00	-306.10	0.00	306.10	6536.37	3268.19	15777.9	7832.86		0.01	-0.01	0.046
10.00	-45.05	-2.35	0.00	-294.19	0.00	294.19	6463.73	3231.87	15340.5	7615.67		0.02	-0.02	0.046
15.00	-43.51	-2.31	0.00	-282.45	0.00	282.45	6389.86	3194.93	14906.0	7399.99		0.05	-0.03	0.045
20.00	-42.00	-2.26	0.00	-270.91	0.00	270.91	6314.77	3157.38	14474.7	7185.88		0.09	-0.04	0.044
25.00	-40.51	-2.22	0.00	-259.58	0.00	259.58	6238.44	3119.22	14046.7	6973.42		0.14	-0.05	0.044
30.00	-39.05	-2.17	0.00	-248.49	0.00	248.49	6160.89	3080.44	13622.3	6762.68		0.20	-0.06	0.043
35.00	-37.61	-2.13	0.00	-237.62	0.00	237.62	6082.10	3041.05	13201.4	6553.75		0.27	-0.08	0.042
40.00	-36.19	-2.08	0.00	-226.99	0.00	226.99	6002.09	3001.05	12784.3	6346.69		0.36	-0.09	0.042
45.00	-34.80	-2.03	0.00	-216.60	0.00	216.60	5920.85	2960.42	12371.1	6141.58		0.46	-0.10	0.041
45.42	-34.68	-2.03	0.00	-215.76	0.00	215.76	5914.02	2957.01	12336.9	6124.58		0.47	-0.10	0.041
50.00	-32.38	-1.93	0.00	-206.47	0.00	206.47	5838.38	2919.19	11962.1	5938.49		0.57	-0.11	0.040
52.75	-31.04	-1.88	0.00	-201.15	0.00	201.15	4942.80	2471.40	10222.2	5074.76		0.63	-0.12	0.046
55.00	-30.50	-1.86	0.00	-196.92	0.00	196.92	4913.65	2456.82	10072.3	5000.32		0.69	-0.12	0.046
60.00	-29.30	-1.82	0.00	-187.61	0.00	187.61	4847.98	2423.99	9741.07	4835.88		0.82	-0.13	0.045
65.00	-28.13	-1.78	0.00	-178.51	0.00	178.51	4781.08	2390.54	9412.76	4672.89		0.97	-0.15	0.044
70.00	-26.97	-1.74	0.00	-169.61	0.00	169.61	4712.96	2356.48	9087.49	4511.41		1.13	-0.16	0.043
75.00	-25.84	-1.71	0.00	-160.89	0.00	160.89	4643.60	2321.80	8765.44	4351.53		1.30	-0.17	0.043
80.00	-24.73	-1.69	0.00	-152.34	0.00	152.34	4573.02	2286.51	8446.74	4193.32		1.49	-0.19	0.042
85.00	-23.64	-1.67	0.00	-143.91	0.00	143.91	4501.21	2250.60	8131.55	4036.84		1.69	-0.20	0.041
90.00	-22.57	-1.67	0.00	-135.55	0.00	135.55	4428.17	2214.08	7820.02	3882.19		1.91	-0.21	0.040
91.66	-22.22	-1.67	0.00	-132.78	0.00	132.78	4403.60	2201.80	7717.21	3831.15		1.98	-0.22	0.040
95.00	-21.13	-1.67	0.00	-127.22	0.00	127.22	4350.76	2175.38	7506.87	3726.73		2.14	-0.23	0.039
98.00	-20.16	-1.67	0.00	-122.22	0.00	122.22	2393.56	1196.78	4158.66	2064.53		2.28	-0.23	0.068
100.00	-19.87	-1.67	0.00	-118.89	0.00	118.89	2381.84	1190.92	4099.59	2035.21		2.38	-0.24	0.067
105.00	-19.16	-1.67	0.00	-110.55	0.00	110.55	2351.72	1175.86	3952.36	1962.12		2.64	-0.26	0.064
110.00	-18.47	-1.68	0.00	-102.19	0.00	102.19	2320.37	1160.18	3805.57	1889.24		2.92	-0.28	0.062
115.00	-17.79	-1.68	0.00	-93.81	0.00	93.81	2287.79	1143.89	3659.35	1816.65		3.23	-0.30	0.059
120.00	-17.12	-1.68	0.00	-85.42	0.00	85.42	2253.98	1126.99	3513.86	1744.43		3.55	-0.32	0.057
125.00	-16.47	-1.68	0.00	-77.03	0.00	77.03	2218.95	1109.47	3369.25	1672.64		3.89	-0.34	0.053
130.00	-15.83	-1.68	0.00	-68.62	0.00	68.62	2182.68	1091.34	3225.66	1601.35		4.26	-0.36	0.050
131.74	-15.61	-1.68	0.00	-65.69	0.00	65.69	2169.75	1084.87	3175.87	1576.63		4.39	-0.36	0.049
135.00	-14.91	-1.68	0.00	-60.21	0.00	60.21	2145.19	1072.59	3083.25	1530.65		4.64	-0.37	0.046
136.99	-14.50	-1.68	0.00	-56.86	0.00	56.86	1823.96	911.98	2634.70	1307.98		4.80	-0.38	0.051
137.00	-11.94	-1.66	0.00	-56.85	0.00	56.85	1823.92	911.96	2634.55	1307.90		4.80	-0.38	0.050
140.00	-11.61	-1.66	0.00	-51.86	0.00	51.86	1806.41	903.20	2565.29	1273.52		5.04	-0.39	0.047
145.00	-11.11	-1.65	0.00	-43.55	0.00	43.55	1776.24	888.12	2450.41	1216.49		5.46	-0.41	0.042
147.00	-8.53	-1.57	0.00	-40.24	0.00	40.24	1763.83	881.91	2404.67	1193.78		5.63	-0.41	0.039
150.00	-8.26	-1.56	0.00	-35.52	0.00	35.52	1744.84	872.42	2336.33	1159.85		5.89	-0.42	0.035
155.00	-7.82	-1.53	0.00	-27.71	0.00	27.71	1712.21	856.11	2223.20	1103.69		6.34	-0.44	0.030
160.00	-7.39	-1.49	0.00	-20.04	0.00	20.04	1678.36	839.18	2111.17	1048.07		6.81	-0.45	0.024
165.00	-6.97	-1.44	0.00	-12.56	0.00	12.56	1643.27	821.64	2000.39	993.08		7.28	-0.46	0.017
167.00	-4.13	-0.99	0.00	-9.68	0.00	9.68	1628.90	814.45	1956.47	971.27		7.47	-0.46	0.012
170.00	-3.91	-0.96	0.00	-6.70	0.00	6.70	1606.96	803.48	1891.02	938.78		7.76	-0.46	0.010
175.00	-3.55	-0.88	0.00	-1.92	0.00	1.92	1569.42	784.71	1783.19	885.25		8.24	-0.46	0.004
177.00	-0.20	-0.05	0.00	-0.16	0.00	0.16	1554.06	777.03	1740.53	864.07		8.44	-0.46	0.000
180.00	0.00	-0.05	0.00	0.00	0.00	0.00	1530.65	765.32	1677.06	832.56		8.73	-0.46	0.000

Calculated Forces

Structure:	CT01722-S-SBA		**Code:**	EIA/TIA-222-G	7/13/2021
Site Name:	South Canton		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 40

Wind Loading - Shaft

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 41	

Tower Engineering Solutions

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 24

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	7.442	8.19	282.00	0.750	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	7.442	8.19	277.42	0.750	0.000	5.00	25.283	18.96	155.2	0.0	1601.4
10.00		1.00	0.85	7.442	8.19	272.84	0.750	0.000	5.00	24.868	18.65	152.7	0.0	1575.0
15.00		1.00	0.85	7.442	8.19	268.26	0.750	0.000	5.00	24.454	18.34	150.1	0.0	1548.5
20.00		1.00	0.90	7.896	8.69	271.60	0.750	0.000	5.00	24.040	18.03	156.6	0.0	1522.1
25.00		1.00	0.95	8.276	9.10	273.22	0.750	0.000	5.00	23.626	17.72	161.3	0.0	1495.6
30.00		1.00	0.98	8.600	9.46	273.59	0.750	0.000	5.00	23.212	17.41	164.7	0.0	1469.1
35.00		1.00	1.01	8.883	9.77	273.06	0.750	0.000	5.00	22.797	17.10	167.1	0.0	1442.7
40.00		1.00	1.04	9.137	10.05	271.85	0.750	0.000	5.00	22.383	16.79	168.7	0.0	1416.2
45.00		1.00	1.07	9.366	10.30	270.10	0.750	0.000	5.00	21.969	16.48	169.8	0.0	1389.8
45.42	Bot - Section 2	1.00	1.07	9.384	10.32	269.93	0.750	0.000	0.42	1.812	1.36	14.0	0.0	114.6
50.00	Appurtenance(s)	1.00	1.09	9.576	10.53	267.91	0.750	0.000	4.58	20.084	15.06	158.7	0.0	2363.0
52.75	Top - Section 1	1.00	1.11	9.685	10.65	266.55	0.750	0.000	2.75	11.883	8.91	94.9	0.0	1397.8
55.00		1.00	1.12	9.770	10.75	270.08	0.750	0.000	2.25	9.629	7.22	77.6	0.0	534.1
60.00		1.00	1.14	9.951	10.95	267.27	0.750	0.000	5.00	21.098	15.82	173.2	0.0	1170.2
65.00		1.00	1.16	10.120	11.13	264.18	0.750	0.000	5.00	20.684	15.51	172.7	0.0	1147.0
70.00		1.00	1.17	10.279	11.31	260.87	0.750	0.000	5.00	20.270	15.20	171.9	0.0	1123.8
75.00		1.00	1.19	10.430	11.47	257.34	0.750	0.000	5.00	19.856	14.89	170.8	0.0	1100.6
80.00		1.00	1.21	10.572	11.63	253.63	0.750	0.000	5.00	19.441	14.58	169.6	0.0	1077.5
85.00		1.00	1.22	10.708	11.78	249.76	0.750	0.000	5.00	19.027	14.27	168.1	0.0	1054.3
90.00		1.00	1.24	10.838	11.92	245.74	0.750	0.000	5.00	18.613	13.96	166.4	0.0	1031.1
91.66	Bot - Section 3	1.00	1.24	10.880	11.97	244.37	0.750	0.000	1.66	6.100	4.58	54.8	0.0	337.9
95.00		1.00	1.25	10.962	12.06	241.58	0.750	0.000	3.34	12.258	9.19	110.9	0.0	1107.6
98.00	Top - Section 2	1.00	1.26	11.034	12.14	239.03	0.750	0.000	3.00	10.852	8.14	98.8	0.0	980.3
100.00		1.00	1.27	11.081	12.19	240.52	0.750	0.000	2.00	7.172	5.38	65.6	0.0	256.0
105.00		1.00	1.28	11.195	12.31	236.14	0.750	0.000	5.00	17.609	13.21	162.6	0.0	628.4
110.00		1.00	1.29	11.305	12.44	231.65	0.750	0.000	5.00	17.195	12.90	160.4	0.0	613.5
115.00		1.00	1.30	11.412	12.55	227.06	0.750	0.000	5.00	16.781	12.59	158.0	0.0	598.7
120.00		1.00	1.32	11.514	12.67	222.38	0.750	0.000	5.00	16.367	12.27	155.5	0.0	583.8
125.00		1.00	1.33	11.614	12.78	217.61	0.750	0.000	5.00	15.952	11.96	152.8	0.0	568.9
130.00		1.00	1.34	11.710	12.88	212.76	0.750	0.000	5.00	15.538	11.65	150.1	0.0	554.0
131.74	Bot - Section 4	1.00	1.34	11.743	12.92	211.05	0.750	0.000	1.74	5.320	3.99	51.5	0.0	189.7
135.00		1.00	1.35	11.803	12.98	207.84	0.750	0.000	3.26	9.942	7.46	96.8	0.0	664.8
136.99	Top - Section 3	1.00	1.35	11.840	13.02	205.86	0.750	0.000	1.99	5.999	4.50	58.6	0.0	401.0
137.00	Appurtenance(s)	1.00	1.35	11.840	13.02	208.81	0.750	0.000	0.01	0.020	0.01	0.2	0.0	0.6
140.00		1.00	1.36	11.894	13.08	205.81	0.750	0.000	3.00	8.904	6.68	87.4	0.0	282.3
145.00		1.00	1.37	11.982	13.18	200.76	0.750	0.000	5.00	14.508	10.88	143.4	0.0	460.0
147.00	Appurtenance(s)	1.00	1.37	12.017	13.22	198.72	0.750	0.000	2.00	5.687	4.27	56.4	0.0	180.3
150.00		1.00	1.38	12.068	13.27	195.64	0.750	0.000	3.00	8.406	6.30	83.7	0.0	266.5
155.00		1.00	1.39	12.152	13.37	190.46	0.750	0.000	5.00	13.679	10.26	137.1	0.0	433.5
160.00		1.00	1.40	12.233	13.46	185.22	0.750	0.000	5.00	13.265	9.95	133.9	0.0	420.3
165.00		1.00	1.41	12.313	13.54	179.93	0.750	0.000	5.00	12.851	9.64	130.5	0.0	407.1
167.00	Appurtenance(s)	1.00	1.41	12.344	13.58	177.80	0.750	0.000	2.00	5.024	3.77	51.2	0.0	159.1
170.00		1.00	1.42	12.390	13.63	174.58	0.750	0.000	3.00	7.412	5.56	75.8	0.0	234.7
175.00		1.00	1.42	12.466	13.71	169.19	0.750	0.000	5.00	12.022	9.02	123.6	0.0	380.6
177.00	Appurtenance(s)	1.00	1.43	12.496	13.75	167.01	0.750	0.000	2.00	4.693	3.52	48.4	0.0	148.5
180.00		1.00	1.43	12.540	13.79	163.74	0.750	0.000	3.00	6.915	5.19	71.5	0.0	218.8

Wind Loading - Shaft

Structure:	CT01722-S-SBA		**Code:**	EIA/TIA-222-G	7/13/2021
Site Name:	South Canton		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 42

Totals:	**180.00**	**5,603.6**	**36,651.2**

Discrete Appurtenance Forces

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 43	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	177.00	Commscope	3	12.496	13.746	0.55	0.75	20.43	232.20	0.000	0.000	280.82	0.00	0.00
2	177.00	RFS APXVTM14-C-I20	3	12.496	13.746	0.59	0.75	11.27	168.00	0.000	0.000	154.90	0.00	0.00
3	177.00	Platform w/ Hand Rails	1	12.496	13.746	1.00	1.00	35.00	2000.00	0.000	0.000	481.10	0.00	0.00
4	177.00	ALU TD-RRH8x20-25	3	12.496	13.746	0.50	0.75	6.11	210.00	0.000	0.000	83.92	0.00	0.00
5	177.00	ALU 800 MHz	6	12.496	13.746	0.50	0.75	7.51	318.00	0.000	0.000	103.19	0.00	0.00
6	177.00	ALU 1900 MHz	3	12.496	13.746	0.50	0.75	5.73	180.00	0.000	0.000	78.74	0.00	0.00
7	177.00	Sitepro PRK-1245L	1	12.496	13.746	1.00	1.00	9.50	464.91	0.000	0.000	130.58	0.00	0.00
8	167.00	Sitepro RMQP-4096-HK	1	12.344	13.578	1.00	1.00	46.00	2280.00	0.000	0.000	624.61	0.00	0.00
9	167.00	RFS	3	12.344	13.578	0.52	0.75	31.88	384.00	0.000	0.000	432.85	0.00	0.00
10	167.00	Ericsson Radio 4449	3	12.344	13.578	0.50	0.75	2.49	222.00	0.000	0.000	33.77	0.00	0.00
11	167.00	RFS	3	12.344	13.578	0.55	0.75	8.61	97.50	0.000	0.000	116.88	0.00	0.00
12	147.00	Commscope	1	12.017	13.219	0.80	0.80	1.78	16.00	0.000	0.000	23.48	0.00	0.00
13	147.00	Samsung CBRS RRH -	3	12.017	13.219	0.54	0.80	1.59	55.80	0.000	0.000	21.04	0.00	0.00
14	147.00	Samsung B5/B13	3	12.017	13.219	0.54	0.80	3.01	210.90	0.000	0.000	39.75	0.00	0.00
15	147.00	Samsung B2/B66A	3	12.017	13.219	0.54	0.80	3.01	253.20	0.000	0.000	39.75	0.00	0.00
16	147.00	Samsung MT6407-77A	3	12.017	13.219	0.56	0.80	7.88	238.20	0.000	0.000	104.15	0.00	0.00
17	147.00	Commscope	3	12.017	13.219	0.66	0.80	16.10	131.10	0.000	0.000	212.76	0.00	0.00
18	147.00	Andrew LNX-6514DS-A1M	3	12.017	13.219	0.66	0.80	16.27	116.40	0.000	0.000	215.13	0.00	0.00
19	147.00	Commscope	3	12.017	13.219	0.66	0.80	16.10	131.10	0.000	0.000	212.76	0.00	0.00
20	147.00	Low Profile Platform	1	12.017	13.219	1.00	1.00	22.00	1500.00	0.000	0.000	290.81	0.00	0.00
21	137.00	T-Arms	3	11.840	13.024	0.56	0.75	13.50	1050.00	0.000	0.000	175.82	0.00	0.00
22	137.00	7770	6	11.840	13.024	0.58	0.80	19.31	210.00	0.000	0.000	251.46	0.00	0.00
23	137.00	OPA65R-KE6D	1	11.840	13.024	0.80	0.80	10.30	60.20	0.000	0.000	134.10	0.00	0.00
24	137.00	OPA65R-BU8DA	2	11.840	13.024	0.69	0.80	24.89	153.00	0.000	0.000	324.19	0.00	0.00
25	137.00	DMP65R-BU6DA	1	11.840	13.024	0.80	0.80	10.17	79.40	0.000	0.000	132.43	0.00	0.00
26	137.00	DMP65R-BU8DA	2	11.840	13.024	0.69	0.80	24.59	191.40	0.000	0.000	320.25	0.00	0.00
27	137.00	Powerwave LGP21401	6	11.840	13.024	0.80	0.80	6.19	84.60	0.000	0.000	80.64	0.00	0.00
28	137.00	2Powerwave 1903	6	11.840	13.024	0.67	0.80	1.09	33.00	0.000	0.000	14.18	0.00	0.00
29	137.00	4449 B5/B12	3	11.840	13.024	0.54	0.80	3.17	213.00	0.000	0.000	41.26	0.00	0.00
30	137.00	RRUS 8843 B2 B66A	3	11.840	13.024	0.54	0.80	2.64	216.00	0.000	0.000	34.35	0.00	0.00
31	137.00	Raycap DC6-48-60-18-8F	1	11.840	13.024	0.80	0.80	0.74	31.80	0.000	0.000	9.59	0.00	0.00
32	137.00	Raycap	1	11.840	13.024	0.80	0.80	3.82	16.00	0.000	0.000	49.80	0.00	0.00
33	137.00	Andrew ABT-DF-DMADBH	3	11.840	13.024	0.78	0.80	0.12	3.30	0.000	0.000	1.53	0.00	0.00
34	137.00	(3) T-Arm Kit	1	11.840	13.024	1.00	1.00	16.50	500.00	0.000	0.000	214.90	0.00	0.00
35	50.00	Stand Off	1	9.576	10.534	1.00	1.00	2.63	40.00	0.000	0.000	27.70	0.00	0.00
36	50.00	GPS	1	9.576	10.534	1.00	1.00	1.00	10.00	0.000	0.000	10.53	0.00	0.00
							Totals:		**12,101.01**			**5,503.73**		

Total Applied Force Summary

Structure:	CT01722-S-SBA		**Code:**	EIA/TIA-222-G	7/13/2021
Site Name:	South Canton		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 44

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 24

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		155.23	1759.61	0.00	0.00
10.00		152.68	1733.15	0.00	0.00
15.00		150.14	1706.69	0.00	0.00
20.00		156.60	1680.23	0.00	0.00
25.00		161.31	1653.77	0.00	0.00
30.00		164.68	1627.31	0.00	0.00
35.00		167.08	1600.85	0.00	0.00
40.00		168.72	1574.39	0.00	0.00
45.00		169.75	1547.93	0.00	0.00
45.42		14.03	127.80	0.00	0.00
50.00	(2) attachments	196.91	2557.95	0.00	0.00
52.75		94.95	1484.31	0.00	0.00
55.00		77.62	604.97	0.00	0.00
60.00		173.21	1327.56	0.00	0.00
65.00		172.69	1304.39	0.00	0.00
70.00		171.89	1281.21	0.00	0.00
75.00		170.85	1258.03	0.00	0.00
80.00		169.57	1234.85	0.00	0.00
85.00		168.09	1211.67	0.00	0.00
90.00		166.42	1188.49	0.00	0.00
91.66		54.75	390.23	0.00	0.00
95.00		110.86	1212.66	0.00	0.00
98.00		98.78	1074.65	0.00	0.00
100.00		65.56	319.02	0.00	0.00
105.00		162.64	785.81	0.00	0.00
110.00		160.38	770.93	0.00	0.00
115.00		157.98	756.04	0.00	0.00
120.00		155.47	741.16	0.00	0.00
125.00		152.84	726.27	0.00	0.00
130.00		150.11	711.39	0.00	0.00
131.74		51.54	244.54	0.00	0.00
135.00		96.81	767.30	0.00	0.00
136.99		58.59	463.76	0.00	0.00
137.00	(39) attachments	1784.68	2842.54	0.00	0.00
140.00		87.37	364.88	0.00	0.00
145.00		143.42	557.95	0.00	0.00
147.00	(23) attachments	1216.00	2867.96	0.00	0.00
150.00		83.70	299.93	0.00	0.00
155.00		137.14	489.29	0.00	0.00
160.00		133.88	476.06	0.00	0.00
165.00		130.54	462.83	0.00	0.00
167.00	(10) attachments	1259.29	3164.93	0.00	0.00
170.00		75.77	246.15	0.00	0.00
175.00		123.65	399.67	0.00	0.00
177.00	(20) attachments	1361.65	3729.27	0.00	0.00
180.00		71.54	218.83	0.00	0.00

Total Applied Force Summary

Structure:	CT01722-S-SBA		**Code:**	EIA/TIA-222-G	7/13/2021
Site Name:	South Canton		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 45

Totals:	**11,107.35**	**53,549.23**	**0.00**	**0.00**

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 46	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.011	0.000	7.442	0.00	0.80
10.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.011	0.000	7.442	0.00	0.80
15.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.011	0.000	7.442	0.00	0.80
20.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.011	0.000	7.896	0.00	0.80
25.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.011	0.000	8.276	0.00	0.80
30.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	8.600	0.00	0.80
35.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	8.883	0.00	0.80
40.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	9.137	0.00	0.80
45.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	9.366	0.00	0.80
45.42	1/2" Coax	Yes	0.42	0.000	0.65	0.02	0.00	0.012	0.000	9.384	0.00	0.07
50.00	1/2" Coax	Yes	4.58	0.000	0.65	0.25	0.00	0.013	0.000	9.576	0.00	0.73
										Totals:	**0.0**	**8.0**

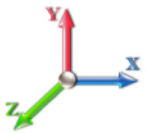
Calculated Forces

Structure:	CT01722-S-SBA	**Code:**	EIA/TIA-222-G	7/13/2021	
Site Name:	South Canton	**Exposure:**	C		
Height:	180.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 47	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 24

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-53.54	-11.13	0.00	-1398.8	0.00	1398.81	6607.78	3303.89	16218.3	8051.48	0.00	0.000	0.000	0.182
5.00	-51.78	-11.01	0.00	-1343.1	0.00	1343.17	6536.37	3268.19	15777.9	7832.86	0.02	-0.046	0.000	0.179
10.00	-50.03	-10.90	0.00	-1288.1	0.00	1288.10	6463.73	3231.87	15340.5	7615.67	0.10	-0.092	0.000	0.177
15.00	-48.32	-10.79	0.00	-1233.6	0.00	1233.60	6389.86	3194.93	14906.0	7399.99	0.22	-0.139	0.000	0.174
20.00	-46.63	-10.66	0.00	-1179.6	0.00	1179.67	6314.77	3157.38	14474.7	7185.88	0.39	-0.186	0.000	0.172
25.00	-44.97	-10.53	0.00	-1126.3	0.00	1126.35	6238.44	3119.22	14046.7	6973.42	0.61	-0.233	0.000	0.169
30.00	-43.33	-10.40	0.00	-1073.6	0.00	1073.69	6160.89	3080.44	13622.3	6762.68	0.88	-0.281	0.000	0.166
35.00	-41.73	-10.26	0.00	-1021.7	0.00	1021.70	6082.10	3041.05	13201.4	6553.75	1.20	-0.329	0.000	0.163
40.00	-40.14	-10.11	0.00	-970.42	0.00	970.42	6002.09	3001.05	12784.3	6346.69	1.57	-0.377	0.000	0.160
45.00	-38.59	-9.95	0.00	-919.86	0.00	919.86	5920.85	2960.42	12371.1	6141.58	1.99	-0.425	0.000	0.156
45.42	-38.46	-9.95	0.00	-915.71	0.00	915.71	5914.02	2957.01	12336.9	6124.58	2.03	-0.429	0.000	0.156
50.00	-35.90	-9.76	0.00	-870.11	0.00	870.11	5838.38	2919.19	11962.1	5938.49	2.46	-0.474	0.000	0.153
52.75	-34.41	-9.66	0.00	-843.28	0.00	843.28	4942.80	2471.40	10222.2	5074.76	2.74	-0.501	0.000	0.173
55.00	-33.80	-9.60	0.00	-821.54	0.00	821.54	4913.65	2456.82	10072.3	5000.32	2.99	-0.523	0.000	0.171
60.00	-32.47	-9.45	0.00	-773.53	0.00	773.53	4847.98	2423.99	9741.07	4835.88	3.56	-0.575	0.000	0.167
65.00	-31.15	-9.29	0.00	-726.31	0.00	726.31	4781.08	2390.54	9412.76	4672.89	4.19	-0.628	0.000	0.162
70.00	-29.87	-9.13	0.00	-679.87	0.00	679.87	4712.96	2356.48	9087.49	4511.41	4.88	-0.680	0.000	0.157
75.00	-28.60	-8.97	0.00	-634.23	0.00	634.23	4643.60	2321.80	8765.44	4351.53	5.62	-0.731	0.000	0.152
80.00	-27.36	-8.81	0.00	-589.39	0.00	589.39	4573.02	2286.51	8446.74	4193.32	6.41	-0.783	0.000	0.147
85.00	-26.15	-8.64	0.00	-545.36	0.00	545.36	4501.21	2250.60	8131.55	4036.84	7.26	-0.833	0.000	0.141
90.00	-24.96	-8.47	0.00	-502.15	0.00	502.15	4428.17	2214.08	7820.02	3882.19	8.16	-0.883	0.000	0.135
91.66	-24.56	-8.42	0.00	-488.05	0.00	488.05	4403.60	2201.80	7717.21	3831.15	8.47	-0.900	0.000	0.133
95.00	-23.35	-8.31	0.00	-459.94	0.00	459.94	4350.76	2175.38	7506.87	3726.73	9.11	-0.933	0.000	0.129
98.00	-22.27	-8.20	0.00	-435.05	0.00	435.05	2393.56	1196.78	4158.66	2064.53	9.71	-0.963	0.000	0.220
100.00	-21.95	-8.15	0.00	-418.63	0.00	418.63	2381.84	1190.92	4099.59	2035.21	10.11	-0.982	0.000	0.215
105.00	-21.15	-7.99	0.00	-377.90	0.00	377.90	2351.72	1175.86	3952.36	1962.12	11.18	-1.051	0.000	0.202
110.00	-20.38	-7.84	0.00	-337.93	0.00	337.93	2320.37	1160.18	3805.57	1889.24	12.32	-1.118	0.000	0.188
115.00	-19.62	-7.69	0.00	-298.72	0.00	298.72	2287.79	1143.89	3659.35	1816.65	13.52	-1.182	0.000	0.173
120.00	-18.87	-7.54	0.00	-260.27	0.00	260.27	2253.98	1126.99	3513.86	1744.43	14.79	-1.242	0.000	0.158
125.00	-18.14	-7.39	0.00	-222.57	0.00	222.57	2218.95	1109.47	3369.25	1672.64	16.13	-1.299	0.000	0.141
130.00	-17.43	-7.23	0.00	-185.64	0.00	185.64	2182.68	1091.34	3225.66	1601.35	17.51	-1.350	0.000	0.124
131.74	-17.18	-7.18	0.00	-173.03	0.00	173.03	2169.75	1084.87	3175.87	1576.63	18.01	-1.367	0.000	0.118
135.00	-16.42	-7.07	0.00	-149.65	0.00	149.65	2145.19	1072.59	3083.25	1530.65	18.95	-1.397	0.000	0.105
136.99	-15.95	-7.00	0.00	-135.55	0.00	135.55	1823.96	911.98	2634.70	1307.98	19.54	-1.414	0.000	0.112
137.00	-13.15	-5.15	0.00	-135.51	0.00	135.51	1823.92	911.96	2634.55	1307.90	19.54	-1.414	0.000	0.111
140.00	-12.79	-5.06	0.00	-120.05	0.00	120.05	1806.41	903.20	2565.29	1273.52	20.44	-1.439	0.000	0.101
145.00	-12.23	-4.91	0.00	-94.73	0.00	94.73	1776.24	888.12	2450.41	1216.49	21.97	-1.476	0.000	0.085
147.00	-9.40	-3.62	0.00	-84.91	0.00	84.91	1763.83	881.91	2404.67	1193.78	22.59	-1.490	0.000	0.076
150.00	-9.10	-3.54	0.00	-74.04	0.00	74.04	1744.84	872.42	2336.33	1159.85	23.53	-1.508	0.000	0.069
155.00	-8.61	-3.39	0.00	-56.36	0.00	56.36	1712.21	856.11	2223.20	1103.69	25.13	-1.535	0.000	0.056
160.00	-8.14	-3.25	0.00	-39.41	0.00	39.41	1678.36	839.18	2111.17	1048.07	26.75	-1.557	0.000	0.042
165.00	-7.68	-3.10	0.00	-23.18	0.00	23.18	1643.27	821.64	2000.39	993.08	28.39	-1.573	0.000	0.028
167.00	-4.55	-1.76	0.00	-16.97	0.00	16.97	1628.90	814.45	1956.47	971.27	29.05	-1.577	0.000	0.020
170.00	-4.30	-1.68	0.00	-11.70	0.00	11.70	1606.96	803.48	1891.02	938.78	30.04	-1.582	0.000	0.015
175.00	-3.91	-1.54	0.00	-3.32	0.00	3.32	1569.42	784.71	1783.19	885.25	31.70	-1.587	0.000	0.006
177.00	-0.22	-0.08	0.00	-0.23	0.00	0.23	1554.06	777.03	1740.53	864.07	32.36	-1.587	0.000	0.000
180.00	0.00	-0.07	0.00	0.00	0.00	0.00	1530.65	765.32	1677.06	832.56	33.36	-1.587	0.000	0.000

Calculated Forces

Structure:	CT01722-S-SBA		**Code:**	EIA/TIA-222-G	7/13/2021
Site Name:	South Canton		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 48

Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.6W 93 mph Wind	42.8	0.00	64.19	0.00	0.00	5410.70
0.9D + 1.6W 93 mph Wind	42.8	0.00	48.13	0.00	0.00	5348.46
1.2D + 1.0Di + 1.0Wi 50 mph Wind	12.8	0.00	108.31	0.00	0.00	1680.90
1.2D + 1.0E	2.4	0.00	64.26	0.00	0.00	322.19
0.9D + 1.0E	2.4	0.00	48.19	0.00	0.00	318.10
1.0D + 1.0W 60 mph Wind	11.1	0.00	53.54	0.00	0.00	1398.81

Max Stresses

Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.6W 93 mph Wind	-24.85	-31.76	0.00	-1686.8	0.00	-1686.8	2393.56	1196.7	4158.66	2064.53	98.00	0.828
0.9D + 1.6W 93 mph Wind	-18.18	-31.30	0.00	-1656.3	0.00	-1656.3	2393.56	1196.7	4158.66	2064.53	98.00	0.811
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-57.13	-9.95	0.00	-540.59	0.00	-540.59	2393.56	1196.7	4158.66	2064.53	98.00	0.286
1.2D + 1.0E	-26.88	-1.69	0.00	-124.35	0.00	-124.35	2393.56	1196.7	4158.66	2064.53	98.00	0.071
0.9D + 1.0E	-20.16	-1.67	0.00	-122.22	0.00	-122.22	2393.56	1196.7	4158.66	2064.53	98.00	0.068
1.0D + 1.0W 60 mph Wind	-22.27	-8.20	0.00	-435.05	0.00	-435.05	2393.56	1196.7	4158.66	2064.53	98.00	0.220

Base Plate Summary

Structure:	CT01722-S-SB		**Code:**	EIA/TIA-222-G	7/13/2021
Site Name:	South Canton		**Exposure:**	C	
Height:	180.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 50

Tower Engineering Solutions

Reactions	
Original Design	
Moment (kip-ft):	4923.80
Axial (kip):	53.10
Shear (kip):	38.70
Analysis (1.2D + 1.6W)	
Moment (kip-ft):	5410.70
Axial (kip):	64.19
Shear (kip):	42.80

Base Plate	
Yield (ksi):	60.00
Width (in):	74.62
Style:	Polygon
Polygon Sides:	16.00
Clip Length (in):	0.00
Effective Len (in):	11.70
Moment (kip-in):	599.26
Allow Stress (ksi):	81.00
Applied Stress (ksi):	40.50
Stress Ratio:	0.50

Anchor Bolts	
Bolt Circle:	68.62
Number Bolts:	28.00
Bolt Type:	2.25" 18J
Bolt Diameter (in):	2.25
Yield (ksi):	75.00
Ultimate (ksi):	100.00
Arrangement:	Radial
Cluster Dist (in):	0.00
Start Angle (deg):	0.00
Compression	
Force (kip):	139.04
Allowable (kip):	260.00
Ratio:	0.55
Tension	
Force (kip):	131.30
Allowable (kip):	260.00
Ratio:	0.52

Monopole Mat Foundation Design

			Date: 10/15/2020
Customer Name:	T-Mobile	**EIA/TIA Standard:**	EIA-222-G
Site Name:		**Structure Height (Ft.):**	180
Site Number:	CT01722-S-SBA	**Engineer Name:**	T. Alajaj
Engr. Number:	98773	**Manager Login Req'd:**	

Foundation Info Obtained from: Drawings/Calculations

Structure Type: Monopole

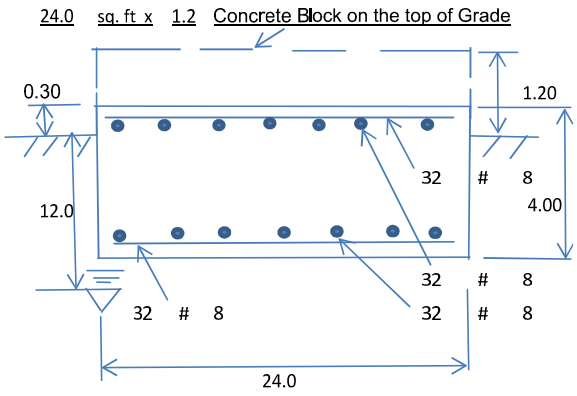
Analysis or Design? Analysis

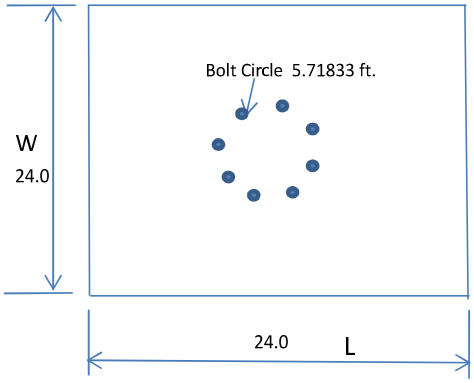
Base Reactions (Factored):

Axial Load (Kips):	64.2	Shear Force (Kips):	42.8
Uplift Force (Kips):	0.0	Moment (Kips-ft):	5410.7
Allowable overstress %:	5.0%		

Foundation Geometries:

		Mods required -Yes/No ?:	Yes
Anchor Bolt Circle (ft.):	5.72	Depth of Base BG (ft.):	3.70
Thickness of Pad (ft):	4.00		
Length of Pad (ft.):	24	Width of Pad (ft.):	24
Add Concrete Width & Length (ft.)	24	Add Concrete Thick. (ft)	1.2
Final Length of pad (ft)	24.0	Final width of pad (ft):	24.0





Material Properties and Reabr Info:

Concrete Strength (psi):	3000	Steel Elastic Modulus:	29000	ksi
Pad Rebar Yield (Ksi):	60	Tie Spacing (in):	12.0	
Pad Steel Rebar Size (#):	8			
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf

Rebar at the bottom of the concrete pad:

Qty. of Rebar in Pad (L):	32	Qty. of Rebar in Pad (W):	32

Rebar at the top of the concrete pad:

Qty. of Rebar in Pad (L):	32	Qty. of Rebar in Pad (W):	32
Apply 1.35 factor for e/w Per G:	1.35		

Soil Design Parameters:

Water Table B.G.S. (ft):	12.0	Unit Weight of Water:	62.4	pcf	Angle from Top of Pad:	30
Ultimate Bearing Pressure (psf):	13000	Ultimate Skin Friction:	0	Psf	Angle from Bottm of Pad:	25
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	No		Angle from Bottm of Pad:	25
Consider soil hor. resist. for OTM.:	No	Reduction factor on the maximum soil bearing pressure:	1.00			

Foundation Analysis and Design: Uplift Strength Reduction Factor: 0.75 — Compression Strength Reduction Factor: 0.75

Total Dry Soil Volume (cu. Ft.):	0.00	Total Dry Soil Weight (Kips):	0.00
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	0.00	Weight from the Concrete Block at Top (K):	99.06
Total Dry Concrete Volume (cu. Ft.):	2964.38	Total Dry Concrete Weight (Kips):	444.66
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	444.66	Total Vertical Load on Base (Kips):	508.86

Check Soil Capacities:

				Load/ Capacity Ratio	
Calculated Maxium Net Soil Pressure under the base (psf):	6169	<	Allowable Factored Soil Bearing (psf): 9750	0.63	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	6642.5	>	Design Factored Momont (kips-ft): 5584	0.84	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	1.19	OK!			

Check the capacities of Reinforceing Concrete:

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

Concrete Pad:

One-Way Design Shear Capacity (L-Direction, Kips):		One-Way Factored Shear (L-D. Kips):	398.7
One-Way Design Shear Capacity (W-Direction, Kips):		One-Way Factored Shear (W-D., Kips	
One-Way Design Shear Capacity (Corner-Corner. Kips):		One-Way Factored Shear (C-C, Kips):	853.2
Lower Steel Pad Reinforcement Ratio (L-Direct.):		Lower Steel Pad Reinf. Ratio (W-Direc	
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):		Moment at Bottom (L-Direct. K-Ft):	1033.1
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):		Moment at Bottom (W-Direct. K-Ft):	1033.1
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):		Moment at Bottom (C-C Dir. K-Ft):	
Upper Steel Pad Reinforcement Ratio (L-Direct.):		Upper Steel Reinf. Ratio (W-Direct.):	0.0020
Upper Steel Pad Moment Capacity (L-Direction. Kips-ft):		Moment at the top (L-Dir Kips-Ft):	
Upper Steel Pad Moment Capacity (W-Direction. Kips-ft):		Moment at the top (W-Dir Kips-Ft):	468.2
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):		Moment at the top (C-C Direc. K-Ft):	692.6

Maser Consulting Connecticut
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Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10083840
Maser Consulting Connecticut Project #: 20777653A (Rev. 1)

July 7, 2021

Site Information	*Site ID:*	*469444-VZW / COLLINSVILLE_2_CT*
	Site Name:	*COLLINSVILLE_2_CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*96 Powder Mill Road* *Canton, Connecticut 06019* *Hartford County*
	Latitude:	*41.834242°*
	Longitude:	*-72.932739°*
Structure Information	*Tower Type:*	*180.00-Ft Monopole*
	Mount Type:	*13.83-Ft Platform*

FUZE ID # 2559343

Analysis Results

Platform: **50.3% Pass**

Digitally signed by Taqi Khawaja
Date: 2021.07.08 09:58:15-04'00'

******Contractor PMI Requirements:***
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
Contractor - Please Review Specific Site PMI Requirements Upon Award
Requirements also Noted on Mount Modification Drawings
Requirements may also be Noted on A & E drawings

Report Prepared By: Nathan LaPorte

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	*Verizon RFDS Site ID: 323616, dated May 25, 2021*
Mount Mapping Report	*Hudson Design Group LLC, Site ID: 117980, dated February 11, 2021*
Previous Mount Analysis	*Maser Consulting Connecticut, Project #: 20777653A, Dated April 14, 2021*
Mount Modification Drawings	*Maser Consulting Connecticut, Project #: 20777653A, Dated July 7, 2021*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	115 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.50 in
	Risk Category:	II
	Exposure Category:	C
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.989
Seismic Parameters:	S_S:	0.176
	S_1:	0.054
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
145.00	147.00	3	Samsung	MT6407-77A	Added
		3	Commscope	NHHSS-65B-R2BT0	
		3	Commscope	NHH-65B-R2B	
		3	Commscope	LNX-6514DS-A1M	
		1	Raycap	RVZDC-6627-PF-48	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		3	Samsung	CBRS RRH - RT4401-48A	

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

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

Standard Conditions:

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

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

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

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

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

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

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

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

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

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

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

Analysis Results:

Component	Utilization %	Pass/Fail
Standoff Horizontal	17.2 %	Pass
Face Horizontal	20.7 %	Pass
Mount Pipe	43.5 %	Pass
Platform Crossmember	15.1 %	Pass
Corner Plate	16.8 %	Pass
Grating Support	13.7 %	Pass
Cross Arm Plate	47.1 %	Pass
Support Rail	24.7 %	Pass
Support Rail Corner	50.3 %	Pass
Kicker	9.5 %	Pass
Mount Connection	31.3 %	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**50.3%**

Recommendation:

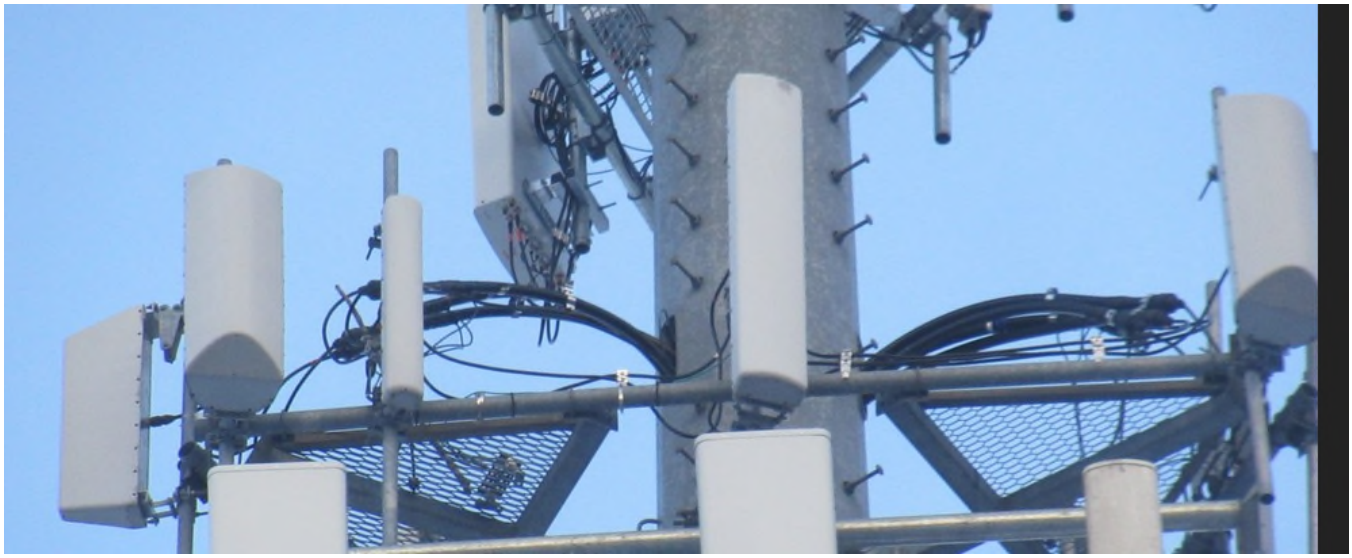
The existing mount will be **SUFFICIENT** for the final loading after the proposed modifications are successfully completed.

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

Attachments:

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

MASER CONSULTING
— CONNECTICUT—

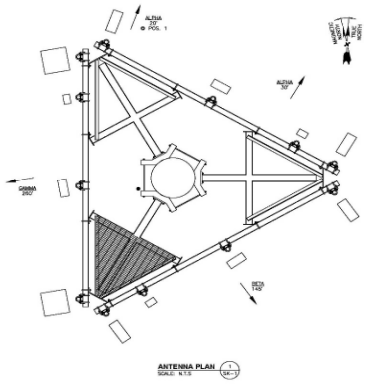


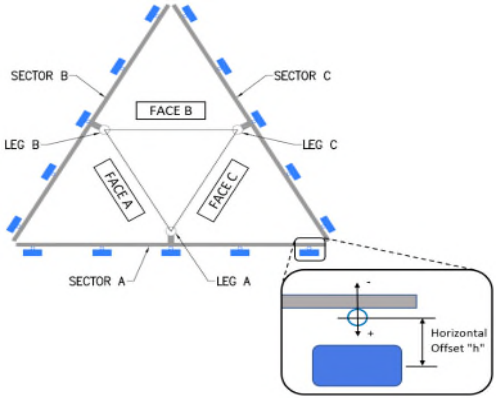
V3.0 Updated on 8-31-2020

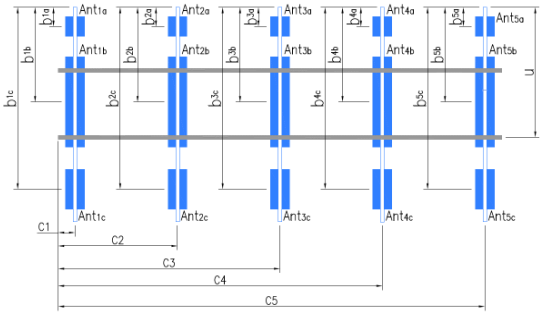
Antenna Mount Mapping Form (PATENT PENDING)

FCC # 1220791

Tower Owner:	SBA	**Mapping Date:**	2/11/2021
Site Name:	Collinsville 2 CT	**Tower Type:**	Monopole
Site Number or ID:	117980	**Tower Height (Ft.):**	180
Mapping Contractor:	Hudson Design Group LLC	**Mount Elevation (Ft.):**	144.7







Antenna Layout (Looking Out From Tower)

Mount Pipe Configuration and Geometries [Unit = Inches]

Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	PIPE 2" STD. X 96" LONG	60.00	5.00	C1	PIPE 2" STD. X 96" LONG	60.00	5.00
A2	PIPE 2" STD. X 96" LONG	60.00	78.00	C2	PIPE 2" STD. X 96" LONG	60.00	78.00
A3	PIPE 2" STD. X 96" LONG	60.00	135.00	C3	PIPE 2" STD. X 96" LONG	60.00	135.00
A4	PIPE 2" STD. X 96" LONG	60.00	161.00	C4	PIPE 2" STD. X 96" LONG	60.00	161.00
A5				C5			
A6				C6			
B1	PIPE 2" STD. X 96" LONG	60.00	5.00	D1			
B2	PIPE 2" STD. X 96" LONG	60.00	78.00	D2			
B3	PIPE 2" STD. X 96" LONG	60.00	135.00	D3			
B4	PIPE 2" STD. X 96" LONG	60.00	161.00	D4			
B5				D5			
B6				D6			

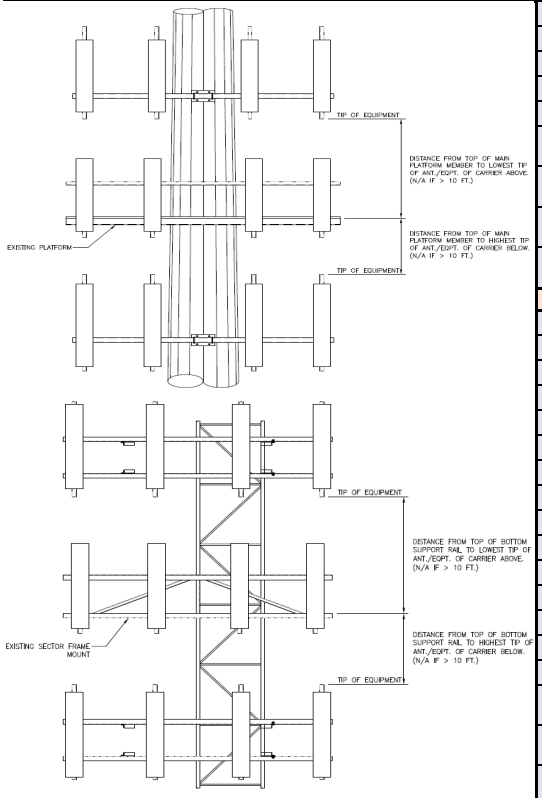
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :	
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	36
Please enter additional infomation or comments below.	

Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	32

Ants. Items	Enter antenna model. If not labeled, enter "Unknown". Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Mounting Locations [Units are inches and degrees] Vertical Distances"b_{1a}, b_{2a}, b_{3a}, b_{1b}...." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photos of antennas Photo Numbers
Sector A										
Ant_{1a}										
Ant_{1b}	LPA-80080-4CF-EDIN	14.00	6.00	48.00		146.2	42.00	14.00	20.00	21
Ant_{1c}										
Ant_{2a}										
Ant_{2b}	BXA-70063-6CF	11.00	5.00	71.00		146.45	39.00	9.00	30.00	22
Ant_{2c}	RFMS50129524	5.00	1.00	5.00		145.7	48.00	-3.00		33
Ant_{3a}										
Ant_{3b}	BXA-171085-8CF	6.00	4.00	48.00		146.2	42.00	7.00	30.00	23
Ant_{3c}	RFMS50129524	5.00	1.00	5.00		145.7	48.00	-3.00		33
Ant_{4a}										
Ant_{4b}	LPA-80080-4CF-EDIN	14.00	6.00	48.00		146.2	42.00	14.00	30.00	24
Ant_{4c}										
Ant_{5a}										
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:	30.00	Deg	Leg A:		Deg
Sector B:	150.00	Deg	Leg B:		Deg
Sector C:	270.00	Deg	Leg C:		Deg
Sector D:		Deg	Leg D:		Deg

Climbing Facility Information		
Location:	250.00 Deg	N/A
Climbing Facility	Corrosion Type:	Good condition.
	Access:	Climbing path was unobstructed.
	Condition:	Good condition.



Sector B										
Ant_{1a}										
Ant_{1b}	LPA-80080-4CF	14.00	6.00	48.00		146.2	42.00	14.00	145.00	21
Ant_{1c}										
Ant_{2a}										
Ant_{2b}	BXA-70063-6CF	11.00	5.00	71.00		146.45	39.00	9.00	145.00	22
Ant_{2c}	RFMS50129524	5.00	1.00	5.00		145.7	48.00	-3.00		33
Ant_{3a}										
Ant_{3b}	BXA-171085-8CF	6.00	4.00	48.00		146.2	42.00	7.00	145.00	23
Ant_{3c}	RFMS50129524	5.00	1.00	5.00		145.7	48.00	-3.00		33
Ant_{4a}										
Ant_{4b}	LPA-80080-4CF	14.00	6.00	48.00		146.2	42.00	14.00	145.00	24
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector C										
Ant_{1a}										
Ant_{1b}	LPA-80063-4CF	15.00	15.00	48.00		146.2	42.00	14.00	260.00	26
Ant_{1c}										
Ant_{2a}										
Ant_{2b}	BXA-70063-6CF	11.00	5.00	71.00		146.45	39.00	9.00	260.00	22
Ant_{2c}	RFMS50129524	5.00	1.00	5.00		145.7	48.00	-3.00		33
Ant_{3a}										
Ant_{3b}	BXA-171085-8CF	6.00	4.00	48.00		146.2	42.00	7.00	260.00	22
Ant_{3c}	RFMS50129524	5.00	1.00	5.00		145.7	48.00	-3.00		33
Ant_{4a}										
Ant_{4b}	LPA-80063-4CF	15.00	15.00	48.00		146.2	42.00	14.00	260.00	26
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector D										
Ant_{1a}										
Ant_{1b}										
Ant_{1c}										
Ant_{2a}										
Ant_{2b}										
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

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

1		
2	(12) 1-5/8"Ø COAX	41, 42
3		
4		
5		
6		
7		
8		

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

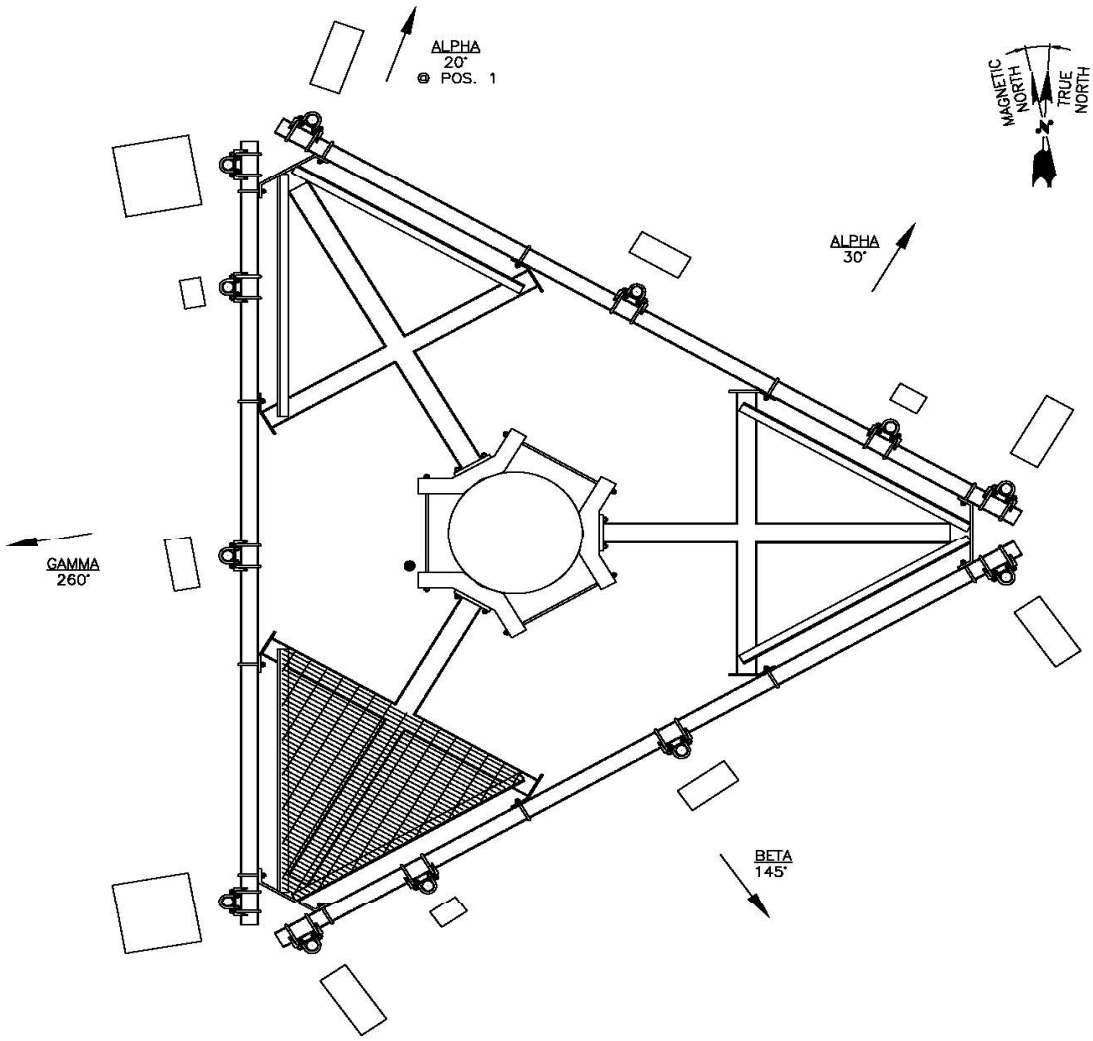
Standard Conditions
1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.

Antenna Mount Mapping Form (PATENT PENDING)

FCC #
1220791

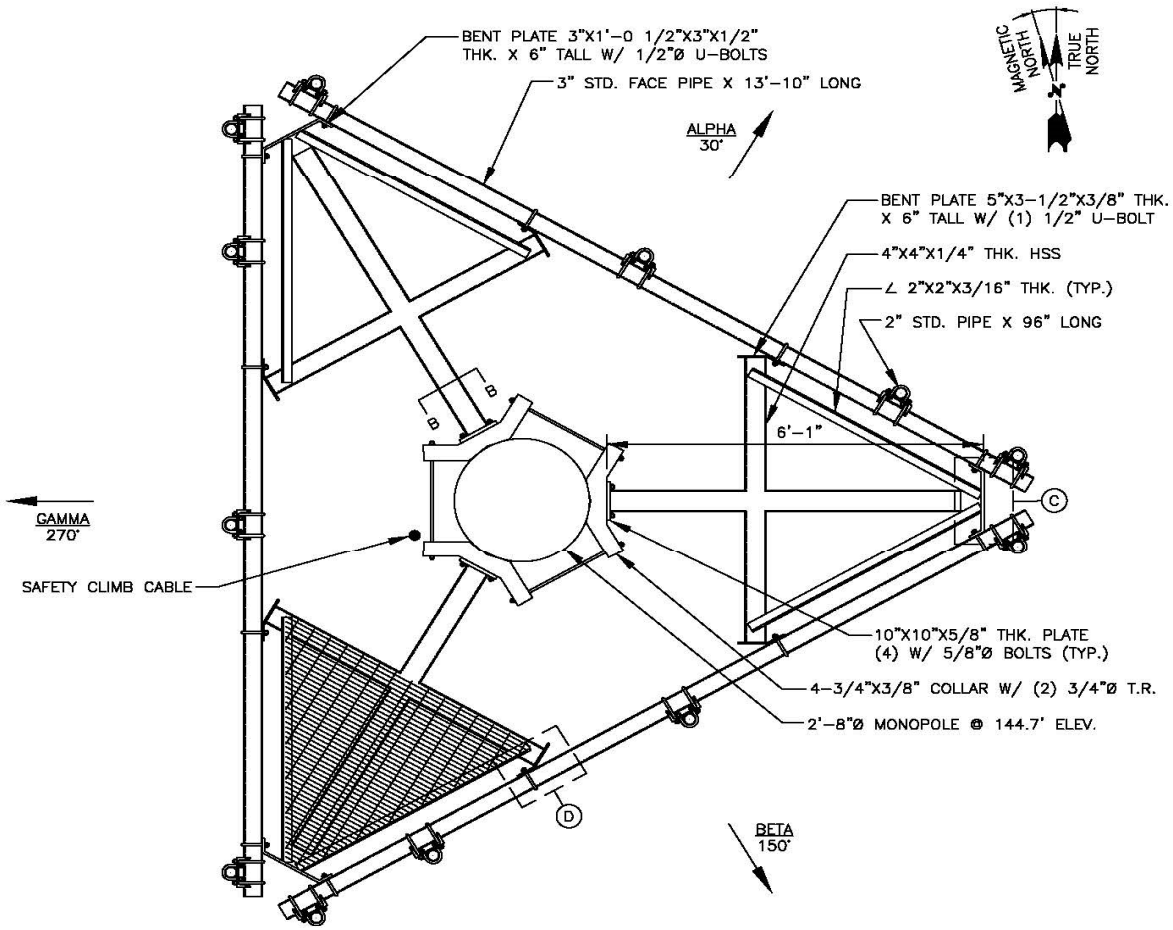
Tower Owner:	SBA	**Mapping Date:**	2/11/2021
Site Name:	Collinsville 2 CT	**Tower Type:**	Monopole
Site Number or ID:	117980	**Tower Height (Ft.):**	180
Mapping Contractor:	Hudson Design Group LLC	**Mount Elevation (Ft.):**	144.7

Please Insert Sketches of the Antenna Mount



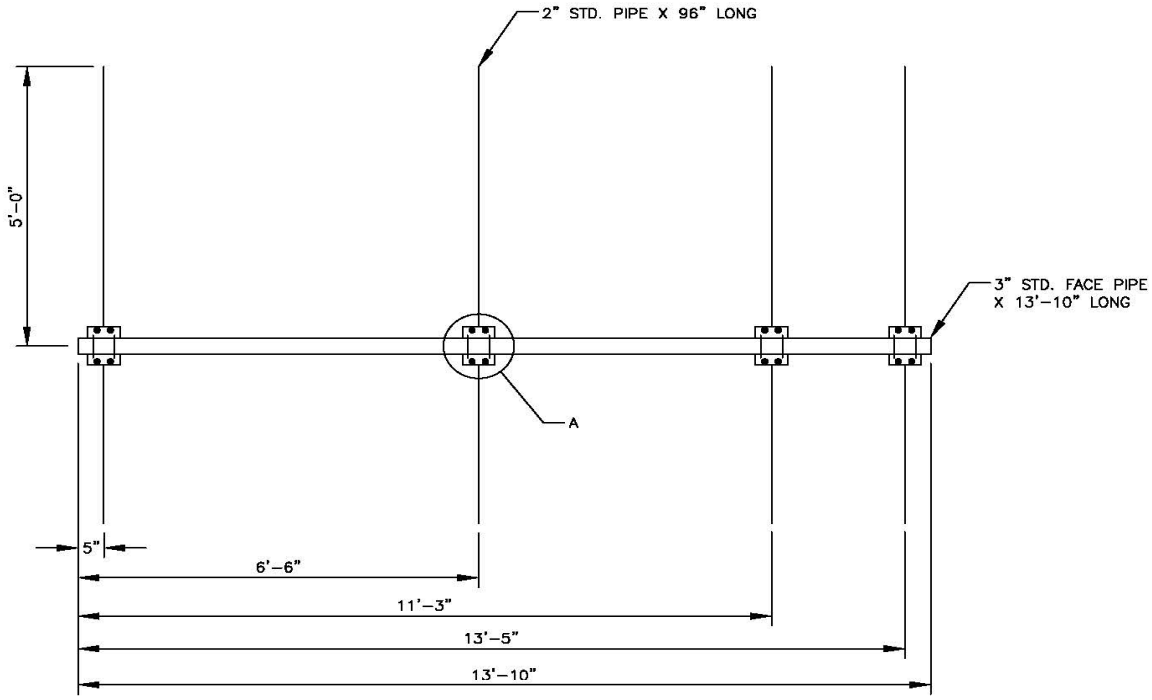
ANTENNA PLAN 1
SCALE: N.T.S SK–1

Please Insert Sketches of the Antenna Mount, cont'd

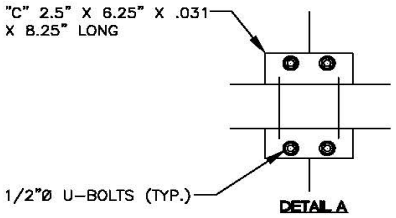


MOUNT PLAN 1/SK-2
SCALE: N.T.S

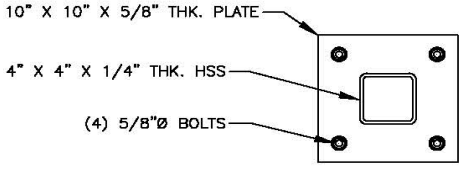
Please Insert Sketches of the Antenna Mount, cont'd



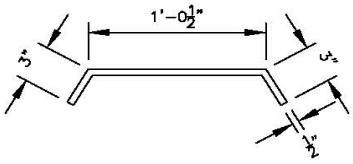
MOUNT ELEVATION (1 / SK-3)
SCALE: N.T.S



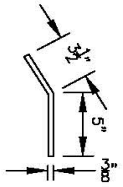
DETAIL A



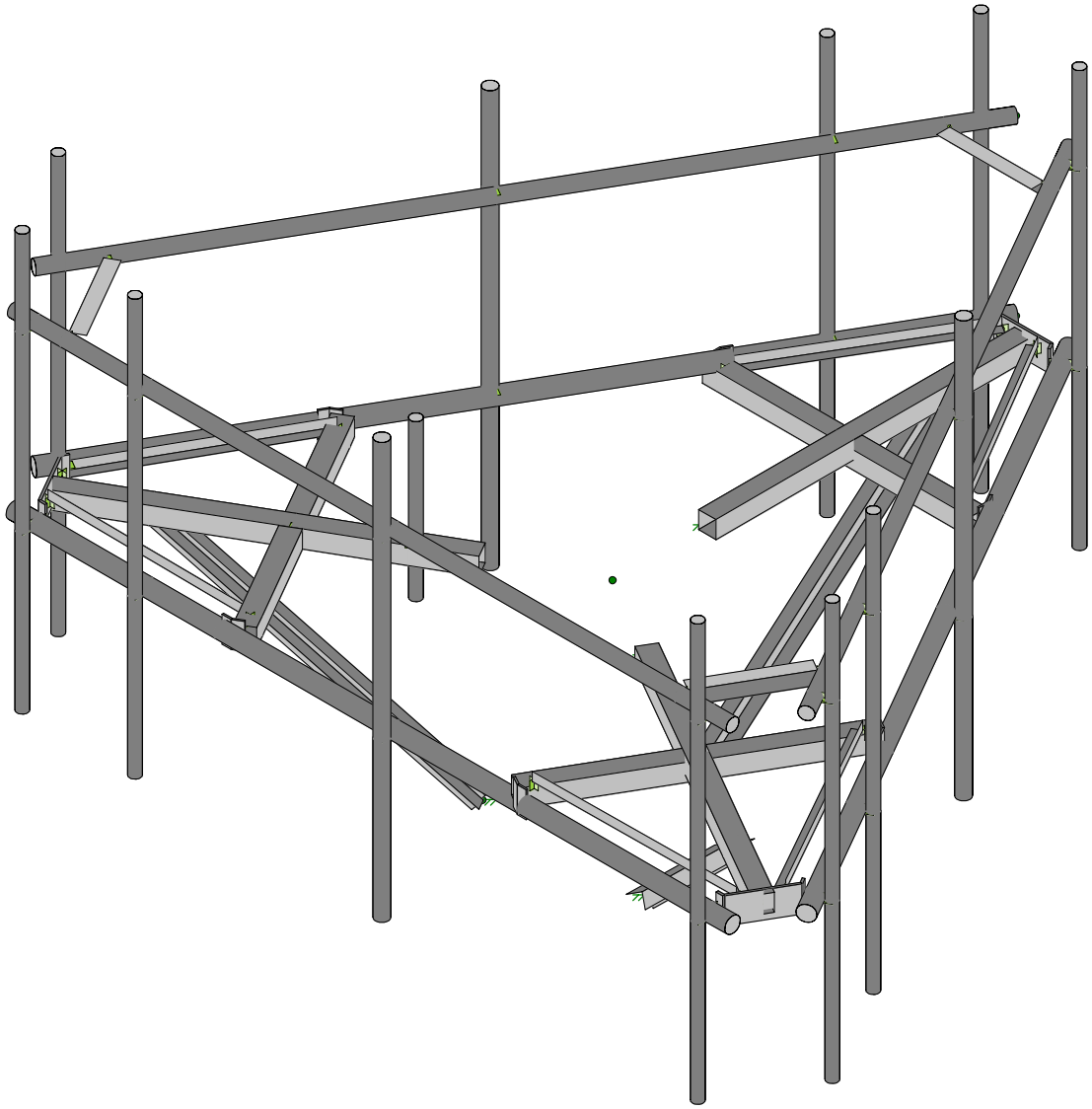
DETAIL B-B



DETAIL C

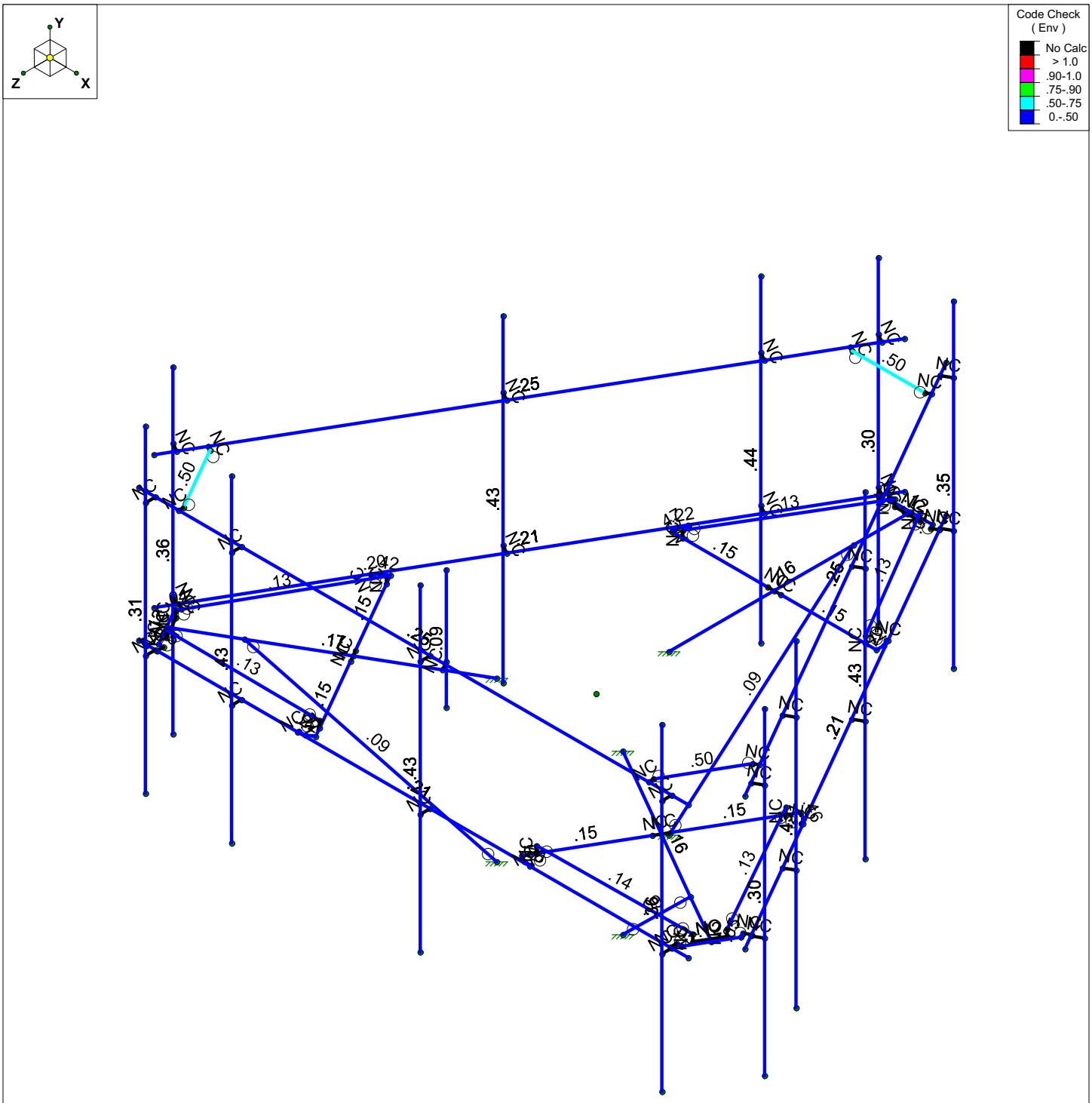


DETAIL D



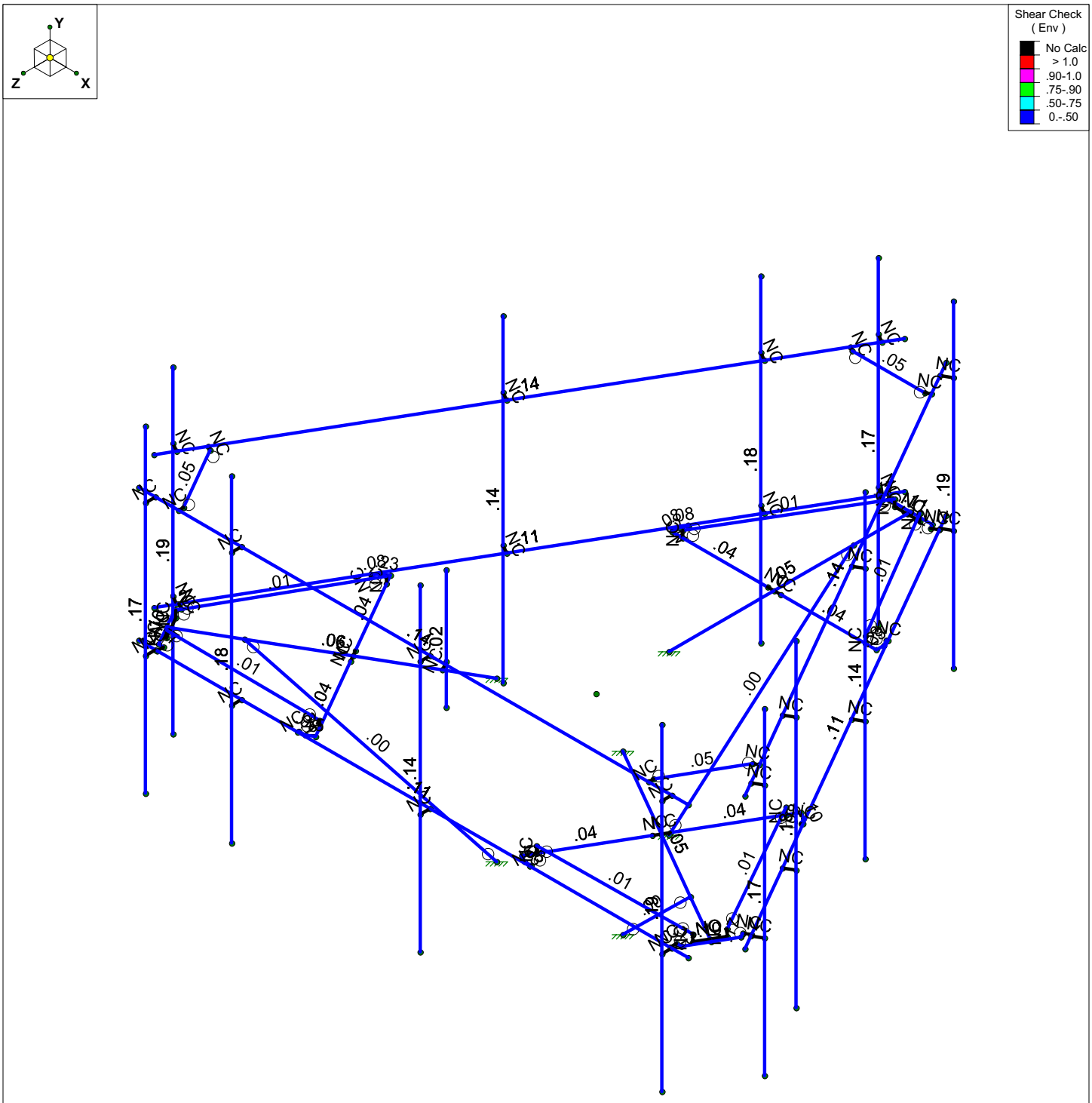
Envelope Only Solution

Maser Consulting	Mount Fix (Rev 1)	SK - 1
NL		July 7, 2021 at 5:56 AM
20777653A		117980-VZW_MT_LO_H.r3d



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	Mount Fix (Rev 1)	SK - 2
NL		July 7, 2021 at 5:56 AM
20777653A		117980-VZW_MT_LO_H.r3d



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	Mount Fix (Rev 1)	SK - 3
NL		July 7, 2021 at 5:56 AM
20777653A		117980-VZW_MT_LO_H.r3d

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(...
1	Antenna D	None					102			
2	Antenna Di	None					102			
3	Antenna Wo (0 Deg)	None					102			
4	Antenna Wo (30 Deg)	None					102			
5	Antenna Wo (60 Deg)	None					102			
6	Antenna Wo (90 Deg)	None					102			
7	Antenna Wo (120 Deg)	None					102			
8	Antenna Wo (150 Deg)	None					102			
9	Antenna Wo (180 Deg)	None					102			
10	Antenna Wo (210 Deg)	None					102			
11	Antenna Wo (240 Deg)	None					102			
12	Antenna Wo (270 Deg)	None					102			
13	Antenna Wo (300 Deg)	None					102			
14	Antenna Wo (330 Deg)	None					102			
15	Antenna Wi (0 Deg)	None					102			
16	Antenna Wi (30 Deg)	None					102			
17	Antenna Wi (60 Deg)	None					102			
18	Antenna Wi (90 Deg)	None					102			
19	Antenna Wi (120 Deg)	None					102			
20	Antenna Wi (150 Deg)	None					102			
21	Antenna Wi (180 Deg)	None					102			
22	Antenna Wi (210 Deg)	None					102			
23	Antenna Wi (240 Deg)	None					102			
24	Antenna Wi (270 Deg)	None					102			
25	Antenna Wi (300 Deg)	None					102			
26	Antenna Wi (330 Deg)	None					102			
27	Antenna Wm (0 Deg)	None					102			
28	Antenna Wm (30 Deg)	None					102			
29	Antenna Wm (60 Deg)	None					102			
30	Antenna Wm (90 Deg)	None					102			
31	Antenna Wm (120 Deg)	None					102			
32	Antenna Wm (150 Deg)	None					102			
33	Antenna Wm (180 Deg)	None					102			
34	Antenna Wm (210 Deg)	None					102			
35	Antenna Wm (240 Deg)	None					102			
36	Antenna Wm (270 Deg)	None					102			
37	Antenna Wm (300 Deg)	None					102			
38	Antenna Wm (330 Deg)	None					102			
39	Structure D	None		-1					3	
40	Structure Di	None						61	3	
41	Structure Wo (0 Deg)	None						122		
42	Structure Wo (30 Deg)	None						122		
43	Structure Wo (60 Deg)	None						122		
44	Structure Wo (90 Deg)	None						122		
45	Structure Wo (120 Deg)	None						122		
46	Structure Wo (150 Deg)	None						122		
47	Structure Wo (180 Deg)	None						122		
48	Structure Wo (210 Deg)	None						122		
49	Structure Wo (240 Deg)	None						122		
50	Structure Wo (270 Deg)	None						122		
51	Structure Wo (300 Deg)	None						122		
52	Structure Wo (330 Deg)	None						122		
53	Structure Wi (0 Deg)	None						122		
54	Structure Wi (30 Deg)	None						122		
55	Structure Wi (60 Deg)	None						122		
56	Structure Wi (90 Deg)	None						122		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	DistributedArea(Me...	Surface(...
57	Structure Wi (120 Deg)	None						122	
58	Structure Wi (150 Deg)	None						122	
59	Structure Wi (180 Deg)	None						122	
60	Structure Wi (210 Deg)	None						122	
61	Structure Wi (240 Deg)	None						122	
62	Structure Wi (270 Deg)	None						122	
63	Structure Wi (300 Deg)	None						122	
64	Structure Wi (330 Deg)	None						122	
65	Structure Wm (0 Deg)	None						122	
66	Structure Wm (30 Deg)	None						122	
67	Structure Wm (60 Deg)	None						122	
68	Structure Wm (90 Deg)	None						122	
69	Structure Wm (120 Deg)	None						122	
70	Structure Wm (150 Deg)	None						122	
71	Structure Wm (180 Deg)	None						122	
72	Structure Wm (210 Deg)	None						122	
73	Structure Wm (240 Deg)	None						122	
74	Structure Wm (270 Deg)	None						122	
75	Structure Wm (300 Deg)	None						122	
76	Structure Wm (330 Deg)	None						122	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		
81	BLC 39 Transient Area ...	None						30	
82	BLC 40 Transient Area ...	None						30	

Load Combinations

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

Load Combinations (Continued)

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

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	CP	0	0	0	0	
2	N21	-1.587783	0	0.916707	0	
3	N26A	-3.881553	0	2.241015	0	
4	N29A	-6.856107	0	3.958375	0	
5	N36	-6.916663	0	4.595516	0	
6	N53A	6.916663	0	4.595516	0	
7	N56	6.500004	0	4.595516	0	
8	N60A	6.500004	0	4.845516	0	
9	N64	6.500004	5	4.845516	0	
10	N68	6.500004	-3	4.845516	0	
11	N79A	-2.595102	0	4.46922	0	
12	N80A	-5.031241	0.166667	0.249703	0	
13	N81A	-2.731871	0.166667	4.232328	0	
14	N84A	-5.031241	0	0.249703	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
15	N85A	-2.731871	0	4.232328	0	
16	N86A	-6.941761	0.166667	3.64216	0	
17	N87A	-6.626459	0.166667	4.190658	0	
18	N88A	-6.942449	0	3.64216	0	
19	N89_1	-6.625773	0	4.190658	0	
20	N90_1	-5.168011	0	0.01281	0	
21	N91_1	-3.798223	0	2.385353	0	
22	N92_1	-3.96489	0	2.096678	0	
23	N95_1	-7.129545	0	3.484766	0	
24	N96_1	-6.58267	0	4.431981	0	
25	N112	-2.757481	0	4.56297	0	
26	N113	-5.330391	0	0.10656	0	
27	N116	-2.924148	0	4.56297	0	
28	N120	-2.924148	0	4.595516	0	
29	N120A	-6.45767	0	4.431981	0	
30	N124	-6.45767	0	4.595516	0	
31	N145	-5.413724	0	0.250898	0	
32	N147	-5.441906	0	0.234627	0	
33	N149	-7.067045	0	3.376513	0	
34	N151	-7.208668	0	3.294747	0	
35	N84B	1.587783	0	0.916707	0	
36	N85B	3.881553	0	2.241015	0	
37	N86B	6.856107	0	3.958375	0	
38	N87B	5.168009	0	0.012814	0	
39	N88B	2.73187	0.166667	4.232331	0	
40	N89A	5.031239	0.166667	0.249706	0	
41	N91A	2.73187	0	4.232331	0	
42	N92A	5.031239	0	0.249706	0	
43	N93	6.625084	0.166667	4.190662	0	
44	N94	6.942446	0.166667	3.643353	0	
45	N95A	6.625427	0	4.191257	0	
46	N96A	6.942103	0	3.642759	0	
47	N97A	2.5951	0	4.469224	0	
48	N98A	3.964888	0	2.096681	0	
49	N99	3.798221	0	2.385356	0	
50	N100	6.582668	0	4.431984	0	
51	N101	7.129543	0	3.484769	0	
52	N102	5.330389	0	0.106564	0	
53	N103	2.757479	0	4.562974	0	
54	N104	5.413722	0	0.250901	0	
55	N105	5.441907	0	0.234629	0	
56	N106	7.067043	0	3.376516	0	
57	N107	7.208669	0	3.294749	0	
58	N108	2.924146	0	4.562974	0	
59	N109	2.924146	0	4.595516	0	
60	N110	6.457668	0	4.431984	0	
61	N111	6.457668	0	4.595516	0	
62	N112A	-0.	0	-1.833414	0	
63	N113A	-0.	0	-4.482034	0	
64	N114	-0.	0	-7.91675	0	
65	N115	-2.572908	0	-4.482034	0	
66	N116A	2.299372	0.166667	-4.482034	0	
67	N117	-2.299368	0.166667	-4.482034	0	
68	N119	2.299372	0	-4.482034	0	
69	N120B	-2.299368	0	-4.482034	0	
70	N121	0.316678	0.166667	-7.832822	0	
71	N122	-0.315987	0.166667	-7.834011	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
72	N123	0.317021	0	-7.833417	0	
73	N124A	-0.31633	0	-7.833417	0	
74	N125	2.572911	0	-4.482034	0	
75	N126	-0.166665	0	-4.482034	0	
76	N127	0.166669	0	-4.482034	0	
77	N128	0.546877	0	-7.91675	0	
78	N129	-0.546873	0	-7.91675	0	
79	N130	-2.572908	0	-4.669534	0	
80	N131	2.572911	0	-4.669534	0	
81	N132	-2.489574	0	-4.813872	0	
82	N133	-2.517759	0	-4.830144	0	
83	N134	-0.609373	0	-7.808497	0	
84	N135	-0.750998	0	-7.890264	0	
85	N136	2.489578	0	-4.813872	0	
86	N137	2.51776	0	-4.830143	0	
87	N138	0.609377	0	-7.808497	0	
88	N139	0.750999	0	-7.890263	0	
89	N93A	0.416671	0	4.595516	0	
90	N94A	0.416671	0	4.845516	0	
91	N95	0.416671	5	4.845516	0	
92	N96	0.416671	-3	4.845516	0	
93	N97	-4.333329	0	4.595516	0	
94	N98	-4.333329	0	4.845516	0	
95	N99A	-4.333329	5	4.845516	0	
96	N100A	-4.333329	-3	4.845516	0	
97	N101A	-6.499996	0	4.595516	0	
98	N102A	-6.499996	0	4.845516	0	
99	N103A	-6.499996	5	4.845516	0	
100	N104A	-6.499996	-3	4.845516	0	
101	N102B	7.438165	0	3.692248	0	
102	N103B	0.521502	0	-8.287764	0	
103	N104B	0.729831	0	-7.926926	0	
104	N105A	0.946338	0	-8.051926	0	
105	N106A	0.946338	5	-8.051926	0	
106	N107A	0.946338	-3	-8.051926	0	
107	N112B	3.771498	0	-2.658605	0	
108	N113B	3.988004	0	-2.783605	0	
109	N114A	3.988004	5	-2.783605	0	
110	N115A	3.988004	-3	-2.783605	0	
111	N116B	6.146498	0	1.455016	0	
112	N117A	6.363004	0	1.330016	0	
113	N118	6.363004	5	1.330016	0	
114	N119A	6.363004	-3	1.330016	0	
115	N120C	7.229831	0	3.331404	0	
116	N121A	7.446338	0	3.206404	0	
117	N122A	7.446338	5	3.206404	0	
118	N123A	7.446338	-3	3.206404	0	
119	N125A	-0.521502	0	-8.287764	0	
120	N126A	-7.438165	0	3.692248	0	
121	N127A	-7.229835	0	3.331411	0	
122	N128A	-7.446342	0	3.206411	0	
123	N129A	-7.446342	5	3.206411	0	
124	N130A	-7.446342	-3	3.206411	0	
125	N135A	-4.188169	0	-1.936911	0	
126	N136A	-4.404675	0	-2.061911	0	
127	N137A	-4.404675	5	-2.061911	0	
128	N138A	-4.404675	-3	-2.061911	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
129	N139A	-1.813169	0	-6.050531	0	
130	N140	-2.029675	0	-6.175531	0	
131	N141	-2.029675	5	-6.175531	0	
132	N142	-2.029675	-3	-6.175531	0	
133	N143	-0.729835	0	-7.92692	0	
134	N144	-0.946342	0	-8.05192	0	
135	N145A	-0.946342	5	-8.05192	0	
136	N146	-0.946342	-3	-8.05192	0	
137	N137B	-2.587142	0	1.185767	0	
138	N138B	-2.453809	0	1.416707	0	
139	N139B	-2.587142	-1	1.185767	0	
140	N140A	-2.587142	2	1.185767	0	
141	N146A	-6.783938	0	3.916708	0	
142	N147A	6.783938	0	3.916708	0	
143	N148	-0.	0	-7.833417	0	
144	N149A	-6.916663	3.333333	4.595516	0	
145	N150	6.916663	3.333333	4.595516	0	
146	N151A	6.500004	3.333333	4.595516	0	
147	N152	6.500004	3.333333	4.845516	0	
148	N161	0.416671	3.333333	4.595516	0	
149	N162	0.416671	3.333333	4.845516	0	
150	N163	-4.333329	3.333333	4.595516	0	
151	N164	-4.333329	3.333333	4.845516	0	
152	N165	-6.499996	3.333333	4.595516	0	
153	N166	-6.499996	3.333333	4.845516	0	
154	N167	7.438165	3.333333	3.692248	0	
155	N168	0.521502	3.333333	-8.287764	0	
156	N169	0.729831	3.333333	-7.926926	0	
157	N170	0.946338	3.333333	-8.051926	0	
158	N171	3.771498	3.333333	-2.658605	0	
159	N172	3.988004	3.333333	-2.783605	0	
160	N173	6.146498	3.333333	1.455016	0	
161	N174	6.363004	3.333333	1.330016	0	
162	N175	7.229831	3.333333	3.331404	0	
163	N176	7.446338	3.333333	3.206404	0	
164	N177	-0.521502	3.333333	-8.287764	0	
165	N178	-7.438165	3.333333	3.692248	0	
166	N179	-7.229835	3.333333	3.331411	0	
167	N180	-7.446342	3.333333	3.206411	0	
168	N181	-4.188169	3.333333	-1.936911	0	
169	N182	-4.404675	3.333333	-2.061911	0	
170	N183	-1.813169	3.333333	-6.050531	0	
171	N184	-2.029675	3.333333	-6.175531	0	
172	N185	-0.729835	3.333333	-7.92692	0	
173	N186	-0.946342	3.333333	-8.05192	0	
174	N194A	5.916663	3.333333	4.595516	0	
175	N195	5.916663	3.333333	4.470516	0	
176	N201A	-0.	0	-6.482034	0	
177	N202A	-0.	-4	-1.833414	0	
178	N204	-5.613606	0	3.241017	0	
179	N205	-1.587783	-4	0.916707	0	
180	N207	5.613606	0	3.241017	0	
181	N208	1.587783	-4	0.916707	0	
182	N183A	-5.916663	3.333333	4.595516	0	
183	N184A	-5.916663	3.333333	4.470516	0	
184	N185A	1.021502	3.333333	-7.421738	0	
185	N186A	0.913249	3.333333	-7.359238	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
186	N187	6.938165	3.333333	2.826222	0	
187	N188	6.829912	3.333333	2.888722	0	
188	N189	-6.938165	3.333333	2.826222	0	
189	N190	-6.829912	3.333333	2.888722	0	
190	N191	-1.021502	3.333333	-7.421738	0	
191	N192	-0.913249	3.333333	-7.359238	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	MOD Support Rail	PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
3	Standoff Horizontal	HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
4	Corner Plate	PL1/2x6	Beam	BAR	A36 Gr.36	Typical	3	.063	9	.237
5	Platform Crossme...	HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
6	Grating Support	L2x2x3	Beam	Single Angle	A36 Gr.36	Typical	.722	.271	.271	.009
7	MOD kicker Kit	LL3x3x3x6	Column	Double Angle (3/8 Gap)	A36 Gr.36	Typical	2.18	4.97	1.9	.027
8	MOD Support Rail...	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
9	Mount Pipe	PIPE_2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
10	Dual Mount Pipe	PIPE_2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
11	Cross Arm Plate	PL3/8x6	Beam	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/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3
8	Q235	29000	11154	.3	.65	.49	35	1.5	58	1.2

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M13	N21	N29A			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
2	M20	N36	N53A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
3	M37	N56	N60A			RIGID	None	None	RIGID	Typical
4	MP1A	N64	N68			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
5	M41A	N90_1	N92_1			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
6	M42_1	N91_1	N79A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
7	M43A_1	N96_1	N95_1			Corner Plate	Beam	BAR	A36 Gr.36	Typical
8	M44_1	N81A	N85A			RIGID	None	None	RIGID	Typical
9	M45_1	N80A	N84A			RIGID	None	None	RIGID	Typical
10	M46A	N86A	N80A			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
11	M47	N81A	N87A			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
12	M48	N87A	N89_1			RIGID	None	None	RIGID	Typical
13	M49	N86A	N88A			RIGID	None	None	RIGID	Typical
14	M50_1	N91_1	N26A			RIGID	None	None	RIGID	Typical
15	M51_1	N26A	N92_1			RIGID	None	None	RIGID	Typical
16	M64	N79A	N112			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
17	M65	N112	N116			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
18	M68	N116	N120			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
19	M71	N96_1	N120A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
20	M72	N120A	N124			RIGID	None	None	RIGID	Typical
21	M86	N90_1	N113			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
22	M87	N113	N145			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
23	M89	N145	N147			RIGID	None	None	RIGID	Typical
24	M90	N95_1	N149			Corner Plate	Beam	BAR	A36 Gr.36	Typical
25	M93	N149	N151			RIGID	None	None	RIGID	Typical
26	M50A	N84B	N86B			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
27	M51A	N97A	N99			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
28	M52	N98A	N87B			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
29	M53A	N101	N100			Corner Plate	Beam	BAR	A36 Gr.36	Typical
30	M54	N89A	N92A			RIGID	None	None	RIGID	Typical
31	M55	N88B	N91A			RIGID	None	None	RIGID	Typical
32	M56	N93	N88B			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
33	M57	N89A	N94			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
34	M58	N94	N96A			RIGID	None	None	RIGID	Typical
35	M59	N93	N95A			RIGID	None	None	RIGID	Typical
36	M60	N98A	N85B			RIGID	None	None	RIGID	Typical
37	M61	N85B	N99			RIGID	None	None	RIGID	Typical
38	M62	N87B	N102			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
39	M63	N102	N104			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
40	M64A	N104	N105			RIGID	None	None	RIGID	Typical
41	M65A	N101	N106			Corner Plate	Beam	BAR	A36 Gr.36	Typical
42	M66	N106	N107			RIGID	None	None	RIGID	Typical
43	M67	N97A	N103			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
44	M68A	N103	N108			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
45	M69	N108	N109			RIGID	None	None	RIGID	Typical
46	M70	N100	N110			Corner Plate	Beam	BAR	A36 Gr.36	Typical
47	M71A	N110	N111			RIGID	None	None	RIGID	Typical
48	M72A	N112A	N114			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
49	M73	N125	N127			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
50	M74	N126	N115			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
51	M75	N129	N128			Corner Plate	Beam	BAR	A36 Gr.36	Typical
52	M76	N117	N120B			RIGID	None	None	RIGID	Typical
53	M77	N116A	N119			RIGID	None	None	RIGID	Typical
54	M78	N121	N116A			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
55	M79	N117	N122			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
56	M80	N122	N124A			RIGID	None	None	RIGID	Typical
57	M81	N121	N123			RIGID	None	None	RIGID	Typical
58	M82	N126	N113A			RIGID	None	None	RIGID	Typical
59	M83	N113A	N127			RIGID	None	None	RIGID	Typical
60	M84	N115	N130			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
61	M85	N130	N132			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
62	M86A	N132	N133			RIGID	None	None	RIGID	Typical
63	M87A	N129	N134			Corner Plate	Beam	BAR	A36 Gr.36	Typical
64	M88	N134	N135			RIGID	None	None	RIGID	Typical
65	M89A	N125	N131			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
66	M90A	N131	N136			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
67	M91	N136	N137			RIGID	None	None	RIGID	Typical
68	M92	N128	N138			Corner Plate	Beam	BAR	A36 Gr.36	Typical
69	M93A	N138	N139			RIGID	None	None	RIGID	Typical
70	M94	N124A	N123			RIGID	None	None	RIGID	Typical
71	M95	N89_1	N88A			RIGID	None	None	RIGID	Typical
72	M96	N96A	N95A			RIGID	None	None	RIGID	Typical
73	M73A	N93A	N94A			RIGID	None	None	RIGID	Typical
74	MP2A	N95	N96			Dual Mount Pipe	Column	Pipe	A53 Gr.B	Typical
75	M75A	N97	N98			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
76	MP3A	N99A	N100A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
77	M77A	N101A	N102A			RIGID	None	None	RIGID	Typical
78	MP4A	N103A	N104A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
79	M79A	N103B	N102B			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
80	M80A	N104B	N105A			RIGID	None	None	RIGID	Typical
81	MP1C	N106A	N107A		240	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
82	M82A	N112B	N113B			RIGID	None	None	RIGID	Typical
83	MP2C	N114A	N115A		240	Dual Mount Pipe	Column	Pipe	A53 Gr.B	Typical
84	M84A	N116B	N117A			RIGID	None	None	RIGID	Typical
85	MP3C	N118	N119A		240	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
86	M86B	N120C	N121A			RIGID	None	None	RIGID	Typical
87	MP4C	N122A	N123A		240	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
88	M88A	N126A	N125A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
89	M89B	N127A	N128A			RIGID	None	None	RIGID	Typical
90	MP1B	N129A	N130A		120	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
91	M91A	N135A	N136A			RIGID	None	None	RIGID	Typical
92	MP2B	N137A	N138A		120	Dual Mount Pipe	Column	Pipe	A53 Gr.B	Typical
93	M93B	N139A	N140			RIGID	None	None	RIGID	Typical
94	MP3B	N141	N142		120	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
95	M95A	N143	N144			RIGID	None	None	RIGID	Typical
96	MP4B	N145A	N146		120	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
97	M97	N137B	N138B			RIGID	None	None	RIGID	Typical
98	M98	N140A	N139B			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
99	M99	N149A	N150			MOD Support ...	Beam	Pipe	A53 Gr.B	Typical
100	M100	N151A	N152			RIGID	None	None	RIGID	Typical
101	M103	N161	N162			RIGID	None	None	RIGID	Typical
102	M104	N163	N164			RIGID	None	None	RIGID	Typical
103	M105	N165	N166			RIGID	None	None	RIGID	Typical
104	M106	N168	N167			MOD Support ...	Beam	Pipe	A53 Gr.B	Typical
105	M107	N169	N170			RIGID	None	None	RIGID	Typical
106	M108	N171	N172			RIGID	None	None	RIGID	Typical
107	M109	N173	N174			RIGID	None	None	RIGID	Typical
108	M110	N175	N176			RIGID	None	None	RIGID	Typical
109	M111	N178	N177			MOD Support ...	Beam	Pipe	A53 Gr.B	Typical
110	M112	N179	N180			RIGID	None	None	RIGID	Typical
111	M113	N181	N182			RIGID	None	None	RIGID	Typical
112	M114	N183	N184			RIGID	None	None	RIGID	Typical
113	M115	N185	N186			RIGID	None	None	RIGID	Typical
114	M117	N194A	N195			RIGID	None	None	RIGID	Typical
115	M123	N188	N195		90	MOD Support ...	Beam	Single Angle	A36 Gr.36	Typical
116	M123A	N201A	N202A			MOD kicker Kit	Column	Double Angle (...	A36 Gr.36	Typical
117	M124A	N204	N205			MOD kicker Kit	Column	Double Angle (...	A36 Gr.36	Typical
118	M125	N207	N208			MOD kicker Kit	Column	Double Angle (...	A36 Gr.36	Typical
119	M119	N183A	N184A			RIGID	None	None	RIGID	Typical
120	M120	N185A	N186A			RIGID	None	None	RIGID	Typical
121	M121	N187	N188			RIGID	None	None	RIGID	Typical
122	M122	N189	N190			RIGID	None	None	RIGID	Typical
123	M123B	N191	N192			RIGID	None	None	RIGID	Typical
124	M124	N192	N186A		90	MOD Support ...	Beam	Single Angle	A36 Gr.36	Typical
125	M125A	N184A	N190		90	MOD Support ...	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	M13						Yes	Default			None
2	M20						Yes				None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
3	M37						Yes	** NA **			None
4	MP1A						Yes	** NA **			None
5	M41A						Yes				None
6	M42_1						Yes				None
7	M43A_1						Yes				None
8	M44_1						Yes	** NA **			None
9	M45_1						Yes	** NA **			None
10	M46A	OOOOOX	OOOOOX				Yes				None
11	M47	OOOOOX	OOOOOX				Yes				None
12	M48						Yes	** NA **			None
13	M49						Yes	** NA **			None
14	M50_1						Yes	** NA **			None
15	M51_1						Yes	** NA **			None
16	M64						Yes				None
17	M65						Yes				None
18	M68		BenPIN				Yes	** NA **			None
19	M71						Yes				None
20	M72		BenPIN				Yes	** NA **			None
21	M86						Yes				None
22	M87						Yes				None
23	M89		BenPIN				Yes	** NA **			None
24	M90						Yes				None
25	M93		BenPIN				Yes	** NA **			None
26	M50A						Yes	Default			None
27	M51A						Yes				None
28	M52						Yes				None
29	M53A						Yes				None
30	M54						Yes	** NA **			None
31	M55						Yes	** NA **			None
32	M56	OOOOOX	OOOOOX				Yes				None
33	M57	OOOOOX	OOOOOX				Yes				None
34	M58						Yes	** NA **			None
35	M59						Yes	** NA **			None
36	M60						Yes	** NA **			None
37	M61						Yes	** NA **			None
38	M62						Yes				None
39	M63						Yes				None
40	M64A		BenPIN				Yes	** NA **			None
41	M65A						Yes				None
42	M66		BenPIN				Yes	** NA **			None
43	M67						Yes				None
44	M68A						Yes				None
45	M69		BenPIN				Yes	** NA **			None
46	M70						Yes				None
47	M71A		BenPIN				Yes	** NA **			None
48	M72A						Yes	Default			None
49	M73						Yes				None
50	M74						Yes				None
51	M75						Yes				None
52	M76						Yes	** NA **			None
53	M77						Yes	** NA **			None
54	M78	OOOOOX	OOOOOX				Yes				None
55	M79	OOOOOX	OOOOOX				Yes				None
56	M80						Yes	** NA **			None
57	M81						Yes	** NA **			None
58	M82						Yes	** NA **			None
59	M83						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...
60	M84						Yes				None
61	M85						Yes				None
62	M86A		BenPIN				Yes	** NA **			None
63	M87A						Yes				None
64	M88		BenPIN				Yes	** NA **			None
65	M89A						Yes				None
66	M90A						Yes				None
67	M91		BenPIN				Yes	** NA **			None
68	M92						Yes				None
69	M93A		BenPIN				Yes	** NA **			None
70	M94						Yes	** NA **			None
71	M95						Yes	** NA **			None
72	M96						Yes	** NA **			None
73	M73A						Yes	** NA **			None
74	MP2A						Yes	** NA **			None
75	M75A						Yes	** NA **			None
76	MP3A						Yes	** NA **			None
77	M77A						Yes	** NA **			None
78	MP4A						Yes	** NA **			None
79	M79A						Yes				None
80	M80A						Yes	** NA **			None
81	MP1C						Yes	** NA **			None
82	M82A						Yes	** NA **			None
83	MP2C						Yes	** NA **			None
84	M84A						Yes	** NA **			None
85	MP3C						Yes	** NA **			None
86	M86B						Yes	** NA **			None
87	MP4C						Yes	** NA **			None
88	M88A						Yes				None
89	M89B						Yes	** NA **			None
90	MP1B						Yes	** NA **			None
91	M91A						Yes	** NA **			None
92	MP2B						Yes	** NA **			None
93	M93B						Yes	** NA **			None
94	MP3B						Yes	** NA **			None
95	M95A						Yes	** NA **			None
96	MP4B						Yes	** NA **			None
97	M97						Yes	** NA **			None
98	M98						Yes	** NA **			None
99	M99						Yes				None
100	M100						Yes	** NA **			None
101	M103						Yes	** NA **			None
102	M104						Yes	** NA **			None
103	M105						Yes	** NA **			None
104	M106						Yes				None
105	M107						Yes	** NA **			None
106	M108						Yes	** NA **			None
107	M109						Yes	** NA **			None
108	M110						Yes	** NA **			None
109	M111						Yes				None
110	M112						Yes	** NA **			None
111	M113						Yes	** NA **			None
112	M114						Yes	** NA **			None
113	M115						Yes	** NA **			None
114	M117	OOOOOX					Yes	** NA **			None
115	M123						Yes				None
116	M123A	BenPIN	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...
117	M124A	BenPIN	BenPIN				Yes	** NA **			None
118	M125	BenPIN	BenPIN				Yes	** NA **			None
119	M119	OOOOOX					Yes	** NA **			None
120	M120	OOOOOX					Yes	** NA **			None
121	M121	OOOOOX					Yes	** NA **			None
122	M122	OOOOOX					Yes	** NA **			None
123	M123B	OOOOOX					Yes	** NA **			None
124	M124						Yes				None
125	M125A						Yes				None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-43.55	1.7
2	MP1A	My	-.022	1.7
3	MP1A	Mz	0	1.7
4	MP1A	Y	-43.55	3.7
5	MP1A	My	-.022	3.7
6	MP1A	Mz	0	3.7
7	MP1B	Y	-43.55	1.7
8	MP1B	My	.011	1.7
9	MP1B	Mz	-.019	1.7
10	MP1B	Y	-43.55	3.7
11	MP1B	My	.011	3.7
12	MP1B	Mz	-.019	3.7
13	MP1C	Y	-43.55	1.7
14	MP1C	My	.011	1.7
15	MP1C	Mz	.019	1.7
16	MP1C	Y	-43.55	3.7
17	MP1C	My	.011	3.7
18	MP1C	Mz	.019	3.7
19	MP2A	Y	-21.85	.95
20	MP2A	My	-.011	.95
21	MP2A	Mz	.015	.95
22	MP2A	Y	-21.85	4.45
23	MP2A	My	-.011	4.45
24	MP2A	Mz	.015	4.45
25	MP2B	Y	-21.85	.95
26	MP2B	My	-.007	.95
27	MP2B	Mz	-.017	.95
28	MP2B	Y	-21.85	4.45
29	MP2B	My	-.007	4.45
30	MP2B	Mz	-.017	4.45
31	MP2C	Y	-21.85	.95
32	MP2C	My	.018	.95
33	MP2C	Mz	.002	.95
34	MP2C	Y	-21.85	4.45
35	MP2C	My	.018	4.45
36	MP2C	Mz	.002	4.45
37	MP3A	Y	-22.95	.95
38	MP3A	My	-.011	.95
39	MP3A	Mz	0	.95
40	MP3A	Y	-22.95	4.45
41	MP3A	My	-.011	4.45
42	MP3A	Mz	0	4.45
43	MP3B	Y	-22.95	.95

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP3B	My	.006	.95
45	MP3B	Mz	-.01	.95
46	MP3B	Y	-22.95	4.45
47	MP3B	My	.006	4.45
48	MP3B	Mz	-.01	4.45
49	MP3C	Y	-22.95	.95
50	MP3C	My	.006	.95
51	MP3C	Mz	.01	.95
52	MP3C	Y	-22.95	4.45
53	MP3C	My	.006	4.45
54	MP3C	Mz	.01	4.45
55	M98	Y	-32	1
56	M98	My	0	1
57	M98	Mz	0	1
58	MP3A	Y	-84.4	2.7
59	MP3A	My	.042	2.7
60	MP3A	Mz	0	2.7
61	MP3B	Y	-84.4	2.7
62	MP3B	My	-.021	2.7
63	MP3B	Mz	.037	2.7
64	MP3C	Y	-84.4	2.7
65	MP3C	My	-.021	2.7
66	MP3C	Mz	-.037	2.7
67	MP2A	Y	-70.3	2.7
68	MP2A	My	.035	2.7
69	MP2A	Mz	0	2.7
70	MP2B	Y	-70.3	2.7
71	MP2B	My	-.018	2.7
72	MP2B	Mz	.03	2.7
73	MP2C	Y	-70.3	2.7
74	MP2C	My	-.018	2.7
75	MP2C	Mz	-.03	2.7
76	MP2A	Y	-32.3	.95
77	MP2A	My	-.016	.95
78	MP2A	Mz	-.022	.95
79	MP2A	Y	-32.3	4.45
80	MP2A	My	-.016	4.45
81	MP2A	Mz	-.022	4.45
82	MP2B	Y	-32.3	.95
83	MP2B	My	.027	.95
84	MP2B	Mz	-.003	.95
85	MP2B	Y	-32.3	4.45
86	MP2B	My	.027	4.45
87	MP2B	Mz	-.003	4.45
88	MP2C	Y	-32.3	.95
89	MP2C	My	-.011	.95
90	MP2C	Mz	.025	.95
91	MP2C	Y	-32.3	4.45
92	MP2C	My	-.011	4.45
93	MP2C	Mz	.025	4.45
94	MP4A	Y	-18.7	2.7
95	MP4A	My	-.005	2.7
96	MP4A	Mz	0	2.7
97	MP4B	Y	-18.7	2.7
98	MP4B	My	.002	2.7
99	MP4B	Mz	-.004	2.7
100	MP4C	Y	-18.7	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
101	MP4C	My	.002	2.7
102	MP4C	Mz	.004	2.7

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-56.815	1.7
2	MP1A	My	-.028	1.7
3	MP1A	Mz	0	1.7
4	MP1A	Y	-56.815	3.7
5	MP1A	My	-.028	3.7
6	MP1A	Mz	0	3.7
7	MP1B	Y	-56.815	1.7
8	MP1B	My	.014	1.7
9	MP1B	Mz	-.025	1.7
10	MP1B	Y	-56.815	3.7
11	MP1B	My	.014	3.7
12	MP1B	Mz	-.025	3.7
13	MP1C	Y	-56.815	1.7
14	MP1C	My	.014	1.7
15	MP1C	Mz	.025	1.7
16	MP1C	Y	-56.815	3.7
17	MP1C	My	.014	3.7
18	MP1C	Mz	.025	3.7
19	MP2A	Y	-96.243	.95
20	MP2A	My	-.048	.95
21	MP2A	Mz	.064	.95
22	MP2A	Y	-96.243	4.45
23	MP2A	My	-.048	4.45
24	MP2A	Mz	.064	4.45
25	MP2B	Y	-96.243	.95
26	MP2B	My	-.032	.95
27	MP2B	Mz	-.074	.95
28	MP2B	Y	-96.243	4.45
29	MP2B	My	-.032	4.45
30	MP2B	Mz	-.074	4.45
31	MP2C	Y	-96.243	.95
32	MP2C	My	.08	.95
33	MP2C	Mz	.01	.95
34	MP2C	Y	-96.243	4.45
35	MP2C	My	.08	4.45
36	MP2C	Mz	.01	4.45
37	MP3A	Y	-106.777	.95
38	MP3A	My	-.053	.95
39	MP3A	Mz	0	.95
40	MP3A	Y	-106.777	4.45
41	MP3A	My	-.053	4.45
42	MP3A	Mz	0	4.45
43	MP3B	Y	-106.777	.95
44	MP3B	My	.027	.95
45	MP3B	Mz	-.046	.95
46	MP3B	Y	-106.777	4.45
47	MP3B	My	.027	4.45
48	MP3B	Mz	-.046	4.45
49	MP3C	Y	-106.777	.95
50	MP3C	My	.027	.95
51	MP3C	Mz	.046	.95

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
52	MP3C	Y	-106.777	4.45
53	MP3C	My	.027	4.45
54	MP3C	Mz	.046	4.45
55	M98	Y	-120.561	1
56	M98	My	0	1
57	M98	Mz	0	1
58	MP3A	Y	-72.219	2.7
59	MP3A	My	.036	2.7
60	MP3A	Mz	0	2.7
61	MP3B	Y	-72.219	2.7
62	MP3B	My	-.018	2.7
63	MP3B	Mz	.031	2.7
64	MP3C	Y	-72.219	2.7
65	MP3C	My	-.018	2.7
66	MP3C	Mz	-.031	2.7
67	MP2A	Y	-65.208	2.7
68	MP2A	My	.033	2.7
69	MP2A	Mz	0	2.7
70	MP2B	Y	-65.208	2.7
71	MP2B	My	-.016	2.7
72	MP2B	Mz	.028	2.7
73	MP2C	Y	-65.208	2.7
74	MP2C	My	-.016	2.7
75	MP2C	Mz	-.028	2.7
76	MP2A	Y	-96.243	.95
77	MP2A	My	-.048	.95
78	MP2A	Mz	-.064	.95
79	MP2A	Y	-96.243	4.45
80	MP2A	My	-.048	4.45
81	MP2A	Mz	-.064	4.45
82	MP2B	Y	-96.243	.95
83	MP2B	My	.08	.95
84	MP2B	Mz	-.01	.95
85	MP2B	Y	-96.243	4.45
86	MP2B	My	.08	4.45
87	MP2B	Mz	-.01	4.45
88	MP2C	Y	-96.243	.95
89	MP2C	My	-.032	.95
90	MP2C	Mz	.074	.95
91	MP2C	Y	-96.243	4.45
92	MP2C	My	-.032	4.45
93	MP2C	Mz	.074	4.45
94	MP4A	Y	-33.067	2.7
95	MP4A	My	-.008	2.7
96	MP4A	Mz	0	2.7
97	MP4B	Y	-33.067	2.7
98	MP4B	My	.004	2.7
99	MP4B	Mz	-.007	2.7
100	MP4C	Y	-33.067	2.7
101	MP4C	My	.004	2.7
102	MP4C	Mz	.007	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	1.7
2	MP1A	Z	-92.062	1.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP1A	Mx	0	1.7
4	MP1A	X	0	3.7
5	MP1A	Z	-92.062	3.7
6	MP1A	Mx	0	3.7
7	MP1B	X	0	1.7
8	MP1B	Z	-50.047	1.7
9	MP1B	Mx	.022	1.7
10	MP1B	X	0	3.7
11	MP1B	Z	-50.047	3.7
12	MP1B	Mx	.022	3.7
13	MP1C	X	0	1.7
14	MP1C	Z	-50.047	1.7
15	MP1C	Mx	-.022	1.7
16	MP1C	X	0	3.7
17	MP1C	Z	-50.047	3.7
18	MP1C	Mx	-.022	3.7
19	MP2A	X	0	.95
20	MP2A	Z	-158.269	.95
21	MP2A	Mx	-.106	.95
22	MP2A	X	0	4.45
23	MP2A	Z	-158.269	4.45
24	MP2A	Mx	-.106	4.45
25	MP2B	X	0	.95
26	MP2B	Z	-118.041	.95
27	MP2B	Mx	.09	.95
28	MP2B	X	0	4.45
29	MP2B	Z	-118.041	4.45
30	MP2B	Mx	.09	4.45
31	MP2C	X	0	.95
32	MP2C	Z	-118.041	.95
33	MP2C	Mx	-.012	.95
34	MP2C	X	0	4.45
35	MP2C	Z	-118.041	4.45
36	MP2C	Mx	-.012	4.45
37	MP3A	X	0	.95
38	MP3A	Z	-180.795	.95
39	MP3A	Mx	0	.95
40	MP3A	X	0	4.45
41	MP3A	Z	-180.795	4.45
42	MP3A	Mx	0	4.45
43	MP3B	X	0	.95
44	MP3B	Z	-135.403	.95
45	MP3B	Mx	.059	.95
46	MP3B	X	0	4.45
47	MP3B	Z	-135.403	4.45
48	MP3B	Mx	.059	4.45
49	MP3C	X	0	.95
50	MP3C	Z	-135.403	.95
51	MP3C	Mx	-.059	.95
52	MP3C	X	0	4.45
53	MP3C	Z	-135.403	4.45
54	MP3C	Mx	-.059	4.45
55	M98	X	0	1
56	M98	Z	-148.475	1
57	M98	Mx	0	1
58	MP3A	X	0	2.7
59	MP3A	Z	-73.258	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP3A	Mx	0	2.7
61	MP3B	X	0	2.7
62	MP3B	Z	-55.042	2.7
63	MP3B	Mx	-.024	2.7
64	MP3C	X	0	2.7
65	MP3C	Z	-55.042	2.7
66	MP3C	Mx	.024	2.7
67	MP2A	X	0	2.7
68	MP2A	Z	-73.258	2.7
69	MP2A	Mx	0	2.7
70	MP2B	X	0	2.7
71	MP2B	Z	-48.063	2.7
72	MP2B	Mx	-.021	2.7
73	MP2C	X	0	2.7
74	MP2C	Z	-48.063	2.7
75	MP2C	Mx	.021	2.7
76	MP2A	X	0	.95
77	MP2A	Z	-157.681	.95
78	MP2A	Mx	.105	.95
79	MP2A	X	0	4.45
80	MP2A	Z	-157.681	4.45
81	MP2A	Mx	.105	4.45
82	MP2B	X	0	.95
83	MP2B	Z	-117.894	.95
84	MP2B	Mx	.012	.95
85	MP2B	X	0	4.45
86	MP2B	Z	-117.894	4.45
87	MP2B	Mx	.012	4.45
88	MP2C	X	0	.95
89	MP2C	Z	-117.894	.95
90	MP2C	Mx	-.09	.95
91	MP2C	X	0	4.45
92	MP2C	Z	-117.894	4.45
93	MP2C	Mx	-.09	4.45
94	MP4A	X	0	2.7
95	MP4A	Z	-39.175	2.7
96	MP4A	Mx	0	2.7
97	MP4B	X	0	2.7
98	MP4B	Z	-24.517	2.7
99	MP4B	Mx	.005	2.7
100	MP4C	X	0	2.7
101	MP4C	Z	-24.517	2.7
102	MP4C	Mx	-.005	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	39.029	1.7
2	MP1A	Z	-67.6	1.7
3	MP1A	Mx	-.02	1.7
4	MP1A	X	39.029	3.7
5	MP1A	Z	-67.6	3.7
6	MP1A	Mx	-.02	3.7
7	MP1B	X	18.021	1.7
8	MP1B	Z	-31.214	1.7
9	MP1B	Mx	.018	1.7
10	MP1B	X	18.021	3.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP1B	Z	-31.214	3.7
12	MP1B	Mx	.018	3.7
13	MP1C	X	39.029	1.7
14	MP1C	Z	-67.6	1.7
15	MP1C	Mx	-.02	1.7
16	MP1C	X	39.029	3.7
17	MP1C	Z	-67.6	3.7
18	MP1C	Mx	-.02	3.7
19	MP2A	X	72.43	.95
20	MP2A	Z	-125.452	.95
21	MP2A	Mx	-.12	.95
22	MP2A	X	72.43	4.45
23	MP2A	Z	-125.452	4.45
24	MP2A	Mx	-.12	4.45
25	MP2B	X	52.316	.95
26	MP2B	Z	-90.613	.95
27	MP2B	Mx	.052	.95
28	MP2B	X	52.316	4.45
29	MP2B	Z	-90.613	4.45
30	MP2B	Mx	.052	4.45
31	MP2C	X	72.43	.95
32	MP2C	Z	-125.452	.95
33	MP2C	Mx	.047	.95
34	MP2C	X	72.43	4.45
35	MP2C	Z	-125.452	4.45
36	MP2C	Mx	.047	4.45
37	MP3A	X	82.832	.95
38	MP3A	Z	-143.469	.95
39	MP3A	Mx	-.041	.95
40	MP3A	X	82.832	4.45
41	MP3A	Z	-143.469	4.45
42	MP3A	Mx	-.041	4.45
43	MP3B	X	60.136	.95
44	MP3B	Z	-104.158	.95
45	MP3B	Mx	.06	.95
46	MP3B	X	60.136	4.45
47	MP3B	Z	-104.158	4.45
48	MP3B	Mx	.06	4.45
49	MP3C	X	82.832	.95
50	MP3C	Z	-143.469	.95
51	MP3C	Mx	-.041	.95
52	MP3C	X	82.832	4.45
53	MP3C	Z	-143.469	4.45
54	MP3C	Mx	-.041	4.45
55	M98	X	67.963	1
56	M98	Z	-117.715	1
57	M98	Mx	0	1
58	MP3A	X	33.593	2.7
59	MP3A	Z	-58.185	2.7
60	MP3A	Mx	.017	2.7
61	MP3B	X	24.485	2.7
62	MP3B	Z	-42.409	2.7
63	MP3B	Mx	-.024	2.7
64	MP3C	X	33.593	2.7
65	MP3C	Z	-58.185	2.7
66	MP3C	Mx	.017	2.7
67	MP2A	X	32.43	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
68	MP2A	Z	-56.17	2.7
69	MP2A	Mx	.016	2.7
70	MP2B	X	19.833	2.7
71	MP2B	Z	-34.351	2.7
72	MP2B	Mx	-.02	2.7
73	MP2C	X	32.43	2.7
74	MP2C	Z	-56.17	2.7
75	MP2C	Mx	.016	2.7
76	MP2A	X	72.209	.95
77	MP2A	Z	-125.07	.95
78	MP2A	Mx	.047	.95
79	MP2A	X	72.209	4.45
80	MP2A	Z	-125.07	4.45
81	MP2A	Mx	.047	4.45
82	MP2B	X	52.316	.95
83	MP2B	Z	-90.613	.95
84	MP2B	Mx	.052	.95
85	MP2B	X	52.316	4.45
86	MP2B	Z	-90.613	4.45
87	MP2B	Mx	.052	4.45
88	MP2C	X	72.209	.95
89	MP2C	Z	-125.07	.95
90	MP2C	Mx	-.119	.95
91	MP2C	X	72.209	4.45
92	MP2C	Z	-125.07	4.45
93	MP2C	Mx	-.119	4.45
94	MP4A	X	17.145	2.7
95	MP4A	Z	-29.695	2.7
96	MP4A	Mx	-.004	2.7
97	MP4B	X	9.815	2.7
98	MP4B	Z	-17	2.7
99	MP4B	Mx	.005	2.7
100	MP4C	X	17.145	2.7
101	MP4C	Z	-29.695	2.7
102	MP4C	Mx	-.004	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	43.342	1.7
2	MP1A	Z	-25.024	1.7
3	MP1A	Mx	-.022	1.7
4	MP1A	X	43.342	3.7
5	MP1A	Z	-25.024	3.7
6	MP1A	Mx	-.022	3.7
7	MP1B	X	43.342	1.7
8	MP1B	Z	-25.024	1.7
9	MP1B	Mx	.022	1.7
10	MP1B	X	43.342	3.7
11	MP1B	Z	-25.024	3.7
12	MP1B	Mx	.022	3.7
13	MP1C	X	79.728	1.7
14	MP1C	Z	-46.031	1.7
15	MP1C	Mx	0	1.7
16	MP1C	X	79.728	3.7
17	MP1C	Z	-46.031	3.7
18	MP1C	Mx	0	3.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	MP2A	X	102.226	.95
20	MP2A	Z	-59.02	.95
21	MP2A	Mx	-.09	.95
22	MP2A	X	102.226	4.45
23	MP2A	Z	-59.02	4.45
24	MP2A	Mx	-.09	4.45
25	MP2B	X	102.226	.95
26	MP2B	Z	-59.02	.95
27	MP2B	Mx	.012	.95
28	MP2B	X	102.226	4.45
29	MP2B	Z	-59.02	4.45
30	MP2B	Mx	.012	4.45
31	MP2C	X	137.065	.95
32	MP2C	Z	-79.135	.95
33	MP2C	Mx	.106	.95
34	MP2C	X	137.065	4.45
35	MP2C	Z	-79.135	4.45
36	MP2C	Mx	.106	4.45
37	MP3A	X	117.262	.95
38	MP3A	Z	-67.701	.95
39	MP3A	Mx	-.059	.95
40	MP3A	X	117.262	4.45
41	MP3A	Z	-67.701	4.45
42	MP3A	Mx	-.059	4.45
43	MP3B	X	117.262	.95
44	MP3B	Z	-67.701	.95
45	MP3B	Mx	.059	.95
46	MP3B	X	117.262	4.45
47	MP3B	Z	-67.701	4.45
48	MP3B	Mx	.059	4.45
49	MP3C	X	156.573	.95
50	MP3C	Z	-90.397	.95
51	MP3C	Mx	0	.95
52	MP3C	X	156.573	4.45
53	MP3C	Z	-90.397	4.45
54	MP3C	Mx	0	4.45
55	M98	X	95.98	1
56	M98	Z	-55.414	1
57	M98	Mx	0	1
58	MP3A	X	47.667	2.7
59	MP3A	Z	-27.521	2.7
60	MP3A	Mx	.024	2.7
61	MP3B	X	47.667	2.7
62	MP3B	Z	-27.521	2.7
63	MP3B	Mx	-.024	2.7
64	MP3C	X	63.443	2.7
65	MP3C	Z	-36.629	2.7
66	MP3C	Mx	0	2.7
67	MP2A	X	41.624	2.7
68	MP2A	Z	-24.032	2.7
69	MP2A	Mx	.021	2.7
70	MP2B	X	41.624	2.7
71	MP2B	Z	-24.032	2.7
72	MP2B	Mx	-.021	2.7
73	MP2C	X	63.443	2.7
74	MP2C	Z	-36.629	2.7
75	MP2C	Mx	0	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
76	MP2A	X	102.099	.95
77	MP2A	Z	-58.947	.95
78	MP2A	Mx	-.012	.95
79	MP2A	X	102.099	4.45
80	MP2A	Z	-58.947	4.45
81	MP2A	Mx	-.012	4.45
82	MP2B	X	102.099	.95
83	MP2B	Z	-58.947	.95
84	MP2B	Mx	.09	.95
85	MP2B	X	102.099	4.45
86	MP2B	Z	-58.947	4.45
87	MP2B	Mx	.09	4.45
88	MP2C	X	136.556	.95
89	MP2C	Z	-78.841	.95
90	MP2C	Mx	-.105	.95
91	MP2C	X	136.556	4.45
92	MP2C	Z	-78.841	4.45
93	MP2C	Mx	-.105	4.45
94	MP4A	X	21.232	2.7
95	MP4A	Z	-12.258	2.7
96	MP4A	Mx	-.005	2.7
97	MP4B	X	21.232	2.7
98	MP4B	Z	-12.258	2.7
99	MP4B	Mx	.005	2.7
100	MP4C	X	33.927	2.7
101	MP4C	Z	-19.588	2.7
102	MP4C	Mx	0	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	36.042	1.7
2	MP1A	Z	0	1.7
3	MP1A	Mx	-.018	1.7
4	MP1A	X	36.042	3.7
5	MP1A	Z	0	3.7
6	MP1A	Mx	-.018	3.7
7	MP1B	X	78.057	1.7
8	MP1B	Z	0	1.7
9	MP1B	Mx	.02	1.7
10	MP1B	X	78.057	3.7
11	MP1B	Z	0	3.7
12	MP1B	Mx	.02	3.7
13	MP1C	X	78.057	1.7
14	MP1C	Z	0	1.7
15	MP1C	Mx	.02	1.7
16	MP1C	X	78.057	3.7
17	MP1C	Z	0	3.7
18	MP1C	Mx	.02	3.7
19	MP2A	X	104.631	.95
20	MP2A	Z	0	.95
21	MP2A	Mx	-.052	.95
22	MP2A	X	104.631	4.45
23	MP2A	Z	0	4.45
24	MP2A	Mx	-.052	4.45
25	MP2B	X	144.86	.95
26	MP2B	Z	0	.95

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP2B	Mx	-.047	.95
28	MP2B	X	144.86	4.45
29	MP2B	Z	0	4.45
30	MP2B	Mx	-.047	4.45
31	MP2C	X	144.86	.95
32	MP2C	Z	0	.95
33	MP2C	Mx	.12	.95
34	MP2C	X	144.86	4.45
35	MP2C	Z	0	4.45
36	MP2C	Mx	.12	4.45
37	MP3A	X	120.272	.95
38	MP3A	Z	0	.95
39	MP3A	Mx	-.06	.95
40	MP3A	X	120.272	4.45
41	MP3A	Z	0	4.45
42	MP3A	Mx	-.06	4.45
43	MP3B	X	165.664	.95
44	MP3B	Z	0	.95
45	MP3B	Mx	.041	.95
46	MP3B	X	165.664	4.45
47	MP3B	Z	0	4.45
48	MP3B	Mx	.041	4.45
49	MP3C	X	165.664	.95
50	MP3C	Z	0	.95
51	MP3C	Mx	.041	.95
52	MP3C	X	165.664	4.45
53	MP3C	Z	0	4.45
54	MP3C	Mx	.041	4.45
55	M98	X	98.279	1
56	M98	Z	0	1
57	M98	Mx	0	1
58	MP3A	X	48.969	2.7
59	MP3A	Z	0	2.7
60	MP3A	Mx	.024	2.7
61	MP3B	X	67.186	2.7
62	MP3B	Z	0	2.7
63	MP3B	Mx	-.017	2.7
64	MP3C	X	67.186	2.7
65	MP3C	Z	0	2.7
66	MP3C	Mx	-.017	2.7
67	MP2A	X	39.665	2.7
68	MP2A	Z	0	2.7
69	MP2A	Mx	.02	2.7
70	MP2B	X	64.86	2.7
71	MP2B	Z	0	2.7
72	MP2B	Mx	-.016	2.7
73	MP2C	X	64.86	2.7
74	MP2C	Z	0	2.7
75	MP2C	Mx	-.016	2.7
76	MP2A	X	104.631	.95
77	MP2A	Z	0	.95
78	MP2A	Mx	-.052	.95
79	MP2A	X	104.631	4.45
80	MP2A	Z	0	4.45
81	MP2A	Mx	-.052	4.45
82	MP2B	X	144.419	.95
83	MP2B	Z	0	.95

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
84	MP2B	Mx	.119	.95
85	MP2B	X	144.419	4.45
86	MP2B	Z	0	4.45
87	MP2B	Mx	.119	4.45
88	MP2C	X	144.419	.95
89	MP2C	Z	0	.95
90	MP2C	Mx	-.047	.95
91	MP2C	X	144.419	4.45
92	MP2C	Z	0	4.45
93	MP2C	Mx	-.047	4.45
94	MP4A	X	19.63	2.7
95	MP4A	Z	0	2.7
96	MP4A	Mx	-.005	2.7
97	MP4B	X	34.289	2.7
98	MP4B	Z	0	2.7
99	MP4B	Mx	.004	2.7
100	MP4C	X	34.289	2.7
101	MP4C	Z	0	2.7
102	MP4C	Mx	.004	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	43.342	1.7
2	MP1A	Z	25.024	1.7
3	MP1A	Mx	-.022	1.7
4	MP1A	X	43.342	3.7
5	MP1A	Z	25.024	3.7
6	MP1A	Mx	-.022	3.7
7	MP1B	X	79.728	1.7
8	MP1B	Z	46.031	1.7
9	MP1B	Mx	0	1.7
10	MP1B	X	79.728	3.7
11	MP1B	Z	46.031	3.7
12	MP1B	Mx	0	3.7
13	MP1C	X	43.342	1.7
14	MP1C	Z	25.024	1.7
15	MP1C	Mx	.022	1.7
16	MP1C	X	43.342	3.7
17	MP1C	Z	25.024	3.7
18	MP1C	Mx	.022	3.7
19	MP2A	X	102.226	.95
20	MP2A	Z	59.02	.95
21	MP2A	Mx	-.012	.95
22	MP2A	X	102.226	4.45
23	MP2A	Z	59.02	4.45
24	MP2A	Mx	-.012	4.45
25	MP2B	X	137.065	.95
26	MP2B	Z	79.135	.95
27	MP2B	Mx	-.106	.95
28	MP2B	X	137.065	4.45
29	MP2B	Z	79.135	4.45
30	MP2B	Mx	-.106	4.45
31	MP2C	X	102.226	.95
32	MP2C	Z	59.02	.95
33	MP2C	Mx	.09	.95
34	MP2C	X	102.226	4.45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP2C	Z	59.02	4.45
36	MP2C	Mx	.09	4.45
37	MP3A	X	117.262	.95
38	MP3A	Z	67.701	.95
39	MP3A	Mx	-.059	.95
40	MP3A	X	117.262	4.45
41	MP3A	Z	67.701	4.45
42	MP3A	Mx	-.059	4.45
43	MP3B	X	156.573	.95
44	MP3B	Z	90.397	.95
45	MP3B	Mx	0	.95
46	MP3B	X	156.573	4.45
47	MP3B	Z	90.397	4.45
48	MP3B	Mx	0	4.45
49	MP3C	X	117.262	.95
50	MP3C	Z	67.701	.95
51	MP3C	Mx	.059	.95
52	MP3C	X	117.262	4.45
53	MP3C	Z	67.701	4.45
54	MP3C	Mx	.059	4.45
55	M98	X	95.98	1
56	M98	Z	55.414	1
57	M98	Mx	0	1
58	MP3A	X	47.667	2.7
59	MP3A	Z	27.521	2.7
60	MP3A	Mx	.024	2.7
61	MP3B	X	63.443	2.7
62	MP3B	Z	36.629	2.7
63	MP3B	Mx	0	2.7
64	MP3C	X	47.667	2.7
65	MP3C	Z	27.521	2.7
66	MP3C	Mx	-.024	2.7
67	MP2A	X	41.624	2.7
68	MP2A	Z	24.032	2.7
69	MP2A	Mx	.021	2.7
70	MP2B	X	63.443	2.7
71	MP2B	Z	36.629	2.7
72	MP2B	Mx	0	2.7
73	MP2C	X	41.624	2.7
74	MP2C	Z	24.032	2.7
75	MP2C	Mx	-.021	2.7
76	MP2A	X	102.099	.95
77	MP2A	Z	58.947	.95
78	MP2A	Mx	-.09	.95
79	MP2A	X	102.099	4.45
80	MP2A	Z	58.947	4.45
81	MP2A	Mx	-.09	4.45
82	MP2B	X	136.556	.95
83	MP2B	Z	78.841	.95
84	MP2B	Mx	.105	.95
85	MP2B	X	136.556	4.45
86	MP2B	Z	78.841	4.45
87	MP2B	Mx	.105	4.45
88	MP2C	X	102.099	.95
89	MP2C	Z	58.947	.95
90	MP2C	Mx	.012	.95
91	MP2C	X	102.099	4.45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
92	MP2C	Z	58.947	4.45
93	MP2C	Mx	.012	4.45
94	MP4A	X	21.232	2.7
95	MP4A	Z	12.258	2.7
96	MP4A	Mx	-.005	2.7
97	MP4B	X	33.927	2.7
98	MP4B	Z	19.588	2.7
99	MP4B	Mx	0	2.7
100	MP4C	X	21.232	2.7
101	MP4C	Z	12.258	2.7
102	MP4C	Mx	.005	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	39.029	1.7
2	MP1A	Z	67.6	1.7
3	MP1A	Mx	-.02	1.7
4	MP1A	X	39.029	3.7
5	MP1A	Z	67.6	3.7
6	MP1A	Mx	-.02	3.7
7	MP1B	X	39.029	1.7
8	MP1B	Z	67.6	1.7
9	MP1B	Mx	-.02	1.7
10	MP1B	X	39.029	3.7
11	MP1B	Z	67.6	3.7
12	MP1B	Mx	-.02	3.7
13	MP1C	X	18.021	1.7
14	MP1C	Z	31.214	1.7
15	MP1C	Mx	.018	1.7
16	MP1C	X	18.021	3.7
17	MP1C	Z	31.214	3.7
18	MP1C	Mx	.018	3.7
19	MP2A	X	72.43	.95
20	MP2A	Z	125.452	.95
21	MP2A	Mx	.047	.95
22	MP2A	X	72.43	4.45
23	MP2A	Z	125.452	4.45
24	MP2A	Mx	.047	4.45
25	MP2B	X	72.43	.95
26	MP2B	Z	125.452	.95
27	MP2B	Mx	-.12	.95
28	MP2B	X	72.43	4.45
29	MP2B	Z	125.452	4.45
30	MP2B	Mx	-.12	4.45
31	MP2C	X	52.316	.95
32	MP2C	Z	90.613	.95
33	MP2C	Mx	.052	.95
34	MP2C	X	52.316	4.45
35	MP2C	Z	90.613	4.45
36	MP2C	Mx	.052	4.45
37	MP3A	X	82.832	.95
38	MP3A	Z	143.469	.95
39	MP3A	Mx	-.041	.95
40	MP3A	X	82.832	4.45
41	MP3A	Z	143.469	4.45
42	MP3A	Mx	-.041	4.45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
43	MP3B	X	82.832	.95
44	MP3B	Z	143.469	.95
45	MP3B	Mx	-.041	.95
46	MP3B	X	82.832	4.45
47	MP3B	Z	143.469	4.45
48	MP3B	Mx	-.041	4.45
49	MP3C	X	60.136	.95
50	MP3C	Z	104.158	.95
51	MP3C	Mx	.06	.95
52	MP3C	X	60.136	4.45
53	MP3C	Z	104.158	4.45
54	MP3C	Mx	.06	4.45
55	M98	X	67.963	1
56	M98	Z	117.715	1
57	M98	Mx	0	1
58	MP3A	X	33.593	2.7
59	MP3A	Z	58.185	2.7
60	MP3A	Mx	.017	2.7
61	MP3B	X	33.593	2.7
62	MP3B	Z	58.185	2.7
63	MP3B	Mx	.017	2.7
64	MP3C	X	24.485	2.7
65	MP3C	Z	42.409	2.7
66	MP3C	Mx	-.024	2.7
67	MP2A	X	32.43	2.7
68	MP2A	Z	56.17	2.7
69	MP2A	Mx	.016	2.7
70	MP2B	X	32.43	2.7
71	MP2B	Z	56.17	2.7
72	MP2B	Mx	.016	2.7
73	MP2C	X	19.833	2.7
74	MP2C	Z	34.351	2.7
75	MP2C	Mx	-.02	2.7
76	MP2A	X	72.209	.95
77	MP2A	Z	125.07	.95
78	MP2A	Mx	-.119	.95
79	MP2A	X	72.209	4.45
80	MP2A	Z	125.07	4.45
81	MP2A	Mx	-.119	4.45
82	MP2B	X	72.209	.95
83	MP2B	Z	125.07	.95
84	MP2B	Mx	.047	.95
85	MP2B	X	72.209	4.45
86	MP2B	Z	125.07	4.45
87	MP2B	Mx	.047	4.45
88	MP2C	X	52.316	.95
89	MP2C	Z	90.613	.95
90	MP2C	Mx	.052	.95
91	MP2C	X	52.316	4.45
92	MP2C	Z	90.613	4.45
93	MP2C	Mx	.052	4.45
94	MP4A	X	17.145	2.7
95	MP4A	Z	29.695	2.7
96	MP4A	Mx	-.004	2.7
97	MP4B	X	17.145	2.7
98	MP4B	Z	29.695	2.7
99	MP4B	Mx	-.004	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
100	MP4C	X	9.815	2.7
101	MP4C	Z	17	2.7
102	MP4C	Mx	.005	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	1.7
2	MP1A	Z	92.062	1.7
3	MP1A	Mx	0	1.7
4	MP1A	X	0	3.7
5	MP1A	Z	92.062	3.7
6	MP1A	Mx	0	3.7
7	MP1B	X	0	1.7
8	MP1B	Z	50.047	1.7
9	MP1B	Mx	-.022	1.7
10	MP1B	X	0	3.7
11	MP1B	Z	50.047	3.7
12	MP1B	Mx	-.022	3.7
13	MP1C	X	0	1.7
14	MP1C	Z	50.047	1.7
15	MP1C	Mx	.022	1.7
16	MP1C	X	0	3.7
17	MP1C	Z	50.047	3.7
18	MP1C	Mx	.022	3.7
19	MP2A	X	0	.95
20	MP2A	Z	158.269	.95
21	MP2A	Mx	.106	.95
22	MP2A	X	0	4.45
23	MP2A	Z	158.269	4.45
24	MP2A	Mx	.106	4.45
25	MP2B	X	0	.95
26	MP2B	Z	118.041	.95
27	MP2B	Mx	-.09	.95
28	MP2B	X	0	4.45
29	MP2B	Z	118.041	4.45
30	MP2B	Mx	-.09	4.45
31	MP2C	X	0	.95
32	MP2C	Z	118.041	.95
33	MP2C	Mx	.012	.95
34	MP2C	X	0	4.45
35	MP2C	Z	118.041	4.45
36	MP2C	Mx	.012	4.45
37	MP3A	X	0	.95
38	MP3A	Z	180.795	.95
39	MP3A	Mx	0	.95
40	MP3A	X	0	4.45
41	MP3A	Z	180.795	4.45
42	MP3A	Mx	0	4.45
43	MP3B	X	0	.95
44	MP3B	Z	135.403	.95
45	MP3B	Mx	-.059	.95
46	MP3B	X	0	4.45
47	MP3B	Z	135.403	4.45
48	MP3B	Mx	-.059	4.45
49	MP3C	X	0	.95
50	MP3C	Z	135.403	.95

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
51	MP3C	Mx	.059	.95
52	MP3C	X	0	4.45
53	MP3C	Z	135.403	4.45
54	MP3C	Mx	.059	4.45
55	M98	X	0	1
56	M98	Z	148.475	1
57	M98	Mx	0	1
58	MP3A	X	0	2.7
59	MP3A	Z	73.258	2.7
60	MP3A	Mx	0	2.7
61	MP3B	X	0	2.7
62	MP3B	Z	55.042	2.7
63	MP3B	Mx	.024	2.7
64	MP3C	X	0	2.7
65	MP3C	Z	55.042	2.7
66	MP3C	Mx	-.024	2.7
67	MP2A	X	0	2.7
68	MP2A	Z	73.258	2.7
69	MP2A	Mx	0	2.7
70	MP2B	X	0	2.7
71	MP2B	Z	48.063	2.7
72	MP2B	Mx	.021	2.7
73	MP2C	X	0	2.7
74	MP2C	Z	48.063	2.7
75	MP2C	Mx	-.021	2.7
76	MP2A	X	0	.95
77	MP2A	Z	157.681	.95
78	MP2A	Mx	-.105	.95
79	MP2A	X	0	4.45
80	MP2A	Z	157.681	4.45
81	MP2A	Mx	-.105	4.45
82	MP2B	X	0	.95
83	MP2B	Z	117.894	.95
84	MP2B	Mx	-.012	.95
85	MP2B	X	0	4.45
86	MP2B	Z	117.894	4.45
87	MP2B	Mx	-.012	4.45
88	MP2C	X	0	.95
89	MP2C	Z	117.894	.95
90	MP2C	Mx	.09	.95
91	MP2C	X	0	4.45
92	MP2C	Z	117.894	4.45
93	MP2C	Mx	.09	4.45
94	MP4A	X	0	2.7
95	MP4A	Z	39.175	2.7
96	MP4A	Mx	0	2.7
97	MP4B	X	0	2.7
98	MP4B	Z	24.517	2.7
99	MP4B	Mx	-.005	2.7
100	MP4C	X	0	2.7
101	MP4C	Z	24.517	2.7
102	MP4C	Mx	.005	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-39.029	1.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
2	MP1A	Z	67.6	1.7
3	MP1A	Mx	.02	1.7
4	MP1A	X	-39.029	3.7
5	MP1A	Z	67.6	3.7
6	MP1A	Mx	.02	3.7
7	MP1B	X	-18.021	1.7
8	MP1B	Z	31.214	1.7
9	MP1B	Mx	-.018	1.7
10	MP1B	X	-18.021	3.7
11	MP1B	Z	31.214	3.7
12	MP1B	Mx	-.018	3.7
13	MP1C	X	-39.029	1.7
14	MP1C	Z	67.6	1.7
15	MP1C	Mx	.02	1.7
16	MP1C	X	-39.029	3.7
17	MP1C	Z	67.6	3.7
18	MP1C	Mx	.02	3.7
19	MP2A	X	-72.43	.95
20	MP2A	Z	125.452	.95
21	MP2A	Mx	.12	.95
22	MP2A	X	-72.43	4.45
23	MP2A	Z	125.452	4.45
24	MP2A	Mx	.12	4.45
25	MP2B	X	-52.316	.95
26	MP2B	Z	90.613	.95
27	MP2B	Mx	-.052	.95
28	MP2B	X	-52.316	4.45
29	MP2B	Z	90.613	4.45
30	MP2B	Mx	-.052	4.45
31	MP2C	X	-72.43	.95
32	MP2C	Z	125.452	.95
33	MP2C	Mx	-.047	.95
34	MP2C	X	-72.43	4.45
35	MP2C	Z	125.452	4.45
36	MP2C	Mx	-.047	4.45
37	MP3A	X	-82.832	.95
38	MP3A	Z	143.469	.95
39	MP3A	Mx	.041	.95
40	MP3A	X	-82.832	4.45
41	MP3A	Z	143.469	4.45
42	MP3A	Mx	.041	4.45
43	MP3B	X	-60.136	.95
44	MP3B	Z	104.158	.95
45	MP3B	Mx	-.06	.95
46	MP3B	X	-60.136	4.45
47	MP3B	Z	104.158	4.45
48	MP3B	Mx	-.06	4.45
49	MP3C	X	-82.832	.95
50	MP3C	Z	143.469	.95
51	MP3C	Mx	.041	.95
52	MP3C	X	-82.832	4.45
53	MP3C	Z	143.469	4.45
54	MP3C	Mx	.041	4.45
55	M98	X	-67.963	1
56	M98	Z	117.715	1
57	M98	Mx	0	1
58	MP3A	X	-33.593	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
59	MP3A	Z	58.185	2.7
60	MP3A	Mx	-.017	2.7
61	MP3B	X	-24.485	2.7
62	MP3B	Z	42.409	2.7
63	MP3B	Mx	.024	2.7
64	MP3C	X	-33.593	2.7
65	MP3C	Z	58.185	2.7
66	MP3C	Mx	-.017	2.7
67	MP2A	X	-32.43	2.7
68	MP2A	Z	56.17	2.7
69	MP2A	Mx	-.016	2.7
70	MP2B	X	-19.833	2.7
71	MP2B	Z	34.351	2.7
72	MP2B	Mx	.02	2.7
73	MP2C	X	-32.43	2.7
74	MP2C	Z	56.17	2.7
75	MP2C	Mx	-.016	2.7
76	MP2A	X	-72.209	.95
77	MP2A	Z	125.07	.95
78	MP2A	Mx	-.047	.95
79	MP2A	X	-72.209	4.45
80	MP2A	Z	125.07	4.45
81	MP2A	Mx	-.047	4.45
82	MP2B	X	-52.316	.95
83	MP2B	Z	90.613	.95
84	MP2B	Mx	-.052	.95
85	MP2B	X	-52.316	4.45
86	MP2B	Z	90.613	4.45
87	MP2B	Mx	-.052	4.45
88	MP2C	X	-72.209	.95
89	MP2C	Z	125.07	.95
90	MP2C	Mx	.119	.95
91	MP2C	X	-72.209	4.45
92	MP2C	Z	125.07	4.45
93	MP2C	Mx	.119	4.45
94	MP4A	X	-17.145	2.7
95	MP4A	Z	29.695	2.7
96	MP4A	Mx	.004	2.7
97	MP4B	X	-9.815	2.7
98	MP4B	Z	17	2.7
99	MP4B	Mx	-.005	2.7
100	MP4C	X	-17.145	2.7
101	MP4C	Z	29.695	2.7
102	MP4C	Mx	.004	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-43.342	1.7
2	MP1A	Z	25.024	1.7
3	MP1A	Mx	.022	1.7
4	MP1A	X	-43.342	3.7
5	MP1A	Z	25.024	3.7
6	MP1A	Mx	.022	3.7
7	MP1B	X	-43.342	1.7
8	MP1B	Z	25.024	1.7
9	MP1B	Mx	-.022	1.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP1B	X	-43.342	3.7
11	MP1B	Z	25.024	3.7
12	MP1B	Mx	-.022	3.7
13	MP1C	X	-79.728	1.7
14	MP1C	Z	46.031	1.7
15	MP1C	Mx	0	1.7
16	MP1C	X	-79.728	3.7
17	MP1C	Z	46.031	3.7
18	MP1C	Mx	0	3.7
19	MP2A	X	-102.226	.95
20	MP2A	Z	59.02	.95
21	MP2A	Mx	.09	.95
22	MP2A	X	-102.226	4.45
23	MP2A	Z	59.02	4.45
24	MP2A	Mx	.09	4.45
25	MP2B	X	-102.226	.95
26	MP2B	Z	59.02	.95
27	MP2B	Mx	-.012	.95
28	MP2B	X	-102.226	4.45
29	MP2B	Z	59.02	4.45
30	MP2B	Mx	-.012	4.45
31	MP2C	X	-137.065	.95
32	MP2C	Z	79.135	.95
33	MP2C	Mx	-.106	.95
34	MP2C	X	-137.065	4.45
35	MP2C	Z	79.135	4.45
36	MP2C	Mx	-.106	4.45
37	MP3A	X	-117.262	.95
38	MP3A	Z	67.701	.95
39	MP3A	Mx	.059	.95
40	MP3A	X	-117.262	4.45
41	MP3A	Z	67.701	4.45
42	MP3A	Mx	.059	4.45
43	MP3B	X	-117.262	.95
44	MP3B	Z	67.701	.95
45	MP3B	Mx	-.059	.95
46	MP3B	X	-117.262	4.45
47	MP3B	Z	67.701	4.45
48	MP3B	Mx	-.059	4.45
49	MP3C	X	-156.573	.95
50	MP3C	Z	90.397	.95
51	MP3C	Mx	0	.95
52	MP3C	X	-156.573	4.45
53	MP3C	Z	90.397	4.45
54	MP3C	Mx	0	4.45
55	M98	X	-95.98	1
56	M98	Z	55.414	1
57	M98	Mx	0	1
58	MP3A	X	-47.667	2.7
59	MP3A	Z	27.521	2.7
60	MP3A	Mx	-.024	2.7
61	MP3B	X	-47.667	2.7
62	MP3B	Z	27.521	2.7
63	MP3B	Mx	.024	2.7
64	MP3C	X	-63.443	2.7
65	MP3C	Z	36.629	2.7
66	MP3C	Mx	0	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
67	MP2A	X	-41.624	2.7
68	MP2A	Z	24.032	2.7
69	MP2A	Mx	-.021	2.7
70	MP2B	X	-41.624	2.7
71	MP2B	Z	24.032	2.7
72	MP2B	Mx	.021	2.7
73	MP2C	X	-63.443	2.7
74	MP2C	Z	36.629	2.7
75	MP2C	Mx	0	2.7
76	MP2A	X	-102.099	.95
77	MP2A	Z	58.947	.95
78	MP2A	Mx	.012	.95
79	MP2A	X	-102.099	4.45
80	MP2A	Z	58.947	4.45
81	MP2A	Mx	.012	4.45
82	MP2B	X	-102.099	.95
83	MP2B	Z	58.947	.95
84	MP2B	Mx	-.09	.95
85	MP2B	X	-102.099	4.45
86	MP2B	Z	58.947	4.45
87	MP2B	Mx	-.09	4.45
88	MP2C	X	-136.556	.95
89	MP2C	Z	78.841	.95
90	MP2C	Mx	.105	.95
91	MP2C	X	-136.556	4.45
92	MP2C	Z	78.841	4.45
93	MP2C	Mx	.105	4.45
94	MP4A	X	-21.232	2.7
95	MP4A	Z	12.258	2.7
96	MP4A	Mx	.005	2.7
97	MP4B	X	-21.232	2.7
98	MP4B	Z	12.258	2.7
99	MP4B	Mx	-.005	2.7
100	MP4C	X	-33.927	2.7
101	MP4C	Z	19.588	2.7
102	MP4C	Mx	0	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-36.042	1.7
2	MP1A	Z	0	1.7
3	MP1A	Mx	.018	1.7
4	MP1A	X	-36.042	3.7
5	MP1A	Z	0	3.7
6	MP1A	Mx	.018	3.7
7	MP1B	X	-78.057	1.7
8	MP1B	Z	0	1.7
9	MP1B	Mx	-.02	1.7
10	MP1B	X	-78.057	3.7
11	MP1B	Z	0	3.7
12	MP1B	Mx	-.02	3.7
13	MP1C	X	-78.057	1.7
14	MP1C	Z	0	1.7
15	MP1C	Mx	-.02	1.7
16	MP1C	X	-78.057	3.7
17	MP1C	Z	0	3.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP1C	Mx	-.02	3.7
19	MP2A	X	-104.631	.95
20	MP2A	Z	0	.95
21	MP2A	Mx	.052	.95
22	MP2A	X	-104.631	4.45
23	MP2A	Z	0	4.45
24	MP2A	Mx	.052	4.45
25	MP2B	X	-144.86	.95
26	MP2B	Z	0	.95
27	MP2B	Mx	.047	.95
28	MP2B	X	-144.86	4.45
29	MP2B	Z	0	4.45
30	MP2B	Mx	.047	4.45
31	MP2C	X	-144.86	.95
32	MP2C	Z	0	.95
33	MP2C	Mx	-.12	.95
34	MP2C	X	-144.86	4.45
35	MP2C	Z	0	4.45
36	MP2C	Mx	-.12	4.45
37	MP3A	X	-120.272	.95
38	MP3A	Z	0	.95
39	MP3A	Mx	.06	.95
40	MP3A	X	-120.272	4.45
41	MP3A	Z	0	4.45
42	MP3A	Mx	.06	4.45
43	MP3B	X	-165.664	.95
44	MP3B	Z	0	.95
45	MP3B	Mx	-.041	.95
46	MP3B	X	-165.664	4.45
47	MP3B	Z	0	4.45
48	MP3B	Mx	-.041	4.45
49	MP3C	X	-165.664	.95
50	MP3C	Z	0	.95
51	MP3C	Mx	-.041	.95
52	MP3C	X	-165.664	4.45
53	MP3C	Z	0	4.45
54	MP3C	Mx	-.041	4.45
55	M98	X	-98.279	1
56	M98	Z	0	1
57	M98	Mx	0	1
58	MP3A	X	-48.969	2.7
59	MP3A	Z	0	2.7
60	MP3A	Mx	-.024	2.7
61	MP3B	X	-67.186	2.7
62	MP3B	Z	0	2.7
63	MP3B	Mx	.017	2.7
64	MP3C	X	-67.186	2.7
65	MP3C	Z	0	2.7
66	MP3C	Mx	.017	2.7
67	MP2A	X	-39.665	2.7
68	MP2A	Z	0	2.7
69	MP2A	Mx	-.02	2.7
70	MP2B	X	-64.86	2.7
71	MP2B	Z	0	2.7
72	MP2B	Mx	.016	2.7
73	MP2C	X	-64.86	2.7
74	MP2C	Z	0	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	MP2C	Mx	.016	2.7
76	MP2A	X	-104.631	.95
77	MP2A	Z	0	.95
78	MP2A	Mx	.052	.95
79	MP2A	X	-104.631	4.45
80	MP2A	Z	0	4.45
81	MP2A	Mx	.052	4.45
82	MP2B	X	-144.419	.95
83	MP2B	Z	0	.95
84	MP2B	Mx	-.119	.95
85	MP2B	X	-144.419	4.45
86	MP2B	Z	0	4.45
87	MP2B	Mx	-.119	4.45
88	MP2C	X	-144.419	.95
89	MP2C	Z	0	.95
90	MP2C	Mx	.047	.95
91	MP2C	X	-144.419	4.45
92	MP2C	Z	0	4.45
93	MP2C	Mx	.047	4.45
94	MP4A	X	-19.63	2.7
95	MP4A	Z	0	2.7
96	MP4A	Mx	.005	2.7
97	MP4B	X	-34.289	2.7
98	MP4B	Z	0	2.7
99	MP4B	Mx	-.004	2.7
100	MP4C	X	-34.289	2.7
101	MP4C	Z	0	2.7
102	MP4C	Mx	-.004	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-43.342	1.7
2	MP1A	Z	-25.024	1.7
3	MP1A	Mx	.022	1.7
4	MP1A	X	-43.342	3.7
5	MP1A	Z	-25.024	3.7
6	MP1A	Mx	.022	3.7
7	MP1B	X	-79.728	1.7
8	MP1B	Z	-46.031	1.7
9	MP1B	Mx	0	1.7
10	MP1B	X	-79.728	3.7
11	MP1B	Z	-46.031	3.7
12	MP1B	Mx	0	3.7
13	MP1C	X	-43.342	1.7
14	MP1C	Z	-25.024	1.7
15	MP1C	Mx	-.022	1.7
16	MP1C	X	-43.342	3.7
17	MP1C	Z	-25.024	3.7
18	MP1C	Mx	-.022	3.7
19	MP2A	X	-102.226	.95
20	MP2A	Z	-59.02	.95
21	MP2A	Mx	.012	.95
22	MP2A	X	-102.226	4.45
23	MP2A	Z	-59.02	4.45
24	MP2A	Mx	.012	4.45
25	MP2B	X	-137.065	.95

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP2B	Z	-79.135	.95
27	MP2B	Mx	.106	.95
28	MP2B	X	-137.065	4.45
29	MP2B	Z	-79.135	4.45
30	MP2B	Mx	.106	4.45
31	MP2C	X	-102.226	.95
32	MP2C	Z	-59.02	.95
33	MP2C	Mx	-.09	.95
34	MP2C	X	-102.226	4.45
35	MP2C	Z	-59.02	4.45
36	MP2C	Mx	-.09	4.45
37	MP3A	X	-117.262	.95
38	MP3A	Z	-67.701	.95
39	MP3A	Mx	.059	.95
40	MP3A	X	-117.262	4.45
41	MP3A	Z	-67.701	4.45
42	MP3A	Mx	.059	4.45
43	MP3B	X	-156.573	.95
44	MP3B	Z	-90.397	.95
45	MP3B	Mx	0	.95
46	MP3B	X	-156.573	4.45
47	MP3B	Z	-90.397	4.45
48	MP3B	Mx	0	4.45
49	MP3C	X	-117.262	.95
50	MP3C	Z	-67.701	.95
51	MP3C	Mx	-.059	.95
52	MP3C	X	-117.262	4.45
53	MP3C	Z	-67.701	4.45
54	MP3C	Mx	-.059	4.45
55	M98	X	-95.98	1
56	M98	Z	-55.414	1
57	M98	Mx	0	1
58	MP3A	X	-47.667	2.7
59	MP3A	Z	-27.521	2.7
60	MP3A	Mx	-.024	2.7
61	MP3B	X	-63.443	2.7
62	MP3B	Z	-36.629	2.7
63	MP3B	Mx	0	2.7
64	MP3C	X	-47.667	2.7
65	MP3C	Z	-27.521	2.7
66	MP3C	Mx	.024	2.7
67	MP2A	X	-41.624	2.7
68	MP2A	Z	-24.032	2.7
69	MP2A	Mx	-.021	2.7
70	MP2B	X	-63.443	2.7
71	MP2B	Z	-36.629	2.7
72	MP2B	Mx	0	2.7
73	MP2C	X	-41.624	2.7
74	MP2C	Z	-24.032	2.7
75	MP2C	Mx	.021	2.7
76	MP2A	X	-102.099	.95
77	MP2A	Z	-58.947	.95
78	MP2A	Mx	.09	.95
79	MP2A	X	-102.099	4.45
80	MP2A	Z	-58.947	4.45
81	MP2A	Mx	.09	4.45
82	MP2B	X	-136.556	.95

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP2B	Z	-78.841	.95
84	MP2B	Mx	-.105	.95
85	MP2B	X	-136.556	4.45
86	MP2B	Z	-78.841	4.45
87	MP2B	Mx	-.105	4.45
88	MP2C	X	-102.099	.95
89	MP2C	Z	-58.947	.95
90	MP2C	Mx	-.012	.95
91	MP2C	X	-102.099	4.45
92	MP2C	Z	-58.947	4.45
93	MP2C	Mx	-.012	4.45
94	MP4A	X	-21.232	2.7
95	MP4A	Z	-12.258	2.7
96	MP4A	Mx	.005	2.7
97	MP4B	X	-33.927	2.7
98	MP4B	Z	-19.588	2.7
99	MP4B	Mx	0	2.7
100	MP4C	X	-21.232	2.7
101	MP4C	Z	-12.258	2.7
102	MP4C	Mx	-.005	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-39.029	1.7
2	MP1A	Z	-67.6	1.7
3	MP1A	Mx	.02	1.7
4	MP1A	X	-39.029	3.7
5	MP1A	Z	-67.6	3.7
6	MP1A	Mx	.02	3.7
7	MP1B	X	-39.029	1.7
8	MP1B	Z	-67.6	1.7
9	MP1B	Mx	.02	1.7
10	MP1B	X	-39.029	3.7
11	MP1B	Z	-67.6	3.7
12	MP1B	Mx	.02	3.7
13	MP1C	X	-18.021	1.7
14	MP1C	Z	-31.214	1.7
15	MP1C	Mx	-.018	1.7
16	MP1C	X	-18.021	3.7
17	MP1C	Z	-31.214	3.7
18	MP1C	Mx	-.018	3.7
19	MP2A	X	-72.43	.95
20	MP2A	Z	-125.452	.95
21	MP2A	Mx	-.047	.95
22	MP2A	X	-72.43	4.45
23	MP2A	Z	-125.452	4.45
24	MP2A	Mx	-.047	4.45
25	MP2B	X	-72.43	.95
26	MP2B	Z	-125.452	.95
27	MP2B	Mx	.12	.95
28	MP2B	X	-72.43	4.45
29	MP2B	Z	-125.452	4.45
30	MP2B	Mx	.12	4.45
31	MP2C	X	-52.316	.95
32	MP2C	Z	-90.613	.95
33	MP2C	Mx	-.052	.95

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP2C	X	-52.316	4.45
35	MP2C	Z	-90.613	4.45
36	MP2C	Mx	-.052	4.45
37	MP3A	X	-82.832	.95
38	MP3A	Z	-143.469	.95
39	MP3A	Mx	.041	.95
40	MP3A	X	-82.832	4.45
41	MP3A	Z	-143.469	4.45
42	MP3A	Mx	.041	4.45
43	MP3B	X	-82.832	.95
44	MP3B	Z	-143.469	.95
45	MP3B	Mx	.041	.95
46	MP3B	X	-82.832	4.45
47	MP3B	Z	-143.469	4.45
48	MP3B	Mx	.041	4.45
49	MP3C	X	-60.136	.95
50	MP3C	Z	-104.158	.95
51	MP3C	Mx	-.06	.95
52	MP3C	X	-60.136	4.45
53	MP3C	Z	-104.158	4.45
54	MP3C	Mx	-.06	4.45
55	M98	X	-67.963	1
56	M98	Z	-117.715	1
57	M98	Mx	0	1
58	MP3A	X	-33.593	2.7
59	MP3A	Z	-58.185	2.7
60	MP3A	Mx	-.017	2.7
61	MP3B	X	-33.593	2.7
62	MP3B	Z	-58.185	2.7
63	MP3B	Mx	-.017	2.7
64	MP3C	X	-24.485	2.7
65	MP3C	Z	-42.409	2.7
66	MP3C	Mx	.024	2.7
67	MP2A	X	-32.43	2.7
68	MP2A	Z	-56.17	2.7
69	MP2A	Mx	-.016	2.7
70	MP2B	X	-32.43	2.7
71	MP2B	Z	-56.17	2.7
72	MP2B	Mx	-.016	2.7
73	MP2C	X	-19.833	2.7
74	MP2C	Z	-34.351	2.7
75	MP2C	Mx	.02	2.7
76	MP2A	X	-72.209	.95
77	MP2A	Z	-125.07	.95
78	MP2A	Mx	.119	.95
79	MP2A	X	-72.209	4.45
80	MP2A	Z	-125.07	4.45
81	MP2A	Mx	.119	4.45
82	MP2B	X	-72.209	.95
83	MP2B	Z	-125.07	.95
84	MP2B	Mx	-.047	.95
85	MP2B	X	-72.209	4.45
86	MP2B	Z	-125.07	4.45
87	MP2B	Mx	-.047	4.45
88	MP2C	X	-52.316	.95
89	MP2C	Z	-90.613	.95
90	MP2C	Mx	-.052	.95

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
91	MP2C	X	-52.316	4.45
92	MP2C	Z	-90.613	4.45
93	MP2C	Mx	-.052	4.45
94	MP4A	X	-17.145	2.7
95	MP4A	Z	-29.695	2.7
96	MP4A	Mx	.004	2.7
97	MP4B	X	-17.145	2.7
98	MP4B	Z	-29.695	2.7
99	MP4B	Mx	.004	2.7
100	MP4C	X	-9.815	2.7
101	MP4C	Z	-17	2.7
102	MP4C	Mx	-.005	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	1.7
2	MP1A	Z	-20.861	1.7
3	MP1A	Mx	0	1.7
4	MP1A	X	0	3.7
5	MP1A	Z	-20.861	3.7
6	MP1A	Mx	0	3.7
7	MP1B	X	0	1.7
8	MP1B	Z	-12.168	1.7
9	MP1B	Mx	.005	1.7
10	MP1B	X	0	3.7
11	MP1B	Z	-12.168	3.7
12	MP1B	Mx	.005	3.7
13	MP1C	X	0	1.7
14	MP1C	Z	-12.168	1.7
15	MP1C	Mx	-.005	1.7
16	MP1C	X	0	3.7
17	MP1C	Z	-12.168	3.7
18	MP1C	Mx	-.005	3.7
19	MP2A	X	0	.95
20	MP2A	Z	-34.685	.95
21	MP2A	Mx	-.023	.95
22	MP2A	X	0	4.45
23	MP2A	Z	-34.685	4.45
24	MP2A	Mx	-.023	4.45
25	MP2B	X	0	.95
26	MP2B	Z	-26.966	.95
27	MP2B	Mx	.021	.95
28	MP2B	X	0	4.45
29	MP2B	Z	-26.966	4.45
30	MP2B	Mx	.021	4.45
31	MP2C	X	0	.95
32	MP2C	Z	-26.966	.95
33	MP2C	Mx	-.003	.95
34	MP2C	X	0	4.45
35	MP2C	Z	-26.966	4.45
36	MP2C	Mx	-.003	4.45
37	MP3A	X	0	.95
38	MP3A	Z	-39.424	.95
39	MP3A	Mx	0	.95
40	MP3A	X	0	4.45
41	MP3A	Z	-39.424	4.45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
42	MP3A	Mx	0	4.45
43	MP3B	X	0	.95
44	MP3B	Z	-30.678	.95
45	MP3B	Mx	.013	.95
46	MP3B	X	0	4.45
47	MP3B	Z	-30.678	4.45
48	MP3B	Mx	.013	4.45
49	MP3C	X	0	.95
50	MP3C	Z	-30.678	.95
51	MP3C	Mx	-.013	.95
52	MP3C	X	0	4.45
53	MP3C	Z	-30.678	4.45
54	MP3C	Mx	-.013	4.45
55	M98	X	0	1
56	M98	Z	-34.022	1
57	M98	Mx	0	1
58	MP3A	X	0	2.7
59	MP3A	Z	-18.078	2.7
60	MP3A	Mx	0	2.7
61	MP3B	X	0	2.7
62	MP3B	Z	-14.137	2.7
63	MP3B	Mx	-.006	2.7
64	MP3C	X	0	2.7
65	MP3C	Z	-14.137	2.7
66	MP3C	Mx	.006	2.7
67	MP2A	X	0	2.7
68	MP2A	Z	-18.078	2.7
69	MP2A	Mx	0	2.7
70	MP2B	X	0	2.7
71	MP2B	Z	-12.639	2.7
72	MP2B	Mx	-.005	2.7
73	MP2C	X	0	2.7
74	MP2C	Z	-12.639	2.7
75	MP2C	Mx	.005	2.7
76	MP2A	X	0	.95
77	MP2A	Z	-34.685	.95
78	MP2A	Mx	.023	.95
79	MP2A	X	0	4.45
80	MP2A	Z	-34.685	4.45
81	MP2A	Mx	.023	4.45
82	MP2B	X	0	.95
83	MP2B	Z	-26.966	.95
84	MP2B	Mx	.003	.95
85	MP2B	X	0	4.45
86	MP2B	Z	-26.966	4.45
87	MP2B	Mx	.003	4.45
88	MP2C	X	0	.95
89	MP2C	Z	-26.966	.95
90	MP2C	Mx	-.021	.95
91	MP2C	X	0	4.45
92	MP2C	Z	-26.966	4.45
93	MP2C	Mx	-.021	4.45
94	MP4A	X	0	2.7
95	MP4A	Z	-10.63	2.7
96	MP4A	Mx	0	2.7
97	MP4B	X	0	2.7
98	MP4B	Z	-7.386	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
99	MP4B	Mx	.002	2.7
100	MP4C	X	0	2.7
101	MP4C	Z	-7.386	2.7
102	MP4C	Mx	-.002	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	8.982	1.7
2	MP1A	Z	-15.557	1.7
3	MP1A	Mx	-.004	1.7
4	MP1A	X	8.982	3.7
5	MP1A	Z	-15.557	3.7
6	MP1A	Mx	-.004	3.7
7	MP1B	X	4.635	1.7
8	MP1B	Z	-8.029	1.7
9	MP1B	Mx	.005	1.7
10	MP1B	X	4.635	3.7
11	MP1B	Z	-8.029	3.7
12	MP1B	Mx	.005	3.7
13	MP1C	X	8.982	1.7
14	MP1C	Z	-15.557	1.7
15	MP1C	Mx	-.004	1.7
16	MP1C	X	8.982	3.7
17	MP1C	Z	-15.557	3.7
18	MP1C	Mx	-.004	3.7
19	MP2A	X	16.056	.95
20	MP2A	Z	-27.81	.95
21	MP2A	Mx	-.027	.95
22	MP2A	X	16.056	4.45
23	MP2A	Z	-27.81	4.45
24	MP2A	Mx	-.027	4.45
25	MP2B	X	12.197	.95
26	MP2B	Z	-21.125	.95
27	MP2B	Mx	.012	.95
28	MP2B	X	12.197	4.45
29	MP2B	Z	-21.125	4.45
30	MP2B	Mx	.012	4.45
31	MP2C	X	16.056	.95
32	MP2C	Z	-27.81	.95
33	MP2C	Mx	.011	.95
34	MP2C	X	16.056	4.45
35	MP2C	Z	-27.81	4.45
36	MP2C	Mx	.011	4.45
37	MP3A	X	18.254	.95
38	MP3A	Z	-31.617	.95
39	MP3A	Mx	-.009	.95
40	MP3A	X	18.254	4.45
41	MP3A	Z	-31.617	4.45
42	MP3A	Mx	-.009	4.45
43	MP3B	X	13.881	.95
44	MP3B	Z	-24.043	.95
45	MP3B	Mx	.014	.95
46	MP3B	X	13.881	4.45
47	MP3B	Z	-24.043	4.45
48	MP3B	Mx	.014	4.45
49	MP3C	X	18.254	.95

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
50	MP3C	Z	-31.617	.95
51	MP3C	Mx	-.009	.95
52	MP3C	X	18.254	4.45
53	MP3C	Z	-31.617	4.45
54	MP3C	Mx	-.009	4.45
55	M98	X	15.723	1
56	M98	Z	-27.232	1
57	M98	Mx	0	1
58	MP3A	X	8.382	2.7
59	MP3A	Z	-14.518	2.7
60	MP3A	Mx	.004	2.7
61	MP3B	X	6.412	2.7
62	MP3B	Z	-11.105	2.7
63	MP3B	Mx	-.006	2.7
64	MP3C	X	8.382	2.7
65	MP3C	Z	-14.518	2.7
66	MP3C	Mx	.004	2.7
67	MP2A	X	8.133	2.7
68	MP2A	Z	-14.086	2.7
69	MP2A	Mx	.004	2.7
70	MP2B	X	5.413	2.7
71	MP2B	Z	-9.376	2.7
72	MP2B	Mx	-.005	2.7
73	MP2C	X	8.133	2.7
74	MP2C	Z	-14.086	2.7
75	MP2C	Mx	.004	2.7
76	MP2A	X	16.056	.95
77	MP2A	Z	-27.81	.95
78	MP2A	Mx	.011	.95
79	MP2A	X	16.056	4.45
80	MP2A	Z	-27.81	4.45
81	MP2A	Mx	.011	4.45
82	MP2B	X	12.197	.95
83	MP2B	Z	-21.125	.95
84	MP2B	Mx	.012	.95
85	MP2B	X	12.197	4.45
86	MP2B	Z	-21.125	4.45
87	MP2B	Mx	.012	4.45
88	MP2C	X	16.056	.95
89	MP2C	Z	-27.81	.95
90	MP2C	Mx	-.027	.95
91	MP2C	X	16.056	4.45
92	MP2C	Z	-27.81	4.45
93	MP2C	Mx	-.027	4.45
94	MP4A	X	4.775	2.7
95	MP4A	Z	-8.27	2.7
96	MP4A	Mx	-.001	2.7
97	MP4B	X	3.153	2.7
98	MP4B	Z	-5.46	2.7
99	MP4B	Mx	.002	2.7
100	MP4C	X	4.775	2.7
101	MP4C	Z	-8.27	2.7
102	MP4C	Mx	-.001	2.7

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	10.538	1.7
2	MP1A	Z	-6.084	1.7
3	MP1A	Mx	-.005	1.7
4	MP1A	X	10.538	3.7
5	MP1A	Z	-6.084	3.7
6	MP1A	Mx	-.005	3.7
7	MP1B	X	10.538	1.7
8	MP1B	Z	-6.084	1.7
9	MP1B	Mx	.005	1.7
10	MP1B	X	10.538	3.7
11	MP1B	Z	-6.084	3.7
12	MP1B	Mx	.005	3.7
13	MP1C	X	18.066	1.7
14	MP1C	Z	-10.43	1.7
15	MP1C	Mx	0	1.7
16	MP1C	X	18.066	3.7
17	MP1C	Z	-10.43	3.7
18	MP1C	Mx	0	3.7
19	MP2A	X	23.354	.95
20	MP2A	Z	-13.483	.95
21	MP2A	Mx	-.021	.95
22	MP2A	X	23.354	4.45
23	MP2A	Z	-13.483	4.45
24	MP2A	Mx	-.021	4.45
25	MP2B	X	23.354	.95
26	MP2B	Z	-13.483	.95
27	MP2B	Mx	.003	.95
28	MP2B	X	23.354	4.45
29	MP2B	Z	-13.483	4.45
30	MP2B	Mx	.003	4.45
31	MP2C	X	30.038	.95
32	MP2C	Z	-17.343	.95
33	MP2C	Mx	.023	.95
34	MP2C	X	30.038	4.45
35	MP2C	Z	-17.343	4.45
36	MP2C	Mx	.023	4.45
37	MP3A	X	26.568	.95
38	MP3A	Z	-15.339	.95
39	MP3A	Mx	-.013	.95
40	MP3A	X	26.568	4.45
41	MP3A	Z	-15.339	4.45
42	MP3A	Mx	-.013	4.45
43	MP3B	X	26.568	.95
44	MP3B	Z	-15.339	.95
45	MP3B	Mx	.013	.95
46	MP3B	X	26.568	4.45
47	MP3B	Z	-15.339	4.45
48	MP3B	Mx	.013	4.45
49	MP3C	X	34.142	.95
50	MP3C	Z	-19.712	.95
51	MP3C	Mx	0	.95
52	MP3C	X	34.142	4.45
53	MP3C	Z	-19.712	4.45
54	MP3C	Mx	0	4.45
55	M98	X	22.769	1
56	M98	Z	-13.146	1
57	M98	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP3A	X	12.243	2.7
59	MP3A	Z	-7.068	2.7
60	MP3A	Mx	.006	2.7
61	MP3B	X	12.243	2.7
62	MP3B	Z	-7.068	2.7
63	MP3B	Mx	-.006	2.7
64	MP3C	X	15.656	2.7
65	MP3C	Z	-9.039	2.7
66	MP3C	Mx	0	2.7
67	MP2A	X	10.946	2.7
68	MP2A	Z	-6.32	2.7
69	MP2A	Mx	.005	2.7
70	MP2B	X	10.946	2.7
71	MP2B	Z	-6.32	2.7
72	MP2B	Mx	-.005	2.7
73	MP2C	X	15.656	2.7
74	MP2C	Z	-9.039	2.7
75	MP2C	Mx	0	2.7
76	MP2A	X	23.354	.95
77	MP2A	Z	-13.483	.95
78	MP2A	Mx	-.003	.95
79	MP2A	X	23.354	4.45
80	MP2A	Z	-13.483	4.45
81	MP2A	Mx	-.003	4.45
82	MP2B	X	23.354	.95
83	MP2B	Z	-13.483	.95
84	MP2B	Mx	.021	.95
85	MP2B	X	23.354	4.45
86	MP2B	Z	-13.483	4.45
87	MP2B	Mx	.021	4.45
88	MP2C	X	30.038	.95
89	MP2C	Z	-17.343	.95
90	MP2C	Mx	-.023	.95
91	MP2C	X	30.038	4.45
92	MP2C	Z	-17.343	4.45
93	MP2C	Mx	-.023	4.45
94	MP4A	X	6.397	2.7
95	MP4A	Z	-3.693	2.7
96	MP4A	Mx	-.002	2.7
97	MP4B	X	6.397	2.7
98	MP4B	Z	-3.693	2.7
99	MP4B	Mx	.002	2.7
100	MP4C	X	9.206	2.7
101	MP4C	Z	-5.315	2.7
102	MP4C	Mx	0	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	9.271	1.7
2	MP1A	Z	0	1.7
3	MP1A	Mx	-.005	1.7
4	MP1A	X	9.271	3.7
5	MP1A	Z	0	3.7
6	MP1A	Mx	-.005	3.7
7	MP1B	X	17.963	1.7
8	MP1B	Z	0	1.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP1B	Mx	.004	1.7
10	MP1B	X	17.963	3.7
11	MP1B	Z	0	3.7
12	MP1B	Mx	.004	3.7
13	MP1C	X	17.963	1.7
14	MP1C	Z	0	1.7
15	MP1C	Mx	.004	1.7
16	MP1C	X	17.963	3.7
17	MP1C	Z	0	3.7
18	MP1C	Mx	.004	3.7
19	MP2A	X	24.393	.95
20	MP2A	Z	0	.95
21	MP2A	Mx	-.012	.95
22	MP2A	X	24.393	4.45
23	MP2A	Z	0	4.45
24	MP2A	Mx	-.012	4.45
25	MP2B	X	32.112	.95
26	MP2B	Z	0	.95
27	MP2B	Mx	-.011	.95
28	MP2B	X	32.112	4.45
29	MP2B	Z	0	4.45
30	MP2B	Mx	-.011	4.45
31	MP2C	X	32.112	.95
32	MP2C	Z	0	.95
33	MP2C	Mx	.027	.95
34	MP2C	X	32.112	4.45
35	MP2C	Z	0	4.45
36	MP2C	Mx	.027	4.45
37	MP3A	X	27.762	.95
38	MP3A	Z	0	.95
39	MP3A	Mx	-.014	.95
40	MP3A	X	27.762	4.45
41	MP3A	Z	0	4.45
42	MP3A	Mx	-.014	4.45
43	MP3B	X	36.509	.95
44	MP3B	Z	0	.95
45	MP3B	Mx	.009	.95
46	MP3B	X	36.509	4.45
47	MP3B	Z	0	4.45
48	MP3B	Mx	.009	4.45
49	MP3C	X	36.509	.95
50	MP3C	Z	0	.95
51	MP3C	Mx	.009	.95
52	MP3C	X	36.509	4.45
53	MP3C	Z	0	4.45
54	MP3C	Mx	.009	4.45
55	M98	X	23.715	1
56	M98	Z	0	1
57	M98	Mx	0	1
58	MP3A	X	12.823	2.7
59	MP3A	Z	0	2.7
60	MP3A	Mx	.006	2.7
61	MP3B	X	16.764	2.7
62	MP3B	Z	0	2.7
63	MP3B	Mx	-.004	2.7
64	MP3C	X	16.764	2.7
65	MP3C	Z	0	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
66	MP3C	Mx	-.004	2.7
67	MP2A	X	10.827	2.7
68	MP2A	Z	0	2.7
69	MP2A	Mx	.005	2.7
70	MP2B	X	16.265	2.7
71	MP2B	Z	0	2.7
72	MP2B	Mx	-.004	2.7
73	MP2C	X	16.265	2.7
74	MP2C	Z	0	2.7
75	MP2C	Mx	-.004	2.7
76	MP2A	X	24.393	.95
77	MP2A	Z	0	.95
78	MP2A	Mx	-.012	.95
79	MP2A	X	24.393	4.45
80	MP2A	Z	0	4.45
81	MP2A	Mx	-.012	4.45
82	MP2B	X	32.112	.95
83	MP2B	Z	0	.95
84	MP2B	Mx	.027	.95
85	MP2B	X	32.112	4.45
86	MP2B	Z	0	4.45
87	MP2B	Mx	.027	4.45
88	MP2C	X	32.112	.95
89	MP2C	Z	0	.95
90	MP2C	Mx	-.011	.95
91	MP2C	X	32.112	4.45
92	MP2C	Z	0	4.45
93	MP2C	Mx	-.011	4.45
94	MP4A	X	6.305	2.7
95	MP4A	Z	0	2.7
96	MP4A	Mx	-.002	2.7
97	MP4B	X	9.549	2.7
98	MP4B	Z	0	2.7
99	MP4B	Mx	.001	2.7
100	MP4C	X	9.549	2.7
101	MP4C	Z	0	2.7
102	MP4C	Mx	.001	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	10.538	1.7
2	MP1A	Z	6.084	1.7
3	MP1A	Mx	-.005	1.7
4	MP1A	X	10.538	3.7
5	MP1A	Z	6.084	3.7
6	MP1A	Mx	-.005	3.7
7	MP1B	X	18.066	1.7
8	MP1B	Z	10.43	1.7
9	MP1B	Mx	0	1.7
10	MP1B	X	18.066	3.7
11	MP1B	Z	10.43	3.7
12	MP1B	Mx	0	3.7
13	MP1C	X	10.538	1.7
14	MP1C	Z	6.084	1.7
15	MP1C	Mx	.005	1.7
16	MP1C	X	10.538	3.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP1C	Z	6.084	3.7
18	MP1C	Mx	.005	3.7
19	MP2A	X	23.354	.95
20	MP2A	Z	13.483	.95
21	MP2A	Mx	-.003	.95
22	MP2A	X	23.354	4.45
23	MP2A	Z	13.483	4.45
24	MP2A	Mx	-.003	4.45
25	MP2B	X	30.038	.95
26	MP2B	Z	17.343	.95
27	MP2B	Mx	-.023	.95
28	MP2B	X	30.038	4.45
29	MP2B	Z	17.343	4.45
30	MP2B	Mx	-.023	4.45
31	MP2C	X	23.354	.95
32	MP2C	Z	13.483	.95
33	MP2C	Mx	.021	.95
34	MP2C	X	23.354	4.45
35	MP2C	Z	13.483	4.45
36	MP2C	Mx	.021	4.45
37	MP3A	X	26.568	.95
38	MP3A	Z	15.339	.95
39	MP3A	Mx	-.013	.95
40	MP3A	X	26.568	4.45
41	MP3A	Z	15.339	4.45
42	MP3A	Mx	-.013	4.45
43	MP3B	X	34.142	.95
44	MP3B	Z	19.712	.95
45	MP3B	Mx	0	.95
46	MP3B	X	34.142	4.45
47	MP3B	Z	19.712	4.45
48	MP3B	Mx	0	4.45
49	MP3C	X	26.568	.95
50	MP3C	Z	15.339	.95
51	MP3C	Mx	.013	.95
52	MP3C	X	26.568	4.45
53	MP3C	Z	15.339	4.45
54	MP3C	Mx	.013	4.45
55	M98	X	22.769	1
56	M98	Z	13.146	1
57	M98	Mx	0	1
58	MP3A	X	12.243	2.7
59	MP3A	Z	7.068	2.7
60	MP3A	Mx	.006	2.7
61	MP3B	X	15.656	2.7
62	MP3B	Z	9.039	2.7
63	MP3B	Mx	0	2.7
64	MP3C	X	12.243	2.7
65	MP3C	Z	7.068	2.7
66	MP3C	Mx	-.006	2.7
67	MP2A	X	10.946	2.7
68	MP2A	Z	6.32	2.7
69	MP2A	Mx	.005	2.7
70	MP2B	X	15.656	2.7
71	MP2B	Z	9.039	2.7
72	MP2B	Mx	0	2.7
73	MP2C	X	10.946	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP2C	Z	6.32	2.7
75	MP2C	Mx	-.005	2.7
76	MP2A	X	23.354	.95
77	MP2A	Z	13.483	.95
78	MP2A	Mx	-.021	.95
79	MP2A	X	23.354	4.45
80	MP2A	Z	13.483	4.45
81	MP2A	Mx	-.021	4.45
82	MP2B	X	30.038	.95
83	MP2B	Z	17.343	.95
84	MP2B	Mx	.023	.95
85	MP2B	X	30.038	4.45
86	MP2B	Z	17.343	4.45
87	MP2B	Mx	.023	4.45
88	MP2C	X	23.354	.95
89	MP2C	Z	13.483	.95
90	MP2C	Mx	.003	.95
91	MP2C	X	23.354	4.45
92	MP2C	Z	13.483	4.45
93	MP2C	Mx	.003	4.45
94	MP4A	X	6.397	2.7
95	MP4A	Z	3.693	2.7
96	MP4A	Mx	-.002	2.7
97	MP4B	X	9.206	2.7
98	MP4B	Z	5.315	2.7
99	MP4B	Mx	0	2.7
100	MP4C	X	6.397	2.7
101	MP4C	Z	3.693	2.7
102	MP4C	Mx	.002	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	8.982	1.7
2	MP1A	Z	15.557	1.7
3	MP1A	Mx	-.004	1.7
4	MP1A	X	8.982	3.7
5	MP1A	Z	15.557	3.7
6	MP1A	Mx	-.004	3.7
7	MP1B	X	8.982	1.7
8	MP1B	Z	15.557	1.7
9	MP1B	Mx	-.004	1.7
10	MP1B	X	8.982	3.7
11	MP1B	Z	15.557	3.7
12	MP1B	Mx	-.004	3.7
13	MP1C	X	4.635	1.7
14	MP1C	Z	8.029	1.7
15	MP1C	Mx	.005	1.7
16	MP1C	X	4.635	3.7
17	MP1C	Z	8.029	3.7
18	MP1C	Mx	.005	3.7
19	MP2A	X	16.056	.95
20	MP2A	Z	27.81	.95
21	MP2A	Mx	.011	.95
22	MP2A	X	16.056	4.45
23	MP2A	Z	27.81	4.45
24	MP2A	Mx	.011	4.45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2B	X	16.056	.95
26	MP2B	Z	27.81	.95
27	MP2B	Mx	-.027	.95
28	MP2B	X	16.056	4.45
29	MP2B	Z	27.81	4.45
30	MP2B	Mx	-.027	4.45
31	MP2C	X	12.197	.95
32	MP2C	Z	21.125	.95
33	MP2C	Mx	.012	.95
34	MP2C	X	12.197	4.45
35	MP2C	Z	21.125	4.45
36	MP2C	Mx	.012	4.45
37	MP3A	X	18.254	.95
38	MP3A	Z	31.617	.95
39	MP3A	Mx	-.009	.95
40	MP3A	X	18.254	4.45
41	MP3A	Z	31.617	4.45
42	MP3A	Mx	-.009	4.45
43	MP3B	X	18.254	.95
44	MP3B	Z	31.617	.95
45	MP3B	Mx	-.009	.95
46	MP3B	X	18.254	4.45
47	MP3B	Z	31.617	4.45
48	MP3B	Mx	-.009	4.45
49	MP3C	X	13.881	.95
50	MP3C	Z	24.043	.95
51	MP3C	Mx	.014	.95
52	MP3C	X	13.881	4.45
53	MP3C	Z	24.043	4.45
54	MP3C	Mx	.014	4.45
55	M98	X	15.723	1
56	M98	Z	27.232	1
57	M98	Mx	0	1
58	MP3A	X	8.382	2.7
59	MP3A	Z	14.518	2.7
60	MP3A	Mx	.004	2.7
61	MP3B	X	8.382	2.7
62	MP3B	Z	14.518	2.7
63	MP3B	Mx	.004	2.7
64	MP3C	X	6.412	2.7
65	MP3C	Z	11.105	2.7
66	MP3C	Mx	-.006	2.7
67	MP2A	X	8.133	2.7
68	MP2A	Z	14.086	2.7
69	MP2A	Mx	.004	2.7
70	MP2B	X	8.133	2.7
71	MP2B	Z	14.086	2.7
72	MP2B	Mx	.004	2.7
73	MP2C	X	5.413	2.7
74	MP2C	Z	9.376	2.7
75	MP2C	Mx	-.005	2.7
76	MP2A	X	16.056	.95
77	MP2A	Z	27.81	.95
78	MP2A	Mx	-.027	.95
79	MP2A	X	16.056	4.45
80	MP2A	Z	27.81	4.45
81	MP2A	Mx	-.027	4.45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
82	MP2B	X	16.056	.95
83	MP2B	Z	27.81	.95
84	MP2B	Mx	.011	.95
85	MP2B	X	16.056	4.45
86	MP2B	Z	27.81	4.45
87	MP2B	Mx	.011	4.45
88	MP2C	X	12.197	.95
89	MP2C	Z	21.125	.95
90	MP2C	Mx	.012	.95
91	MP2C	X	12.197	4.45
92	MP2C	Z	21.125	4.45
93	MP2C	Mx	.012	4.45
94	MP4A	X	4.775	2.7
95	MP4A	Z	8.27	2.7
96	MP4A	Mx	-.001	2.7
97	MP4B	X	4.775	2.7
98	MP4B	Z	8.27	2.7
99	MP4B	Mx	-.001	2.7
100	MP4C	X	3.153	2.7
101	MP4C	Z	5.46	2.7
102	MP4C	Mx	.002	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	1.7
2	MP1A	Z	20.861	1.7
3	MP1A	Mx	0	1.7
4	MP1A	X	0	3.7
5	MP1A	Z	20.861	3.7
6	MP1A	Mx	0	3.7
7	MP1B	X	0	1.7
8	MP1B	Z	12.168	1.7
9	MP1B	Mx	-.005	1.7
10	MP1B	X	0	3.7
11	MP1B	Z	12.168	3.7
12	MP1B	Mx	-.005	3.7
13	MP1C	X	0	1.7
14	MP1C	Z	12.168	1.7
15	MP1C	Mx	.005	1.7
16	MP1C	X	0	3.7
17	MP1C	Z	12.168	3.7
18	MP1C	Mx	.005	3.7
19	MP2A	X	0	.95
20	MP2A	Z	34.685	.95
21	MP2A	Mx	.023	.95
22	MP2A	X	0	4.45
23	MP2A	Z	34.685	4.45
24	MP2A	Mx	.023	4.45
25	MP2B	X	0	.95
26	MP2B	Z	26.966	.95
27	MP2B	Mx	-.021	.95
28	MP2B	X	0	4.45
29	MP2B	Z	26.966	4.45
30	MP2B	Mx	-.021	4.45
31	MP2C	X	0	.95
32	MP2C	Z	26.966	.95

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP2C	Mx	.003	.95
34	MP2C	X	0	4.45
35	MP2C	Z	26.966	4.45
36	MP2C	Mx	.003	4.45
37	MP3A	X	0	.95
38	MP3A	Z	39.424	.95
39	MP3A	Mx	0	.95
40	MP3A	X	0	4.45
41	MP3A	Z	39.424	4.45
42	MP3A	Mx	0	4.45
43	MP3B	X	0	.95
44	MP3B	Z	30.678	.95
45	MP3B	Mx	-.013	.95
46	MP3B	X	0	4.45
47	MP3B	Z	30.678	4.45
48	MP3B	Mx	-.013	4.45
49	MP3C	X	0	.95
50	MP3C	Z	30.678	.95
51	MP3C	Mx	.013	.95
52	MP3C	X	0	4.45
53	MP3C	Z	30.678	4.45
54	MP3C	Mx	.013	4.45
55	M98	X	0	1
56	M98	Z	34.022	1
57	M98	Mx	0	1
58	MP3A	X	0	2.7
59	MP3A	Z	18.078	2.7
60	MP3A	Mx	0	2.7
61	MP3B	X	0	2.7
62	MP3B	Z	14.137	2.7
63	MP3B	Mx	.006	2.7
64	MP3C	X	0	2.7
65	MP3C	Z	14.137	2.7
66	MP3C	Mx	-.006	2.7
67	MP2A	X	0	2.7
68	MP2A	Z	18.078	2.7
69	MP2A	Mx	0	2.7
70	MP2B	X	0	2.7
71	MP2B	Z	12.639	2.7
72	MP2B	Mx	.005	2.7
73	MP2C	X	0	2.7
74	MP2C	Z	12.639	2.7
75	MP2C	Mx	-.005	2.7
76	MP2A	X	0	.95
77	MP2A	Z	34.685	.95
78	MP2A	Mx	-.023	.95
79	MP2A	X	0	4.45
80	MP2A	Z	34.685	4.45
81	MP2A	Mx	-.023	4.45
82	MP2B	X	0	.95
83	MP2B	Z	26.966	.95
84	MP2B	Mx	-.003	.95
85	MP2B	X	0	4.45
86	MP2B	Z	26.966	4.45
87	MP2B	Mx	-.003	4.45
88	MP2C	X	0	.95
89	MP2C	Z	26.966	.95

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
90	MP2C	Mx	.021	.95
91	MP2C	X	0	4.45
92	MP2C	Z	26.966	4.45
93	MP2C	Mx	.021	4.45
94	MP4A	X	0	2.7
95	MP4A	Z	10.63	2.7
96	MP4A	Mx	0	2.7
97	MP4B	X	0	2.7
98	MP4B	Z	7.386	2.7
99	MP4B	Mx	-.002	2.7
100	MP4C	X	0	2.7
101	MP4C	Z	7.386	2.7
102	MP4C	Mx	.002	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-8.982	1.7
2	MP1A	Z	15.557	1.7
3	MP1A	Mx	.004	1.7
4	MP1A	X	-8.982	3.7
5	MP1A	Z	15.557	3.7
6	MP1A	Mx	.004	3.7
7	MP1B	X	-4.635	1.7
8	MP1B	Z	8.029	1.7
9	MP1B	Mx	-.005	1.7
10	MP1B	X	-4.635	3.7
11	MP1B	Z	8.029	3.7
12	MP1B	Mx	-.005	3.7
13	MP1C	X	-8.982	1.7
14	MP1C	Z	15.557	1.7
15	MP1C	Mx	.004	1.7
16	MP1C	X	-8.982	3.7
17	MP1C	Z	15.557	3.7
18	MP1C	Mx	.004	3.7
19	MP2A	X	-16.056	.95
20	MP2A	Z	27.81	.95
21	MP2A	Mx	.027	.95
22	MP2A	X	-16.056	4.45
23	MP2A	Z	27.81	4.45
24	MP2A	Mx	.027	4.45
25	MP2B	X	-12.197	.95
26	MP2B	Z	21.125	.95
27	MP2B	Mx	-.012	.95
28	MP2B	X	-12.197	4.45
29	MP2B	Z	21.125	4.45
30	MP2B	Mx	-.012	4.45
31	MP2C	X	-16.056	.95
32	MP2C	Z	27.81	.95
33	MP2C	Mx	-.011	.95
34	MP2C	X	-16.056	4.45
35	MP2C	Z	27.81	4.45
36	MP2C	Mx	-.011	4.45
37	MP3A	X	-18.254	.95
38	MP3A	Z	31.617	.95
39	MP3A	Mx	.009	.95
40	MP3A	X	-18.254	4.45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP3A	Z	31.617	4.45
42	MP3A	Mx	.009	4.45
43	MP3B	X	-13.881	.95
44	MP3B	Z	24.043	.95
45	MP3B	Mx	-.014	.95
46	MP3B	X	-13.881	4.45
47	MP3B	Z	24.043	4.45
48	MP3B	Mx	-.014	4.45
49	MP3C	X	-18.254	.95
50	MP3C	Z	31.617	.95
51	MP3C	Mx	.009	.95
52	MP3C	X	-18.254	4.45
53	MP3C	Z	31.617	4.45
54	MP3C	Mx	.009	4.45
55	M98	X	-15.723	1
56	M98	Z	27.232	1
57	M98	Mx	0	1
58	MP3A	X	-8.382	2.7
59	MP3A	Z	14.518	2.7
60	MP3A	Mx	-.004	2.7
61	MP3B	X	-6.412	2.7
62	MP3B	Z	11.105	2.7
63	MP3B	Mx	.006	2.7
64	MP3C	X	-8.382	2.7
65	MP3C	Z	14.518	2.7
66	MP3C	Mx	-.004	2.7
67	MP2A	X	-8.133	2.7
68	MP2A	Z	14.086	2.7
69	MP2A	Mx	-.004	2.7
70	MP2B	X	-5.413	2.7
71	MP2B	Z	9.376	2.7
72	MP2B	Mx	.005	2.7
73	MP2C	X	-8.133	2.7
74	MP2C	Z	14.086	2.7
75	MP2C	Mx	-.004	2.7
76	MP2A	X	-16.056	.95
77	MP2A	Z	27.81	.95
78	MP2A	Mx	-.011	.95
79	MP2A	X	-16.056	4.45
80	MP2A	Z	27.81	4.45
81	MP2A	Mx	-.011	4.45
82	MP2B	X	-12.197	.95
83	MP2B	Z	21.125	.95
84	MP2B	Mx	-.012	.95
85	MP2B	X	-12.197	4.45
86	MP2B	Z	21.125	4.45
87	MP2B	Mx	-.012	4.45
88	MP2C	X	-16.056	.95
89	MP2C	Z	27.81	.95
90	MP2C	Mx	.027	.95
91	MP2C	X	-16.056	4.45
92	MP2C	Z	27.81	4.45
93	MP2C	Mx	.027	4.45
94	MP4A	X	-4.775	2.7
95	MP4A	Z	8.27	2.7
96	MP4A	Mx	.001	2.7
97	MP4B	X	-3.153	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
98	MP4B	Z	5.46	2.7
99	MP4B	Mx	-.002	2.7
100	MP4C	X	-4.775	2.7
101	MP4C	Z	8.27	2.7
102	MP4C	Mx	.001	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-10.538	1.7
2	MP1A	Z	6.084	1.7
3	MP1A	Mx	.005	1.7
4	MP1A	X	-10.538	3.7
5	MP1A	Z	6.084	3.7
6	MP1A	Mx	.005	3.7
7	MP1B	X	-10.538	1.7
8	MP1B	Z	6.084	1.7
9	MP1B	Mx	-.005	1.7
10	MP1B	X	-10.538	3.7
11	MP1B	Z	6.084	3.7
12	MP1B	Mx	-.005	3.7
13	MP1C	X	-18.066	1.7
14	MP1C	Z	10.43	1.7
15	MP1C	Mx	0	1.7
16	MP1C	X	-18.066	3.7
17	MP1C	Z	10.43	3.7
18	MP1C	Mx	0	3.7
19	MP2A	X	-23.354	.95
20	MP2A	Z	13.483	.95
21	MP2A	Mx	.021	.95
22	MP2A	X	-23.354	4.45
23	MP2A	Z	13.483	4.45
24	MP2A	Mx	.021	4.45
25	MP2B	X	-23.354	.95
26	MP2B	Z	13.483	.95
27	MP2B	Mx	-.003	.95
28	MP2B	X	-23.354	4.45
29	MP2B	Z	13.483	4.45
30	MP2B	Mx	-.003	4.45
31	MP2C	X	-30.038	.95
32	MP2C	Z	17.343	.95
33	MP2C	Mx	-.023	.95
34	MP2C	X	-30.038	4.45
35	MP2C	Z	17.343	4.45
36	MP2C	Mx	-.023	4.45
37	MP3A	X	-26.568	.95
38	MP3A	Z	15.339	.95
39	MP3A	Mx	.013	.95
40	MP3A	X	-26.568	4.45
41	MP3A	Z	15.339	4.45
42	MP3A	Mx	.013	4.45
43	MP3B	X	-26.568	.95
44	MP3B	Z	15.339	.95
45	MP3B	Mx	-.013	.95
46	MP3B	X	-26.568	4.45
47	MP3B	Z	15.339	4.45
48	MP3B	Mx	-.013	4.45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
49	MP3C	X	-34.142	.95
50	MP3C	Z	19.712	.95
51	MP3C	Mx	0	.95
52	MP3C	X	-34.142	4.45
53	MP3C	Z	19.712	4.45
54	MP3C	Mx	0	4.45
55	M98	X	-22.769	1
56	M98	Z	13.146	1
57	M98	Mx	0	1
58	MP3A	X	-12.243	2.7
59	MP3A	Z	7.068	2.7
60	MP3A	Mx	-.006	2.7
61	MP3B	X	-12.243	2.7
62	MP3B	Z	7.068	2.7
63	MP3B	Mx	.006	2.7
64	MP3C	X	-15.656	2.7
65	MP3C	Z	9.039	2.7
66	MP3C	Mx	0	2.7
67	MP2A	X	-10.946	2.7
68	MP2A	Z	6.32	2.7
69	MP2A	Mx	-.005	2.7
70	MP2B	X	-10.946	2.7
71	MP2B	Z	6.32	2.7
72	MP2B	Mx	.005	2.7
73	MP2C	X	-15.656	2.7
74	MP2C	Z	9.039	2.7
75	MP2C	Mx	0	2.7
76	MP2A	X	-23.354	.95
77	MP2A	Z	13.483	.95
78	MP2A	Mx	.003	.95
79	MP2A	X	-23.354	4.45
80	MP2A	Z	13.483	4.45
81	MP2A	Mx	.003	4.45
82	MP2B	X	-23.354	.95
83	MP2B	Z	13.483	.95
84	MP2B	Mx	-.021	.95
85	MP2B	X	-23.354	4.45
86	MP2B	Z	13.483	4.45
87	MP2B	Mx	-.021	4.45
88	MP2C	X	-30.038	.95
89	MP2C	Z	17.343	.95
90	MP2C	Mx	.023	.95
91	MP2C	X	-30.038	4.45
92	MP2C	Z	17.343	4.45
93	MP2C	Mx	.023	4.45
94	MP4A	X	-6.397	2.7
95	MP4A	Z	3.693	2.7
96	MP4A	Mx	.002	2.7
97	MP4B	X	-6.397	2.7
98	MP4B	Z	3.693	2.7
99	MP4B	Mx	-.002	2.7
100	MP4C	X	-9.206	2.7
101	MP4C	Z	5.315	2.7
102	MP4C	Mx	0	2.7

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-9.271	1.7
2	MP1A	Z	0	1.7
3	MP1A	Mx	.005	1.7
4	MP1A	X	-9.271	3.7
5	MP1A	Z	0	3.7
6	MP1A	Mx	.005	3.7
7	MP1B	X	-17.963	1.7
8	MP1B	Z	0	1.7
9	MP1B	Mx	-.004	1.7
10	MP1B	X	-17.963	3.7
11	MP1B	Z	0	3.7
12	MP1B	Mx	-.004	3.7
13	MP1C	X	-17.963	1.7
14	MP1C	Z	0	1.7
15	MP1C	Mx	-.004	1.7
16	MP1C	X	-17.963	3.7
17	MP1C	Z	0	3.7
18	MP1C	Mx	-.004	3.7
19	MP2A	X	-24.393	.95
20	MP2A	Z	0	.95
21	MP2A	Mx	.012	.95
22	MP2A	X	-24.393	4.45
23	MP2A	Z	0	4.45
24	MP2A	Mx	.012	4.45
25	MP2B	X	-32.112	.95
26	MP2B	Z	0	.95
27	MP2B	Mx	.011	.95
28	MP2B	X	-32.112	4.45
29	MP2B	Z	0	4.45
30	MP2B	Mx	.011	4.45
31	MP2C	X	-32.112	.95
32	MP2C	Z	0	.95
33	MP2C	Mx	-.027	.95
34	MP2C	X	-32.112	4.45
35	MP2C	Z	0	4.45
36	MP2C	Mx	-.027	4.45
37	MP3A	X	-27.762	.95
38	MP3A	Z	0	.95
39	MP3A	Mx	.014	.95
40	MP3A	X	-27.762	4.45
41	MP3A	Z	0	4.45
42	MP3A	Mx	.014	4.45
43	MP3B	X	-36.509	.95
44	MP3B	Z	0	.95
45	MP3B	Mx	-.009	.95
46	MP3B	X	-36.509	4.45
47	MP3B	Z	0	4.45
48	MP3B	Mx	-.009	4.45
49	MP3C	X	-36.509	.95
50	MP3C	Z	0	.95
51	MP3C	Mx	-.009	.95
52	MP3C	X	-36.509	4.45
53	MP3C	Z	0	4.45
54	MP3C	Mx	-.009	4.45
55	M98	X	-23.715	1
56	M98	Z	0	1
57	M98	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP3A	X	-12.823	2.7
59	MP3A	Z	0	2.7
60	MP3A	Mx	-.006	2.7
61	MP3B	X	-16.764	2.7
62	MP3B	Z	0	2.7
63	MP3B	Mx	.004	2.7
64	MP3C	X	-16.764	2.7
65	MP3C	Z	0	2.7
66	MP3C	Mx	.004	2.7
67	MP2A	X	-10.827	2.7
68	MP2A	Z	0	2.7
69	MP2A	Mx	-.005	2.7
70	MP2B	X	-16.265	2.7
71	MP2B	Z	0	2.7
72	MP2B	Mx	.004	2.7
73	MP2C	X	-16.265	2.7
74	MP2C	Z	0	2.7
75	MP2C	Mx	.004	2.7
76	MP2A	X	-24.393	.95
77	MP2A	Z	0	.95
78	MP2A	Mx	.012	.95
79	MP2A	X	-24.393	4.45
80	MP2A	Z	0	4.45
81	MP2A	Mx	.012	4.45
82	MP2B	X	-32.112	.95
83	MP2B	Z	0	.95
84	MP2B	Mx	-.027	.95
85	MP2B	X	-32.112	4.45
86	MP2B	Z	0	4.45
87	MP2B	Mx	-.027	4.45
88	MP2C	X	-32.112	.95
89	MP2C	Z	0	.95
90	MP2C	Mx	.011	.95
91	MP2C	X	-32.112	4.45
92	MP2C	Z	0	4.45
93	MP2C	Mx	.011	4.45
94	MP4A	X	-6.305	2.7
95	MP4A	Z	0	2.7
96	MP4A	Mx	.002	2.7
97	MP4B	X	-9.549	2.7
98	MP4B	Z	0	2.7
99	MP4B	Mx	-.001	2.7
100	MP4C	X	-9.549	2.7
101	MP4C	Z	0	2.7
102	MP4C	Mx	-.001	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-10.538	1.7
2	MP1A	Z	-6.084	1.7
3	MP1A	Mx	.005	1.7
4	MP1A	X	-10.538	3.7
5	MP1A	Z	-6.084	3.7
6	MP1A	Mx	.005	3.7
7	MP1B	X	-18.066	1.7
8	MP1B	Z	-10.43	1.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP1B	Mx	0	1.7
10	MP1B	X	-18.066	3.7
11	MP1B	Z	-10.43	3.7
12	MP1B	Mx	0	3.7
13	MP1C	X	-10.538	1.7
14	MP1C	Z	-6.084	1.7
15	MP1C	Mx	-.005	1.7
16	MP1C	X	-10.538	3.7
17	MP1C	Z	-6.084	3.7
18	MP1C	Mx	-.005	3.7
19	MP2A	X	-23.354	.95
20	MP2A	Z	-13.483	.95
21	MP2A	Mx	.003	.95
22	MP2A	X	-23.354	4.45
23	MP2A	Z	-13.483	4.45
24	MP2A	Mx	.003	4.45
25	MP2B	X	-30.038	.95
26	MP2B	Z	-17.343	.95
27	MP2B	Mx	.023	.95
28	MP2B	X	-30.038	4.45
29	MP2B	Z	-17.343	4.45
30	MP2B	Mx	.023	4.45
31	MP2C	X	-23.354	.95
32	MP2C	Z	-13.483	.95
33	MP2C	Mx	-.021	.95
34	MP2C	X	-23.354	4.45
35	MP2C	Z	-13.483	4.45
36	MP2C	Mx	-.021	4.45
37	MP3A	X	-26.568	.95
38	MP3A	Z	-15.339	.95
39	MP3A	Mx	.013	.95
40	MP3A	X	-26.568	4.45
41	MP3A	Z	-15.339	4.45
42	MP3A	Mx	.013	4.45
43	MP3B	X	-34.142	.95
44	MP3B	Z	-19.712	.95
45	MP3B	Mx	0	.95
46	MP3B	X	-34.142	4.45
47	MP3B	Z	-19.712	4.45
48	MP3B	Mx	0	4.45
49	MP3C	X	-26.568	.95
50	MP3C	Z	-15.339	.95
51	MP3C	Mx	-.013	.95
52	MP3C	X	-26.568	4.45
53	MP3C	Z	-15.339	4.45
54	MP3C	Mx	-.013	4.45
55	M98	X	-22.769	1
56	M98	Z	-13.146	1
57	M98	Mx	0	1
58	MP3A	X	-12.243	2.7
59	MP3A	Z	-7.068	2.7
60	MP3A	Mx	-.006	2.7
61	MP3B	X	-15.656	2.7
62	MP3B	Z	-9.039	2.7
63	MP3B	Mx	0	2.7
64	MP3C	X	-12.243	2.7
65	MP3C	Z	-7.068	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
66	MP3C	Mx	.006	2.7
67	MP2A	X	-10.946	2.7
68	MP2A	Z	-6.32	2.7
69	MP2A	Mx	-.005	2.7
70	MP2B	X	-15.656	2.7
71	MP2B	Z	-9.039	2.7
72	MP2B	Mx	0	2.7
73	MP2C	X	-10.946	2.7
74	MP2C	Z	-6.32	2.7
75	MP2C	Mx	.005	2.7
76	MP2A	X	-23.354	.95
77	MP2A	Z	-13.483	.95
78	MP2A	Mx	.021	.95
79	MP2A	X	-23.354	4.45
80	MP2A	Z	-13.483	4.45
81	MP2A	Mx	.021	4.45
82	MP2B	X	-30.038	.95
83	MP2B	Z	-17.343	.95
84	MP2B	Mx	-.023	.95
85	MP2B	X	-30.038	4.45
86	MP2B	Z	-17.343	4.45
87	MP2B	Mx	-.023	4.45
88	MP2C	X	-23.354	.95
89	MP2C	Z	-13.483	.95
90	MP2C	Mx	-.003	.95
91	MP2C	X	-23.354	4.45
92	MP2C	Z	-13.483	4.45
93	MP2C	Mx	-.003	4.45
94	MP4A	X	-6.397	2.7
95	MP4A	Z	-3.693	2.7
96	MP4A	Mx	.002	2.7
97	MP4B	X	-9.206	2.7
98	MP4B	Z	-5.315	2.7
99	MP4B	Mx	0	2.7
100	MP4C	X	-6.397	2.7
101	MP4C	Z	-3.693	2.7
102	MP4C	Mx	-.002	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-8.982	1.7
2	MP1A	Z	-15.557	1.7
3	MP1A	Mx	.004	1.7
4	MP1A	X	-8.982	3.7
5	MP1A	Z	-15.557	3.7
6	MP1A	Mx	.004	3.7
7	MP1B	X	-8.982	1.7
8	MP1B	Z	-15.557	1.7
9	MP1B	Mx	.004	1.7
10	MP1B	X	-8.982	3.7
11	MP1B	Z	-15.557	3.7
12	MP1B	Mx	.004	3.7
13	MP1C	X	-4.635	1.7
14	MP1C	Z	-8.029	1.7
15	MP1C	Mx	-.005	1.7
16	MP1C	X	-4.635	3.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP1C	Z	-8.029	3.7
18	MP1C	Mx	-.005	3.7
19	MP2A	X	-16.056	.95
20	MP2A	Z	-27.81	.95
21	MP2A	Mx	-.011	.95
22	MP2A	X	-16.056	4.45
23	MP2A	Z	-27.81	4.45
24	MP2A	Mx	-.011	4.45
25	MP2B	X	-16.056	.95
26	MP2B	Z	-27.81	.95
27	MP2B	Mx	.027	.95
28	MP2B	X	-16.056	4.45
29	MP2B	Z	-27.81	4.45
30	MP2B	Mx	.027	4.45
31	MP2C	X	-12.197	.95
32	MP2C	Z	-21.125	.95
33	MP2C	Mx	-.012	.95
34	MP2C	X	-12.197	4.45
35	MP2C	Z	-21.125	4.45
36	MP2C	Mx	-.012	4.45
37	MP3A	X	-18.254	.95
38	MP3A	Z	-31.617	.95
39	MP3A	Mx	.009	.95
40	MP3A	X	-18.254	4.45
41	MP3A	Z	-31.617	4.45
42	MP3A	Mx	.009	4.45
43	MP3B	X	-18.254	.95
44	MP3B	Z	-31.617	.95
45	MP3B	Mx	.009	.95
46	MP3B	X	-18.254	4.45
47	MP3B	Z	-31.617	4.45
48	MP3B	Mx	.009	4.45
49	MP3C	X	-13.881	.95
50	MP3C	Z	-24.043	.95
51	MP3C	Mx	-.014	.95
52	MP3C	X	-13.881	4.45
53	MP3C	Z	-24.043	4.45
54	MP3C	Mx	-.014	4.45
55	M98	X	-15.723	1
56	M98	Z	-27.232	1
57	M98	Mx	0	1
58	MP3A	X	-8.382	2.7
59	MP3A	Z	-14.518	2.7
60	MP3A	Mx	-.004	2.7
61	MP3B	X	-8.382	2.7
62	MP3B	Z	-14.518	2.7
63	MP3B	Mx	-.004	2.7
64	MP3C	X	-6.412	2.7
65	MP3C	Z	-11.105	2.7
66	MP3C	Mx	.006	2.7
67	MP2A	X	-8.133	2.7
68	MP2A	Z	-14.086	2.7
69	MP2A	Mx	-.004	2.7
70	MP2B	X	-8.133	2.7
71	MP2B	Z	-14.086	2.7
72	MP2B	Mx	-.004	2.7
73	MP2C	X	-5.413	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP2C	Z	-9.376	2.7
75	MP2C	Mx	.005	2.7
76	MP2A	X	-16.056	.95
77	MP2A	Z	-27.81	.95
78	MP2A	Mx	.027	.95
79	MP2A	X	-16.056	4.45
80	MP2A	Z	-27.81	4.45
81	MP2A	Mx	.027	4.45
82	MP2B	X	-16.056	.95
83	MP2B	Z	-27.81	.95
84	MP2B	Mx	-.011	.95
85	MP2B	X	-16.056	4.45
86	MP2B	Z	-27.81	4.45
87	MP2B	Mx	-.011	4.45
88	MP2C	X	-12.197	.95
89	MP2C	Z	-21.125	.95
90	MP2C	Mx	-.012	.95
91	MP2C	X	-12.197	4.45
92	MP2C	Z	-21.125	4.45
93	MP2C	Mx	-.012	4.45
94	MP4A	X	-4.775	2.7
95	MP4A	Z	-8.27	2.7
96	MP4A	Mx	.001	2.7
97	MP4B	X	-4.775	2.7
98	MP4B	Z	-8.27	2.7
99	MP4B	Mx	.001	2.7
100	MP4C	X	-3.153	2.7
101	MP4C	Z	-5.46	2.7
102	MP4C	Mx	-.002	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	1.7
2	MP1A	Z	-6.265	1.7
3	MP1A	Mx	0	1.7
4	MP1A	X	0	3.7
5	MP1A	Z	-6.265	3.7
6	MP1A	Mx	0	3.7
7	MP1B	X	0	1.7
8	MP1B	Z	-3.406	1.7
9	MP1B	Mx	.001	1.7
10	MP1B	X	0	3.7
11	MP1B	Z	-3.406	3.7
12	MP1B	Mx	.001	3.7
13	MP1C	X	0	1.7
14	MP1C	Z	-3.406	1.7
15	MP1C	Mx	-.001	1.7
16	MP1C	X	0	3.7
17	MP1C	Z	-3.406	3.7
18	MP1C	Mx	-.001	3.7
19	MP2A	X	0	.95
20	MP2A	Z	-10.771	.95
21	MP2A	Mx	-.007	.95
22	MP2A	X	0	4.45
23	MP2A	Z	-10.771	4.45
24	MP2A	Mx	-.007	4.45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2B	X	0	.95
26	MP2B	Z	-8.033	.95
27	MP2B	Mx	.006	.95
28	MP2B	X	0	4.45
29	MP2B	Z	-8.033	4.45
30	MP2B	Mx	.006	4.45
31	MP2C	X	0	.95
32	MP2C	Z	-8.033	.95
33	MP2C	Mx	-.000801	.95
34	MP2C	X	0	4.45
35	MP2C	Z	-8.033	4.45
36	MP2C	Mx	-.000801	4.45
37	MP3A	X	0	.95
38	MP3A	Z	-12.304	.95
39	MP3A	Mx	0	.95
40	MP3A	X	0	4.45
41	MP3A	Z	-12.304	4.45
42	MP3A	Mx	0	4.45
43	MP3B	X	0	.95
44	MP3B	Z	-9.215	.95
45	MP3B	Mx	.004	.95
46	MP3B	X	0	4.45
47	MP3B	Z	-9.215	4.45
48	MP3B	Mx	.004	4.45
49	MP3C	X	0	.95
50	MP3C	Z	-9.215	.95
51	MP3C	Mx	-.004	.95
52	MP3C	X	0	4.45
53	MP3C	Z	-9.215	4.45
54	MP3C	Mx	-.004	4.45
55	M98	X	0	1
56	M98	Z	-10.104	1
57	M98	Mx	0	1
58	MP3A	X	0	2.7
59	MP3A	Z	-4.985	2.7
60	MP3A	Mx	0	2.7
61	MP3B	X	0	2.7
62	MP3B	Z	-3.746	2.7
63	MP3B	Mx	-.002	2.7
64	MP3C	X	0	2.7
65	MP3C	Z	-3.746	2.7
66	MP3C	Mx	.002	2.7
67	MP2A	X	0	2.7
68	MP2A	Z	-4.985	2.7
69	MP2A	Mx	0	2.7
70	MP2B	X	0	2.7
71	MP2B	Z	-3.271	2.7
72	MP2B	Mx	-.001	2.7
73	MP2C	X	0	2.7
74	MP2C	Z	-3.271	2.7
75	MP2C	Mx	.001	2.7
76	MP2A	X	0	.95
77	MP2A	Z	-10.731	.95
78	MP2A	Mx	.007	.95
79	MP2A	X	0	4.45
80	MP2A	Z	-10.731	4.45
81	MP2A	Mx	.007	4.45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
82	MP2B	X	0	.95
83	MP2B	Z	-8.023	.95
84	MP2B	Mx	.0008	.95
85	MP2B	X	0	4.45
86	MP2B	Z	-8.023	4.45
87	MP2B	Mx	.0008	4.45
88	MP2C	X	0	.95
89	MP2C	Z	-8.023	.95
90	MP2C	Mx	-.006	.95
91	MP2C	X	0	4.45
92	MP2C	Z	-8.023	4.45
93	MP2C	Mx	-.006	4.45
94	MP4A	X	0	2.7
95	MP4A	Z	-2.666	2.7
96	MP4A	Mx	0	2.7
97	MP4B	X	0	2.7
98	MP4B	Z	-1.668	2.7
99	MP4B	Mx	.000361	2.7
100	MP4C	X	0	2.7
101	MP4C	Z	-1.668	2.7
102	MP4C	Mx	-.000361	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	2.656	1.7
2	MP1A	Z	-4.6	1.7
3	MP1A	Mx	-.001	1.7
4	MP1A	X	2.656	3.7
5	MP1A	Z	-4.6	3.7
6	MP1A	Mx	-.001	3.7
7	MP1B	X	1.226	1.7
8	MP1B	Z	-2.124	1.7
9	MP1B	Mx	.001	1.7
10	MP1B	X	1.226	3.7
11	MP1B	Z	-2.124	3.7
12	MP1B	Mx	.001	3.7
13	MP1C	X	2.656	1.7
14	MP1C	Z	-4.6	1.7
15	MP1C	Mx	-.001	1.7
16	MP1C	X	2.656	3.7
17	MP1C	Z	-4.6	3.7
18	MP1C	Mx	-.001	3.7
19	MP2A	X	4.929	.95
20	MP2A	Z	-8.537	.95
21	MP2A	Mx	-.008	.95
22	MP2A	X	4.929	4.45
23	MP2A	Z	-8.537	4.45
24	MP2A	Mx	-.008	4.45
25	MP2B	X	3.56	.95
26	MP2B	Z	-6.167	.95
27	MP2B	Mx	.004	.95
28	MP2B	X	3.56	4.45
29	MP2B	Z	-6.167	4.45
30	MP2B	Mx	.004	4.45
31	MP2C	X	4.929	.95
32	MP2C	Z	-8.537	.95

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP2C	Mx	.003	.95
34	MP2C	X	4.929	4.45
35	MP2C	Z	-8.537	4.45
36	MP2C	Mx	.003	4.45
37	MP3A	X	5.637	.95
38	MP3A	Z	-9.764	.95
39	MP3A	Mx	-.003	.95
40	MP3A	X	5.637	4.45
41	MP3A	Z	-9.764	4.45
42	MP3A	Mx	-.003	4.45
43	MP3B	X	4.092	.95
44	MP3B	Z	-7.088	.95
45	MP3B	Mx	.004	.95
46	MP3B	X	4.092	4.45
47	MP3B	Z	-7.088	4.45
48	MP3B	Mx	.004	4.45
49	MP3C	X	5.637	.95
50	MP3C	Z	-9.764	.95
51	MP3C	Mx	-.003	.95
52	MP3C	X	5.637	4.45
53	MP3C	Z	-9.764	4.45
54	MP3C	Mx	-.003	4.45
55	M98	X	4.625	1
56	M98	Z	-8.011	1
57	M98	Mx	0	1
58	MP3A	X	2.286	2.7
59	MP3A	Z	-3.96	2.7
60	MP3A	Mx	.001	2.7
61	MP3B	X	1.666	2.7
62	MP3B	Z	-2.886	2.7
63	MP3B	Mx	-.002	2.7
64	MP3C	X	2.286	2.7
65	MP3C	Z	-3.96	2.7
66	MP3C	Mx	.001	2.7
67	MP2A	X	2.207	2.7
68	MP2A	Z	-3.823	2.7
69	MP2A	Mx	.001	2.7
70	MP2B	X	1.35	2.7
71	MP2B	Z	-2.338	2.7
72	MP2B	Mx	-.001	2.7
73	MP2C	X	2.207	2.7
74	MP2C	Z	-3.823	2.7
75	MP2C	Mx	.001	2.7
76	MP2A	X	4.914	.95
77	MP2A	Z	-8.511	.95
78	MP2A	Mx	.003	.95
79	MP2A	X	4.914	4.45
80	MP2A	Z	-8.511	4.45
81	MP2A	Mx	.003	4.45
82	MP2B	X	3.56	.95
83	MP2B	Z	-6.167	.95
84	MP2B	Mx	.004	.95
85	MP2B	X	3.56	4.45
86	MP2B	Z	-6.167	4.45
87	MP2B	Mx	.004	4.45
88	MP2C	X	4.914	.95
89	MP2C	Z	-8.511	.95

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
90	MP2C	Mx	-.008	.95
91	MP2C	X	4.914	4.45
92	MP2C	Z	-8.511	4.45
93	MP2C	Mx	-.008	4.45
94	MP4A	X	1.167	2.7
95	MP4A	Z	-2.021	2.7
96	MP4A	Mx	-.000292	2.7
97	MP4B	X	.668	2.7
98	MP4B	Z	-1.157	2.7
99	MP4B	Mx	.000334	2.7
100	MP4C	X	1.167	2.7
101	MP4C	Z	-2.021	2.7
102	MP4C	Mx	-.000292	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	2.95	1.7
2	MP1A	Z	-1.703	1.7
3	MP1A	Mx	-.001	1.7
4	MP1A	X	2.95	3.7
5	MP1A	Z	-1.703	3.7
6	MP1A	Mx	-.001	3.7
7	MP1B	X	2.95	1.7
8	MP1B	Z	-1.703	1.7
9	MP1B	Mx	.001	1.7
10	MP1B	X	2.95	3.7
11	MP1B	Z	-1.703	3.7
12	MP1B	Mx	.001	3.7
13	MP1C	X	5.426	1.7
14	MP1C	Z	-3.133	1.7
15	MP1C	Mx	0	1.7
16	MP1C	X	5.426	3.7
17	MP1C	Z	-3.133	3.7
18	MP1C	Mx	0	3.7
19	MP2A	X	6.957	.95
20	MP2A	Z	-4.017	.95
21	MP2A	Mx	-.006	.95
22	MP2A	X	6.957	4.45
23	MP2A	Z	-4.017	4.45
24	MP2A	Mx	-.006	4.45
25	MP2B	X	6.957	.95
26	MP2B	Z	-4.017	.95
27	MP2B	Mx	.000801	.95
28	MP2B	X	6.957	4.45
29	MP2B	Z	-4.017	4.45
30	MP2B	Mx	.000801	4.45
31	MP2C	X	9.328	.95
32	MP2C	Z	-5.385	.95
33	MP2C	Mx	.007	.95
34	MP2C	X	9.328	4.45
35	MP2C	Z	-5.385	4.45
36	MP2C	Mx	.007	4.45
37	MP3A	X	7.98	.95
38	MP3A	Z	-4.607	.95
39	MP3A	Mx	-.004	.95
40	MP3A	X	7.98	4.45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP3A	Z	-4.607	4.45
42	MP3A	Mx	-.004	4.45
43	MP3B	X	7.98	.95
44	MP3B	Z	-4.607	.95
45	MP3B	Mx	.004	.95
46	MP3B	X	7.98	4.45
47	MP3B	Z	-4.607	4.45
48	MP3B	Mx	.004	4.45
49	MP3C	X	10.655	.95
50	MP3C	Z	-6.152	.95
51	MP3C	Mx	0	.95
52	MP3C	X	10.655	4.45
53	MP3C	Z	-6.152	4.45
54	MP3C	Mx	0	4.45
55	M98	X	6.532	1
56	M98	Z	-3.771	1
57	M98	Mx	0	1
58	MP3A	X	3.244	2.7
59	MP3A	Z	-1.873	2.7
60	MP3A	Mx	.002	2.7
61	MP3B	X	3.244	2.7
62	MP3B	Z	-1.873	2.7
63	MP3B	Mx	-.002	2.7
64	MP3C	X	4.318	2.7
65	MP3C	Z	-2.493	2.7
66	MP3C	Mx	0	2.7
67	MP2A	X	2.833	2.7
68	MP2A	Z	-1.635	2.7
69	MP2A	Mx	.001	2.7
70	MP2B	X	2.833	2.7
71	MP2B	Z	-1.635	2.7
72	MP2B	Mx	-.001	2.7
73	MP2C	X	4.318	2.7
74	MP2C	Z	-2.493	2.7
75	MP2C	Mx	0	2.7
76	MP2A	X	6.948	.95
77	MP2A	Z	-4.012	.95
78	MP2A	Mx	-.000799	.95
79	MP2A	X	6.948	4.45
80	MP2A	Z	-4.012	4.45
81	MP2A	Mx	-.000799	4.45
82	MP2B	X	6.948	.95
83	MP2B	Z	-4.012	.95
84	MP2B	Mx	.006	.95
85	MP2B	X	6.948	4.45
86	MP2B	Z	-4.012	4.45
87	MP2B	Mx	.006	4.45
88	MP2C	X	9.293	.95
89	MP2C	Z	-5.365	.95
90	MP2C	Mx	-.007	.95
91	MP2C	X	9.293	4.45
92	MP2C	Z	-5.365	4.45
93	MP2C	Mx	-.007	4.45
94	MP4A	X	1.445	2.7
95	MP4A	Z	-.834	2.7
96	MP4A	Mx	-.000361	2.7
97	MP4B	X	1.445	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
98	MP4B	Z	-.834	2.7
99	MP4B	Mx	.000361	2.7
100	MP4C	X	2.309	2.7
101	MP4C	Z	-1.333	2.7
102	MP4C	Mx	0	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	2.453	1.7
2	MP1A	Z	0	1.7
3	MP1A	Mx	-.001	1.7
4	MP1A	X	2.453	3.7
5	MP1A	Z	0	3.7
6	MP1A	Mx	-.001	3.7
7	MP1B	X	5.312	1.7
8	MP1B	Z	0	1.7
9	MP1B	Mx	.001	1.7
10	MP1B	X	5.312	3.7
11	MP1B	Z	0	3.7
12	MP1B	Mx	.001	3.7
13	MP1C	X	5.312	1.7
14	MP1C	Z	0	1.7
15	MP1C	Mx	.001	1.7
16	MP1C	X	5.312	3.7
17	MP1C	Z	0	3.7
18	MP1C	Mx	.001	3.7
19	MP2A	X	7.12	.95
20	MP2A	Z	0	.95
21	MP2A	Mx	-.004	.95
22	MP2A	X	7.12	4.45
23	MP2A	Z	0	4.45
24	MP2A	Mx	-.004	4.45
25	MP2B	X	9.858	.95
26	MP2B	Z	0	.95
27	MP2B	Mx	-.003	.95
28	MP2B	X	9.858	4.45
29	MP2B	Z	0	4.45
30	MP2B	Mx	-.003	4.45
31	MP2C	X	9.858	.95
32	MP2C	Z	0	.95
33	MP2C	Mx	.008	.95
34	MP2C	X	9.858	4.45
35	MP2C	Z	0	4.45
36	MP2C	Mx	.008	4.45
37	MP3A	X	8.185	.95
38	MP3A	Z	0	.95
39	MP3A	Mx	-.004	.95
40	MP3A	X	8.185	4.45
41	MP3A	Z	0	4.45
42	MP3A	Mx	-.004	4.45
43	MP3B	X	11.274	.95
44	MP3B	Z	0	.95
45	MP3B	Mx	.003	.95
46	MP3B	X	11.274	4.45
47	MP3B	Z	0	4.45
48	MP3B	Mx	.003	4.45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
49	MP3C	X	11.274	.95
50	MP3C	Z	0	.95
51	MP3C	Mx	.003	.95
52	MP3C	X	11.274	4.45
53	MP3C	Z	0	4.45
54	MP3C	Mx	.003	4.45
55	M98	X	6.688	1
56	M98	Z	0	1
57	M98	Mx	0	1
58	MP3A	X	3.333	2.7
59	MP3A	Z	0	2.7
60	MP3A	Mx	.002	2.7
61	MP3B	X	4.572	2.7
62	MP3B	Z	0	2.7
63	MP3B	Mx	-.001	2.7
64	MP3C	X	4.572	2.7
65	MP3C	Z	0	2.7
66	MP3C	Mx	-.001	2.7
67	MP2A	X	2.699	2.7
68	MP2A	Z	0	2.7
69	MP2A	Mx	.001	2.7
70	MP2B	X	4.414	2.7
71	MP2B	Z	0	2.7
72	MP2B	Mx	-.001	2.7
73	MP2C	X	4.414	2.7
74	MP2C	Z	0	2.7
75	MP2C	Mx	-.001	2.7
76	MP2A	X	7.12	.95
77	MP2A	Z	0	.95
78	MP2A	Mx	-.004	.95
79	MP2A	X	7.12	4.45
80	MP2A	Z	0	4.45
81	MP2A	Mx	-.004	4.45
82	MP2B	X	9.828	.95
83	MP2B	Z	0	.95
84	MP2B	Mx	.008	.95
85	MP2B	X	9.828	4.45
86	MP2B	Z	0	4.45
87	MP2B	Mx	.008	4.45
88	MP2C	X	9.828	.95
89	MP2C	Z	0	.95
90	MP2C	Mx	-.003	.95
91	MP2C	X	9.828	4.45
92	MP2C	Z	0	4.45
93	MP2C	Mx	-.003	4.45
94	MP4A	X	1.336	2.7
95	MP4A	Z	0	2.7
96	MP4A	Mx	-.000334	2.7
97	MP4B	X	2.333	2.7
98	MP4B	Z	0	2.7
99	MP4B	Mx	.000292	2.7
100	MP4C	X	2.333	2.7
101	MP4C	Z	0	2.7
102	MP4C	Mx	.000292	2.7

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	2.95	1.7
2	MP1A	Z	1.703	1.7
3	MP1A	Mx	-.001	1.7
4	MP1A	X	2.95	3.7
5	MP1A	Z	1.703	3.7
6	MP1A	Mx	-.001	3.7
7	MP1B	X	5.426	1.7
8	MP1B	Z	3.133	1.7
9	MP1B	Mx	0	1.7
10	MP1B	X	5.426	3.7
11	MP1B	Z	3.133	3.7
12	MP1B	Mx	0	3.7
13	MP1C	X	2.95	1.7
14	MP1C	Z	1.703	1.7
15	MP1C	Mx	.001	1.7
16	MP1C	X	2.95	3.7
17	MP1C	Z	1.703	3.7
18	MP1C	Mx	.001	3.7
19	MP2A	X	6.957	.95
20	MP2A	Z	4.017	.95
21	MP2A	Mx	-.0008	.95
22	MP2A	X	6.957	4.45
23	MP2A	Z	4.017	4.45
24	MP2A	Mx	-.0008	4.45
25	MP2B	X	9.328	.95
26	MP2B	Z	5.385	.95
27	MP2B	Mx	-.007	.95
28	MP2B	X	9.328	4.45
29	MP2B	Z	5.385	4.45
30	MP2B	Mx	-.007	4.45
31	MP2C	X	6.957	.95
32	MP2C	Z	4.017	.95
33	MP2C	Mx	.006	.95
34	MP2C	X	6.957	4.45
35	MP2C	Z	4.017	4.45
36	MP2C	Mx	.006	4.45
37	MP3A	X	7.98	.95
38	MP3A	Z	4.607	.95
39	MP3A	Mx	-.004	.95
40	MP3A	X	7.98	4.45
41	MP3A	Z	4.607	4.45
42	MP3A	Mx	-.004	4.45
43	MP3B	X	10.655	.95
44	MP3B	Z	6.152	.95
45	MP3B	Mx	0	.95
46	MP3B	X	10.655	4.45
47	MP3B	Z	6.152	4.45
48	MP3B	Mx	0	4.45
49	MP3C	X	7.98	.95
50	MP3C	Z	4.607	.95
51	MP3C	Mx	.004	.95
52	MP3C	X	7.98	4.45
53	MP3C	Z	4.607	4.45
54	MP3C	Mx	.004	4.45
55	M98	X	6.532	1
56	M98	Z	3.771	1
57	M98	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP3A	X	3.244	2.7
59	MP3A	Z	1.873	2.7
60	MP3A	Mx	.002	2.7
61	MP3B	X	4.318	2.7
62	MP3B	Z	2.493	2.7
63	MP3B	Mx	0	2.7
64	MP3C	X	3.244	2.7
65	MP3C	Z	1.873	2.7
66	MP3C	Mx	-.002	2.7
67	MP2A	X	2.833	2.7
68	MP2A	Z	1.635	2.7
69	MP2A	Mx	.001	2.7
70	MP2B	X	4.318	2.7
71	MP2B	Z	2.493	2.7
72	MP2B	Mx	0	2.7
73	MP2C	X	2.833	2.7
74	MP2C	Z	1.635	2.7
75	MP2C	Mx	-.001	2.7
76	MP2A	X	6.948	.95
77	MP2A	Z	4.012	.95
78	MP2A	Mx	-.006	.95
79	MP2A	X	6.948	4.45
80	MP2A	Z	4.012	4.45
81	MP2A	Mx	-.006	4.45
82	MP2B	X	9.293	.95
83	MP2B	Z	5.365	.95
84	MP2B	Mx	.007	.95
85	MP2B	X	9.293	4.45
86	MP2B	Z	5.365	4.45
87	MP2B	Mx	.007	4.45
88	MP2C	X	6.948	.95
89	MP2C	Z	4.012	.95
90	MP2C	Mx	.0008	.95
91	MP2C	X	6.948	4.45
92	MP2C	Z	4.012	4.45
93	MP2C	Mx	.0008	4.45
94	MP4A	X	1.445	2.7
95	MP4A	Z	.834	2.7
96	MP4A	Mx	-.000361	2.7
97	MP4B	X	2.309	2.7
98	MP4B	Z	1.333	2.7
99	MP4B	Mx	0	2.7
100	MP4C	X	1.445	2.7
101	MP4C	Z	.834	2.7
102	MP4C	Mx	.000361	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	2.656	1.7
2	MP1A	Z	4.6	1.7
3	MP1A	Mx	-.001	1.7
4	MP1A	X	2.656	3.7
5	MP1A	Z	4.6	3.7
6	MP1A	Mx	-.001	3.7
7	MP1B	X	2.656	1.7
8	MP1B	Z	4.6	1.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP1B	Mx	-.001	1.7
10	MP1B	X	2.656	3.7
11	MP1B	Z	4.6	3.7
12	MP1B	Mx	-.001	3.7
13	MP1C	X	1.226	1.7
14	MP1C	Z	2.124	1.7
15	MP1C	Mx	.001	1.7
16	MP1C	X	1.226	3.7
17	MP1C	Z	2.124	3.7
18	MP1C	Mx	.001	3.7
19	MP2A	X	4.929	.95
20	MP2A	Z	8.537	.95
21	MP2A	Mx	.003	.95
22	MP2A	X	4.929	4.45
23	MP2A	Z	8.537	4.45
24	MP2A	Mx	.003	4.45
25	MP2B	X	4.929	.95
26	MP2B	Z	8.537	.95
27	MP2B	Mx	-.008	.95
28	MP2B	X	4.929	4.45
29	MP2B	Z	8.537	4.45
30	MP2B	Mx	-.008	4.45
31	MP2C	X	3.56	.95
32	MP2C	Z	6.167	.95
33	MP2C	Mx	.004	.95
34	MP2C	X	3.56	4.45
35	MP2C	Z	6.167	4.45
36	MP2C	Mx	.004	4.45
37	MP3A	X	5.637	.95
38	MP3A	Z	9.764	.95
39	MP3A	Mx	-.003	.95
40	MP3A	X	5.637	4.45
41	MP3A	Z	9.764	4.45
42	MP3A	Mx	-.003	4.45
43	MP3B	X	5.637	.95
44	MP3B	Z	9.764	.95
45	MP3B	Mx	-.003	.95
46	MP3B	X	5.637	4.45
47	MP3B	Z	9.764	4.45
48	MP3B	Mx	-.003	4.45
49	MP3C	X	4.092	.95
50	MP3C	Z	7.088	.95
51	MP3C	Mx	.004	.95
52	MP3C	X	4.092	4.45
53	MP3C	Z	7.088	4.45
54	MP3C	Mx	.004	4.45
55	M98	X	4.625	1
56	M98	Z	8.011	1
57	M98	Mx	0	1
58	MP3A	X	2.286	2.7
59	MP3A	Z	3.96	2.7
60	MP3A	Mx	.001	2.7
61	MP3B	X	2.286	2.7
62	MP3B	Z	3.96	2.7
63	MP3B	Mx	.001	2.7
64	MP3C	X	1.666	2.7
65	MP3C	Z	2.886	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
66	MP3C	Mx	-.002	2.7
67	MP2A	X	2.207	2.7
68	MP2A	Z	3.823	2.7
69	MP2A	Mx	.001	2.7
70	MP2B	X	2.207	2.7
71	MP2B	Z	3.823	2.7
72	MP2B	Mx	.001	2.7
73	MP2C	X	1.35	2.7
74	MP2C	Z	2.338	2.7
75	MP2C	Mx	-.001	2.7
76	MP2A	X	4.914	.95
77	MP2A	Z	8.511	.95
78	MP2A	Mx	-.008	.95
79	MP2A	X	4.914	4.45
80	MP2A	Z	8.511	4.45
81	MP2A	Mx	-.008	4.45
82	MP2B	X	4.914	.95
83	MP2B	Z	8.511	.95
84	MP2B	Mx	.003	.95
85	MP2B	X	4.914	4.45
86	MP2B	Z	8.511	4.45
87	MP2B	Mx	.003	4.45
88	MP2C	X	3.56	.95
89	MP2C	Z	6.167	.95
90	MP2C	Mx	.004	.95
91	MP2C	X	3.56	4.45
92	MP2C	Z	6.167	4.45
93	MP2C	Mx	.004	4.45
94	MP4A	X	1.167	2.7
95	MP4A	Z	2.021	2.7
96	MP4A	Mx	-.000292	2.7
97	MP4B	X	1.167	2.7
98	MP4B	Z	2.021	2.7
99	MP4B	Mx	-.000292	2.7
100	MP4C	X	.668	2.7
101	MP4C	Z	1.157	2.7
102	MP4C	Mx	.000334	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	1.7
2	MP1A	Z	6.265	1.7
3	MP1A	Mx	0	1.7
4	MP1A	X	0	3.7
5	MP1A	Z	6.265	3.7
6	MP1A	Mx	0	3.7
7	MP1B	X	0	1.7
8	MP1B	Z	3.406	1.7
9	MP1B	Mx	-.001	1.7
10	MP1B	X	0	3.7
11	MP1B	Z	3.406	3.7
12	MP1B	Mx	-.001	3.7
13	MP1C	X	0	1.7
14	MP1C	Z	3.406	1.7
15	MP1C	Mx	.001	1.7
16	MP1C	X	0	3.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP1C	Z	3.406	3.7
18	MP1C	Mx	.001	3.7
19	MP2A	X	0	.95
20	MP2A	Z	10.771	.95
21	MP2A	Mx	.007	.95
22	MP2A	X	0	4.45
23	MP2A	Z	10.771	4.45
24	MP2A	Mx	.007	4.45
25	MP2B	X	0	.95
26	MP2B	Z	8.033	.95
27	MP2B	Mx	-.006	.95
28	MP2B	X	0	4.45
29	MP2B	Z	8.033	4.45
30	MP2B	Mx	-.006	4.45
31	MP2C	X	0	.95
32	MP2C	Z	8.033	.95
33	MP2C	Mx	.000801	.95
34	MP2C	X	0	4.45
35	MP2C	Z	8.033	4.45
36	MP2C	Mx	.000801	4.45
37	MP3A	X	0	.95
38	MP3A	Z	12.304	.95
39	MP3A	Mx	0	.95
40	MP3A	X	0	4.45
41	MP3A	Z	12.304	4.45
42	MP3A	Mx	0	4.45
43	MP3B	X	0	.95
44	MP3B	Z	9.215	.95
45	MP3B	Mx	-.004	.95
46	MP3B	X	0	4.45
47	MP3B	Z	9.215	4.45
48	MP3B	Mx	-.004	4.45
49	MP3C	X	0	.95
50	MP3C	Z	9.215	.95
51	MP3C	Mx	.004	.95
52	MP3C	X	0	4.45
53	MP3C	Z	9.215	4.45
54	MP3C	Mx	.004	4.45
55	M98	X	0	1
56	M98	Z	10.104	1
57	M98	Mx	0	1
58	MP3A	X	0	2.7
59	MP3A	Z	4.985	2.7
60	MP3A	Mx	0	2.7
61	MP3B	X	0	2.7
62	MP3B	Z	3.746	2.7
63	MP3B	Mx	.002	2.7
64	MP3C	X	0	2.7
65	MP3C	Z	3.746	2.7
66	MP3C	Mx	-.002	2.7
67	MP2A	X	0	2.7
68	MP2A	Z	4.985	2.7
69	MP2A	Mx	0	2.7
70	MP2B	X	0	2.7
71	MP2B	Z	3.271	2.7
72	MP2B	Mx	.001	2.7
73	MP2C	X	0	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP2C	Z	3.271	2.7
75	MP2C	Mx	-.001	2.7
76	MP2A	X	0	.95
77	MP2A	Z	10.731	.95
78	MP2A	Mx	-.007	.95
79	MP2A	X	0	4.45
80	MP2A	Z	10.731	4.45
81	MP2A	Mx	-.007	4.45
82	MP2B	X	0	.95
83	MP2B	Z	8.023	.95
84	MP2B	Mx	-.0008	.95
85	MP2B	X	0	4.45
86	MP2B	Z	8.023	4.45
87	MP2B	Mx	-.0008	4.45
88	MP2C	X	0	.95
89	MP2C	Z	8.023	.95
90	MP2C	Mx	.006	.95
91	MP2C	X	0	4.45
92	MP2C	Z	8.023	4.45
93	MP2C	Mx	.006	4.45
94	MP4A	X	0	2.7
95	MP4A	Z	2.666	2.7
96	MP4A	Mx	0	2.7
97	MP4B	X	0	2.7
98	MP4B	Z	1.668	2.7
99	MP4B	Mx	-.000361	2.7
100	MP4C	X	0	2.7
101	MP4C	Z	1.668	2.7
102	MP4C	Mx	.000361	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-2.656	1.7
2	MP1A	Z	4.6	1.7
3	MP1A	Mx	.001	1.7
4	MP1A	X	-2.656	3.7
5	MP1A	Z	4.6	3.7
6	MP1A	Mx	.001	3.7
7	MP1B	X	-1.226	1.7
8	MP1B	Z	2.124	1.7
9	MP1B	Mx	-.001	1.7
10	MP1B	X	-1.226	3.7
11	MP1B	Z	2.124	3.7
12	MP1B	Mx	-.001	3.7
13	MP1C	X	-2.656	1.7
14	MP1C	Z	4.6	1.7
15	MP1C	Mx	.001	1.7
16	MP1C	X	-2.656	3.7
17	MP1C	Z	4.6	3.7
18	MP1C	Mx	.001	3.7
19	MP2A	X	-4.929	.95
20	MP2A	Z	8.537	.95
21	MP2A	Mx	.008	.95
22	MP2A	X	-4.929	4.45
23	MP2A	Z	8.537	4.45
24	MP2A	Mx	.008	4.45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2B	X	-3.56	.95
26	MP2B	Z	6.167	.95
27	MP2B	Mx	-.004	.95
28	MP2B	X	-3.56	4.45
29	MP2B	Z	6.167	4.45
30	MP2B	Mx	-.004	4.45
31	MP2C	X	-4.929	.95
32	MP2C	Z	8.537	.95
33	MP2C	Mx	-.003	.95
34	MP2C	X	-4.929	4.45
35	MP2C	Z	8.537	4.45
36	MP2C	Mx	-.003	4.45
37	MP3A	X	-5.637	.95
38	MP3A	Z	9.764	.95
39	MP3A	Mx	.003	.95
40	MP3A	X	-5.637	4.45
41	MP3A	Z	9.764	4.45
42	MP3A	Mx	.003	4.45
43	MP3B	X	-4.092	.95
44	MP3B	Z	7.088	.95
45	MP3B	Mx	-.004	.95
46	MP3B	X	-4.092	4.45
47	MP3B	Z	7.088	4.45
48	MP3B	Mx	-.004	4.45
49	MP3C	X	-5.637	.95
50	MP3C	Z	9.764	.95
51	MP3C	Mx	.003	.95
52	MP3C	X	-5.637	4.45
53	MP3C	Z	9.764	4.45
54	MP3C	Mx	.003	4.45
55	M98	X	-4.625	1
56	M98	Z	8.011	1
57	M98	Mx	0	1
58	MP3A	X	-2.286	2.7
59	MP3A	Z	3.96	2.7
60	MP3A	Mx	-.001	2.7
61	MP3B	X	-1.666	2.7
62	MP3B	Z	2.886	2.7
63	MP3B	Mx	.002	2.7
64	MP3C	X	-2.286	2.7
65	MP3C	Z	3.96	2.7
66	MP3C	Mx	-.001	2.7
67	MP2A	X	-2.207	2.7
68	MP2A	Z	3.823	2.7
69	MP2A	Mx	-.001	2.7
70	MP2B	X	-1.35	2.7
71	MP2B	Z	2.338	2.7
72	MP2B	Mx	.001	2.7
73	MP2C	X	-2.207	2.7
74	MP2C	Z	3.823	2.7
75	MP2C	Mx	-.001	2.7
76	MP2A	X	-4.914	.95
77	MP2A	Z	8.511	.95
78	MP2A	Mx	-.003	.95
79	MP2A	X	-4.914	4.45
80	MP2A	Z	8.511	4.45
81	MP2A	Mx	-.003	4.45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
82	MP2B	X	-3.56	.95
83	MP2B	Z	6.167	.95
84	MP2B	Mx	-.004	.95
85	MP2B	X	-3.56	4.45
86	MP2B	Z	6.167	4.45
87	MP2B	Mx	-.004	4.45
88	MP2C	X	-4.914	.95
89	MP2C	Z	8.511	.95
90	MP2C	Mx	.008	.95
91	MP2C	X	-4.914	4.45
92	MP2C	Z	8.511	4.45
93	MP2C	Mx	.008	4.45
94	MP4A	X	-1.167	2.7
95	MP4A	Z	2.021	2.7
96	MP4A	Mx	.000292	2.7
97	MP4B	X	-.668	2.7
98	MP4B	Z	1.157	2.7
99	MP4B	Mx	-.000334	2.7
100	MP4C	X	-1.167	2.7
101	MP4C	Z	2.021	2.7
102	MP4C	Mx	.000292	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-2.95	1.7
2	MP1A	Z	1.703	1.7
3	MP1A	Mx	.001	1.7
4	MP1A	X	-2.95	3.7
5	MP1A	Z	1.703	3.7
6	MP1A	Mx	.001	3.7
7	MP1B	X	-2.95	1.7
8	MP1B	Z	1.703	1.7
9	MP1B	Mx	-.001	1.7
10	MP1B	X	-2.95	3.7
11	MP1B	Z	1.703	3.7
12	MP1B	Mx	-.001	3.7
13	MP1C	X	-5.426	1.7
14	MP1C	Z	3.133	1.7
15	MP1C	Mx	0	1.7
16	MP1C	X	-5.426	3.7
17	MP1C	Z	3.133	3.7
18	MP1C	Mx	0	3.7
19	MP2A	X	-6.957	.95
20	MP2A	Z	4.017	.95
21	MP2A	Mx	.006	.95
22	MP2A	X	-6.957	4.45
23	MP2A	Z	4.017	4.45
24	MP2A	Mx	.006	4.45
25	MP2B	X	-6.957	.95
26	MP2B	Z	4.017	.95
27	MP2B	Mx	-.000801	.95
28	MP2B	X	-6.957	4.45
29	MP2B	Z	4.017	4.45
30	MP2B	Mx	-.000801	4.45
31	MP2C	X	-9.328	.95
32	MP2C	Z	5.385	.95

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP2C	Mx	-.007	.95
34	MP2C	X	-9.328	4.45
35	MP2C	Z	5.385	4.45
36	MP2C	Mx	-.007	4.45
37	MP3A	X	-7.98	.95
38	MP3A	Z	4.607	.95
39	MP3A	Mx	.004	.95
40	MP3A	X	-7.98	4.45
41	MP3A	Z	4.607	4.45
42	MP3A	Mx	.004	4.45
43	MP3B	X	-7.98	.95
44	MP3B	Z	4.607	.95
45	MP3B	Mx	-.004	.95
46	MP3B	X	-7.98	4.45
47	MP3B	Z	4.607	4.45
48	MP3B	Mx	-.004	4.45
49	MP3C	X	-10.655	.95
50	MP3C	Z	6.152	.95
51	MP3C	Mx	0	.95
52	MP3C	X	-10.655	4.45
53	MP3C	Z	6.152	4.45
54	MP3C	Mx	0	4.45
55	M98	X	-6.532	1
56	M98	Z	3.771	1
57	M98	Mx	0	1
58	MP3A	X	-3.244	2.7
59	MP3A	Z	1.873	2.7
60	MP3A	Mx	-.002	2.7
61	MP3B	X	-3.244	2.7
62	MP3B	Z	1.873	2.7
63	MP3B	Mx	.002	2.7
64	MP3C	X	-4.318	2.7
65	MP3C	Z	2.493	2.7
66	MP3C	Mx	0	2.7
67	MP2A	X	-2.833	2.7
68	MP2A	Z	1.635	2.7
69	MP2A	Mx	-.001	2.7
70	MP2B	X	-2.833	2.7
71	MP2B	Z	1.635	2.7
72	MP2B	Mx	.001	2.7
73	MP2C	X	-4.318	2.7
74	MP2C	Z	2.493	2.7
75	MP2C	Mx	0	2.7
76	MP2A	X	-6.948	.95
77	MP2A	Z	4.012	.95
78	MP2A	Mx	.000799	.95
79	MP2A	X	-6.948	4.45
80	MP2A	Z	4.012	4.45
81	MP2A	Mx	.000799	4.45
82	MP2B	X	-6.948	.95
83	MP2B	Z	4.012	.95
84	MP2B	Mx	-.006	.95
85	MP2B	X	-6.948	4.45
86	MP2B	Z	4.012	4.45
87	MP2B	Mx	-.006	4.45
88	MP2C	X	-9.293	.95
89	MP2C	Z	5.365	.95

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
90	MP2C	Mx	.007	.95
91	MP2C	X	-9.293	4.45
92	MP2C	Z	5.365	4.45
93	MP2C	Mx	.007	4.45
94	MP4A	X	-1.445	2.7
95	MP4A	Z	.834	2.7
96	MP4A	Mx	.000361	2.7
97	MP4B	X	-1.445	2.7
98	MP4B	Z	.834	2.7
99	MP4B	Mx	-.000361	2.7
100	MP4C	X	-2.309	2.7
101	MP4C	Z	1.333	2.7
102	MP4C	Mx	0	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-2.453	1.7
2	MP1A	Z	0	1.7
3	MP1A	Mx	.001	1.7
4	MP1A	X	-2.453	3.7
5	MP1A	Z	0	3.7
6	MP1A	Mx	.001	3.7
7	MP1B	X	-5.312	1.7
8	MP1B	Z	0	1.7
9	MP1B	Mx	-.001	1.7
10	MP1B	X	-5.312	3.7
11	MP1B	Z	0	3.7
12	MP1B	Mx	-.001	3.7
13	MP1C	X	-5.312	1.7
14	MP1C	Z	0	1.7
15	MP1C	Mx	-.001	1.7
16	MP1C	X	-5.312	3.7
17	MP1C	Z	0	3.7
18	MP1C	Mx	-.001	3.7
19	MP2A	X	-7.12	.95
20	MP2A	Z	0	.95
21	MP2A	Mx	.004	.95
22	MP2A	X	-7.12	4.45
23	MP2A	Z	0	4.45
24	MP2A	Mx	.004	4.45
25	MP2B	X	-9.858	.95
26	MP2B	Z	0	.95
27	MP2B	Mx	.003	.95
28	MP2B	X	-9.858	4.45
29	MP2B	Z	0	4.45
30	MP2B	Mx	.003	4.45
31	MP2C	X	-9.858	.95
32	MP2C	Z	0	.95
33	MP2C	Mx	-.008	.95
34	MP2C	X	-9.858	4.45
35	MP2C	Z	0	4.45
36	MP2C	Mx	-.008	4.45
37	MP3A	X	-8.185	.95
38	MP3A	Z	0	.95
39	MP3A	Mx	.004	.95
40	MP3A	X	-8.185	4.45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP3A	Z	0	4.45
42	MP3A	Mx	.004	4.45
43	MP3B	X	-11.274	.95
44	MP3B	Z	0	.95
45	MP3B	Mx	-.003	.95
46	MP3B	X	-11.274	4.45
47	MP3B	Z	0	4.45
48	MP3B	Mx	-.003	4.45
49	MP3C	X	-11.274	.95
50	MP3C	Z	0	.95
51	MP3C	Mx	-.003	.95
52	MP3C	X	-11.274	4.45
53	MP3C	Z	0	4.45
54	MP3C	Mx	-.003	4.45
55	M98	X	-6.688	1
56	M98	Z	0	1
57	M98	Mx	0	1
58	MP3A	X	-3.333	2.7
59	MP3A	Z	0	2.7
60	MP3A	Mx	-.002	2.7
61	MP3B	X	-4.572	2.7
62	MP3B	Z	0	2.7
63	MP3B	Mx	.001	2.7
64	MP3C	X	-4.572	2.7
65	MP3C	Z	0	2.7
66	MP3C	Mx	.001	2.7
67	MP2A	X	-2.699	2.7
68	MP2A	Z	0	2.7
69	MP2A	Mx	-.001	2.7
70	MP2B	X	-4.414	2.7
71	MP2B	Z	0	2.7
72	MP2B	Mx	.001	2.7
73	MP2C	X	-4.414	2.7
74	MP2C	Z	0	2.7
75	MP2C	Mx	.001	2.7
76	MP2A	X	-7.12	.95
77	MP2A	Z	0	.95
78	MP2A	Mx	.004	.95
79	MP2A	X	-7.12	4.45
80	MP2A	Z	0	4.45
81	MP2A	Mx	.004	4.45
82	MP2B	X	-9.828	.95
83	MP2B	Z	0	.95
84	MP2B	Mx	-.008	.95
85	MP2B	X	-9.828	4.45
86	MP2B	Z	0	4.45
87	MP2B	Mx	-.008	4.45
88	MP2C	X	-9.828	.95
89	MP2C	Z	0	.95
90	MP2C	Mx	.003	.95
91	MP2C	X	-9.828	4.45
92	MP2C	Z	0	4.45
93	MP2C	Mx	.003	4.45
94	MP4A	X	-1.336	2.7
95	MP4A	Z	0	2.7
96	MP4A	Mx	.000334	2.7
97	MP4B	X	-2.333	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
98	MP4B	Z	0	2.7
99	MP4B	Mx	-.000292	2.7
100	MP4C	X	-2.333	2.7
101	MP4C	Z	0	2.7
102	MP4C	Mx	-.000292	2.7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-2.95	1.7
2	MP1A	Z	-1.703	1.7
3	MP1A	Mx	.001	1.7
4	MP1A	X	-2.95	3.7
5	MP1A	Z	-1.703	3.7
6	MP1A	Mx	.001	3.7
7	MP1B	X	-5.426	1.7
8	MP1B	Z	-3.133	1.7
9	MP1B	Mx	0	1.7
10	MP1B	X	-5.426	3.7
11	MP1B	Z	-3.133	3.7
12	MP1B	Mx	0	3.7
13	MP1C	X	-2.95	1.7
14	MP1C	Z	-1.703	1.7
15	MP1C	Mx	-.001	1.7
16	MP1C	X	-2.95	3.7
17	MP1C	Z	-1.703	3.7
18	MP1C	Mx	-.001	3.7
19	MP2A	X	-6.957	.95
20	MP2A	Z	-4.017	.95
21	MP2A	Mx	.0008	.95
22	MP2A	X	-6.957	4.45
23	MP2A	Z	-4.017	4.45
24	MP2A	Mx	.0008	4.45
25	MP2B	X	-9.328	.95
26	MP2B	Z	-5.385	.95
27	MP2B	Mx	.007	.95
28	MP2B	X	-9.328	4.45
29	MP2B	Z	-5.385	4.45
30	MP2B	Mx	.007	4.45
31	MP2C	X	-6.957	.95
32	MP2C	Z	-4.017	.95
33	MP2C	Mx	-.006	.95
34	MP2C	X	-6.957	4.45
35	MP2C	Z	-4.017	4.45
36	MP2C	Mx	-.006	4.45
37	MP3A	X	-7.98	.95
38	MP3A	Z	-4.607	.95
39	MP3A	Mx	.004	.95
40	MP3A	X	-7.98	4.45
41	MP3A	Z	-4.607	4.45
42	MP3A	Mx	.004	4.45
43	MP3B	X	-10.655	.95
44	MP3B	Z	-6.152	.95
45	MP3B	Mx	0	.95
46	MP3B	X	-10.655	4.45
47	MP3B	Z	-6.152	4.45
48	MP3B	Mx	0	4.45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
49	MP3C	X	-7.98	.95
50	MP3C	Z	-4.607	.95
51	MP3C	Mx	-.004	.95
52	MP3C	X	-7.98	4.45
53	MP3C	Z	-4.607	4.45
54	MP3C	Mx	-.004	4.45
55	M98	X	-6.532	1
56	M98	Z	-3.771	1
57	M98	Mx	0	1
58	MP3A	X	-3.244	2.7
59	MP3A	Z	-1.873	2.7
60	MP3A	Mx	-.002	2.7
61	MP3B	X	-4.318	2.7
62	MP3B	Z	-2.493	2.7
63	MP3B	Mx	0	2.7
64	MP3C	X	-3.244	2.7
65	MP3C	Z	-1.873	2.7
66	MP3C	Mx	.002	2.7
67	MP2A	X	-2.833	2.7
68	MP2A	Z	-1.635	2.7
69	MP2A	Mx	-.001	2.7
70	MP2B	X	-4.318	2.7
71	MP2B	Z	-2.493	2.7
72	MP2B	Mx	0	2.7
73	MP2C	X	-2.833	2.7
74	MP2C	Z	-1.635	2.7
75	MP2C	Mx	.001	2.7
76	MP2A	X	-6.948	.95
77	MP2A	Z	-4.012	.95
78	MP2A	Mx	.006	.95
79	MP2A	X	-6.948	4.45
80	MP2A	Z	-4.012	4.45
81	MP2A	Mx	.006	4.45
82	MP2B	X	-9.293	.95
83	MP2B	Z	-5.365	.95
84	MP2B	Mx	-.007	.95
85	MP2B	X	-9.293	4.45
86	MP2B	Z	-5.365	4.45
87	MP2B	Mx	-.007	4.45
88	MP2C	X	-6.948	.95
89	MP2C	Z	-4.012	.95
90	MP2C	Mx	-.0008	.95
91	MP2C	X	-6.948	4.45
92	MP2C	Z	-4.012	4.45
93	MP2C	Mx	-.0008	4.45
94	MP4A	X	-1.445	2.7
95	MP4A	Z	-.834	2.7
96	MP4A	Mx	.000361	2.7
97	MP4B	X	-2.309	2.7
98	MP4B	Z	-1.333	2.7
99	MP4B	Mx	0	2.7
100	MP4C	X	-1.445	2.7
101	MP4C	Z	-.834	2.7
102	MP4C	Mx	-.000361	2.7

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-2.656	1.7
2	MP1A	Z	-4.6	1.7
3	MP1A	Mx	.001	1.7
4	MP1A	X	-2.656	3.7
5	MP1A	Z	-4.6	3.7
6	MP1A	Mx	.001	3.7
7	MP1B	X	-2.656	1.7
8	MP1B	Z	-4.6	1.7
9	MP1B	Mx	.001	1.7
10	MP1B	X	-2.656	3.7
11	MP1B	Z	-4.6	3.7
12	MP1B	Mx	.001	3.7
13	MP1C	X	-1.226	1.7
14	MP1C	Z	-2.124	1.7
15	MP1C	Mx	-.001	1.7
16	MP1C	X	-1.226	3.7
17	MP1C	Z	-2.124	3.7
18	MP1C	Mx	-.001	3.7
19	MP2A	X	-4.929	.95
20	MP2A	Z	-8.537	.95
21	MP2A	Mx	-.003	.95
22	MP2A	X	-4.929	4.45
23	MP2A	Z	-8.537	4.45
24	MP2A	Mx	-.003	4.45
25	MP2B	X	-4.929	.95
26	MP2B	Z	-8.537	.95
27	MP2B	Mx	.008	.95
28	MP2B	X	-4.929	4.45
29	MP2B	Z	-8.537	4.45
30	MP2B	Mx	.008	4.45
31	MP2C	X	-3.56	.95
32	MP2C	Z	-6.167	.95
33	MP2C	Mx	-.004	.95
34	MP2C	X	-3.56	4.45
35	MP2C	Z	-6.167	4.45
36	MP2C	Mx	-.004	4.45
37	MP3A	X	-5.637	.95
38	MP3A	Z	-9.764	.95
39	MP3A	Mx	.003	.95
40	MP3A	X	-5.637	4.45
41	MP3A	Z	-9.764	4.45
42	MP3A	Mx	.003	4.45
43	MP3B	X	-5.637	.95
44	MP3B	Z	-9.764	.95
45	MP3B	Mx	.003	.95
46	MP3B	X	-5.637	4.45
47	MP3B	Z	-9.764	4.45
48	MP3B	Mx	.003	4.45
49	MP3C	X	-4.092	.95
50	MP3C	Z	-7.088	.95
51	MP3C	Mx	-.004	.95
52	MP3C	X	-4.092	4.45
53	MP3C	Z	-7.088	4.45
54	MP3C	Mx	-.004	4.45
55	M98	X	-4.625	1
56	M98	Z	-8.011	1
57	M98	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP3A	X	-2.286	2.7
59	MP3A	Z	-3.96	2.7
60	MP3A	Mx	-.001	2.7
61	MP3B	X	-2.286	2.7
62	MP3B	Z	-3.96	2.7
63	MP3B	Mx	-.001	2.7
64	MP3C	X	-1.666	2.7
65	MP3C	Z	-2.886	2.7
66	MP3C	Mx	.002	2.7
67	MP2A	X	-2.207	2.7
68	MP2A	Z	-3.823	2.7
69	MP2A	Mx	-.001	2.7
70	MP2B	X	-2.207	2.7
71	MP2B	Z	-3.823	2.7
72	MP2B	Mx	-.001	2.7
73	MP2C	X	-1.35	2.7
74	MP2C	Z	-2.338	2.7
75	MP2C	Mx	.001	2.7
76	MP2A	X	-4.914	.95
77	MP2A	Z	-8.511	.95
78	MP2A	Mx	.008	.95
79	MP2A	X	-4.914	4.45
80	MP2A	Z	-8.511	4.45
81	MP2A	Mx	.008	4.45
82	MP2B	X	-4.914	.95
83	MP2B	Z	-8.511	.95
84	MP2B	Mx	-.003	.95
85	MP2B	X	-4.914	4.45
86	MP2B	Z	-8.511	4.45
87	MP2B	Mx	-.003	4.45
88	MP2C	X	-3.56	.95
89	MP2C	Z	-6.167	.95
90	MP2C	Mx	-.004	.95
91	MP2C	X	-3.56	4.45
92	MP2C	Z	-6.167	4.45
93	MP2C	Mx	-.004	4.45
94	MP4A	X	-1.167	2.7
95	MP4A	Z	-2.021	2.7
96	MP4A	Mx	.000292	2.7
97	MP4B	X	-1.167	2.7
98	MP4B	Z	-2.021	2.7
99	MP4B	Mx	.000292	2.7
100	MP4C	X	-.668	2.7
101	MP4C	Z	-1.157	2.7
102	MP4C	Mx	-.000334	2.7

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M20	Y	-500	%53

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M20	Y	-500	%19

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 79 : Lv1) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M20	Y	-250	%50

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M20	Y	-250	%100

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M13	Y	-15.717	-15.717	0	%100
2	M20	Y	-11.133	-11.133	0	%100
3	MP1A	Y	-8.743	-8.743	0	%100
4	M41A	Y	-15.717	-15.717	0	%100
5	M42_1	Y	-15.717	-15.717	0	%100
6	M43A_1	Y	-16.49	-16.49	0	%100
7	M46A	Y	-9.706	-9.706	0	%100
8	M47	Y	-9.706	-9.706	0	%100
9	M64	Y	-16.471	-16.471	0	%100
10	M65	Y	-16.471	-16.471	0	%100
11	M71	Y	-16.49	-16.49	0	%100
12	M86	Y	-16.471	-16.471	0	%100
13	M87	Y	-16.471	-16.471	0	%100
14	M90	Y	-16.49	-16.49	0	%100
15	M50A	Y	-15.717	-15.717	0	%100
16	M51A	Y	-15.717	-15.717	0	%100
17	M52	Y	-15.717	-15.717	0	%100
18	M53A	Y	-16.49	-16.49	0	%100
19	M56	Y	-9.706	-9.706	0	%100
20	M57	Y	-9.706	-9.706	0	%100
21	M62	Y	-16.471	-16.471	0	%100
22	M63	Y	-16.471	-16.471	0	%100
23	M65A	Y	-16.49	-16.49	0	%100
24	M67	Y	-16.471	-16.471	0	%100
25	M68A	Y	-16.471	-16.471	0	%100
26	M70	Y	-16.49	-16.49	0	%100
27	M72A	Y	-15.717	-15.717	0	%100
28	M73	Y	-15.717	-15.717	0	%100
29	M74	Y	-15.717	-15.717	0	%100
30	M75	Y	-16.49	-16.49	0	%100
31	M78	Y	-9.706	-9.706	0	%100
32	M79	Y	-9.706	-9.706	0	%100
33	M84	Y	-16.471	-16.471	0	%100
34	M85	Y	-16.471	-16.471	0	%100
35	M87A	Y	-16.49	-16.49	0	%100
36	M89A	Y	-16.471	-16.471	0	%100
37	M90A	Y	-16.471	-16.471	0	%100
38	M92	Y	-16.49	-16.49	0	%100
39	MP2A	Y	-9.805	-9.805	0	%100
40	MP3A	Y	-8.743	-8.743	0	%100
41	MP4A	Y	-8.743	-8.743	0	%100
42	M79A	Y	-11.133	-11.133	0	%100
43	MP1C	Y	-8.743	-8.743	0	%100
44	MP2C	Y	-9.805	-9.805	0	%100
45	MP3C	Y	-8.743	-8.743	0	%100
46	MP4C	Y	-8.743	-8.743	0	%100
47	M88A	Y	-11.133	-11.133	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,%]
48	MP1B	Y	-8.743	-8.743	0	%100
49	MP2B	Y	-9.805	-9.805	0	%100
50	MP3B	Y	-8.743	-8.743	0	%100
51	MP4B	Y	-8.743	-8.743	0	%100
52	M98	Y	-8.743	-8.743	0	%100
53	M99	Y	-9.805	-9.805	0	%100
54	M106	Y	-9.805	-9.805	0	%100
55	M111	Y	-9.805	-9.805	0	%100
56	M123	Y	-12.711	-12.711	0	%100
57	M123A	Y	-18.039	-18.039	0	%100
58	M124A	Y	-18.039	-18.039	0	%100
59	M125	Y	-18.039	-18.039	0	%100
60	M124	Y	-12.711	-12.711	0	%100
61	M125A	Y	-12.711	-12.711	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	M13	X	0	0	0	%100
2	M13	Z	-10.957	-10.957	0	%100
3	M20	X	0	0	0	%100
4	M20	Z	-13.704	-13.704	0	%100
5	MP1A	X	0	0	0	%100
6	MP1A	Z	-9.304	-9.304	0	%100
7	M41A	X	0	0	0	%100
8	M41A	Z	-2.952	-2.952	0	%100
9	M42_1	X	0	0	0	%100
10	M42_1	Z	-2.952	-2.952	0	%100
11	M43A_1	X	0	0	0	%100
12	M43A_1	Z	-5.876	-5.876	0	%100
13	M46A	X	0	0	0	%100
14	M46A	Z	-3.058	-3.058	0	%100
15	M47	X	0	0	0	%100
16	M47	Z	-12.702	-12.702	0	%100
17	M64	X	0	0	0	%100
18	M64	Z	-17.738	-17.738	0	%100
19	M65	X	0	0	0	%100
20	M65	Z	-23.941	-23.941	0	%100
21	M71	X	0	0	0	%100
22	M71	Z	-24.811	-24.811	0	%100
23	M86	X	0	0	0	%100
24	M86	Z	-17.738	-17.738	0	%100
25	M87	X	0	0	0	%100
26	M87	Z	-5.985	-5.985	0	%100
27	M90	X	0	0	0	%100
28	M90	Z	-6.203	-6.203	0	%100
29	M50A	X	0	0	0	%100
30	M50A	Z	-10.957	-10.957	0	%100
31	M51A	X	0	0	0	%100
32	M51A	Z	-2.952	-2.952	0	%100
33	M52	X	0	0	0	%100
34	M52	Z	-2.952	-2.952	0	%100
35	M53A	X	0	0	0	%100
36	M53A	Z	-5.876	-5.876	0	%100
37	M56	X	0	0	0	%100
38	M56	Z	-12.7	-12.7	0	%100
39	M57	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,%]
40	M57	Z	-3.059	-3.059	0	%100
41	M62	X	0	0	0	%100
42	M62	Z	-17.738	-17.738	0	%100
43	M63	X	0	0	0	%100
44	M63	Z	-5.985	-5.985	0	%100
45	M65A	X	0	0	0	%100
46	M65A	Z	-6.203	-6.203	0	%100
47	M67	X	0	0	0	%100
48	M67	Z	-17.738	-17.738	0	%100
49	M68A	X	0	0	0	%100
50	M68A	Z	-23.941	-23.941	0	%100
51	M70	X	0	0	0	%100
52	M70	Z	-24.811	-24.811	0	%100
53	M72A	X	0	0	0	%100
54	M72A	Z	0	0	0	%100
55	M73	X	0	0	0	%100
56	M73	Z	-11.808	-11.808	0	%100
57	M74	X	0	0	0	%100
58	M74	Z	-11.808	-11.808	0	%100
59	M75	X	0	0	0	%100
60	M75	Z	-23.505	-23.505	0	%100
61	M78	X	0	0	0	%100
62	M78	Z	-3.294	-3.294	0	%100
63	M79	X	0	0	0	%100
64	M79	Z	-3.294	-3.294	0	%100
65	M84	X	0	0	0	%100
66	M84	Z	0	0	0	%100
67	M85	X	0	0	0	%100
68	M85	Z	-5.985	-5.985	0	%100
69	M87A	X	0	0	0	%100
70	M87A	Z	-6.203	-6.203	0	%100
71	M89A	X	0	0	0	%100
72	M89A	Z	0	0	0	%100
73	M90A	X	0	0	0	%100
74	M90A	Z	-5.985	-5.985	0	%100
75	M92	X	0	0	0	%100
76	M92	Z	-6.203	-6.203	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	-11.263	-11.263	0	%100
79	MP3A	X	0	0	0	%100
80	MP3A	Z	-9.304	-9.304	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	-9.304	-9.304	0	%100
83	M79A	X	0	0	0	%100
84	M79A	Z	-3.426	-3.426	0	%100
85	MP1C	X	0	0	0	%100
86	MP1C	Z	-9.304	-9.304	0	%100
87	MP2C	X	0	0	0	%100
88	MP2C	Z	-11.263	-11.263	0	%100
89	MP3C	X	0	0	0	%100
90	MP3C	Z	-9.304	-9.304	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	-9.304	-9.304	0	%100
93	M88A	X	0	0	0	%100
94	M88A	Z	-3.426	-3.426	0	%100
95	MP1B	X	0	0	0	%100
96	MP1B	Z	-9.304	-9.304	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,%]
97	MP2B	X	0	0	0	%100
98	MP2B	Z	-11.263	-11.263	0	%100
99	MP3B	X	0	0	0	%100
100	MP3B	Z	-9.304	-9.304	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	-9.304	-9.304	0	%100
103	M98	X	0	0	0	%100
104	M98	Z	-7.608	-7.608	0	%100
105	M99	X	0	0	0	%100
106	M99	Z	-11.263	-11.263	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	-2.816	-2.816	0	%100
109	M111	X	0	0	0	%100
110	M111	Z	-2.816	-2.816	0	%100
111	M123	X	0	0	0	%100
112	M123	Z	-3.453	-3.453	0	%100
113	M123A	X	0	0	0	%100
114	M123A	Z	-14.344	-14.344	0	%100
115	M124A	X	0	0	0	%100
116	M124A	Z	-18.162	-18.162	0	%100
117	M125	X	0	0	0	%100
118	M125	Z	-18.162	-18.162	0	%100
119	M124	X	0	0	0	%100
120	M124	Z	-13.811	-13.811	0	%100
121	M125A	X	0	0	0	%100
122	M125A	Z	-3.453	-3.453	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	M13	X	1.826	1.826	0	%100
2	M13	Z	-3.163	-3.163	0	%100
3	M20	X	5.139	5.139	0	%100
4	M20	Z	-8.901	-8.901	0	%100
5	MP1A	X	4.652	4.652	0	%100
6	MP1A	Z	-8.058	-8.058	0	%100
7	M41A	X	4.428	4.428	0	%100
8	M41A	Z	-7.67	-7.67	0	%100
9	M42_1	X	4.428	4.428	0	%100
10	M42_1	Z	-7.67	-7.67	0	%100
11	M43A_1	X	8.814	8.814	0	%100
12	M43A_1	Z	-15.267	-15.267	0	%100
13	M46A	X	.000727	.000727	0	%100
14	M46A	Z	-.001	-.001	0	%100
15	M47	X	4.822	4.822	0	%100
16	M47	Z	-8.352	-8.352	0	%100
17	M64	X	2.956	2.956	0	%100
18	M64	Z	-5.12	-5.12	0	%100
19	M65	X	8.978	8.978	0	%100
20	M65	Z	-15.55	-15.55	0	%100
21	M71	X	9.304	9.304	0	%100
22	M71	Z	-16.115	-16.115	0	%100
23	M86	X	2.956	2.956	0	%100
24	M86	Z	-5.12	-5.12	0	%100
25	M87	X	0	0	0	%100
26	M87	Z	0	0	0	%100
27	M90	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
28	M90	Z	0	0	0	%100
29	M50A	X	7.305	7.305	0	%100
30	M50A	Z	-12.652	-12.652	0	%100
31	M51A	X	0	0	0	%100
32	M51A	Z	0	0	0	%100
33	M52	X	0	0	0	%100
34	M52	Z	0	0	0	%100
35	M53A	X	0	0	0	%100
36	M53A	Z	0	0	0	%100
37	M56	X	4.704	4.704	0	%100
38	M56	Z	-8.147	-8.147	0	%100
39	M57	X	4.705	4.705	0	%100
40	M57	Z	-8.149	-8.149	0	%100
41	M62	X	11.825	11.825	0	%100
42	M62	Z	-20.482	-20.482	0	%100
43	M63	X	8.978	8.978	0	%100
44	M63	Z	-15.55	-15.55	0	%100
45	M65A	X	9.304	9.304	0	%100
46	M65A	Z	-16.115	-16.115	0	%100
47	M67	X	11.825	11.825	0	%100
48	M67	Z	-20.482	-20.482	0	%100
49	M68A	X	8.978	8.978	0	%100
50	M68A	Z	-15.55	-15.55	0	%100
51	M70	X	9.304	9.304	0	%100
52	M70	Z	-16.115	-16.115	0	%100
53	M72A	X	1.826	1.826	0	%100
54	M72A	Z	-3.163	-3.163	0	%100
55	M73	X	4.428	4.428	0	%100
56	M73	Z	-7.67	-7.67	0	%100
57	M74	X	4.428	4.428	0	%100
58	M74	Z	-7.67	-7.67	0	%100
59	M75	X	8.814	8.814	0	%100
60	M75	Z	-15.267	-15.267	0	%100
61	M78	X	4.822	4.822	0	%100
62	M78	Z	-8.351	-8.351	0	%100
63	M79	X	.000727	.000727	0	%100
64	M79	Z	-.001	-.001	0	%100
65	M84	X	2.956	2.956	0	%100
66	M84	Z	-5.12	-5.12	0	%100
67	M85	X	0	0	0	%100
68	M85	Z	0	0	0	%100
69	M87A	X	0	0	0	%100
70	M87A	Z	0	0	0	%100
71	M89A	X	2.956	2.956	0	%100
72	M89A	Z	-5.12	-5.12	0	%100
73	M90A	X	8.978	8.978	0	%100
74	M90A	Z	-15.55	-15.55	0	%100
75	M92	X	9.304	9.304	0	%100
76	M92	Z	-16.115	-16.115	0	%100
77	MP2A	X	5.631	5.631	0	%100
78	MP2A	Z	-9.754	-9.754	0	%100
79	MP3A	X	4.652	4.652	0	%100
80	MP3A	Z	-8.058	-8.058	0	%100
81	MP4A	X	4.652	4.652	0	%100
82	MP4A	Z	-8.058	-8.058	0	%100
83	M79A	X	5.139	5.139	0	%100
84	M79A	Z	-8.901	-8.901	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,%]
85	MP1C	X	4.652	4.652	0	%100
86	MP1C	Z	-8.058	-8.058	0	%100
87	MP2C	X	5.631	5.631	0	%100
88	MP2C	Z	-9.754	-9.754	0	%100
89	MP3C	X	4.652	4.652	0	%100
90	MP3C	Z	-8.058	-8.058	0	%100
91	MP4C	X	4.652	4.652	0	%100
92	MP4C	Z	-8.058	-8.058	0	%100
93	M88A	X	0	0	0	%100
94	M88A	Z	0	0	0	%100
95	MP1B	X	4.652	4.652	0	%100
96	MP1B	Z	-8.058	-8.058	0	%100
97	MP2B	X	5.631	5.631	0	%100
98	MP2B	Z	-9.754	-9.754	0	%100
99	MP3B	X	4.652	4.652	0	%100
100	MP3B	Z	-8.058	-8.058	0	%100
101	MP4B	X	4.652	4.652	0	%100
102	MP4B	Z	-8.058	-8.058	0	%100
103	M98	X	3.804	3.804	0	%100
104	M98	Z	-6.589	-6.589	0	%100
105	M99	X	4.224	4.224	0	%100
106	M99	Z	-7.316	-7.316	0	%100
107	M106	X	4.224	4.224	0	%100
108	M106	Z	-7.316	-7.316	0	%100
109	M111	X	0	0	0	%100
110	M111	Z	0	0	0	%100
111	M123	X	0	0	0	%100
112	M123	Z	0	0	0	%100
113	M123A	X	7.808	7.808	0	%100
114	M123A	Z	-13.524	-13.524	0	%100
115	M124A	X	7.808	7.808	0	%100
116	M124A	Z	-13.524	-13.524	0	%100
117	M125	X	9.717	9.717	0	%100
118	M125	Z	-16.831	-16.831	0	%100
119	M124	X	5.179	5.179	0	%100
120	M124	Z	-8.971	-8.971	0	%100
121	M125A	X	5.179	5.179	0	%100
122	M125A	Z	-8.971	-8.971	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	M13	X	0	0	0	%100
2	M13	Z	0	0	0	%100
3	M20	X	2.967	2.967	0	%100
4	M20	Z	-1.713	-1.713	0	%100
5	MP1A	X	8.058	8.058	0	%100
6	MP1A	Z	-4.652	-4.652	0	%100
7	M41A	X	10.226	10.226	0	%100
8	M41A	Z	-5.904	-5.904	0	%100
9	M42_1	X	10.226	10.226	0	%100
10	M42_1	Z	-5.904	-5.904	0	%100
11	M43A_1	X	20.356	20.356	0	%100
12	M43A_1	Z	-11.753	-11.753	0	%100
13	M46A	X	2.853	2.853	0	%100
14	M46A	Z	-1.647	-1.647	0	%100
15	M47	X	2.853	2.853	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,%]
16	M47	Z	-1.647	-1.647	0	%100
17	M64	X	0	0	0	%100
18	M64	Z	0	0	0	%100
19	M65	X	5.183	5.183	0	%100
20	M65	Z	-2.993	-2.993	0	%100
21	M71	X	5.372	5.372	0	%100
22	M71	Z	-3.101	-3.101	0	%100
23	M86	X	0	0	0	%100
24	M86	Z	0	0	0	%100
25	M87	X	5.183	5.183	0	%100
26	M87	Z	-2.993	-2.993	0	%100
27	M90	X	5.372	5.372	0	%100
28	M90	Z	-3.101	-3.101	0	%100
29	M50A	X	9.489	9.489	0	%100
30	M50A	Z	-5.478	-5.478	0	%100
31	M51A	X	2.557	2.557	0	%100
32	M51A	Z	-1.476	-1.476	0	%100
33	M52	X	2.557	2.557	0	%100
34	M52	Z	-1.476	-1.476	0	%100
35	M53A	X	5.089	5.089	0	%100
36	M53A	Z	-2.938	-2.938	0	%100
37	M56	X	2.649	2.649	0	%100
38	M56	Z	-1.529	-1.529	0	%100
39	M57	X	11	11	0	%100
40	M57	Z	-6.351	-6.351	0	%100
41	M62	X	15.361	15.361	0	%100
42	M62	Z	-8.869	-8.869	0	%100
43	M63	X	20.733	20.733	0	%100
44	M63	Z	-11.97	-11.97	0	%100
45	M65A	X	21.487	21.487	0	%100
46	M65A	Z	-12.406	-12.406	0	%100
47	M67	X	15.361	15.361	0	%100
48	M67	Z	-8.869	-8.869	0	%100
49	M68A	X	5.183	5.183	0	%100
50	M68A	Z	-2.993	-2.993	0	%100
51	M70	X	5.372	5.372	0	%100
52	M70	Z	-3.101	-3.101	0	%100
53	M72A	X	9.489	9.489	0	%100
54	M72A	Z	-5.478	-5.478	0	%100
55	M73	X	2.557	2.557	0	%100
56	M73	Z	-1.476	-1.476	0	%100
57	M74	X	2.557	2.557	0	%100
58	M74	Z	-1.476	-1.476	0	%100
59	M75	X	5.089	5.089	0	%100
60	M75	Z	-2.938	-2.938	0	%100
61	M78	X	10.999	10.999	0	%100
62	M78	Z	-6.35	-6.35	0	%100
63	M79	X	2.649	2.649	0	%100
64	M79	Z	-1.529	-1.529	0	%100
65	M84	X	15.361	15.361	0	%100
66	M84	Z	-8.869	-8.869	0	%100
67	M85	X	5.183	5.183	0	%100
68	M85	Z	-2.993	-2.993	0	%100
69	M87A	X	5.372	5.372	0	%100
70	M87A	Z	-3.101	-3.101	0	%100
71	M89A	X	15.361	15.361	0	%100
72	M89A	Z	-8.869	-8.869	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,%]
73	M90A	X	20.733	20.733	0	%100
74	M90A	Z	-11.97	-11.97	0	%100
75	M92	X	21.487	21.487	0	%100
76	M92	Z	-12.406	-12.406	0	%100
77	MP2A	X	9.754	9.754	0	%100
78	MP2A	Z	-5.631	-5.631	0	%100
79	MP3A	X	8.058	8.058	0	%100
80	MP3A	Z	-4.652	-4.652	0	%100
81	MP4A	X	8.058	8.058	0	%100
82	MP4A	Z	-4.652	-4.652	0	%100
83	M79A	X	11.868	11.868	0	%100
84	M79A	Z	-6.852	-6.852	0	%100
85	MP1C	X	8.058	8.058	0	%100
86	MP1C	Z	-4.652	-4.652	0	%100
87	MP2C	X	9.754	9.754	0	%100
88	MP2C	Z	-5.631	-5.631	0	%100
89	MP3C	X	8.058	8.058	0	%100
90	MP3C	Z	-4.652	-4.652	0	%100
91	MP4C	X	8.058	8.058	0	%100
92	MP4C	Z	-4.652	-4.652	0	%100
93	M88A	X	2.967	2.967	0	%100
94	M88A	Z	-1.713	-1.713	0	%100
95	MP1B	X	8.058	8.058	0	%100
96	MP1B	Z	-4.652	-4.652	0	%100
97	MP2B	X	9.754	9.754	0	%100
98	MP2B	Z	-5.631	-5.631	0	%100
99	MP3B	X	8.058	8.058	0	%100
100	MP3B	Z	-4.652	-4.652	0	%100
101	MP4B	X	8.058	8.058	0	%100
102	MP4B	Z	-4.652	-4.652	0	%100
103	M98	X	6.589	6.589	0	%100
104	M98	Z	-3.804	-3.804	0	%100
105	M99	X	2.439	2.439	0	%100
106	M99	Z	-1.408	-1.408	0	%100
107	M106	X	9.754	9.754	0	%100
108	M106	Z	-5.631	-5.631	0	%100
109	M111	X	2.439	2.439	0	%100
110	M111	Z	-1.408	-1.408	0	%100
111	M123	X	2.99	2.99	0	%100
112	M123	Z	-1.726	-1.726	0	%100
113	M123A	X	15.729	15.729	0	%100
114	M123A	Z	-9.081	-9.081	0	%100
115	M124A	X	12.422	12.422	0	%100
116	M124A	Z	-7.172	-7.172	0	%100
117	M125	X	15.729	15.729	0	%100
118	M125	Z	-9.081	-9.081	0	%100
119	M124	X	2.99	2.99	0	%100
120	M124	Z	-1.726	-1.726	0	%100
121	M125A	X	11.961	11.961	0	%100
122	M125A	Z	-6.906	-6.906	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	M13	X	3.652	3.652	0	%100
2	M13	Z	0	0	0	%100
3	M20	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
4	M20	Z	0	0	0	%100
5	MP1A	X	9.304	9.304	0	%100
6	MP1A	Z	0	0	0	%100
7	M41A	X	8.856	8.856	0	%100
8	M41A	Z	0	0	0	%100
9	M42_1	X	8.856	8.856	0	%100
10	M42_1	Z	0	0	0	%100
11	M43A_1	X	17.629	17.629	0	%100
12	M43A_1	Z	0	0	0	%100
13	M46A	X	9.643	9.643	0	%100
14	M46A	Z	0	0	0	%100
15	M47	X	.001	.001	0	%100
16	M47	Z	0	0	0	%100
17	M64	X	5.913	5.913	0	%100
18	M64	Z	0	0	0	%100
19	M65	X	0	0	0	%100
20	M65	Z	0	0	0	%100
21	M71	X	0	0	0	%100
22	M71	Z	0	0	0	%100
23	M86	X	5.913	5.913	0	%100
24	M86	Z	0	0	0	%100
25	M87	X	17.955	17.955	0	%100
26	M87	Z	0	0	0	%100
27	M90	X	18.608	18.608	0	%100
28	M90	Z	0	0	0	%100
29	M50A	X	3.652	3.652	0	%100
30	M50A	Z	0	0	0	%100
31	M51A	X	8.856	8.856	0	%100
32	M51A	Z	0	0	0	%100
33	M52	X	8.856	8.856	0	%100
34	M52	Z	0	0	0	%100
35	M53A	X	17.629	17.629	0	%100
36	M53A	Z	0	0	0	%100
37	M56	X	.001	.001	0	%100
38	M56	Z	0	0	0	%100
39	M57	X	9.645	9.645	0	%100
40	M57	Z	0	0	0	%100
41	M62	X	5.913	5.913	0	%100
42	M62	Z	0	0	0	%100
43	M63	X	17.955	17.955	0	%100
44	M63	Z	0	0	0	%100
45	M65A	X	18.608	18.608	0	%100
46	M65A	Z	0	0	0	%100
47	M67	X	5.913	5.913	0	%100
48	M67	Z	0	0	0	%100
49	M68A	X	0	0	0	%100
50	M68A	Z	0	0	0	%100
51	M70	X	0	0	0	%100
52	M70	Z	0	0	0	%100
53	M72A	X	14.609	14.609	0	%100
54	M72A	Z	0	0	0	%100
55	M73	X	0	0	0	%100
56	M73	Z	0	0	0	%100
57	M74	X	0	0	0	%100
58	M74	Z	0	0	0	%100
59	M75	X	0	0	0	%100
60	M75	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
61	M78	X	9.408	9.408	0	%100
62	M78	Z	0	0	0	%100
63	M79	X	9.409	9.409	0	%100
64	M79	Z	0	0	0	%100
65	M84	X	23.65	23.65	0	%100
66	M84	Z	0	0	0	%100
67	M85	X	17.955	17.955	0	%100
68	M85	Z	0	0	0	%100
69	M87A	X	18.608	18.608	0	%100
70	M87A	Z	0	0	0	%100
71	M89A	X	23.65	23.65	0	%100
72	M89A	Z	0	0	0	%100
73	M90A	X	17.955	17.955	0	%100
74	M90A	Z	0	0	0	%100
75	M92	X	18.608	18.608	0	%100
76	M92	Z	0	0	0	%100
77	MP2A	X	11.263	11.263	0	%100
78	MP2A	Z	0	0	0	%100
79	MP3A	X	9.304	9.304	0	%100
80	MP3A	Z	0	0	0	%100
81	MP4A	X	9.304	9.304	0	%100
82	MP4A	Z	0	0	0	%100
83	M79A	X	10.278	10.278	0	%100
84	M79A	Z	0	0	0	%100
85	MP1C	X	9.304	9.304	0	%100
86	MP1C	Z	0	0	0	%100
87	MP2C	X	11.263	11.263	0	%100
88	MP2C	Z	0	0	0	%100
89	MP3C	X	9.304	9.304	0	%100
90	MP3C	Z	0	0	0	%100
91	MP4C	X	9.304	9.304	0	%100
92	MP4C	Z	0	0	0	%100
93	M88A	X	10.278	10.278	0	%100
94	M88A	Z	0	0	0	%100
95	MP1B	X	9.304	9.304	0	%100
96	MP1B	Z	0	0	0	%100
97	MP2B	X	11.263	11.263	0	%100
98	MP2B	Z	0	0	0	%100
99	MP3B	X	9.304	9.304	0	%100
100	MP3B	Z	0	0	0	%100
101	MP4B	X	9.304	9.304	0	%100
102	MP4B	Z	0	0	0	%100
103	M98	X	7.608	7.608	0	%100
104	M98	Z	0	0	0	%100
105	M99	X	0	0	0	%100
106	M99	Z	0	0	0	%100
107	M106	X	8.447	8.447	0	%100
108	M106	Z	0	0	0	%100
109	M111	X	8.447	8.447	0	%100
110	M111	Z	0	0	0	%100
111	M123	X	10.358	10.358	0	%100
112	M123	Z	0	0	0	%100
113	M123A	X	19.435	19.435	0	%100
114	M123A	Z	0	0	0	%100
115	M124A	X	15.617	15.617	0	%100
116	M124A	Z	0	0	0	%100
117	M125	X	15.617	15.617	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,%]
118	M125	Z	0	0	0	%100
119	M124	X	0	0	0	%100
120	M124	Z	0	0	0	%100
121	M125A	X	10.358	10.358	0	%100
122	M125A	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	M13	X	9.489	9.489	0	%100
2	M13	Z	5.478	5.478	0	%100
3	M20	X	2.967	2.967	0	%100
4	M20	Z	1.713	1.713	0	%100
5	MP1A	X	8.058	8.058	0	%100
6	MP1A	Z	4.652	4.652	0	%100
7	M41A	X	2.557	2.557	0	%100
8	M41A	Z	1.476	1.476	0	%100
9	M42_1	X	2.557	2.557	0	%100
10	M42_1	Z	1.476	1.476	0	%100
11	M43A_1	X	5.089	5.089	0	%100
12	M43A_1	Z	2.938	2.938	0	%100
13	M46A	X	10.999	10.999	0	%100
14	M46A	Z	6.35	6.35	0	%100
15	M47	X	2.649	2.649	0	%100
16	M47	Z	1.529	1.529	0	%100
17	M64	X	15.361	15.361	0	%100
18	M64	Z	8.869	8.869	0	%100
19	M65	X	5.183	5.183	0	%100
20	M65	Z	2.993	2.993	0	%100
21	M71	X	5.372	5.372	0	%100
22	M71	Z	3.101	3.101	0	%100
23	M86	X	15.361	15.361	0	%100
24	M86	Z	8.869	8.869	0	%100
25	M87	X	20.733	20.733	0	%100
26	M87	Z	11.97	11.97	0	%100
27	M90	X	21.487	21.487	0	%100
28	M90	Z	12.406	12.406	0	%100
29	M50A	X	0	0	0	%100
30	M50A	Z	0	0	0	%100
31	M51A	X	10.226	10.226	0	%100
32	M51A	Z	5.904	5.904	0	%100
33	M52	X	10.226	10.226	0	%100
34	M52	Z	5.904	5.904	0	%100
35	M53A	X	20.356	20.356	0	%100
36	M53A	Z	11.753	11.753	0	%100
37	M56	X	2.853	2.853	0	%100
38	M56	Z	1.647	1.647	0	%100
39	M57	X	2.853	2.853	0	%100
40	M57	Z	1.647	1.647	0	%100
41	M62	X	0	0	0	%100
42	M62	Z	0	0	0	%100
43	M63	X	5.183	5.183	0	%100
44	M63	Z	2.993	2.993	0	%100
45	M65A	X	5.372	5.372	0	%100
46	M65A	Z	3.101	3.101	0	%100
47	M67	X	0	0	0	%100
48	M67	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
49	M68A	X	5.183	5.183	0	%100
50	M68A	Z	2.993	2.993	0	%100
51	M70	X	5.372	5.372	0	%100
52	M70	Z	3.101	3.101	0	%100
53	M72A	X	9.489	9.489	0	%100
54	M72A	Z	5.478	5.478	0	%100
55	M73	X	2.557	2.557	0	%100
56	M73	Z	1.476	1.476	0	%100
57	M74	X	2.557	2.557	0	%100
58	M74	Z	1.476	1.476	0	%100
59	M75	X	5.089	5.089	0	%100
60	M75	Z	2.938	2.938	0	%100
61	M78	X	2.649	2.649	0	%100
62	M78	Z	1.529	1.529	0	%100
63	M79	X	11	11	0	%100
64	M79	Z	6.351	6.351	0	%100
65	M84	X	15.361	15.361	0	%100
66	M84	Z	8.869	8.869	0	%100
67	M85	X	20.733	20.733	0	%100
68	M85	Z	11.97	11.97	0	%100
69	M87A	X	21.487	21.487	0	%100
70	M87A	Z	12.406	12.406	0	%100
71	M89A	X	15.361	15.361	0	%100
72	M89A	Z	8.869	8.869	0	%100
73	M90A	X	5.183	5.183	0	%100
74	M90A	Z	2.993	2.993	0	%100
75	M92	X	5.372	5.372	0	%100
76	M92	Z	3.101	3.101	0	%100
77	MP2A	X	9.754	9.754	0	%100
78	MP2A	Z	5.631	5.631	0	%100
79	MP3A	X	8.058	8.058	0	%100
80	MP3A	Z	4.652	4.652	0	%100
81	MP4A	X	8.058	8.058	0	%100
82	MP4A	Z	4.652	4.652	0	%100
83	M79A	X	2.967	2.967	0	%100
84	M79A	Z	1.713	1.713	0	%100
85	MP1C	X	8.058	8.058	0	%100
86	MP1C	Z	4.652	4.652	0	%100
87	MP2C	X	9.754	9.754	0	%100
88	MP2C	Z	5.631	5.631	0	%100
89	MP3C	X	8.058	8.058	0	%100
90	MP3C	Z	4.652	4.652	0	%100
91	MP4C	X	8.058	8.058	0	%100
92	MP4C	Z	4.652	4.652	0	%100
93	M88A	X	11.868	11.868	0	%100
94	M88A	Z	6.852	6.852	0	%100
95	MP1B	X	8.058	8.058	0	%100
96	MP1B	Z	4.652	4.652	0	%100
97	MP2B	X	9.754	9.754	0	%100
98	MP2B	Z	5.631	5.631	0	%100
99	MP3B	X	8.058	8.058	0	%100
100	MP3B	Z	4.652	4.652	0	%100
101	MP4B	X	8.058	8.058	0	%100
102	MP4B	Z	4.652	4.652	0	%100
103	M98	X	6.589	6.589	0	%100
104	M98	Z	3.804	3.804	0	%100
105	M99	X	2.439	2.439	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,%]
106	M99	Z	1.408	1.408	0	%100
107	M106	X	2.439	2.439	0	%100
108	M106	Z	1.408	1.408	0	%100
109	M111	X	9.754	9.754	0	%100
110	M111	Z	5.631	5.631	0	%100
111	M123	X	11.961	11.961	0	%100
112	M123	Z	6.906	6.906	0	%100
113	M123A	X	15.729	15.729	0	%100
114	M123A	Z	9.081	9.081	0	%100
115	M124A	X	15.729	15.729	0	%100
116	M124A	Z	9.081	9.081	0	%100
117	M125	X	12.422	12.422	0	%100
118	M125	Z	7.172	7.172	0	%100
119	M124	X	2.99	2.99	0	%100
120	M124	Z	1.726	1.726	0	%100
121	M125A	X	2.99	2.99	0	%100
122	M125A	Z	1.726	1.726	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	M13	X	7.305	7.305	0	%100
2	M13	Z	12.652	12.652	0	%100
3	M20	X	5.139	5.139	0	%100
4	M20	Z	8.901	8.901	0	%100
5	MP1A	X	4.652	4.652	0	%100
6	MP1A	Z	8.058	8.058	0	%100
7	M41A	X	0	0	0	%100
8	M41A	Z	0	0	0	%100
9	M42_1	X	0	0	0	%100
10	M42_1	Z	0	0	0	%100
11	M43A_1	X	0	0	0	%100
12	M43A_1	Z	0	0	0	%100
13	M46A	X	4.704	4.704	0	%100
14	M46A	Z	8.147	8.147	0	%100
15	M47	X	4.705	4.705	0	%100
16	M47	Z	8.149	8.149	0	%100
17	M64	X	11.825	11.825	0	%100
18	M64	Z	20.482	20.482	0	%100
19	M65	X	8.978	8.978	0	%100
20	M65	Z	15.55	15.55	0	%100
21	M71	X	9.304	9.304	0	%100
22	M71	Z	16.115	16.115	0	%100
23	M86	X	11.825	11.825	0	%100
24	M86	Z	20.482	20.482	0	%100
25	M87	X	8.978	8.978	0	%100
26	M87	Z	15.55	15.55	0	%100
27	M90	X	9.304	9.304	0	%100
28	M90	Z	16.115	16.115	0	%100
29	M50A	X	1.826	1.826	0	%100
30	M50A	Z	3.163	3.163	0	%100
31	M51A	X	4.428	4.428	0	%100
32	M51A	Z	7.67	7.67	0	%100
33	M52	X	4.428	4.428	0	%100
34	M52	Z	7.67	7.67	0	%100
35	M53A	X	8.814	8.814	0	%100
36	M53A	Z	15.267	15.267	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,%]
37	M56	X	4.822	4.822	0	%100
38	M56	Z	8.351	8.351	0	%100
39	M57	X	.000727	.000727	0	%100
40	M57	Z	.001	.001	0	%100
41	M62	X	2.956	2.956	0	%100
42	M62	Z	5.12	5.12	0	%100
43	M63	X	0	0	0	%100
44	M63	Z	0	0	0	%100
45	M65A	X	0	0	0	%100
46	M65A	Z	0	0	0	%100
47	M67	X	2.956	2.956	0	%100
48	M67	Z	5.12	5.12	0	%100
49	M68A	X	8.978	8.978	0	%100
50	M68A	Z	15.55	15.55	0	%100
51	M70	X	9.304	9.304	0	%100
52	M70	Z	16.115	16.115	0	%100
53	M72A	X	1.826	1.826	0	%100
54	M72A	Z	3.163	3.163	0	%100
55	M73	X	4.428	4.428	0	%100
56	M73	Z	7.67	7.67	0	%100
57	M74	X	4.428	4.428	0	%100
58	M74	Z	7.67	7.67	0	%100
59	M75	X	8.814	8.814	0	%100
60	M75	Z	15.267	15.267	0	%100
61	M78	X	.000727	.000727	0	%100
62	M78	Z	.001	.001	0	%100
63	M79	X	4.822	4.822	0	%100
64	M79	Z	8.352	8.352	0	%100
65	M84	X	2.956	2.956	0	%100
66	M84	Z	5.12	5.12	0	%100
67	M85	X	8.978	8.978	0	%100
68	M85	Z	15.55	15.55	0	%100
69	M87A	X	9.304	9.304	0	%100
70	M87A	Z	16.115	16.115	0	%100
71	M89A	X	2.956	2.956	0	%100
72	M89A	Z	5.12	5.12	0	%100
73	M90A	X	0	0	0	%100
74	M90A	Z	0	0	0	%100
75	M92	X	0	0	0	%100
76	M92	Z	0	0	0	%100
77	MP2A	X	5.631	5.631	0	%100
78	MP2A	Z	9.754	9.754	0	%100
79	MP3A	X	4.652	4.652	0	%100
80	MP3A	Z	8.058	8.058	0	%100
81	MP4A	X	4.652	4.652	0	%100
82	MP4A	Z	8.058	8.058	0	%100
83	M79A	X	0	0	0	%100
84	M79A	Z	0	0	0	%100
85	MP1C	X	4.652	4.652	0	%100
86	MP1C	Z	8.058	8.058	0	%100
87	MP2C	X	5.631	5.631	0	%100
88	MP2C	Z	9.754	9.754	0	%100
89	MP3C	X	4.652	4.652	0	%100
90	MP3C	Z	8.058	8.058	0	%100
91	MP4C	X	4.652	4.652	0	%100
92	MP4C	Z	8.058	8.058	0	%100
93	M88A	X	5.139	5.139	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,%]
94	M88A	Z	8.901	8.901	0	%100
95	MP1B	X	4.652	4.652	0	%100
96	MP1B	Z	8.058	8.058	0	%100
97	MP2B	X	5.631	5.631	0	%100
98	MP2B	Z	9.754	9.754	0	%100
99	MP3B	X	4.652	4.652	0	%100
100	MP3B	Z	8.058	8.058	0	%100
101	MP4B	X	4.652	4.652	0	%100
102	MP4B	Z	8.058	8.058	0	%100
103	M98	X	3.804	3.804	0	%100
104	M98	Z	6.589	6.589	0	%100
105	M99	X	4.224	4.224	0	%100
106	M99	Z	7.316	7.316	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	0	0	0	%100
109	M111	X	4.224	4.224	0	%100
110	M111	Z	7.316	7.316	0	%100
111	M123	X	5.179	5.179	0	%100
112	M123	Z	8.971	8.971	0	%100
113	M123A	X	7.808	7.808	0	%100
114	M123A	Z	13.524	13.524	0	%100
115	M124A	X	9.717	9.717	0	%100
116	M124A	Z	16.831	16.831	0	%100
117	M125	X	7.808	7.808	0	%100
118	M125	Z	13.524	13.524	0	%100
119	M124	X	5.179	5.179	0	%100
120	M124	Z	8.971	8.971	0	%100
121	M125A	X	0	0	0	%100
122	M125A	Z	0	0	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	M13	X	0	0	0	%100
2	M13	Z	10.957	10.957	0	%100
3	M20	X	0	0	0	%100
4	M20	Z	13.704	13.704	0	%100
5	MP1A	X	0	0	0	%100
6	MP1A	Z	9.304	9.304	0	%100
7	M41A	X	0	0	0	%100
8	M41A	Z	2.952	2.952	0	%100
9	M42_1	X	0	0	0	%100
10	M42_1	Z	2.952	2.952	0	%100
11	M43A_1	X	0	0	0	%100
12	M43A_1	Z	5.876	5.876	0	%100
13	M46A	X	0	0	0	%100
14	M46A	Z	3.058	3.058	0	%100
15	M47	X	0	0	0	%100
16	M47	Z	12.702	12.702	0	%100
17	M64	X	0	0	0	%100
18	M64	Z	17.738	17.738	0	%100
19	M65	X	0	0	0	%100
20	M65	Z	23.941	23.941	0	%100
21	M71	X	0	0	0	%100
22	M71	Z	24.811	24.811	0	%100
23	M86	X	0	0	0	%100
24	M86	Z	17.738	17.738	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,%]
25	M87	X	0	0	0	%100
26	M87	Z	5.985	5.985	0	%100
27	M90	X	0	0	0	%100
28	M90	Z	6.203	6.203	0	%100
29	M50A	X	0	0	0	%100
30	M50A	Z	10.957	10.957	0	%100
31	M51A	X	0	0	0	%100
32	M51A	Z	2.952	2.952	0	%100
33	M52	X	0	0	0	%100
34	M52	Z	2.952	2.952	0	%100
35	M53A	X	0	0	0	%100
36	M53A	Z	5.876	5.876	0	%100
37	M56	X	0	0	0	%100
38	M56	Z	12.7	12.7	0	%100
39	M57	X	0	0	0	%100
40	M57	Z	3.059	3.059	0	%100
41	M62	X	0	0	0	%100
42	M62	Z	17.738	17.738	0	%100
43	M63	X	0	0	0	%100
44	M63	Z	5.985	5.985	0	%100
45	M65A	X	0	0	0	%100
46	M65A	Z	6.203	6.203	0	%100
47	M67	X	0	0	0	%100
48	M67	Z	17.738	17.738	0	%100
49	M68A	X	0	0	0	%100
50	M68A	Z	23.941	23.941	0	%100
51	M70	X	0	0	0	%100
52	M70	Z	24.811	24.811	0	%100
53	M72A	X	0	0	0	%100
54	M72A	Z	0	0	0	%100
55	M73	X	0	0	0	%100
56	M73	Z	11.808	11.808	0	%100
57	M74	X	0	0	0	%100
58	M74	Z	11.808	11.808	0	%100
59	M75	X	0	0	0	%100
60	M75	Z	23.505	23.505	0	%100
61	M78	X	0	0	0	%100
62	M78	Z	3.294	3.294	0	%100
63	M79	X	0	0	0	%100
64	M79	Z	3.294	3.294	0	%100
65	M84	X	0	0	0	%100
66	M84	Z	0	0	0	%100
67	M85	X	0	0	0	%100
68	M85	Z	5.985	5.985	0	%100
69	M87A	X	0	0	0	%100
70	M87A	Z	6.203	6.203	0	%100
71	M89A	X	0	0	0	%100
72	M89A	Z	0	0	0	%100
73	M90A	X	0	0	0	%100
74	M90A	Z	5.985	5.985	0	%100
75	M92	X	0	0	0	%100
76	M92	Z	6.203	6.203	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	11.263	11.263	0	%100
79	MP3A	X	0	0	0	%100
80	MP3A	Z	9.304	9.304	0	%100
81	MP4A	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,%]
82	MP4A	Z	9.304	9.304	0	%100
83	M79A	X	0	0	0	%100
84	M79A	Z	3.426	3.426	0	%100
85	MP1C	X	0	0	0	%100
86	MP1C	Z	9.304	9.304	0	%100
87	MP2C	X	0	0	0	%100
88	MP2C	Z	11.263	11.263	0	%100
89	MP3C	X	0	0	0	%100
90	MP3C	Z	9.304	9.304	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	9.304	9.304	0	%100
93	M88A	X	0	0	0	%100
94	M88A	Z	3.426	3.426	0	%100
95	MP1B	X	0	0	0	%100
96	MP1B	Z	9.304	9.304	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	11.263	11.263	0	%100
99	MP3B	X	0	0	0	%100
100	MP3B	Z	9.304	9.304	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	9.304	9.304	0	%100
103	M98	X	0	0	0	%100
104	M98	Z	7.608	7.608	0	%100
105	M99	X	0	0	0	%100
106	M99	Z	11.263	11.263	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	2.816	2.816	0	%100
109	M111	X	0	0	0	%100
110	M111	Z	2.816	2.816	0	%100
111	M123	X	0	0	0	%100
112	M123	Z	3.453	3.453	0	%100
113	M123A	X	0	0	0	%100
114	M123A	Z	14.344	14.344	0	%100
115	M124A	X	0	0	0	%100
116	M124A	Z	18.162	18.162	0	%100
117	M125	X	0	0	0	%100
118	M125	Z	18.162	18.162	0	%100
119	M124	X	0	0	0	%100
120	M124	Z	13.811	13.811	0	%100
121	M125A	X	0	0	0	%100
122	M125A	Z	3.453	3.453	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	M13	X	-1.826	-1.826	0	%100
2	M13	Z	3.163	3.163	0	%100
3	M20	X	-5.139	-5.139	0	%100
4	M20	Z	8.901	8.901	0	%100
5	MP1A	X	-4.652	-4.652	0	%100
6	MP1A	Z	8.058	8.058	0	%100
7	M41A	X	-4.428	-4.428	0	%100
8	M41A	Z	7.67	7.67	0	%100
9	M42_1	X	-4.428	-4.428	0	%100
10	M42_1	Z	7.67	7.67	0	%100
11	M43A_1	X	-8.814	-8.814	0	%100
12	M43A_1	Z	15.267	15.267	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
13	M46A	X	-.000727	-.000727	0	%100
14	M46A	Z	.001	.001	0	%100
15	M47	X	-4.822	-4.822	0	%100
16	M47	Z	8.352	8.352	0	%100
17	M64	X	-2.956	-2.956	0	%100
18	M64	Z	5.12	5.12	0	%100
19	M65	X	-8.978	-8.978	0	%100
20	M65	Z	15.55	15.55	0	%100
21	M71	X	-9.304	-9.304	0	%100
22	M71	Z	16.115	16.115	0	%100
23	M86	X	-2.956	-2.956	0	%100
24	M86	Z	5.12	5.12	0	%100
25	M87	X	0	0	0	%100
26	M87	Z	0	0	0	%100
27	M90	X	0	0	0	%100
28	M90	Z	0	0	0	%100
29	M50A	X	-7.305	-7.305	0	%100
30	M50A	Z	12.652	12.652	0	%100
31	M51A	X	0	0	0	%100
32	M51A	Z	0	0	0	%100
33	M52	X	0	0	0	%100
34	M52	Z	0	0	0	%100
35	M53A	X	0	0	0	%100
36	M53A	Z	0	0	0	%100
37	M56	X	-4.704	-4.704	0	%100
38	M56	Z	8.147	8.147	0	%100
39	M57	X	-4.705	-4.705	0	%100
40	M57	Z	8.149	8.149	0	%100
41	M62	X	-11.825	-11.825	0	%100
42	M62	Z	20.482	20.482	0	%100
43	M63	X	-8.978	-8.978	0	%100
44	M63	Z	15.55	15.55	0	%100
45	M65A	X	-9.304	-9.304	0	%100
46	M65A	Z	16.115	16.115	0	%100
47	M67	X	-11.825	-11.825	0	%100
48	M67	Z	20.482	20.482	0	%100
49	M68A	X	-8.978	-8.978	0	%100
50	M68A	Z	15.55	15.55	0	%100
51	M70	X	-9.304	-9.304	0	%100
52	M70	Z	16.115	16.115	0	%100
53	M72A	X	-1.826	-1.826	0	%100
54	M72A	Z	3.163	3.163	0	%100
55	M73	X	-4.428	-4.428	0	%100
56	M73	Z	7.67	7.67	0	%100
57	M74	X	-4.428	-4.428	0	%100
58	M74	Z	7.67	7.67	0	%100
59	M75	X	-8.814	-8.814	0	%100
60	M75	Z	15.267	15.267	0	%100
61	M78	X	-4.822	-4.822	0	%100
62	M78	Z	8.351	8.351	0	%100
63	M79	X	-.000727	-.000727	0	%100
64	M79	Z	.001	.001	0	%100
65	M84	X	-2.956	-2.956	0	%100
66	M84	Z	5.12	5.12	0	%100
67	M85	X	0	0	0	%100
68	M85	Z	0	0	0	%100
69	M87A	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,%]
70	M87A	Z	0	0	0	%100
71	M89A	X	-2.956	-2.956	0	%100
72	M89A	Z	5.12	5.12	0	%100
73	M90A	X	-8.978	-8.978	0	%100
74	M90A	Z	15.55	15.55	0	%100
75	M92	X	-9.304	-9.304	0	%100
76	M92	Z	16.115	16.115	0	%100
77	MP2A	X	-5.631	-5.631	0	%100
78	MP2A	Z	9.754	9.754	0	%100
79	MP3A	X	-4.652	-4.652	0	%100
80	MP3A	Z	8.058	8.058	0	%100
81	MP4A	X	-4.652	-4.652	0	%100
82	MP4A	Z	8.058	8.058	0	%100
83	M79A	X	-5.139	-5.139	0	%100
84	M79A	Z	8.901	8.901	0	%100
85	MP1C	X	-4.652	-4.652	0	%100
86	MP1C	Z	8.058	8.058	0	%100
87	MP2C	X	-5.631	-5.631	0	%100
88	MP2C	Z	9.754	9.754	0	%100
89	MP3C	X	-4.652	-4.652	0	%100
90	MP3C	Z	8.058	8.058	0	%100
91	MP4C	X	-4.652	-4.652	0	%100
92	MP4C	Z	8.058	8.058	0	%100
93	M88A	X	0	0	0	%100
94	M88A	Z	0	0	0	%100
95	MP1B	X	-4.652	-4.652	0	%100
96	MP1B	Z	8.058	8.058	0	%100
97	MP2B	X	-5.631	-5.631	0	%100
98	MP2B	Z	9.754	9.754	0	%100
99	MP3B	X	-4.652	-4.652	0	%100
100	MP3B	Z	8.058	8.058	0	%100
101	MP4B	X	-4.652	-4.652	0	%100
102	MP4B	Z	8.058	8.058	0	%100
103	M98	X	-3.804	-3.804	0	%100
104	M98	Z	6.589	6.589	0	%100
105	M99	X	-4.224	-4.224	0	%100
106	M99	Z	7.316	7.316	0	%100
107	M106	X	-4.224	-4.224	0	%100
108	M106	Z	7.316	7.316	0	%100
109	M111	X	0	0	0	%100
110	M111	Z	0	0	0	%100
111	M123	X	0	0	0	%100
112	M123	Z	0	0	0	%100
113	M123A	X	-7.808	-7.808	0	%100
114	M123A	Z	13.524	13.524	0	%100
115	M124A	X	-7.808	-7.808	0	%100
116	M124A	Z	13.524	13.524	0	%100
117	M125	X	-9.717	-9.717	0	%100
118	M125	Z	16.831	16.831	0	%100
119	M124	X	-5.179	-5.179	0	%100
120	M124	Z	8.971	8.971	0	%100
121	M125A	X	-5.179	-5.179	0	%100
122	M125A	Z	8.971	8.971	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,%]

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,%]
1	M13	X	0	0	0	%100
2	M13	Z	0	0	0	%100
3	M20	X	-2.967	-2.967	0	%100
4	M20	Z	1.713	1.713	0	%100
5	MP1A	X	-8.058	-8.058	0	%100
6	MP1A	Z	4.652	4.652	0	%100
7	M41A	X	-10.226	-10.226	0	%100
8	M41A	Z	5.904	5.904	0	%100
9	M42_1	X	-10.226	-10.226	0	%100
10	M42_1	Z	5.904	5.904	0	%100
11	M43A_1	X	-20.356	-20.356	0	%100
12	M43A_1	Z	11.753	11.753	0	%100
13	M46A	X	-2.853	-2.853	0	%100
14	M46A	Z	1.647	1.647	0	%100
15	M47	X	-2.853	-2.853	0	%100
16	M47	Z	1.647	1.647	0	%100
17	M64	X	0	0	0	%100
18	M64	Z	0	0	0	%100
19	M65	X	-5.183	-5.183	0	%100
20	M65	Z	2.993	2.993	0	%100
21	M71	X	-5.372	-5.372	0	%100
22	M71	Z	3.101	3.101	0	%100
23	M86	X	0	0	0	%100
24	M86	Z	0	0	0	%100
25	M87	X	-5.183	-5.183	0	%100
26	M87	Z	2.993	2.993	0	%100
27	M90	X	-5.372	-5.372	0	%100
28	M90	Z	3.101	3.101	0	%100
29	M50A	X	-9.489	-9.489	0	%100
30	M50A	Z	5.478	5.478	0	%100
31	M51A	X	-2.557	-2.557	0	%100
32	M51A	Z	1.476	1.476	0	%100
33	M52	X	-2.557	-2.557	0	%100
34	M52	Z	1.476	1.476	0	%100
35	M53A	X	-5.089	-5.089	0	%100
36	M53A	Z	2.938	2.938	0	%100
37	M56	X	-2.649	-2.649	0	%100
38	M56	Z	1.529	1.529	0	%100
39	M57	X	-11	-11	0	%100
40	M57	Z	6.351	6.351	0	%100
41	M62	X	-15.361	-15.361	0	%100
42	M62	Z	8.869	8.869	0	%100
43	M63	X	-20.733	-20.733	0	%100
44	M63	Z	11.97	11.97	0	%100
45	M65A	X	-21.487	-21.487	0	%100
46	M65A	Z	12.406	12.406	0	%100
47	M67	X	-15.361	-15.361	0	%100
48	M67	Z	8.869	8.869	0	%100
49	M68A	X	-5.183	-5.183	0	%100
50	M68A	Z	2.993	2.993	0	%100
51	M70	X	-5.372	-5.372	0	%100
52	M70	Z	3.101	3.101	0	%100
53	M72A	X	-9.489	-9.489	0	%100
54	M72A	Z	5.478	5.478	0	%100
55	M73	X	-2.557	-2.557	0	%100
56	M73	Z	1.476	1.476	0	%100
57	M74	X	-2.557	-2.557	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	M74	Z	1.476	1.476	0	%100
59	M75	X	-5.089	-5.089	0	%100
60	M75	Z	2.938	2.938	0	%100
61	M78	X	-10.999	-10.999	0	%100
62	M78	Z	6.35	6.35	0	%100
63	M79	X	-2.649	-2.649	0	%100
64	M79	Z	1.529	1.529	0	%100
65	M84	X	-15.361	-15.361	0	%100
66	M84	Z	8.869	8.869	0	%100
67	M85	X	-5.183	-5.183	0	%100
68	M85	Z	2.993	2.993	0	%100
69	M87A	X	-5.372	-5.372	0	%100
70	M87A	Z	3.101	3.101	0	%100
71	M89A	X	-15.361	-15.361	0	%100
72	M89A	Z	8.869	8.869	0	%100
73	M90A	X	-20.733	-20.733	0	%100
74	M90A	Z	11.97	11.97	0	%100
75	M92	X	-21.487	-21.487	0	%100
76	M92	Z	12.406	12.406	0	%100
77	MP2A	X	-9.754	-9.754	0	%100
78	MP2A	Z	5.631	5.631	0	%100
79	MP3A	X	-8.058	-8.058	0	%100
80	MP3A	Z	4.652	4.652	0	%100
81	MP4A	X	-8.058	-8.058	0	%100
82	MP4A	Z	4.652	4.652	0	%100
83	M79A	X	-11.868	-11.868	0	%100
84	M79A	Z	6.852	6.852	0	%100
85	MP1C	X	-8.058	-8.058	0	%100
86	MP1C	Z	4.652	4.652	0	%100
87	MP2C	X	-9.754	-9.754	0	%100
88	MP2C	Z	5.631	5.631	0	%100
89	MP3C	X	-8.058	-8.058	0	%100
90	MP3C	Z	4.652	4.652	0	%100
91	MP4C	X	-8.058	-8.058	0	%100
92	MP4C	Z	4.652	4.652	0	%100
93	M88A	X	-2.967	-2.967	0	%100
94	M88A	Z	1.713	1.713	0	%100
95	MP1B	X	-8.058	-8.058	0	%100
96	MP1B	Z	4.652	4.652	0	%100
97	MP2B	X	-9.754	-9.754	0	%100
98	MP2B	Z	5.631	5.631	0	%100
99	MP3B	X	-8.058	-8.058	0	%100
100	MP3B	Z	4.652	4.652	0	%100
101	MP4B	X	-8.058	-8.058	0	%100
102	MP4B	Z	4.652	4.652	0	%100
103	M98	X	-6.589	-6.589	0	%100
104	M98	Z	3.804	3.804	0	%100
105	M99	X	-2.439	-2.439	0	%100
106	M99	Z	1.408	1.408	0	%100
107	M106	X	-9.754	-9.754	0	%100
108	M106	Z	5.631	5.631	0	%100
109	M111	X	-2.439	-2.439	0	%100
110	M111	Z	1.408	1.408	0	%100
111	M123	X	-2.99	-2.99	0	%100
112	M123	Z	1.726	1.726	0	%100
113	M123A	X	-15.729	-15.729	0	%100
114	M123A	Z	9.081	9.081	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,%]
115	M124A	X	-12.422	-12.422	0	%100
116	M124A	Z	7.172	7.172	0	%100
117	M125	X	-15.729	-15.729	0	%100
118	M125	Z	9.081	9.081	0	%100
119	M124	X	-2.99	-2.99	0	%100
120	M124	Z	1.726	1.726	0	%100
121	M125A	X	-11.961	-11.961	0	%100
122	M125A	Z	6.906	6.906	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	M13	X	-3.652	-3.652	0	%100
2	M13	Z	0	0	0	%100
3	M20	X	0	0	0	%100
4	M20	Z	0	0	0	%100
5	MP1A	X	-9.304	-9.304	0	%100
6	MP1A	Z	0	0	0	%100
7	M41A	X	-8.856	-8.856	0	%100
8	M41A	Z	0	0	0	%100
9	M42_1	X	-8.856	-8.856	0	%100
10	M42_1	Z	0	0	0	%100
11	M43A_1	X	-17.629	-17.629	0	%100
12	M43A_1	Z	0	0	0	%100
13	M46A	X	-9.643	-9.643	0	%100
14	M46A	Z	0	0	0	%100
15	M47	X	-.001	-.001	0	%100
16	M47	Z	0	0	0	%100
17	M64	X	-5.913	-5.913	0	%100
18	M64	Z	0	0	0	%100
19	M65	X	0	0	0	%100
20	M65	Z	0	0	0	%100
21	M71	X	0	0	0	%100
22	M71	Z	0	0	0	%100
23	M86	X	-5.913	-5.913	0	%100
24	M86	Z	0	0	0	%100
25	M87	X	-17.955	-17.955	0	%100
26	M87	Z	0	0	0	%100
27	M90	X	-18.608	-18.608	0	%100
28	M90	Z	0	0	0	%100
29	M50A	X	-3.652	-3.652	0	%100
30	M50A	Z	0	0	0	%100
31	M51A	X	-8.856	-8.856	0	%100
32	M51A	Z	0	0	0	%100
33	M52	X	-8.856	-8.856	0	%100
34	M52	Z	0	0	0	%100
35	M53A	X	-17.629	-17.629	0	%100
36	M53A	Z	0	0	0	%100
37	M56	X	-.001	-.001	0	%100
38	M56	Z	0	0	0	%100
39	M57	X	-9.645	-9.645	0	%100
40	M57	Z	0	0	0	%100
41	M62	X	-5.913	-5.913	0	%100
42	M62	Z	0	0	0	%100
43	M63	X	-17.955	-17.955	0	%100
44	M63	Z	0	0	0	%100
45	M65A	X	-18.608	-18.608	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,%]
46	M65A	Z	0	0	0	%100
47	M67	X	-5.913	-5.913	0	%100
48	M67	Z	0	0	0	%100
49	M68A	X	0	0	0	%100
50	M68A	Z	0	0	0	%100
51	M70	X	0	0	0	%100
52	M70	Z	0	0	0	%100
53	M72A	X	-14.609	-14.609	0	%100
54	M72A	Z	0	0	0	%100
55	M73	X	0	0	0	%100
56	M73	Z	0	0	0	%100
57	M74	X	0	0	0	%100
58	M74	Z	0	0	0	%100
59	M75	X	0	0	0	%100
60	M75	Z	0	0	0	%100
61	M78	X	-9.408	-9.408	0	%100
62	M78	Z	0	0	0	%100
63	M79	X	-9.409	-9.409	0	%100
64	M79	Z	0	0	0	%100
65	M84	X	-23.65	-23.65	0	%100
66	M84	Z	0	0	0	%100
67	M85	X	-17.955	-17.955	0	%100
68	M85	Z	0	0	0	%100
69	M87A	X	-18.608	-18.608	0	%100
70	M87A	Z	0	0	0	%100
71	M89A	X	-23.65	-23.65	0	%100
72	M89A	Z	0	0	0	%100
73	M90A	X	-17.955	-17.955	0	%100
74	M90A	Z	0	0	0	%100
75	M92	X	-18.608	-18.608	0	%100
76	M92	Z	0	0	0	%100
77	MP2A	X	-11.263	-11.263	0	%100
78	MP2A	Z	0	0	0	%100
79	MP3A	X	-9.304	-9.304	0	%100
80	MP3A	Z	0	0	0	%100
81	MP4A	X	-9.304	-9.304	0	%100
82	MP4A	Z	0	0	0	%100
83	M79A	X	-10.278	-10.278	0	%100
84	M79A	Z	0	0	0	%100
85	MP1C	X	-9.304	-9.304	0	%100
86	MP1C	Z	0	0	0	%100
87	MP2C	X	-11.263	-11.263	0	%100
88	MP2C	Z	0	0	0	%100
89	MP3C	X	-9.304	-9.304	0	%100
90	MP3C	Z	0	0	0	%100
91	MP4C	X	-9.304	-9.304	0	%100
92	MP4C	Z	0	0	0	%100
93	M88A	X	-10.278	-10.278	0	%100
94	M88A	Z	0	0	0	%100
95	MP1B	X	-9.304	-9.304	0	%100
96	MP1B	Z	0	0	0	%100
97	MP2B	X	-11.263	-11.263	0	%100
98	MP2B	Z	0	0	0	%100
99	MP3B	X	-9.304	-9.304	0	%100
100	MP3B	Z	0	0	0	%100
101	MP4B	X	-9.304	-9.304	0	%100
102	MP4B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
103	M98	X	-7.608	-7.608	0	%100
104	M98	Z	0	0	0	%100
105	M99	X	0	0	0	%100
106	M99	Z	0	0	0	%100
107	M106	X	-8.447	-8.447	0	%100
108	M106	Z	0	0	0	%100
109	M111	X	-8.447	-8.447	0	%100
110	M111	Z	0	0	0	%100
111	M123	X	-10.358	-10.358	0	%100
112	M123	Z	0	0	0	%100
113	M123A	X	-19.435	-19.435	0	%100
114	M123A	Z	0	0	0	%100
115	M124A	X	-15.617	-15.617	0	%100
116	M124A	Z	0	0	0	%100
117	M125	X	-15.617	-15.617	0	%100
118	M125	Z	0	0	0	%100
119	M124	X	0	0	0	%100
120	M124	Z	0	0	0	%100
121	M125A	X	-10.358	-10.358	0	%100
122	M125A	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	M13	X	-9.489	-9.489	0	%100
2	M13	Z	-5.478	-5.478	0	%100
3	M20	X	-2.967	-2.967	0	%100
4	M20	Z	-1.713	-1.713	0	%100
5	MP1A	X	-8.058	-8.058	0	%100
6	MP1A	Z	-4.652	-4.652	0	%100
7	M41A	X	-2.557	-2.557	0	%100
8	M41A	Z	-1.476	-1.476	0	%100
9	M42_1	X	-2.557	-2.557	0	%100
10	M42_1	Z	-1.476	-1.476	0	%100
11	M43A_1	X	-5.089	-5.089	0	%100
12	M43A_1	Z	-2.938	-2.938	0	%100
13	M46A	X	-10.999	-10.999	0	%100
14	M46A	Z	-6.35	-6.35	0	%100
15	M47	X	-2.649	-2.649	0	%100
16	M47	Z	-1.529	-1.529	0	%100
17	M64	X	-15.361	-15.361	0	%100
18	M64	Z	-8.869	-8.869	0	%100
19	M65	X	-5.183	-5.183	0	%100
20	M65	Z	-2.993	-2.993	0	%100
21	M71	X	-5.372	-5.372	0	%100
22	M71	Z	-3.101	-3.101	0	%100
23	M86	X	-15.361	-15.361	0	%100
24	M86	Z	-8.869	-8.869	0	%100
25	M87	X	-20.733	-20.733	0	%100
26	M87	Z	-11.97	-11.97	0	%100
27	M90	X	-21.487	-21.487	0	%100
28	M90	Z	-12.406	-12.406	0	%100
29	M50A	X	0	0	0	%100
30	M50A	Z	0	0	0	%100
31	M51A	X	-10.226	-10.226	0	%100
32	M51A	Z	-5.904	-5.904	0	%100
33	M52	X	-10.226	-10.226	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,%]
34	M52	Z	-5.904	-5.904	0	%100
35	M53A	X	-20.356	-20.356	0	%100
36	M53A	Z	-11.753	-11.753	0	%100
37	M56	X	-2.853	-2.853	0	%100
38	M56	Z	-1.647	-1.647	0	%100
39	M57	X	-2.853	-2.853	0	%100
40	M57	Z	-1.647	-1.647	0	%100
41	M62	X	0	0	0	%100
42	M62	Z	0	0	0	%100
43	M63	X	-5.183	-5.183	0	%100
44	M63	Z	-2.993	-2.993	0	%100
45	M65A	X	-5.372	-5.372	0	%100
46	M65A	Z	-3.101	-3.101	0	%100
47	M67	X	0	0	0	%100
48	M67	Z	0	0	0	%100
49	M68A	X	-5.183	-5.183	0	%100
50	M68A	Z	-2.993	-2.993	0	%100
51	M70	X	-5.372	-5.372	0	%100
52	M70	Z	-3.101	-3.101	0	%100
53	M72A	X	-9.489	-9.489	0	%100
54	M72A	Z	-5.478	-5.478	0	%100
55	M73	X	-2.557	-2.557	0	%100
56	M73	Z	-1.476	-1.476	0	%100
57	M74	X	-2.557	-2.557	0	%100
58	M74	Z	-1.476	-1.476	0	%100
59	M75	X	-5.089	-5.089	0	%100
60	M75	Z	-2.938	-2.938	0	%100
61	M78	X	-2.649	-2.649	0	%100
62	M78	Z	-1.529	-1.529	0	%100
63	M79	X	-11	-11	0	%100
64	M79	Z	-6.351	-6.351	0	%100
65	M84	X	-15.361	-15.361	0	%100
66	M84	Z	-8.869	-8.869	0	%100
67	M85	X	-20.733	-20.733	0	%100
68	M85	Z	-11.97	-11.97	0	%100
69	M87A	X	-21.487	-21.487	0	%100
70	M87A	Z	-12.406	-12.406	0	%100
71	M89A	X	-15.361	-15.361	0	%100
72	M89A	Z	-8.869	-8.869	0	%100
73	M90A	X	-5.183	-5.183	0	%100
74	M90A	Z	-2.993	-2.993	0	%100
75	M92	X	-5.372	-5.372	0	%100
76	M92	Z	-3.101	-3.101	0	%100
77	MP2A	X	-9.754	-9.754	0	%100
78	MP2A	Z	-5.631	-5.631	0	%100
79	MP3A	X	-8.058	-8.058	0	%100
80	MP3A	Z	-4.652	-4.652	0	%100
81	MP4A	X	-8.058	-8.058	0	%100
82	MP4A	Z	-4.652	-4.652	0	%100
83	M79A	X	-2.967	-2.967	0	%100
84	M79A	Z	-1.713	-1.713	0	%100
85	MP1C	X	-8.058	-8.058	0	%100
86	MP1C	Z	-4.652	-4.652	0	%100
87	MP2C	X	-9.754	-9.754	0	%100
88	MP2C	Z	-5.631	-5.631	0	%100
89	MP3C	X	-8.058	-8.058	0	%100
90	MP3C	Z	-4.652	-4.652	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,%]
91	MP4C	X	-8.058	-8.058	0	%100
92	MP4C	Z	-4.652	-4.652	0	%100
93	M88A	X	-11.868	-11.868	0	%100
94	M88A	Z	-6.852	-6.852	0	%100
95	MP1B	X	-8.058	-8.058	0	%100
96	MP1B	Z	-4.652	-4.652	0	%100
97	MP2B	X	-9.754	-9.754	0	%100
98	MP2B	Z	-5.631	-5.631	0	%100
99	MP3B	X	-8.058	-8.058	0	%100
100	MP3B	Z	-4.652	-4.652	0	%100
101	MP4B	X	-8.058	-8.058	0	%100
102	MP4B	Z	-4.652	-4.652	0	%100
103	M98	X	-6.589	-6.589	0	%100
104	M98	Z	-3.804	-3.804	0	%100
105	M99	X	-2.439	-2.439	0	%100
106	M99	Z	-1.408	-1.408	0	%100
107	M106	X	-2.439	-2.439	0	%100
108	M106	Z	-1.408	-1.408	0	%100
109	M111	X	-9.754	-9.754	0	%100
110	M111	Z	-5.631	-5.631	0	%100
111	M123	X	-11.961	-11.961	0	%100
112	M123	Z	-6.906	-6.906	0	%100
113	M123A	X	-15.729	-15.729	0	%100
114	M123A	Z	-9.081	-9.081	0	%100
115	M124A	X	-15.729	-15.729	0	%100
116	M124A	Z	-9.081	-9.081	0	%100
117	M125	X	-12.422	-12.422	0	%100
118	M125	Z	-7.172	-7.172	0	%100
119	M124	X	-2.99	-2.99	0	%100
120	M124	Z	-1.726	-1.726	0	%100
121	M125A	X	-2.99	-2.99	0	%100
122	M125A	Z	-1.726	-1.726	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	M13	X	-7.305	-7.305	0	%100
2	M13	Z	-12.652	-12.652	0	%100
3	M20	X	-5.139	-5.139	0	%100
4	M20	Z	-8.901	-8.901	0	%100
5	MP1A	X	-4.652	-4.652	0	%100
6	MP1A	Z	-8.058	-8.058	0	%100
7	M41A	X	0	0	0	%100
8	M41A	Z	0	0	0	%100
9	M42_1	X	0	0	0	%100
10	M42_1	Z	0	0	0	%100
11	M43A_1	X	0	0	0	%100
12	M43A_1	Z	0	0	0	%100
13	M46A	X	-4.704	-4.704	0	%100
14	M46A	Z	-8.147	-8.147	0	%100
15	M47	X	-4.705	-4.705	0	%100
16	M47	Z	-8.149	-8.149	0	%100
17	M64	X	-11.825	-11.825	0	%100
18	M64	Z	-20.482	-20.482	0	%100
19	M65	X	-8.978	-8.978	0	%100
20	M65	Z	-15.55	-15.55	0	%100
21	M71	X	-9.304	-9.304	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,%]
22	M71	Z	-16.115	-16.115	0	%100
23	M86	X	-11.825	-11.825	0	%100
24	M86	Z	-20.482	-20.482	0	%100
25	M87	X	-8.978	-8.978	0	%100
26	M87	Z	-15.55	-15.55	0	%100
27	M90	X	-9.304	-9.304	0	%100
28	M90	Z	-16.115	-16.115	0	%100
29	M50A	X	-1.826	-1.826	0	%100
30	M50A	Z	-3.163	-3.163	0	%100
31	M51A	X	-4.428	-4.428	0	%100
32	M51A	Z	-7.67	-7.67	0	%100
33	M52	X	-4.428	-4.428	0	%100
34	M52	Z	-7.67	-7.67	0	%100
35	M53A	X	-8.814	-8.814	0	%100
36	M53A	Z	-15.267	-15.267	0	%100
37	M56	X	-4.822	-4.822	0	%100
38	M56	Z	-8.351	-8.351	0	%100
39	M57	X	-.000727	-.000727	0	%100
40	M57	Z	-.001	-.001	0	%100
41	M62	X	-2.956	-2.956	0	%100
42	M62	Z	-5.12	-5.12	0	%100
43	M63	X	0	0	0	%100
44	M63	Z	0	0	0	%100
45	M65A	X	0	0	0	%100
46	M65A	Z	0	0	0	%100
47	M67	X	-2.956	-2.956	0	%100
48	M67	Z	-5.12	-5.12	0	%100
49	M68A	X	-8.978	-8.978	0	%100
50	M68A	Z	-15.55	-15.55	0	%100
51	M70	X	-9.304	-9.304	0	%100
52	M70	Z	-16.115	-16.115	0	%100
53	M72A	X	-1.826	-1.826	0	%100
54	M72A	Z	-3.163	-3.163	0	%100
55	M73	X	-4.428	-4.428	0	%100
56	M73	Z	-7.67	-7.67	0	%100
57	M74	X	-4.428	-4.428	0	%100
58	M74	Z	-7.67	-7.67	0	%100
59	M75	X	-8.814	-8.814	0	%100
60	M75	Z	-15.267	-15.267	0	%100
61	M78	X	-.000727	-.000727	0	%100
62	M78	Z	-.001	-.001	0	%100
63	M79	X	-4.822	-4.822	0	%100
64	M79	Z	-8.352	-8.352	0	%100
65	M84	X	-2.956	-2.956	0	%100
66	M84	Z	-5.12	-5.12	0	%100
67	M85	X	-8.978	-8.978	0	%100
68	M85	Z	-15.55	-15.55	0	%100
69	M87A	X	-9.304	-9.304	0	%100
70	M87A	Z	-16.115	-16.115	0	%100
71	M89A	X	-2.956	-2.956	0	%100
72	M89A	Z	-5.12	-5.12	0	%100
73	M90A	X	0	0	0	%100
74	M90A	Z	0	0	0	%100
75	M92	X	0	0	0	%100
76	M92	Z	0	0	0	%100
77	MP2A	X	-5.631	-5.631	0	%100
78	MP2A	Z	-9.754	-9.754	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,%]
79	MP3A	X	-4.652	-4.652	0	%100
80	MP3A	Z	-8.058	-8.058	0	%100
81	MP4A	X	-4.652	-4.652	0	%100
82	MP4A	Z	-8.058	-8.058	0	%100
83	M79A	X	0	0	0	%100
84	M79A	Z	0	0	0	%100
85	MP1C	X	-4.652	-4.652	0	%100
86	MP1C	Z	-8.058	-8.058	0	%100
87	MP2C	X	-5.631	-5.631	0	%100
88	MP2C	Z	-9.754	-9.754	0	%100
89	MP3C	X	-4.652	-4.652	0	%100
90	MP3C	Z	-8.058	-8.058	0	%100
91	MP4C	X	-4.652	-4.652	0	%100
92	MP4C	Z	-8.058	-8.058	0	%100
93	M88A	X	-5.139	-5.139	0	%100
94	M88A	Z	-8.901	-8.901	0	%100
95	MP1B	X	-4.652	-4.652	0	%100
96	MP1B	Z	-8.058	-8.058	0	%100
97	MP2B	X	-5.631	-5.631	0	%100
98	MP2B	Z	-9.754	-9.754	0	%100
99	MP3B	X	-4.652	-4.652	0	%100
100	MP3B	Z	-8.058	-8.058	0	%100
101	MP4B	X	-4.652	-4.652	0	%100
102	MP4B	Z	-8.058	-8.058	0	%100
103	M98	X	-3.804	-3.804	0	%100
104	M98	Z	-6.589	-6.589	0	%100
105	M99	X	-4.224	-4.224	0	%100
106	M99	Z	-7.316	-7.316	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	0	0	0	%100
109	M111	X	-4.224	-4.224	0	%100
110	M111	Z	-7.316	-7.316	0	%100
111	M123	X	-5.179	-5.179	0	%100
112	M123	Z	-8.971	-8.971	0	%100
113	M123A	X	-7.808	-7.808	0	%100
114	M123A	Z	-13.524	-13.524	0	%100
115	M124A	X	-9.717	-9.717	0	%100
116	M124A	Z	-16.831	-16.831	0	%100
117	M125	X	-7.808	-7.808	0	%100
118	M125	Z	-13.524	-13.524	0	%100
119	M124	X	-5.179	-5.179	0	%100
120	M124	Z	-8.971	-8.971	0	%100
121	M125A	X	0	0	0	%100
122	M125A	Z	0	0	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	M13	X	0	0	0	%100
2	M13	Z	-3.86	-3.86	0	%100
3	M20	X	0	0	0	%100
4	M20	Z	-5.168	-5.168	0	%100
5	MP1A	X	0	0	0	%100
6	MP1A	Z	-4.335	-4.335	0	%100
7	M41A	X	0	0	0	%100
8	M41A	Z	-1.003	-1.003	0	%100
9	M42_1	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,%]
10	M42_1	Z	-1.003	-1.003	0	%100
11	M43A_1	X	0	0	0	%100
12	M43A_1	Z	-1.502	-1.502	0	%100
13	M46A	X	0	0	0	%100
14	M46A	Z	-1.066	-1.066	0	%100
15	M47	X	0	0	0	%100
16	M47	Z	-4.425	-4.425	0	%100
17	M64	X	0	0	0	%100
18	M64	Z	-4.48	-4.48	0	%100
19	M65	X	0	0	0	%100
20	M65	Z	-6.028	-6.028	0	%100
21	M71	X	0	0	0	%100
22	M71	Z	-6.193	-6.193	0	%100
23	M86	X	0	0	0	%100
24	M86	Z	-4.48	-4.48	0	%100
25	M87	X	0	0	0	%100
26	M87	Z	-1.507	-1.507	0	%100
27	M90	X	0	0	0	%100
28	M90	Z	-1.548	-1.548	0	%100
29	M50A	X	0	0	0	%100
30	M50A	Z	-3.86	-3.86	0	%100
31	M51A	X	0	0	0	%100
32	M51A	Z	-1.003	-1.003	0	%100
33	M52	X	0	0	0	%100
34	M52	Z	-1.003	-1.003	0	%100
35	M53A	X	0	0	0	%100
36	M53A	Z	-1.502	-1.502	0	%100
37	M56	X	0	0	0	%100
38	M56	Z	-4.425	-4.425	0	%100
39	M57	X	0	0	0	%100
40	M57	Z	-1.066	-1.066	0	%100
41	M62	X	0	0	0	%100
42	M62	Z	-4.48	-4.48	0	%100
43	M63	X	0	0	0	%100
44	M63	Z	-1.507	-1.507	0	%100
45	M65A	X	0	0	0	%100
46	M65A	Z	-1.548	-1.548	0	%100
47	M67	X	0	0	0	%100
48	M67	Z	-4.48	-4.48	0	%100
49	M68A	X	0	0	0	%100
50	M68A	Z	-6.028	-6.028	0	%100
51	M70	X	0	0	0	%100
52	M70	Z	-6.193	-6.193	0	%100
53	M72A	X	0	0	0	%100
54	M72A	Z	0	0	0	%100
55	M73	X	0	0	0	%100
56	M73	Z	-4.012	-4.012	0	%100
57	M74	X	0	0	0	%100
58	M74	Z	-4.012	-4.012	0	%100
59	M75	X	0	0	0	%100
60	M75	Z	-6.007	-6.007	0	%100
61	M78	X	0	0	0	%100
62	M78	Z	-1.148	-1.148	0	%100
63	M79	X	0	0	0	%100
64	M79	Z	-1.148	-1.148	0	%100
65	M84	X	0	0	0	%100
66	M84	Z	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,%]
67	M85	X	0	0	0	%100
68	M85	Z	-1.507	-1.507	0	%100
69	M87A	X	0	0	0	%100
70	M87A	Z	-1.548	-1.548	0	%100
71	M89A	X	0	0	0	%100
72	M89A	Z	0	0	0	%100
73	M90A	X	0	0	0	%100
74	M90A	Z	-1.507	-1.507	0	%100
75	M92	X	0	0	0	%100
76	M92	Z	-1.548	-1.548	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	-4.705	-4.705	0	%100
79	MP3A	X	0	0	0	%100
80	MP3A	Z	-4.335	-4.335	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	-4.335	-4.335	0	%100
83	M79A	X	0	0	0	%100
84	M79A	Z	-1.292	-1.292	0	%100
85	MP1C	X	0	0	0	%100
86	MP1C	Z	-4.335	-4.335	0	%100
87	MP2C	X	0	0	0	%100
88	MP2C	Z	-4.705	-4.705	0	%100
89	MP3C	X	0	0	0	%100
90	MP3C	Z	-4.335	-4.335	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	-4.335	-4.335	0	%100
93	M88A	X	0	0	0	%100
94	M88A	Z	-1.292	-1.292	0	%100
95	MP1B	X	0	0	0	%100
96	MP1B	Z	-4.335	-4.335	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	-4.705	-4.705	0	%100
99	MP3B	X	0	0	0	%100
100	MP3B	Z	-4.335	-4.335	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	-4.335	-4.335	0	%100
103	M98	X	0	0	0	%100
104	M98	Z	-3.315	-3.315	0	%100
105	M99	X	0	0	0	%100
106	M99	Z	-4.705	-4.705	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	-1.176	-1.176	0	%100
109	M111	X	0	0	0	%100
110	M111	Z	-1.176	-1.176	0	%100
111	M123	X	0	0	0	%100
112	M123	Z	-1.074	-1.074	0	%100
113	M123A	X	0	0	0	%100
114	M123A	Z	-3.729	-3.729	0	%100
115	M124A	X	0	0	0	%100
116	M124A	Z	-5.482	-5.482	0	%100
117	M125	X	0	0	0	%100
118	M125	Z	-5.482	-5.482	0	%100
119	M124	X	0	0	0	%100
120	M124	Z	-4.295	-4.295	0	%100
121	M125A	X	0	0	0	%100
122	M125A	Z	-1.074	-1.074	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	M13	X	.643	.643	0	%100
2	M13	Z	-1.114	-1.114	0	%100
3	M20	X	1.938	1.938	0	%100
4	M20	Z	-3.357	-3.357	0	%100
5	MP1A	X	2.167	2.167	0	%100
6	MP1A	Z	-3.754	-3.754	0	%100
7	M41A	X	1.504	1.504	0	%100
8	M41A	Z	-2.606	-2.606	0	%100
9	M42_1	X	1.504	1.504	0	%100
10	M42_1	Z	-2.606	-2.606	0	%100
11	M43A_1	X	2.253	2.253	0	%100
12	M43A_1	Z	-3.902	-3.902	0	%100
13	M46A	X	.000253	.000253	0	%100
14	M46A	Z	-.000439	-.000439	0	%100
15	M47	X	1.68	1.68	0	%100
16	M47	Z	-2.91	-2.91	0	%100
17	M64	X	.747	.747	0	%100
18	M64	Z	-1.293	-1.293	0	%100
19	M65	X	2.261	2.261	0	%100
20	M65	Z	-3.916	-3.916	0	%100
21	M71	X	2.322	2.322	0	%100
22	M71	Z	-4.022	-4.022	0	%100
23	M86	X	.747	.747	0	%100
24	M86	Z	-1.293	-1.293	0	%100
25	M87	X	0	0	0	%100
26	M87	Z	0	0	0	%100
27	M90	X	0	0	0	%100
28	M90	Z	0	0	0	%100
29	M50A	X	2.573	2.573	0	%100
30	M50A	Z	-4.457	-4.457	0	%100
31	M51A	X	0	0	0	%100
32	M51A	Z	0	0	0	%100
33	M52	X	0	0	0	%100
34	M52	Z	0	0	0	%100
35	M53A	X	0	0	0	%100
36	M53A	Z	0	0	0	%100
37	M56	X	1.639	1.639	0	%100
38	M56	Z	-2.839	-2.839	0	%100
39	M57	X	1.639	1.639	0	%100
40	M57	Z	-2.839	-2.839	0	%100
41	M62	X	2.987	2.987	0	%100
42	M62	Z	-5.173	-5.173	0	%100
43	M63	X	2.261	2.261	0	%100
44	M63	Z	-3.916	-3.916	0	%100
45	M65A	X	2.322	2.322	0	%100
46	M65A	Z	-4.022	-4.022	0	%100
47	M67	X	2.987	2.987	0	%100
48	M67	Z	-5.173	-5.173	0	%100
49	M68A	X	2.261	2.261	0	%100
50	M68A	Z	-3.916	-3.916	0	%100
51	M70	X	2.322	2.322	0	%100
52	M70	Z	-4.022	-4.022	0	%100
53	M72A	X	.643	.643	0	%100
54	M72A	Z	-1.114	-1.114	0	%100
55	M73	X	1.504	1.504	0	%100
56	M73	Z	-2.606	-2.606	0	%100
57	M74	X	1.504	1.504	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	M74	Z	-2.606	-2.606	0	%100
59	M75	X	2.253	2.253	0	%100
60	M75	Z	-3.902	-3.902	0	%100
61	M78	X	1.68	1.68	0	%100
62	M78	Z	-2.91	-2.91	0	%100
63	M79	X	.000253	.000253	0	%100
64	M79	Z	-.000439	-.000439	0	%100
65	M84	X	.747	.747	0	%100
66	M84	Z	-1.293	-1.293	0	%100
67	M85	X	0	0	0	%100
68	M85	Z	0	0	0	%100
69	M87A	X	0	0	0	%100
70	M87A	Z	0	0	0	%100
71	M89A	X	.747	.747	0	%100
72	M89A	Z	-1.293	-1.293	0	%100
73	M90A	X	2.261	2.261	0	%100
74	M90A	Z	-3.916	-3.916	0	%100
75	M92	X	2.322	2.322	0	%100
76	M92	Z	-4.022	-4.022	0	%100
77	MP2A	X	2.353	2.353	0	%100
78	MP2A	Z	-4.075	-4.075	0	%100
79	MP3A	X	2.167	2.167	0	%100
80	MP3A	Z	-3.754	-3.754	0	%100
81	MP4A	X	2.167	2.167	0	%100
82	MP4A	Z	-3.754	-3.754	0	%100
83	M79A	X	1.938	1.938	0	%100
84	M79A	Z	-3.357	-3.357	0	%100
85	MP1C	X	2.167	2.167	0	%100
86	MP1C	Z	-3.754	-3.754	0	%100
87	MP2C	X	2.353	2.353	0	%100
88	MP2C	Z	-4.075	-4.075	0	%100
89	MP3C	X	2.167	2.167	0	%100
90	MP3C	Z	-3.754	-3.754	0	%100
91	MP4C	X	2.167	2.167	0	%100
92	MP4C	Z	-3.754	-3.754	0	%100
93	M88A	X	0	0	0	%100
94	M88A	Z	0	0	0	%100
95	MP1B	X	2.167	2.167	0	%100
96	MP1B	Z	-3.754	-3.754	0	%100
97	MP2B	X	2.353	2.353	0	%100
98	MP2B	Z	-4.075	-4.075	0	%100
99	MP3B	X	2.167	2.167	0	%100
100	MP3B	Z	-3.754	-3.754	0	%100
101	MP4B	X	2.167	2.167	0	%100
102	MP4B	Z	-3.754	-3.754	0	%100
103	M98	X	1.658	1.658	0	%100
104	M98	Z	-2.871	-2.871	0	%100
105	M99	X	1.764	1.764	0	%100
106	M99	Z	-3.056	-3.056	0	%100
107	M106	X	1.764	1.764	0	%100
108	M106	Z	-3.056	-3.056	0	%100
109	M111	X	0	0	0	%100
110	M111	Z	0	0	0	%100
111	M123	X	0	0	0	%100
112	M123	Z	0	0	0	%100
113	M123A	X	2.157	2.157	0	%100
114	M123A	Z	-3.736	-3.736	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,%]
115	M124A	X	2.157	2.157	0	%100
116	M124A	Z	-3.736	-3.736	0	%100
117	M125	X	3.033	3.033	0	%100
118	M125	Z	-5.254	-5.254	0	%100
119	M124	X	1.611	1.611	0	%100
120	M124	Z	-2.79	-2.79	0	%100
121	M125A	X	1.611	1.611	0	%100
122	M125A	Z	-2.79	-2.79	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	M13	X	0	0	0	%100
2	M13	Z	0	0	0	%100
3	M20	X	1.119	1.119	0	%100
4	M20	Z	-.646	-.646	0	%100
5	MP1A	X	3.754	3.754	0	%100
6	MP1A	Z	-2.167	-2.167	0	%100
7	M41A	X	3.474	3.474	0	%100
8	M41A	Z	-2.006	-2.006	0	%100
9	M42_1	X	3.474	3.474	0	%100
10	M42_1	Z	-2.006	-2.006	0	%100
11	M43A_1	X	5.202	5.202	0	%100
12	M43A_1	Z	-3.003	-3.003	0	%100
13	M46A	X	.994	.994	0	%100
14	M46A	Z	-.574	-.574	0	%100
15	M47	X	.994	.994	0	%100
16	M47	Z	-.574	-.574	0	%100
17	M64	X	0	0	0	%100
18	M64	Z	0	0	0	%100
19	M65	X	1.305	1.305	0	%100
20	M65	Z	-.754	-.754	0	%100
21	M71	X	1.341	1.341	0	%100
22	M71	Z	-.774	-.774	0	%100
23	M86	X	0	0	0	%100
24	M86	Z	0	0	0	%100
25	M87	X	1.305	1.305	0	%100
26	M87	Z	-.754	-.754	0	%100
27	M90	X	1.341	1.341	0	%100
28	M90	Z	-.774	-.774	0	%100
29	M50A	X	3.343	3.343	0	%100
30	M50A	Z	-1.93	-1.93	0	%100
31	M51A	X	.869	.869	0	%100
32	M51A	Z	-.501	-.501	0	%100
33	M52	X	.869	.869	0	%100
34	M52	Z	-.501	-.501	0	%100
35	M53A	X	1.301	1.301	0	%100
36	M53A	Z	-.751	-.751	0	%100
37	M56	X	.923	.923	0	%100
38	M56	Z	-.533	-.533	0	%100
39	M57	X	3.832	3.832	0	%100
40	M57	Z	-2.213	-2.213	0	%100
41	M62	X	3.88	3.88	0	%100
42	M62	Z	-2.24	-2.24	0	%100
43	M63	X	5.221	5.221	0	%100
44	M63	Z	-3.014	-3.014	0	%100
45	M65A	X	5.363	5.363	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,%]
46	M65A	Z	-3.096	-3.096	0	%100
47	M67	X	3.88	3.88	0	%100
48	M67	Z	-2.24	-2.24	0	%100
49	M68A	X	1.305	1.305	0	%100
50	M68A	Z	-.754	-.754	0	%100
51	M70	X	1.341	1.341	0	%100
52	M70	Z	-.774	-.774	0	%100
53	M72A	X	3.343	3.343	0	%100
54	M72A	Z	-1.93	-1.93	0	%100
55	M73	X	.869	.869	0	%100
56	M73	Z	-.501	-.501	0	%100
57	M74	X	.869	.869	0	%100
58	M74	Z	-.501	-.501	0	%100
59	M75	X	1.301	1.301	0	%100
60	M75	Z	-.751	-.751	0	%100
61	M78	X	3.832	3.832	0	%100
62	M78	Z	-2.212	-2.212	0	%100
63	M79	X	.923	.923	0	%100
64	M79	Z	-.533	-.533	0	%100
65	M84	X	3.88	3.88	0	%100
66	M84	Z	-2.24	-2.24	0	%100
67	M85	X	1.305	1.305	0	%100
68	M85	Z	-.754	-.754	0	%100
69	M87A	X	1.341	1.341	0	%100
70	M87A	Z	-.774	-.774	0	%100
71	M89A	X	3.88	3.88	0	%100
72	M89A	Z	-2.24	-2.24	0	%100
73	M90A	X	5.221	5.221	0	%100
74	M90A	Z	-3.014	-3.014	0	%100
75	M92	X	5.363	5.363	0	%100
76	M92	Z	-3.096	-3.096	0	%100
77	MP2A	X	4.075	4.075	0	%100
78	MP2A	Z	-2.353	-2.353	0	%100
79	MP3A	X	3.754	3.754	0	%100
80	MP3A	Z	-2.167	-2.167	0	%100
81	MP4A	X	3.754	3.754	0	%100
82	MP4A	Z	-2.167	-2.167	0	%100
83	M79A	X	4.476	4.476	0	%100
84	M79A	Z	-2.584	-2.584	0	%100
85	MP1C	X	3.754	3.754	0	%100
86	MP1C	Z	-2.167	-2.167	0	%100
87	MP2C	X	4.075	4.075	0	%100
88	MP2C	Z	-2.353	-2.353	0	%100
89	MP3C	X	3.754	3.754	0	%100
90	MP3C	Z	-2.167	-2.167	0	%100
91	MP4C	X	3.754	3.754	0	%100
92	MP4C	Z	-2.167	-2.167	0	%100
93	M88A	X	1.119	1.119	0	%100
94	M88A	Z	-.646	-.646	0	%100
95	MP1B	X	3.754	3.754	0	%100
96	MP1B	Z	-2.167	-2.167	0	%100
97	MP2B	X	4.075	4.075	0	%100
98	MP2B	Z	-2.353	-2.353	0	%100
99	MP3B	X	3.754	3.754	0	%100
100	MP3B	Z	-2.167	-2.167	0	%100
101	MP4B	X	3.754	3.754	0	%100
102	MP4B	Z	-2.167	-2.167	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,%]
103	M98	X	2.871	2.871	0	%100
104	M98	Z	-1.658	-1.658	0	%100
105	M99	X	1.019	1.019	0	%100
106	M99	Z	-.588	-.588	0	%100
107	M106	X	4.075	4.075	0	%100
108	M106	Z	-2.353	-2.353	0	%100
109	M111	X	1.019	1.019	0	%100
110	M111	Z	-.588	-.588	0	%100
111	M123	X	.93	.93	0	%100
112	M123	Z	-.537	-.537	0	%100
113	M123A	X	4.748	4.748	0	%100
114	M123A	Z	-2.741	-2.741	0	%100
115	M124A	X	3.23	3.23	0	%100
116	M124A	Z	-1.865	-1.865	0	%100
117	M125	X	4.748	4.748	0	%100
118	M125	Z	-2.741	-2.741	0	%100
119	M124	X	.93	.93	0	%100
120	M124	Z	-.537	-.537	0	%100
121	M125A	X	3.719	3.719	0	%100
122	M125A	Z	-2.147	-2.147	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	M13	X	1.287	1.287	0	%100
2	M13	Z	0	0	0	%100
3	M20	X	0	0	0	%100
4	M20	Z	0	0	0	%100
5	MP1A	X	4.335	4.335	0	%100
6	MP1A	Z	0	0	0	%100
7	M41A	X	3.009	3.009	0	%100
8	M41A	Z	0	0	0	%100
9	M42_1	X	3.009	3.009	0	%100
10	M42_1	Z	0	0	0	%100
11	M43A_1	X	4.505	4.505	0	%100
12	M43A_1	Z	0	0	0	%100
13	M46A	X	3.36	3.36	0	%100
14	M46A	Z	0	0	0	%100
15	M47	X	.000507	.000507	0	%100
16	M47	Z	0	0	0	%100
17	M64	X	1.493	1.493	0	%100
18	M64	Z	0	0	0	%100
19	M65	X	0	0	0	%100
20	M65	Z	0	0	0	%100
21	M71	X	0	0	0	%100
22	M71	Z	0	0	0	%100
23	M86	X	1.493	1.493	0	%100
24	M86	Z	0	0	0	%100
25	M87	X	4.521	4.521	0	%100
26	M87	Z	0	0	0	%100
27	M90	X	4.645	4.645	0	%100
28	M90	Z	0	0	0	%100
29	M50A	X	1.287	1.287	0	%100
30	M50A	Z	0	0	0	%100
31	M51A	X	3.009	3.009	0	%100
32	M51A	Z	0	0	0	%100
33	M52	X	3.009	3.009	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
34	M52	Z	0	0	0	%100
35	M53A	X	4.505	4.505	0	%100
36	M53A	Z	0	0	0	%100
37	M56	X	.000507	.000507	0	%100
38	M56	Z	0	0	0	%100
39	M57	X	3.36	3.36	0	%100
40	M57	Z	0	0	0	%100
41	M62	X	1.493	1.493	0	%100
42	M62	Z	0	0	0	%100
43	M63	X	4.521	4.521	0	%100
44	M63	Z	0	0	0	%100
45	M65A	X	4.645	4.645	0	%100
46	M65A	Z	0	0	0	%100
47	M67	X	1.493	1.493	0	%100
48	M67	Z	0	0	0	%100
49	M68A	X	0	0	0	%100
50	M68A	Z	0	0	0	%100
51	M70	X	0	0	0	%100
52	M70	Z	0	0	0	%100
53	M72A	X	5.146	5.146	0	%100
54	M72A	Z	0	0	0	%100
55	M73	X	0	0	0	%100
56	M73	Z	0	0	0	%100
57	M74	X	0	0	0	%100
58	M74	Z	0	0	0	%100
59	M75	X	0	0	0	%100
60	M75	Z	0	0	0	%100
61	M78	X	3.278	3.278	0	%100
62	M78	Z	0	0	0	%100
63	M79	X	3.278	3.278	0	%100
64	M79	Z	0	0	0	%100
65	M84	X	5.974	5.974	0	%100
66	M84	Z	0	0	0	%100
67	M85	X	4.521	4.521	0	%100
68	M85	Z	0	0	0	%100
69	M87A	X	4.645	4.645	0	%100
70	M87A	Z	0	0	0	%100
71	M89A	X	5.974	5.974	0	%100
72	M89A	Z	0	0	0	%100
73	M90A	X	4.521	4.521	0	%100
74	M90A	Z	0	0	0	%100
75	M92	X	4.645	4.645	0	%100
76	M92	Z	0	0	0	%100
77	MP2A	X	4.705	4.705	0	%100
78	MP2A	Z	0	0	0	%100
79	MP3A	X	4.335	4.335	0	%100
80	MP3A	Z	0	0	0	%100
81	MP4A	X	4.335	4.335	0	%100
82	MP4A	Z	0	0	0	%100
83	M79A	X	3.876	3.876	0	%100
84	M79A	Z	0	0	0	%100
85	MP1C	X	4.335	4.335	0	%100
86	MP1C	Z	0	0	0	%100
87	MP2C	X	4.705	4.705	0	%100
88	MP2C	Z	0	0	0	%100
89	MP3C	X	4.335	4.335	0	%100
90	MP3C	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
91	MP4C	X	4.335	4.335	0	%100
92	MP4C	Z	0	0	0	%100
93	M88A	X	3.876	3.876	0	%100
94	M88A	Z	0	0	0	%100
95	MP1B	X	4.335	4.335	0	%100
96	MP1B	Z	0	0	0	%100
97	MP2B	X	4.705	4.705	0	%100
98	MP2B	Z	0	0	0	%100
99	MP3B	X	4.335	4.335	0	%100
100	MP3B	Z	0	0	0	%100
101	MP4B	X	4.335	4.335	0	%100
102	MP4B	Z	0	0	0	%100
103	M98	X	3.315	3.315	0	%100
104	M98	Z	0	0	0	%100
105	M99	X	0	0	0	%100
106	M99	Z	0	0	0	%100
107	M106	X	3.529	3.529	0	%100
108	M106	Z	0	0	0	%100
109	M111	X	3.529	3.529	0	%100
110	M111	Z	0	0	0	%100
111	M123	X	3.221	3.221	0	%100
112	M123	Z	0	0	0	%100
113	M123A	X	6.067	6.067	0	%100
114	M123A	Z	0	0	0	%100
115	M124A	X	4.314	4.314	0	%100
116	M124A	Z	0	0	0	%100
117	M125	X	4.314	4.314	0	%100
118	M125	Z	0	0	0	%100
119	M124	X	0	0	0	%100
120	M124	Z	0	0	0	%100
121	M125A	X	3.221	3.221	0	%100
122	M125A	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	M13	X	3.343	3.343	0	%100
2	M13	Z	1.93	1.93	0	%100
3	M20	X	1.119	1.119	0	%100
4	M20	Z	.646	.646	0	%100
5	MP1A	X	3.754	3.754	0	%100
6	MP1A	Z	2.167	2.167	0	%100
7	M41A	X	.869	.869	0	%100
8	M41A	Z	.501	.501	0	%100
9	M42_1	X	.869	.869	0	%100
10	M42_1	Z	.501	.501	0	%100
11	M43A_1	X	1.301	1.301	0	%100
12	M43A_1	Z	.751	.751	0	%100
13	M46A	X	3.832	3.832	0	%100
14	M46A	Z	2.212	2.212	0	%100
15	M47	X	.923	.923	0	%100
16	M47	Z	.533	.533	0	%100
17	M64	X	3.88	3.88	0	%100
18	M64	Z	2.24	2.24	0	%100
19	M65	X	1.305	1.305	0	%100
20	M65	Z	.754	.754	0	%100
21	M71	X	1.341	1.341	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,%]
22	M71	Z	.774	.774	0	%100
23	M86	X	3.88	3.88	0	%100
24	M86	Z	2.24	2.24	0	%100
25	M87	X	5.221	5.221	0	%100
26	M87	Z	3.014	3.014	0	%100
27	M90	X	5.363	5.363	0	%100
28	M90	Z	3.096	3.096	0	%100
29	M50A	X	0	0	0	%100
30	M50A	Z	0	0	0	%100
31	M51A	X	3.474	3.474	0	%100
32	M51A	Z	2.006	2.006	0	%100
33	M52	X	3.474	3.474	0	%100
34	M52	Z	2.006	2.006	0	%100
35	M53A	X	5.202	5.202	0	%100
36	M53A	Z	3.003	3.003	0	%100
37	M56	X	.994	.994	0	%100
38	M56	Z	.574	.574	0	%100
39	M57	X	.994	.994	0	%100
40	M57	Z	.574	.574	0	%100
41	M62	X	0	0	0	%100
42	M62	Z	0	0	0	%100
43	M63	X	1.305	1.305	0	%100
44	M63	Z	.754	.754	0	%100
45	M65A	X	1.341	1.341	0	%100
46	M65A	Z	.774	.774	0	%100
47	M67	X	0	0	0	%100
48	M67	Z	0	0	0	%100
49	M68A	X	1.305	1.305	0	%100
50	M68A	Z	.754	.754	0	%100
51	M70	X	1.341	1.341	0	%100
52	M70	Z	.774	.774	0	%100
53	M72A	X	3.343	3.343	0	%100
54	M72A	Z	1.93	1.93	0	%100
55	M73	X	.869	.869	0	%100
56	M73	Z	.501	.501	0	%100
57	M74	X	.869	.869	0	%100
58	M74	Z	.501	.501	0	%100
59	M75	X	1.301	1.301	0	%100
60	M75	Z	.751	.751	0	%100
61	M78	X	.923	.923	0	%100
62	M78	Z	.533	.533	0	%100
63	M79	X	3.832	3.832	0	%100
64	M79	Z	2.213	2.213	0	%100
65	M84	X	3.88	3.88	0	%100
66	M84	Z	2.24	2.24	0	%100
67	M85	X	5.221	5.221	0	%100
68	M85	Z	3.014	3.014	0	%100
69	M87A	X	5.363	5.363	0	%100
70	M87A	Z	3.096	3.096	0	%100
71	M89A	X	3.88	3.88	0	%100
72	M89A	Z	2.24	2.24	0	%100
73	M90A	X	1.305	1.305	0	%100
74	M90A	Z	.754	.754	0	%100
75	M92	X	1.341	1.341	0	%100
76	M92	Z	.774	.774	0	%100
77	MP2A	X	4.075	4.075	0	%100
78	MP2A	Z	2.353	2.353	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,%]
79	MP3A	X	3.754	3.754	0	%100
80	MP3A	Z	2.167	2.167	0	%100
81	MP4A	X	3.754	3.754	0	%100
82	MP4A	Z	2.167	2.167	0	%100
83	M79A	X	1.119	1.119	0	%100
84	M79A	Z	.646	.646	0	%100
85	MP1C	X	3.754	3.754	0	%100
86	MP1C	Z	2.167	2.167	0	%100
87	MP2C	X	4.075	4.075	0	%100
88	MP2C	Z	2.353	2.353	0	%100
89	MP3C	X	3.754	3.754	0	%100
90	MP3C	Z	2.167	2.167	0	%100
91	MP4C	X	3.754	3.754	0	%100
92	MP4C	Z	2.167	2.167	0	%100
93	M88A	X	4.476	4.476	0	%100
94	M88A	Z	2.584	2.584	0	%100
95	MP1B	X	3.754	3.754	0	%100
96	MP1B	Z	2.167	2.167	0	%100
97	MP2B	X	4.075	4.075	0	%100
98	MP2B	Z	2.353	2.353	0	%100
99	MP3B	X	3.754	3.754	0	%100
100	MP3B	Z	2.167	2.167	0	%100
101	MP4B	X	3.754	3.754	0	%100
102	MP4B	Z	2.167	2.167	0	%100
103	M98	X	2.871	2.871	0	%100
104	M98	Z	1.658	1.658	0	%100
105	M99	X	1.019	1.019	0	%100
106	M99	Z	.588	.588	0	%100
107	M106	X	1.019	1.019	0	%100
108	M106	Z	.588	.588	0	%100
109	M111	X	4.075	4.075	0	%100
110	M111	Z	2.353	2.353	0	%100
111	M123	X	3.719	3.719	0	%100
112	M123	Z	2.147	2.147	0	%100
113	M123A	X	4.748	4.748	0	%100
114	M123A	Z	2.741	2.741	0	%100
115	M124A	X	4.748	4.748	0	%100
116	M124A	Z	2.741	2.741	0	%100
117	M125	X	3.23	3.23	0	%100
118	M125	Z	1.865	1.865	0	%100
119	M124	X	.93	.93	0	%100
120	M124	Z	.537	.537	0	%100
121	M125A	X	.93	.93	0	%100
122	M125A	Z	.537	.537	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	M13	X	2.573	2.573	0	%100
2	M13	Z	4.457	4.457	0	%100
3	M20	X	1.938	1.938	0	%100
4	M20	Z	3.357	3.357	0	%100
5	MP1A	X	2.167	2.167	0	%100
6	MP1A	Z	3.754	3.754	0	%100
7	M41A	X	0	0	0	%100
8	M41A	Z	0	0	0	%100
9	M42_1	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
10	M42_1	Z	0	0	0	%100
11	M43A_1	X	0	0	0	%100
12	M43A_1	Z	0	0	0	%100
13	M46A	X	1.639	1.639	0	%100
14	M46A	Z	2.839	2.839	0	%100
15	M47	X	1.639	1.639	0	%100
16	M47	Z	2.839	2.839	0	%100
17	M64	X	2.987	2.987	0	%100
18	M64	Z	5.173	5.173	0	%100
19	M65	X	2.261	2.261	0	%100
20	M65	Z	3.916	3.916	0	%100
21	M71	X	2.322	2.322	0	%100
22	M71	Z	4.022	4.022	0	%100
23	M86	X	2.987	2.987	0	%100
24	M86	Z	5.173	5.173	0	%100
25	M87	X	2.261	2.261	0	%100
26	M87	Z	3.916	3.916	0	%100
27	M90	X	2.322	2.322	0	%100
28	M90	Z	4.022	4.022	0	%100
29	M50A	X	.643	.643	0	%100
30	M50A	Z	1.114	1.114	0	%100
31	M51A	X	1.504	1.504	0	%100
32	M51A	Z	2.606	2.606	0	%100
33	M52	X	1.504	1.504	0	%100
34	M52	Z	2.606	2.606	0	%100
35	M53A	X	2.253	2.253	0	%100
36	M53A	Z	3.902	3.902	0	%100
37	M56	X	1.68	1.68	0	%100
38	M56	Z	2.91	2.91	0	%100
39	M57	X	.000253	.000253	0	%100
40	M57	Z	.000439	.000439	0	%100
41	M62	X	.747	.747	0	%100
42	M62	Z	1.293	1.293	0	%100
43	M63	X	0	0	0	%100
44	M63	Z	0	0	0	%100
45	M65A	X	0	0	0	%100
46	M65A	Z	0	0	0	%100
47	M67	X	.747	.747	0	%100
48	M67	Z	1.293	1.293	0	%100
49	M68A	X	2.261	2.261	0	%100
50	M68A	Z	3.916	3.916	0	%100
51	M70	X	2.322	2.322	0	%100
52	M70	Z	4.022	4.022	0	%100
53	M72A	X	.643	.643	0	%100
54	M72A	Z	1.114	1.114	0	%100
55	M73	X	1.504	1.504	0	%100
56	M73	Z	2.606	2.606	0	%100
57	M74	X	1.504	1.504	0	%100
58	M74	Z	2.606	2.606	0	%100
59	M75	X	2.253	2.253	0	%100
60	M75	Z	3.902	3.902	0	%100
61	M78	X	.000253	.000253	0	%100
62	M78	Z	.000439	.000439	0	%100
63	M79	X	1.68	1.68	0	%100
64	M79	Z	2.91	2.91	0	%100
65	M84	X	.747	.747	0	%100
66	M84	Z	1.293	1.293	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,%]
67	M85	X	2.261	2.261	0	%100
68	M85	Z	3.916	3.916	0	%100
69	M87A	X	2.322	2.322	0	%100
70	M87A	Z	4.022	4.022	0	%100
71	M89A	X	.747	.747	0	%100
72	M89A	Z	1.293	1.293	0	%100
73	M90A	X	0	0	0	%100
74	M90A	Z	0	0	0	%100
75	M92	X	0	0	0	%100
76	M92	Z	0	0	0	%100
77	MP2A	X	2.353	2.353	0	%100
78	MP2A	Z	4.075	4.075	0	%100
79	MP3A	X	2.167	2.167	0	%100
80	MP3A	Z	3.754	3.754	0	%100
81	MP4A	X	2.167	2.167	0	%100
82	MP4A	Z	3.754	3.754	0	%100
83	M79A	X	0	0	0	%100
84	M79A	Z	0	0	0	%100
85	MP1C	X	2.167	2.167	0	%100
86	MP1C	Z	3.754	3.754	0	%100
87	MP2C	X	2.353	2.353	0	%100
88	MP2C	Z	4.075	4.075	0	%100
89	MP3C	X	2.167	2.167	0	%100
90	MP3C	Z	3.754	3.754	0	%100
91	MP4C	X	2.167	2.167	0	%100
92	MP4C	Z	3.754	3.754	0	%100
93	M88A	X	1.938	1.938	0	%100
94	M88A	Z	3.357	3.357	0	%100
95	MP1B	X	2.167	2.167	0	%100
96	MP1B	Z	3.754	3.754	0	%100
97	MP2B	X	2.353	2.353	0	%100
98	MP2B	Z	4.075	4.075	0	%100
99	MP3B	X	2.167	2.167	0	%100
100	MP3B	Z	3.754	3.754	0	%100
101	MP4B	X	2.167	2.167	0	%100
102	MP4B	Z	3.754	3.754	0	%100
103	M98	X	1.658	1.658	0	%100
104	M98	Z	2.871	2.871	0	%100
105	M99	X	1.764	1.764	0	%100
106	M99	Z	3.056	3.056	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	0	0	0	%100
109	M111	X	1.764	1.764	0	%100
110	M111	Z	3.056	3.056	0	%100
111	M123	X	1.611	1.611	0	%100
112	M123	Z	2.79	2.79	0	%100
113	M123A	X	2.157	2.157	0	%100
114	M123A	Z	3.736	3.736	0	%100
115	M124A	X	3.033	3.033	0	%100
116	M124A	Z	5.254	5.254	0	%100
117	M125	X	2.157	2.157	0	%100
118	M125	Z	3.736	3.736	0	%100
119	M124	X	1.611	1.611	0	%100
120	M124	Z	2.79	2.79	0	%100
121	M125A	X	0	0	0	%100
122	M125A	Z	0	0	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	M13	X	0	0	0	%100
2	M13	Z	3.86	3.86	0	%100
3	M20	X	0	0	0	%100
4	M20	Z	5.168	5.168	0	%100
5	MP1A	X	0	0	0	%100
6	MP1A	Z	4.335	4.335	0	%100
7	M41A	X	0	0	0	%100
8	M41A	Z	1.003	1.003	0	%100
9	M42_1	X	0	0	0	%100
10	M42_1	Z	1.003	1.003	0	%100
11	M43A_1	X	0	0	0	%100
12	M43A_1	Z	1.502	1.502	0	%100
13	M46A	X	0	0	0	%100
14	M46A	Z	1.066	1.066	0	%100
15	M47	X	0	0	0	%100
16	M47	Z	4.425	4.425	0	%100
17	M64	X	0	0	0	%100
18	M64	Z	4.48	4.48	0	%100
19	M65	X	0	0	0	%100
20	M65	Z	6.028	6.028	0	%100
21	M71	X	0	0	0	%100
22	M71	Z	6.193	6.193	0	%100
23	M86	X	0	0	0	%100
24	M86	Z	4.48	4.48	0	%100
25	M87	X	0	0	0	%100
26	M87	Z	1.507	1.507	0	%100
27	M90	X	0	0	0	%100
28	M90	Z	1.548	1.548	0	%100
29	M50A	X	0	0	0	%100
30	M50A	Z	3.86	3.86	0	%100
31	M51A	X	0	0	0	%100
32	M51A	Z	1.003	1.003	0	%100
33	M52	X	0	0	0	%100
34	M52	Z	1.003	1.003	0	%100
35	M53A	X	0	0	0	%100
36	M53A	Z	1.502	1.502	0	%100
37	M56	X	0	0	0	%100
38	M56	Z	4.425	4.425	0	%100
39	M57	X	0	0	0	%100
40	M57	Z	1.066	1.066	0	%100
41	M62	X	0	0	0	%100
42	M62	Z	4.48	4.48	0	%100
43	M63	X	0	0	0	%100
44	M63	Z	1.507	1.507	0	%100
45	M65A	X	0	0	0	%100
46	M65A	Z	1.548	1.548	0	%100
47	M67	X	0	0	0	%100
48	M67	Z	4.48	4.48	0	%100
49	M68A	X	0	0	0	%100
50	M68A	Z	6.028	6.028	0	%100
51	M70	X	0	0	0	%100
52	M70	Z	6.193	6.193	0	%100
53	M72A	X	0	0	0	%100
54	M72A	Z	0	0	0	%100
55	M73	X	0	0	0	%100
56	M73	Z	4.012	4.012	0	%100
57	M74	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	M74	Z	4.012	4.012	0	%100
59	M75	X	0	0	0	%100
60	M75	Z	6.007	6.007	0	%100
61	M78	X	0	0	0	%100
62	M78	Z	1.148	1.148	0	%100
63	M79	X	0	0	0	%100
64	M79	Z	1.148	1.148	0	%100
65	M84	X	0	0	0	%100
66	M84	Z	0	0	0	%100
67	M85	X	0	0	0	%100
68	M85	Z	1.507	1.507	0	%100
69	M87A	X	0	0	0	%100
70	M87A	Z	1.548	1.548	0	%100
71	M89A	X	0	0	0	%100
72	M89A	Z	0	0	0	%100
73	M90A	X	0	0	0	%100
74	M90A	Z	1.507	1.507	0	%100
75	M92	X	0	0	0	%100
76	M92	Z	1.548	1.548	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	4.705	4.705	0	%100
79	MP3A	X	0	0	0	%100
80	MP3A	Z	4.335	4.335	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	4.335	4.335	0	%100
83	M79A	X	0	0	0	%100
84	M79A	Z	1.292	1.292	0	%100
85	MP1C	X	0	0	0	%100
86	MP1C	Z	4.335	4.335	0	%100
87	MP2C	X	0	0	0	%100
88	MP2C	Z	4.705	4.705	0	%100
89	MP3C	X	0	0	0	%100
90	MP3C	Z	4.335	4.335	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	4.335	4.335	0	%100
93	M88A	X	0	0	0	%100
94	M88A	Z	1.292	1.292	0	%100
95	MP1B	X	0	0	0	%100
96	MP1B	Z	4.335	4.335	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	4.705	4.705	0	%100
99	MP3B	X	0	0	0	%100
100	MP3B	Z	4.335	4.335	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	4.335	4.335	0	%100
103	M98	X	0	0	0	%100
104	M98	Z	3.315	3.315	0	%100
105	M99	X	0	0	0	%100
106	M99	Z	4.705	4.705	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	1.176	1.176	0	%100
109	M111	X	0	0	0	%100
110	M111	Z	1.176	1.176	0	%100
111	M123	X	0	0	0	%100
112	M123	Z	1.074	1.074	0	%100
113	M123A	X	0	0	0	%100
114	M123A	Z	3.729	3.729	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,%]
115	M124A	X	0	0	0	%100
116	M124A	Z	5.482	5.482	0	%100
117	M125	X	0	0	0	%100
118	M125	Z	5.482	5.482	0	%100
119	M124	X	0	0	0	%100
120	M124	Z	4.295	4.295	0	%100
121	M125A	X	0	0	0	%100
122	M125A	Z	1.074	1.074	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	M13	X	-.643	-.643	0	%100
2	M13	Z	1.114	1.114	0	%100
3	M20	X	-1.938	-1.938	0	%100
4	M20	Z	3.357	3.357	0	%100
5	MP1A	X	-2.167	-2.167	0	%100
6	MP1A	Z	3.754	3.754	0	%100
7	M41A	X	-1.504	-1.504	0	%100
8	M41A	Z	2.606	2.606	0	%100
9	M42_1	X	-1.504	-1.504	0	%100
10	M42_1	Z	2.606	2.606	0	%100
11	M43A_1	X	-2.253	-2.253	0	%100
12	M43A_1	Z	3.902	3.902	0	%100
13	M46A	X	-.000253	-.000253	0	%100
14	M46A	Z	.000439	.000439	0	%100
15	M47	X	-1.68	-1.68	0	%100
16	M47	Z	2.91	2.91	0	%100
17	M64	X	-.747	-.747	0	%100
18	M64	Z	1.293	1.293	0	%100
19	M65	X	-2.261	-2.261	0	%100
20	M65	Z	3.916	3.916	0	%100
21	M71	X	-2.322	-2.322	0	%100
22	M71	Z	4.022	4.022	0	%100
23	M86	X	-.747	-.747	0	%100
24	M86	Z	1.293	1.293	0	%100
25	M87	X	0	0	0	%100
26	M87	Z	0	0	0	%100
27	M90	X	0	0	0	%100
28	M90	Z	0	0	0	%100
29	M50A	X	-2.573	-2.573	0	%100
30	M50A	Z	4.457	4.457	0	%100
31	M51A	X	0	0	0	%100
32	M51A	Z	0	0	0	%100
33	M52	X	0	0	0	%100
34	M52	Z	0	0	0	%100
35	M53A	X	0	0	0	%100
36	M53A	Z	0	0	0	%100
37	M56	X	-1.639	-1.639	0	%100
38	M56	Z	2.839	2.839	0	%100
39	M57	X	-1.639	-1.639	0	%100
40	M57	Z	2.839	2.839	0	%100
41	M62	X	-2.987	-2.987	0	%100
42	M62	Z	5.173	5.173	0	%100
43	M63	X	-2.261	-2.261	0	%100
44	M63	Z	3.916	3.916	0	%100
45	M65A	X	-2.322	-2.322	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,%]
46	M65A	Z	4.022	4.022	0	%100
47	M67	X	-2.987	-2.987	0	%100
48	M67	Z	5.173	5.173	0	%100
49	M68A	X	-2.261	-2.261	0	%100
50	M68A	Z	3.916	3.916	0	%100
51	M70	X	-2.322	-2.322	0	%100
52	M70	Z	4.022	4.022	0	%100
53	M72A	X	-.643	-.643	0	%100
54	M72A	Z	1.114	1.114	0	%100
55	M73	X	-1.504	-1.504	0	%100
56	M73	Z	2.606	2.606	0	%100
57	M74	X	-1.504	-1.504	0	%100
58	M74	Z	2.606	2.606	0	%100
59	M75	X	-2.253	-2.253	0	%100
60	M75	Z	3.902	3.902	0	%100
61	M78	X	-1.68	-1.68	0	%100
62	M78	Z	2.91	2.91	0	%100
63	M79	X	-.000253	-.000253	0	%100
64	M79	Z	.000439	.000439	0	%100
65	M84	X	-.747	-.747	0	%100
66	M84	Z	1.293	1.293	0	%100
67	M85	X	0	0	0	%100
68	M85	Z	0	0	0	%100
69	M87A	X	0	0	0	%100
70	M87A	Z	0	0	0	%100
71	M89A	X	-.747	-.747	0	%100
72	M89A	Z	1.293	1.293	0	%100
73	M90A	X	-2.261	-2.261	0	%100
74	M90A	Z	3.916	3.916	0	%100
75	M92	X	-2.322	-2.322	0	%100
76	M92	Z	4.022	4.022	0	%100
77	MP2A	X	-2.353	-2.353	0	%100
78	MP2A	Z	4.075	4.075	0	%100
79	MP3A	X	-2.167	-2.167	0	%100
80	MP3A	Z	3.754	3.754	0	%100
81	MP4A	X	-2.167	-2.167	0	%100
82	MP4A	Z	3.754	3.754	0	%100
83	M79A	X	-1.938	-1.938	0	%100
84	M79A	Z	3.357	3.357	0	%100
85	MP1C	X	-2.167	-2.167	0	%100
86	MP1C	Z	3.754	3.754	0	%100
87	MP2C	X	-2.353	-2.353	0	%100
88	MP2C	Z	4.075	4.075	0	%100
89	MP3C	X	-2.167	-2.167	0	%100
90	MP3C	Z	3.754	3.754	0	%100
91	MP4C	X	-2.167	-2.167	0	%100
92	MP4C	Z	3.754	3.754	0	%100
93	M88A	X	0	0	0	%100
94	M88A	Z	0	0	0	%100
95	MP1B	X	-2.167	-2.167	0	%100
96	MP1B	Z	3.754	3.754	0	%100
97	MP2B	X	-2.353	-2.353	0	%100
98	MP2B	Z	4.075	4.075	0	%100
99	MP3B	X	-2.167	-2.167	0	%100
100	MP3B	Z	3.754	3.754	0	%100
101	MP4B	X	-2.167	-2.167	0	%100
102	MP4B	Z	3.754	3.754	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,%]
103	M98	X	-1.658	-1.658	0	%100
104	M98	Z	2.871	2.871	0	%100
105	M99	X	-1.764	-1.764	0	%100
106	M99	Z	3.056	3.056	0	%100
107	M106	X	-1.764	-1.764	0	%100
108	M106	Z	3.056	3.056	0	%100
109	M111	X	0	0	0	%100
110	M111	Z	0	0	0	%100
111	M123	X	0	0	0	%100
112	M123	Z	0	0	0	%100
113	M123A	X	-2.157	-2.157	0	%100
114	M123A	Z	3.736	3.736	0	%100
115	M124A	X	-2.157	-2.157	0	%100
116	M124A	Z	3.736	3.736	0	%100
117	M125	X	-3.033	-3.033	0	%100
118	M125	Z	5.254	5.254	0	%100
119	M124	X	-1.611	-1.611	0	%100
120	M124	Z	2.79	2.79	0	%100
121	M125A	X	-1.611	-1.611	0	%100
122	M125A	Z	2.79	2.79	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	M13	X	0	0	0	%100
2	M13	Z	0	0	0	%100
3	M20	X	-1.119	-1.119	0	%100
4	M20	Z	.646	.646	0	%100
5	MP1A	X	-3.754	-3.754	0	%100
6	MP1A	Z	2.167	2.167	0	%100
7	M41A	X	-3.474	-3.474	0	%100
8	M41A	Z	2.006	2.006	0	%100
9	M42_1	X	-3.474	-3.474	0	%100
10	M42_1	Z	2.006	2.006	0	%100
11	M43A_1	X	-5.202	-5.202	0	%100
12	M43A_1	Z	3.003	3.003	0	%100
13	M46A	X	-.994	-.994	0	%100
14	M46A	Z	.574	.574	0	%100
15	M47	X	-.994	-.994	0	%100
16	M47	Z	.574	.574	0	%100
17	M64	X	0	0	0	%100
18	M64	Z	0	0	0	%100
19	M65	X	-1.305	-1.305	0	%100
20	M65	Z	.754	.754	0	%100
21	M71	X	-1.341	-1.341	0	%100
22	M71	Z	.774	.774	0	%100
23	M86	X	0	0	0	%100
24	M86	Z	0	0	0	%100
25	M87	X	-1.305	-1.305	0	%100
26	M87	Z	.754	.754	0	%100
27	M90	X	-1.341	-1.341	0	%100
28	M90	Z	.774	.774	0	%100
29	M50A	X	-3.343	-3.343	0	%100
30	M50A	Z	1.93	1.93	0	%100
31	M51A	X	-.869	-.869	0	%100
32	M51A	Z	.501	.501	0	%100
33	M52	X	-.869	-.869	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,%]
34	M52	Z	.501	.501	0	%100
35	M53A	X	-1.301	-1.301	0	%100
36	M53A	Z	.751	.751	0	%100
37	M56	X	-.923	-.923	0	%100
38	M56	Z	.533	.533	0	%100
39	M57	X	-3.832	-3.832	0	%100
40	M57	Z	2.213	2.213	0	%100
41	M62	X	-3.88	-3.88	0	%100
42	M62	Z	2.24	2.24	0	%100
43	M63	X	-5.221	-5.221	0	%100
44	M63	Z	3.014	3.014	0	%100
45	M65A	X	-5.363	-5.363	0	%100
46	M65A	Z	3.096	3.096	0	%100
47	M67	X	-3.88	-3.88	0	%100
48	M67	Z	2.24	2.24	0	%100
49	M68A	X	-1.305	-1.305	0	%100
50	M68A	Z	.754	.754	0	%100
51	M70	X	-1.341	-1.341	0	%100
52	M70	Z	.774	.774	0	%100
53	M72A	X	-3.343	-3.343	0	%100
54	M72A	Z	1.93	1.93	0	%100
55	M73	X	-.869	-.869	0	%100
56	M73	Z	.501	.501	0	%100
57	M74	X	-.869	-.869	0	%100
58	M74	Z	.501	.501	0	%100
59	M75	X	-1.301	-1.301	0	%100
60	M75	Z	.751	.751	0	%100
61	M78	X	-3.832	-3.832	0	%100
62	M78	Z	2.212	2.212	0	%100
63	M79	X	-.923	-.923	0	%100
64	M79	Z	.533	.533	0	%100
65	M84	X	-3.88	-3.88	0	%100
66	M84	Z	2.24	2.24	0	%100
67	M85	X	-1.305	-1.305	0	%100
68	M85	Z	.754	.754	0	%100
69	M87A	X	-1.341	-1.341	0	%100
70	M87A	Z	.774	.774	0	%100
71	M89A	X	-3.88	-3.88	0	%100
72	M89A	Z	2.24	2.24	0	%100
73	M90A	X	-5.221	-5.221	0	%100
74	M90A	Z	3.014	3.014	0	%100
75	M92	X	-5.363	-5.363	0	%100
76	M92	Z	3.096	3.096	0	%100
77	MP2A	X	-4.075	-4.075	0	%100
78	MP2A	Z	2.353	2.353	0	%100
79	MP3A	X	-3.754	-3.754	0	%100
80	MP3A	Z	2.167	2.167	0	%100
81	MP4A	X	-3.754	-3.754	0	%100
82	MP4A	Z	2.167	2.167	0	%100
83	M79A	X	-4.476	-4.476	0	%100
84	M79A	Z	2.584	2.584	0	%100
85	MP1C	X	-3.754	-3.754	0	%100
86	MP1C	Z	2.167	2.167	0	%100
87	MP2C	X	-4.075	-4.075	0	%100
88	MP2C	Z	2.353	2.353	0	%100
89	MP3C	X	-3.754	-3.754	0	%100
90	MP3C	Z	2.167	2.167	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,%]
91	MP4C	X	-3.754	-3.754	0	%100
92	MP4C	Z	2.167	2.167	0	%100
93	M88A	X	-1.119	-1.119	0	%100
94	M88A	Z	.646	.646	0	%100
95	MP1B	X	-3.754	-3.754	0	%100
96	MP1B	Z	2.167	2.167	0	%100
97	MP2B	X	-4.075	-4.075	0	%100
98	MP2B	Z	2.353	2.353	0	%100
99	MP3B	X	-3.754	-3.754	0	%100
100	MP3B	Z	2.167	2.167	0	%100
101	MP4B	X	-3.754	-3.754	0	%100
102	MP4B	Z	2.167	2.167	0	%100
103	M98	X	-2.871	-2.871	0	%100
104	M98	Z	1.658	1.658	0	%100
105	M99	X	-1.019	-1.019	0	%100
106	M99	Z	.588	.588	0	%100
107	M106	X	-4.075	-4.075	0	%100
108	M106	Z	2.353	2.353	0	%100
109	M111	X	-1.019	-1.019	0	%100
110	M111	Z	.588	.588	0	%100
111	M123	X	-.93	-.93	0	%100
112	M123	Z	.537	.537	0	%100
113	M123A	X	-4.748	-4.748	0	%100
114	M123A	Z	2.741	2.741	0	%100
115	M124A	X	-3.23	-3.23	0	%100
116	M124A	Z	1.865	1.865	0	%100
117	M125	X	-4.748	-4.748	0	%100
118	M125	Z	2.741	2.741	0	%100
119	M124	X	-.93	-.93	0	%100
120	M124	Z	.537	.537	0	%100
121	M125A	X	-3.719	-3.719	0	%100
122	M125A	Z	2.147	2.147	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	M13	X	-1.287	-1.287	0	%100
2	M13	Z	0	0	0	%100
3	M20	X	0	0	0	%100
4	M20	Z	0	0	0	%100
5	MP1A	X	-4.335	-4.335	0	%100
6	MP1A	Z	0	0	0	%100
7	M41A	X	-3.009	-3.009	0	%100
8	M41A	Z	0	0	0	%100
9	M42_1	X	-3.009	-3.009	0	%100
10	M42_1	Z	0	0	0	%100
11	M43A_1	X	-4.505	-4.505	0	%100
12	M43A_1	Z	0	0	0	%100
13	M46A	X	-3.36	-3.36	0	%100
14	M46A	Z	0	0	0	%100
15	M47	X	-.000507	-.000507	0	%100
16	M47	Z	0	0	0	%100
17	M64	X	-1.493	-1.493	0	%100
18	M64	Z	0	0	0	%100
19	M65	X	0	0	0	%100
20	M65	Z	0	0	0	%100
21	M71	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	M71	Z	0	0	0	%100
23	M86	X	-1.493	-1.493	0	%100
24	M86	Z	0	0	0	%100
25	M87	X	-4.521	-4.521	0	%100
26	M87	Z	0	0	0	%100
27	M90	X	-4.645	-4.645	0	%100
28	M90	Z	0	0	0	%100
29	M50A	X	-1.287	-1.287	0	%100
30	M50A	Z	0	0	0	%100
31	M51A	X	-3.009	-3.009	0	%100
32	M51A	Z	0	0	0	%100
33	M52	X	-3.009	-3.009	0	%100
34	M52	Z	0	0	0	%100
35	M53A	X	-4.505	-4.505	0	%100
36	M53A	Z	0	0	0	%100
37	M56	X	-.000507	-.000507	0	%100
38	M56	Z	0	0	0	%100
39	M57	X	-3.36	-3.36	0	%100
40	M57	Z	0	0	0	%100
41	M62	X	-1.493	-1.493	0	%100
42	M62	Z	0	0	0	%100
43	M63	X	-4.521	-4.521	0	%100
44	M63	Z	0	0	0	%100
45	M65A	X	-4.645	-4.645	0	%100
46	M65A	Z	0	0	0	%100
47	M67	X	-1.493	-1.493	0	%100
48	M67	Z	0	0	0	%100
49	M68A	X	0	0	0	%100
50	M68A	Z	0	0	0	%100
51	M70	X	0	0	0	%100
52	M70	Z	0	0	0	%100
53	M72A	X	-5.146	-5.146	0	%100
54	M72A	Z	0	0	0	%100
55	M73	X	0	0	0	%100
56	M73	Z	0	0	0	%100
57	M74	X	0	0	0	%100
58	M74	Z	0	0	0	%100
59	M75	X	0	0	0	%100
60	M75	Z	0	0	0	%100
61	M78	X	-3.278	-3.278	0	%100
62	M78	Z	0	0	0	%100
63	M79	X	-3.278	-3.278	0	%100
64	M79	Z	0	0	0	%100
65	M84	X	-5.974	-5.974	0	%100
66	M84	Z	0	0	0	%100
67	M85	X	-4.521	-4.521	0	%100
68	M85	Z	0	0	0	%100
69	M87A	X	-4.645	-4.645	0	%100
70	M87A	Z	0	0	0	%100
71	M89A	X	-5.974	-5.974	0	%100
72	M89A	Z	0	0	0	%100
73	M90A	X	-4.521	-4.521	0	%100
74	M90A	Z	0	0	0	%100
75	M92	X	-4.645	-4.645	0	%100
76	M92	Z	0	0	0	%100
77	MP2A	X	-4.705	-4.705	0	%100
78	MP2A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
79	MP3A	X	-4.335	-4.335	0	%100
80	MP3A	Z	0	0	0	%100
81	MP4A	X	-4.335	-4.335	0	%100
82	MP4A	Z	0	0	0	%100
83	M79A	X	-3.876	-3.876	0	%100
84	M79A	Z	0	0	0	%100
85	MP1C	X	-4.335	-4.335	0	%100
86	MP1C	Z	0	0	0	%100
87	MP2C	X	-4.705	-4.705	0	%100
88	MP2C	Z	0	0	0	%100
89	MP3C	X	-4.335	-4.335	0	%100
90	MP3C	Z	0	0	0	%100
91	MP4C	X	-4.335	-4.335	0	%100
92	MP4C	Z	0	0	0	%100
93	M88A	X	-3.876	-3.876	0	%100
94	M88A	Z	0	0	0	%100
95	MP1B	X	-4.335	-4.335	0	%100
96	MP1B	Z	0	0	0	%100
97	MP2B	X	-4.705	-4.705	0	%100
98	MP2B	Z	0	0	0	%100
99	MP3B	X	-4.335	-4.335	0	%100
100	MP3B	Z	0	0	0	%100
101	MP4B	X	-4.335	-4.335	0	%100
102	MP4B	Z	0	0	0	%100
103	M98	X	-3.315	-3.315	0	%100
104	M98	Z	0	0	0	%100
105	M99	X	0	0	0	%100
106	M99	Z	0	0	0	%100
107	M106	X	-3.529	-3.529	0	%100
108	M106	Z	0	0	0	%100
109	M111	X	-3.529	-3.529	0	%100
110	M111	Z	0	0	0	%100
111	M123	X	-3.221	-3.221	0	%100
112	M123	Z	0	0	0	%100
113	M123A	X	-6.067	-6.067	0	%100
114	M123A	Z	0	0	0	%100
115	M124A	X	-4.314	-4.314	0	%100
116	M124A	Z	0	0	0	%100
117	M125	X	-4.314	-4.314	0	%100
118	M125	Z	0	0	0	%100
119	M124	X	0	0	0	%100
120	M124	Z	0	0	0	%100
121	M125A	X	-3.221	-3.221	0	%100
122	M125A	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	M13	X	-3.343	-3.343	0	%100
2	M13	Z	-1.93	-1.93	0	%100
3	M20	X	-1.119	-1.119	0	%100
4	M20	Z	-.646	-.646	0	%100
5	MP1A	X	-3.754	-3.754	0	%100
6	MP1A	Z	-2.167	-2.167	0	%100
7	M41A	X	-.869	-.869	0	%100
8	M41A	Z	-.501	-.501	0	%100
9	M42_1	X	-.869	-.869	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,%]
10	M42_1	Z	-.501	-.501	0	%100
11	M43A_1	X	-1.301	-1.301	0	%100
12	M43A_1	Z	-.751	-.751	0	%100
13	M46A	X	-3.832	-3.832	0	%100
14	M46A	Z	-2.212	-2.212	0	%100
15	M47	X	-.923	-.923	0	%100
16	M47	Z	-.533	-.533	0	%100
17	M64	X	-3.88	-3.88	0	%100
18	M64	Z	-2.24	-2.24	0	%100
19	M65	X	-1.305	-1.305	0	%100
20	M65	Z	-.754	-.754	0	%100
21	M71	X	-1.341	-1.341	0	%100
22	M71	Z	-.774	-.774	0	%100
23	M86	X	-3.88	-3.88	0	%100
24	M86	Z	-2.24	-2.24	0	%100
25	M87	X	-5.221	-5.221	0	%100
26	M87	Z	-3.014	-3.014	0	%100
27	M90	X	-5.363	-5.363	0	%100
28	M90	Z	-3.096	-3.096	0	%100
29	M50A	X	0	0	0	%100
30	M50A	Z	0	0	0	%100
31	M51A	X	-3.474	-3.474	0	%100
32	M51A	Z	-2.006	-2.006	0	%100
33	M52	X	-3.474	-3.474	0	%100
34	M52	Z	-2.006	-2.006	0	%100
35	M53A	X	-5.202	-5.202	0	%100
36	M53A	Z	-3.003	-3.003	0	%100
37	M56	X	-.994	-.994	0	%100
38	M56	Z	-.574	-.574	0	%100
39	M57	X	-.994	-.994	0	%100
40	M57	Z	-.574	-.574	0	%100
41	M62	X	0	0	0	%100
42	M62	Z	0	0	0	%100
43	M63	X	-1.305	-1.305	0	%100
44	M63	Z	-.754	-.754	0	%100
45	M65A	X	-1.341	-1.341	0	%100
46	M65A	Z	-.774	-.774	0	%100
47	M67	X	0	0	0	%100
48	M67	Z	0	0	0	%100
49	M68A	X	-1.305	-1.305	0	%100
50	M68A	Z	-.754	-.754	0	%100
51	M70	X	-1.341	-1.341	0	%100
52	M70	Z	-.774	-.774	0	%100
53	M72A	X	-3.343	-3.343	0	%100
54	M72A	Z	-1.93	-1.93	0	%100
55	M73	X	-.869	-.869	0	%100
56	M73	Z	-.501	-.501	0	%100
57	M74	X	-.869	-.869	0	%100
58	M74	Z	-.501	-.501	0	%100
59	M75	X	-1.301	-1.301	0	%100
60	M75	Z	-.751	-.751	0	%100
61	M78	X	-.923	-.923	0	%100
62	M78	Z	-.533	-.533	0	%100
63	M79	X	-3.832	-3.832	0	%100
64	M79	Z	-2.213	-2.213	0	%100
65	M84	X	-3.88	-3.88	0	%100
66	M84	Z	-2.24	-2.24	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,%]
67	M85	X	-5.221	-5.221	0	%100
68	M85	Z	-3.014	-3.014	0	%100
69	M87A	X	-5.363	-5.363	0	%100
70	M87A	Z	-3.096	-3.096	0	%100
71	M89A	X	-3.88	-3.88	0	%100
72	M89A	Z	-2.24	-2.24	0	%100
73	M90A	X	-1.305	-1.305	0	%100
74	M90A	Z	-.754	-.754	0	%100
75	M92	X	-1.341	-1.341	0	%100
76	M92	Z	-.774	-.774	0	%100
77	MP2A	X	-4.075	-4.075	0	%100
78	MP2A	Z	-2.353	-2.353	0	%100
79	MP3A	X	-3.754	-3.754	0	%100
80	MP3A	Z	-2.167	-2.167	0	%100
81	MP4A	X	-3.754	-3.754	0	%100
82	MP4A	Z	-2.167	-2.167	0	%100
83	M79A	X	-1.119	-1.119	0	%100
84	M79A	Z	-.646	-.646	0	%100
85	MP1C	X	-3.754	-3.754	0	%100
86	MP1C	Z	-2.167	-2.167	0	%100
87	MP2C	X	-4.075	-4.075	0	%100
88	MP2C	Z	-2.353	-2.353	0	%100
89	MP3C	X	-3.754	-3.754	0	%100
90	MP3C	Z	-2.167	-2.167	0	%100
91	MP4C	X	-3.754	-3.754	0	%100
92	MP4C	Z	-2.167	-2.167	0	%100
93	M88A	X	-4.476	-4.476	0	%100
94	M88A	Z	-2.584	-2.584	0	%100
95	MP1B	X	-3.754	-3.754	0	%100
96	MP1B	Z	-2.167	-2.167	0	%100
97	MP2B	X	-4.075	-4.075	0	%100
98	MP2B	Z	-2.353	-2.353	0	%100
99	MP3B	X	-3.754	-3.754	0	%100
100	MP3B	Z	-2.167	-2.167	0	%100
101	MP4B	X	-3.754	-3.754	0	%100
102	MP4B	Z	-2.167	-2.167	0	%100
103	M98	X	-2.871	-2.871	0	%100
104	M98	Z	-1.658	-1.658	0	%100
105	M99	X	-1.019	-1.019	0	%100
106	M99	Z	-.588	-.588	0	%100
107	M106	X	-1.019	-1.019	0	%100
108	M106	Z	-.588	-.588	0	%100
109	M111	X	-4.075	-4.075	0	%100
110	M111	Z	-2.353	-2.353	0	%100
111	M123	X	-3.719	-3.719	0	%100
112	M123	Z	-2.147	-2.147	0	%100
113	M123A	X	-4.748	-4.748	0	%100
114	M123A	Z	-2.741	-2.741	0	%100
115	M124A	X	-4.748	-4.748	0	%100
116	M124A	Z	-2.741	-2.741	0	%100
117	M125	X	-3.23	-3.23	0	%100
118	M125	Z	-1.865	-1.865	0	%100
119	M124	X	-.93	-.93	0	%100
120	M124	Z	-.537	-.537	0	%100
121	M125A	X	-.93	-.93	0	%100
122	M125A	Z	-.537	-.537	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	M13	X	-2.573	-2.573	0	%100
2	M13	Z	-4.457	-4.457	0	%100
3	M20	X	-1.938	-1.938	0	%100
4	M20	Z	-3.357	-3.357	0	%100
5	MP1A	X	-2.167	-2.167	0	%100
6	MP1A	Z	-3.754	-3.754	0	%100
7	M41A	X	0	0	0	%100
8	M41A	Z	0	0	0	%100
9	M42_1	X	0	0	0	%100
10	M42_1	Z	0	0	0	%100
11	M43A_1	X	0	0	0	%100
12	M43A_1	Z	0	0	0	%100
13	M46A	X	-1.639	-1.639	0	%100
14	M46A	Z	-2.839	-2.839	0	%100
15	M47	X	-1.639	-1.639	0	%100
16	M47	Z	-2.839	-2.839	0	%100
17	M64	X	-2.987	-2.987	0	%100
18	M64	Z	-5.173	-5.173	0	%100
19	M65	X	-2.261	-2.261	0	%100
20	M65	Z	-3.916	-3.916	0	%100
21	M71	X	-2.322	-2.322	0	%100
22	M71	Z	-4.022	-4.022	0	%100
23	M86	X	-2.987	-2.987	0	%100
24	M86	Z	-5.173	-5.173	0	%100
25	M87	X	-2.261	-2.261	0	%100
26	M87	Z	-3.916	-3.916	0	%100
27	M90	X	-2.322	-2.322	0	%100
28	M90	Z	-4.022	-4.022	0	%100
29	M50A	X	-.643	-.643	0	%100
30	M50A	Z	-1.114	-1.114	0	%100
31	M51A	X	-1.504	-1.504	0	%100
32	M51A	Z	-2.606	-2.606	0	%100
33	M52	X	-1.504	-1.504	0	%100
34	M52	Z	-2.606	-2.606	0	%100
35	M53A	X	-2.253	-2.253	0	%100
36	M53A	Z	-3.902	-3.902	0	%100
37	M56	X	-1.68	-1.68	0	%100
38	M56	Z	-2.91	-2.91	0	%100
39	M57	X	-.000253	-.000253	0	%100
40	M57	Z	-.000439	-.000439	0	%100
41	M62	X	-.747	-.747	0	%100
42	M62	Z	-1.293	-1.293	0	%100
43	M63	X	0	0	0	%100
44	M63	Z	0	0	0	%100
45	M65A	X	0	0	0	%100
46	M65A	Z	0	0	0	%100
47	M67	X	-.747	-.747	0	%100
48	M67	Z	-1.293	-1.293	0	%100
49	M68A	X	-2.261	-2.261	0	%100
50	M68A	Z	-3.916	-3.916	0	%100
51	M70	X	-2.322	-2.322	0	%100
52	M70	Z	-4.022	-4.022	0	%100
53	M72A	X	-.643	-.643	0	%100
54	M72A	Z	-1.114	-1.114	0	%100
55	M73	X	-1.504	-1.504	0	%100
56	M73	Z	-2.606	-2.606	0	%100
57	M74	X	-1.504	-1.504	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	M74	Z	-2.606	-2.606	0	%100
59	M75	X	-2.253	-2.253	0	%100
60	M75	Z	-3.902	-3.902	0	%100
61	M78	X	-.000253	-.000253	0	%100
62	M78	Z	-.000439	-.000439	0	%100
63	M79	X	-1.68	-1.68	0	%100
64	M79	Z	-2.91	-2.91	0	%100
65	M84	X	-.747	-.747	0	%100
66	M84	Z	-1.293	-1.293	0	%100
67	M85	X	-2.261	-2.261	0	%100
68	M85	Z	-3.916	-3.916	0	%100
69	M87A	X	-2.322	-2.322	0	%100
70	M87A	Z	-4.022	-4.022	0	%100
71	M89A	X	-.747	-.747	0	%100
72	M89A	Z	-1.293	-1.293	0	%100
73	M90A	X	0	0	0	%100
74	M90A	Z	0	0	0	%100
75	M92	X	0	0	0	%100
76	M92	Z	0	0	0	%100
77	MP2A	X	-2.353	-2.353	0	%100
78	MP2A	Z	-4.075	-4.075	0	%100
79	MP3A	X	-2.167	-2.167	0	%100
80	MP3A	Z	-3.754	-3.754	0	%100
81	MP4A	X	-2.167	-2.167	0	%100
82	MP4A	Z	-3.754	-3.754	0	%100
83	M79A	X	0	0	0	%100
84	M79A	Z	0	0	0	%100
85	MP1C	X	-2.167	-2.167	0	%100
86	MP1C	Z	-3.754	-3.754	0	%100
87	MP2C	X	-2.353	-2.353	0	%100
88	MP2C	Z	-4.075	-4.075	0	%100
89	MP3C	X	-2.167	-2.167	0	%100
90	MP3C	Z	-3.754	-3.754	0	%100
91	MP4C	X	-2.167	-2.167	0	%100
92	MP4C	Z	-3.754	-3.754	0	%100
93	M88A	X	-1.938	-1.938	0	%100
94	M88A	Z	-3.357	-3.357	0	%100
95	MP1B	X	-2.167	-2.167	0	%100
96	MP1B	Z	-3.754	-3.754	0	%100
97	MP2B	X	-2.353	-2.353	0	%100
98	MP2B	Z	-4.075	-4.075	0	%100
99	MP3B	X	-2.167	-2.167	0	%100
100	MP3B	Z	-3.754	-3.754	0	%100
101	MP4B	X	-2.167	-2.167	0	%100
102	MP4B	Z	-3.754	-3.754	0	%100
103	M98	X	-1.658	-1.658	0	%100
104	M98	Z	-2.871	-2.871	0	%100
105	M99	X	-1.764	-1.764	0	%100
106	M99	Z	-3.056	-3.056	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	0	0	0	%100
109	M111	X	-1.764	-1.764	0	%100
110	M111	Z	-3.056	-3.056	0	%100
111	M123	X	-1.611	-1.611	0	%100
112	M123	Z	-2.79	-2.79	0	%100
113	M123A	X	-2.157	-2.157	0	%100
114	M123A	Z	-3.736	-3.736	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,%]
115	M124A	X	-3.033	-3.033	0	%100
116	M124A	Z	-5.254	-5.254	0	%100
117	M125	X	-2.157	-2.157	0	%100
118	M125	Z	-3.736	-3.736	0	%100
119	M124	X	-1.611	-1.611	0	%100
120	M124	Z	-2.79	-2.79	0	%100
121	M125A	X	0	0	0	%100
122	M125A	Z	0	0	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	M13	X	0	0	0	%100
2	M13	Z	-.746	-.746	0	%100
3	M20	X	0	0	0	%100
4	M20	Z	-.933	-.933	0	%100
5	MP1A	X	0	0	0	%100
6	MP1A	Z	-.633	-.633	0	%100
7	M41A	X	0	0	0	%100
8	M41A	Z	-.201	-.201	0	%100
9	M42_1	X	0	0	0	%100
10	M42_1	Z	-.201	-.201	0	%100
11	M43A_1	X	0	0	0	%100
12	M43A_1	Z	-.4	-.4	0	%100
13	M46A	X	0	0	0	%100
14	M46A	Z	-.208	-.208	0	%100
15	M47	X	0	0	0	%100
16	M47	Z	-.864	-.864	0	%100
17	M64	X	0	0	0	%100
18	M64	Z	-1.207	-1.207	0	%100
19	M65	X	0	0	0	%100
20	M65	Z	-1.629	-1.629	0	%100
21	M71	X	0	0	0	%100
22	M71	Z	-1.688	-1.688	0	%100
23	M86	X	0	0	0	%100
24	M86	Z	-1.207	-1.207	0	%100
25	M87	X	0	0	0	%100
26	M87	Z	-.407	-.407	0	%100
27	M90	X	0	0	0	%100
28	M90	Z	-.422	-.422	0	%100
29	M50A	X	0	0	0	%100
30	M50A	Z	-.746	-.746	0	%100
31	M51A	X	0	0	0	%100
32	M51A	Z	-.201	-.201	0	%100
33	M52	X	0	0	0	%100
34	M52	Z	-.201	-.201	0	%100
35	M53A	X	0	0	0	%100
36	M53A	Z	-.4	-.4	0	%100
37	M56	X	0	0	0	%100
38	M56	Z	-.864	-.864	0	%100
39	M57	X	0	0	0	%100
40	M57	Z	-.208	-.208	0	%100
41	M62	X	0	0	0	%100
42	M62	Z	-1.207	-1.207	0	%100
43	M63	X	0	0	0	%100
44	M63	Z	-.407	-.407	0	%100
45	M65A	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,%]
46	M65A	Z	-.422	-.422	0	%100
47	M67	X	0	0	0	%100
48	M67	Z	-1.207	-1.207	0	%100
49	M68A	X	0	0	0	%100
50	M68A	Z	-1.629	-1.629	0	%100
51	M70	X	0	0	0	%100
52	M70	Z	-1.688	-1.688	0	%100
53	M72A	X	0	0	0	%100
54	M72A	Z	0	0	0	%100
55	M73	X	0	0	0	%100
56	M73	Z	-.804	-.804	0	%100
57	M74	X	0	0	0	%100
58	M74	Z	-.804	-.804	0	%100
59	M75	X	0	0	0	%100
60	M75	Z	-1.6	-1.6	0	%100
61	M78	X	0	0	0	%100
62	M78	Z	-.224	-.224	0	%100
63	M79	X	0	0	0	%100
64	M79	Z	-.224	-.224	0	%100
65	M84	X	0	0	0	%100
66	M84	Z	0	0	0	%100
67	M85	X	0	0	0	%100
68	M85	Z	-.407	-.407	0	%100
69	M87A	X	0	0	0	%100
70	M87A	Z	-.422	-.422	0	%100
71	M89A	X	0	0	0	%100
72	M89A	Z	0	0	0	%100
73	M90A	X	0	0	0	%100
74	M90A	Z	-.407	-.407	0	%100
75	M92	X	0	0	0	%100
76	M92	Z	-.422	-.422	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	-.766	-.766	0	%100
79	MP3A	X	0	0	0	%100
80	MP3A	Z	-.633	-.633	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	-.633	-.633	0	%100
83	M79A	X	0	0	0	%100
84	M79A	Z	-.233	-.233	0	%100
85	MP1C	X	0	0	0	%100
86	MP1C	Z	-.633	-.633	0	%100
87	MP2C	X	0	0	0	%100
88	MP2C	Z	-.766	-.766	0	%100
89	MP3C	X	0	0	0	%100
90	MP3C	Z	-.633	-.633	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	-.633	-.633	0	%100
93	M88A	X	0	0	0	%100
94	M88A	Z	-.233	-.233	0	%100
95	MP1B	X	0	0	0	%100
96	MP1B	Z	-.633	-.633	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	-.766	-.766	0	%100
99	MP3B	X	0	0	0	%100
100	MP3B	Z	-.633	-.633	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	-.633	-.633	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,%]
103	M98	X	0	0	0	%100
104	M98	Z	-.518	-.518	0	%100
105	M99	X	0	0	0	%100
106	M99	Z	-.766	-.766	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	-.192	-.192	0	%100
109	M111	X	0	0	0	%100
110	M111	Z	-.192	-.192	0	%100
111	M123	X	0	0	0	%100
112	M123	Z	-.235	-.235	0	%100
113	M123A	X	0	0	0	%100
114	M123A	Z	-.976	-.976	0	%100
115	M124A	X	0	0	0	%100
116	M124A	Z	-1.236	-1.236	0	%100
117	M125	X	0	0	0	%100
118	M125	Z	-1.236	-1.236	0	%100
119	M124	X	0	0	0	%100
120	M124	Z	-.94	-.94	0	%100
121	M125A	X	0	0	0	%100
122	M125A	Z	-.235	-.235	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	M13	X	.124	.124	0	%100
2	M13	Z	-.215	-.215	0	%100
3	M20	X	.35	.35	0	%100
4	M20	Z	-.606	-.606	0	%100
5	MP1A	X	.317	.317	0	%100
6	MP1A	Z	-.548	-.548	0	%100
7	M41A	X	.301	.301	0	%100
8	M41A	Z	-.522	-.522	0	%100
9	M42_1	X	.301	.301	0	%100
10	M42_1	Z	-.522	-.522	0	%100
11	M43A_1	X	.6	.6	0	%100
12	M43A_1	Z	-1.039	-1.039	0	%100
13	M46A	X	5e-5	5e-5	0	%100
14	M46A	Z	-8.6e-5	-8.6e-5	0	%100
15	M47	X	.328	.328	0	%100
16	M47	Z	-.568	-.568	0	%100
17	M64	X	.201	.201	0	%100
18	M64	Z	-.348	-.348	0	%100
19	M65	X	.611	.611	0	%100
20	M65	Z	-1.058	-1.058	0	%100
21	M71	X	.633	.633	0	%100
22	M71	Z	-1.097	-1.097	0	%100
23	M86	X	.201	.201	0	%100
24	M86	Z	-.348	-.348	0	%100
25	M87	X	0	0	0	%100
26	M87	Z	0	0	0	%100
27	M90	X	0	0	0	%100
28	M90	Z	0	0	0	%100
29	M50A	X	.497	.497	0	%100
30	M50A	Z	-.861	-.861	0	%100
31	M51A	X	0	0	0	%100
32	M51A	Z	0	0	0	%100
33	M52	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,%]
34	M52	Z	0	0	0	%100
35	M53A	X	0	0	0	%100
36	M53A	Z	0	0	0	%100
37	M56	X	.32	.32	0	%100
38	M56	Z	-.554	-.554	0	%100
39	M57	X	.32	.32	0	%100
40	M57	Z	-.555	-.555	0	%100
41	M62	X	.805	.805	0	%100
42	M62	Z	-1.394	-1.394	0	%100
43	M63	X	.611	.611	0	%100
44	M63	Z	-1.058	-1.058	0	%100
45	M65A	X	.633	.633	0	%100
46	M65A	Z	-1.097	-1.097	0	%100
47	M67	X	.805	.805	0	%100
48	M67	Z	-1.394	-1.394	0	%100
49	M68A	X	.611	.611	0	%100
50	M68A	Z	-1.058	-1.058	0	%100
51	M70	X	.633	.633	0	%100
52	M70	Z	-1.097	-1.097	0	%100
53	M72A	X	.124	.124	0	%100
54	M72A	Z	-.215	-.215	0	%100
55	M73	X	.301	.301	0	%100
56	M73	Z	-.522	-.522	0	%100
57	M74	X	.301	.301	0	%100
58	M74	Z	-.522	-.522	0	%100
59	M75	X	.6	.6	0	%100
60	M75	Z	-1.039	-1.039	0	%100
61	M78	X	.328	.328	0	%100
62	M78	Z	-.568	-.568	0	%100
63	M79	X	4.9e-5	4.9e-5	0	%100
64	M79	Z	-8.6e-5	-8.6e-5	0	%100
65	M84	X	.201	.201	0	%100
66	M84	Z	-.348	-.348	0	%100
67	M85	X	0	0	0	%100
68	M85	Z	0	0	0	%100
69	M87A	X	0	0	0	%100
70	M87A	Z	0	0	0	%100
71	M89A	X	.201	.201	0	%100
72	M89A	Z	-.348	-.348	0	%100
73	M90A	X	.611	.611	0	%100
74	M90A	Z	-1.058	-1.058	0	%100
75	M92	X	.633	.633	0	%100
76	M92	Z	-1.097	-1.097	0	%100
77	MP2A	X	.383	.383	0	%100
78	MP2A	Z	-.664	-.664	0	%100
79	MP3A	X	.317	.317	0	%100
80	MP3A	Z	-.548	-.548	0	%100
81	MP4A	X	.317	.317	0	%100
82	MP4A	Z	-.548	-.548	0	%100
83	M79A	X	.35	.35	0	%100
84	M79A	Z	-.606	-.606	0	%100
85	MP1C	X	.317	.317	0	%100
86	MP1C	Z	-.548	-.548	0	%100
87	MP2C	X	.383	.383	0	%100
88	MP2C	Z	-.664	-.664	0	%100
89	MP3C	X	.317	.317	0	%100
90	MP3C	Z	-.548	-.548	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
91	MP4C	X	.317	.317	0	%100
92	MP4C	Z	-.548	-.548	0	%100
93	M88A	X	0	0	0	%100
94	M88A	Z	0	0	0	%100
95	MP1B	X	.317	.317	0	%100
96	MP1B	Z	-.548	-.548	0	%100
97	MP2B	X	.383	.383	0	%100
98	MP2B	Z	-.664	-.664	0	%100
99	MP3B	X	.317	.317	0	%100
100	MP3B	Z	-.548	-.548	0	%100
101	MP4B	X	.317	.317	0	%100
102	MP4B	Z	-.548	-.548	0	%100
103	M98	X	.259	.259	0	%100
104	M98	Z	-.448	-.448	0	%100
105	M99	X	.287	.287	0	%100
106	M99	Z	-.498	-.498	0	%100
107	M106	X	.287	.287	0	%100
108	M106	Z	-.498	-.498	0	%100
109	M111	X	0	0	0	%100
110	M111	Z	0	0	0	%100
111	M123	X	0	0	0	%100
112	M123	Z	0	0	0	%100
113	M123A	X	.531	.531	0	%100
114	M123A	Z	-.92	-.92	0	%100
115	M124A	X	.531	.531	0	%100
116	M124A	Z	-.92	-.92	0	%100
117	M125	X	.661	.661	0	%100
118	M125	Z	-1.145	-1.145	0	%100
119	M124	X	.352	.352	0	%100
120	M124	Z	-.61	-.61	0	%100
121	M125A	X	.352	.352	0	%100
122	M125A	Z	-.61	-.61	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	M13	X	0	0	0	%100
2	M13	Z	0	0	0	%100
3	M20	X	.202	.202	0	%100
4	M20	Z	-.117	-.117	0	%100
5	MP1A	X	.548	.548	0	%100
6	MP1A	Z	-.317	-.317	0	%100
7	M41A	X	.696	.696	0	%100
8	M41A	Z	-.402	-.402	0	%100
9	M42_1	X	.696	.696	0	%100
10	M42_1	Z	-.402	-.402	0	%100
11	M43A_1	X	1.385	1.385	0	%100
12	M43A_1	Z	-.8	-.8	0	%100
13	M46A	X	.194	.194	0	%100
14	M46A	Z	-.112	-.112	0	%100
15	M47	X	.194	.194	0	%100
16	M47	Z	-.112	-.112	0	%100
17	M64	X	0	0	0	%100
18	M64	Z	0	0	0	%100
19	M65	X	.353	.353	0	%100
20	M65	Z	-.204	-.204	0	%100
21	M71	X	.366	.366	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,%]
22	M71	Z	-.211	-.211	0	%100
23	M86	X	0	0	0	%100
24	M86	Z	0	0	0	%100
25	M87	X	.353	.353	0	%100
26	M87	Z	-.204	-.204	0	%100
27	M90	X	.366	.366	0	%100
28	M90	Z	-.211	-.211	0	%100
29	M50A	X	.646	.646	0	%100
30	M50A	Z	-.373	-.373	0	%100
31	M51A	X	.174	.174	0	%100
32	M51A	Z	-.1	-.1	0	%100
33	M52	X	.174	.174	0	%100
34	M52	Z	-.1	-.1	0	%100
35	M53A	X	.346	.346	0	%100
36	M53A	Z	-.2	-.2	0	%100
37	M56	X	.18	.18	0	%100
38	M56	Z	-.104	-.104	0	%100
39	M57	X	.749	.749	0	%100
40	M57	Z	-.432	-.432	0	%100
41	M62	X	1.045	1.045	0	%100
42	M62	Z	-.604	-.604	0	%100
43	M63	X	1.411	1.411	0	%100
44	M63	Z	-.815	-.815	0	%100
45	M65A	X	1.462	1.462	0	%100
46	M65A	Z	-.844	-.844	0	%100
47	M67	X	1.045	1.045	0	%100
48	M67	Z	-.604	-.604	0	%100
49	M68A	X	.353	.353	0	%100
50	M68A	Z	-.204	-.204	0	%100
51	M70	X	.366	.366	0	%100
52	M70	Z	-.211	-.211	0	%100
53	M72A	X	.646	.646	0	%100
54	M72A	Z	-.373	-.373	0	%100
55	M73	X	.174	.174	0	%100
56	M73	Z	-.1	-.1	0	%100
57	M74	X	.174	.174	0	%100
58	M74	Z	-.1	-.1	0	%100
59	M75	X	.346	.346	0	%100
60	M75	Z	-.2	-.2	0	%100
61	M78	X	.748	.748	0	%100
62	M78	Z	-.432	-.432	0	%100
63	M79	X	.18	.18	0	%100
64	M79	Z	-.104	-.104	0	%100
65	M84	X	1.045	1.045	0	%100
66	M84	Z	-.604	-.604	0	%100
67	M85	X	.353	.353	0	%100
68	M85	Z	-.204	-.204	0	%100
69	M87A	X	.366	.366	0	%100
70	M87A	Z	-.211	-.211	0	%100
71	M89A	X	1.045	1.045	0	%100
72	M89A	Z	-.604	-.604	0	%100
73	M90A	X	1.411	1.411	0	%100
74	M90A	Z	-.815	-.815	0	%100
75	M92	X	1.462	1.462	0	%100
76	M92	Z	-.844	-.844	0	%100
77	MP2A	X	.664	.664	0	%100
78	MP2A	Z	-.383	-.383	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,%]
79	MP3A	X	.548	.548	0	%100
80	MP3A	Z	-.317	-.317	0	%100
81	MP4A	X	.548	.548	0	%100
82	MP4A	Z	-.317	-.317	0	%100
83	M79A	X	.808	.808	0	%100
84	M79A	Z	-.466	-.466	0	%100
85	MP1C	X	.548	.548	0	%100
86	MP1C	Z	-.317	-.317	0	%100
87	MP2C	X	.664	.664	0	%100
88	MP2C	Z	-.383	-.383	0	%100
89	MP3C	X	.548	.548	0	%100
90	MP3C	Z	-.317	-.317	0	%100
91	MP4C	X	.548	.548	0	%100
92	MP4C	Z	-.317	-.317	0	%100
93	M88A	X	.202	.202	0	%100
94	M88A	Z	-.117	-.117	0	%100
95	MP1B	X	.548	.548	0	%100
96	MP1B	Z	-.317	-.317	0	%100
97	MP2B	X	.664	.664	0	%100
98	MP2B	Z	-.383	-.383	0	%100
99	MP3B	X	.548	.548	0	%100
100	MP3B	Z	-.317	-.317	0	%100
101	MP4B	X	.548	.548	0	%100
102	MP4B	Z	-.317	-.317	0	%100
103	M98	X	.448	.448	0	%100
104	M98	Z	-.259	-.259	0	%100
105	M99	X	.166	.166	0	%100
106	M99	Z	-.096	-.096	0	%100
107	M106	X	.664	.664	0	%100
108	M106	Z	-.383	-.383	0	%100
109	M111	X	.166	.166	0	%100
110	M111	Z	-.096	-.096	0	%100
111	M123	X	.203	.203	0	%100
112	M123	Z	-.117	-.117	0	%100
113	M123A	X	1.07	1.07	0	%100
114	M123A	Z	-.618	-.618	0	%100
115	M124A	X	.845	.845	0	%100
116	M124A	Z	-.488	-.488	0	%100
117	M125	X	1.07	1.07	0	%100
118	M125	Z	-.618	-.618	0	%100
119	M124	X	.203	.203	0	%100
120	M124	Z	-.117	-.117	0	%100
121	M125A	X	.814	.814	0	%100
122	M125A	Z	-.47	-.47	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	M13	X	.249	.249	0	%100
2	M13	Z	0	0	0	%100
3	M20	X	0	0	0	%100
4	M20	Z	0	0	0	%100
5	MP1A	X	.633	.633	0	%100
6	MP1A	Z	0	0	0	%100
7	M41A	X	.603	.603	0	%100
8	M41A	Z	0	0	0	%100
9	M42_1	X	.603	.603	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,%]
10	M42_1	Z	0	0	0	%100
11	M43A_1	X	1.2	1.2	0	%100
12	M43A_1	Z	0	0	0	%100
13	M46A	X	.656	.656	0	%100
14	M46A	Z	0	0	0	%100
15	M47	X	9.9e-5	9.9e-5	0	%100
16	M47	Z	0	0	0	%100
17	M64	X	.402	.402	0	%100
18	M64	Z	0	0	0	%100
19	M65	X	0	0	0	%100
20	M65	Z	0	0	0	%100
21	M71	X	0	0	0	%100
22	M71	Z	0	0	0	%100
23	M86	X	.402	.402	0	%100
24	M86	Z	0	0	0	%100
25	M87	X	1.222	1.222	0	%100
26	M87	Z	0	0	0	%100
27	M90	X	1.266	1.266	0	%100
28	M90	Z	0	0	0	%100
29	M50A	X	.249	.249	0	%100
30	M50A	Z	0	0	0	%100
31	M51A	X	.603	.603	0	%100
32	M51A	Z	0	0	0	%100
33	M52	X	.603	.603	0	%100
34	M52	Z	0	0	0	%100
35	M53A	X	1.2	1.2	0	%100
36	M53A	Z	0	0	0	%100
37	M56	X	9.9e-5	9.9e-5	0	%100
38	M56	Z	0	0	0	%100
39	M57	X	.656	.656	0	%100
40	M57	Z	0	0	0	%100
41	M62	X	.402	.402	0	%100
42	M62	Z	0	0	0	%100
43	M63	X	1.222	1.222	0	%100
44	M63	Z	0	0	0	%100
45	M65A	X	1.266	1.266	0	%100
46	M65A	Z	0	0	0	%100
47	M67	X	.402	.402	0	%100
48	M67	Z	0	0	0	%100
49	M68A	X	0	0	0	%100
50	M68A	Z	0	0	0	%100
51	M70	X	0	0	0	%100
52	M70	Z	0	0	0	%100
53	M72A	X	.994	.994	0	%100
54	M72A	Z	0	0	0	%100
55	M73	X	0	0	0	%100
56	M73	Z	0	0	0	%100
57	M74	X	0	0	0	%100
58	M74	Z	0	0	0	%100
59	M75	X	0	0	0	%100
60	M75	Z	0	0	0	%100
61	M78	X	.64	.64	0	%100
62	M78	Z	0	0	0	%100
63	M79	X	.64	.64	0	%100
64	M79	Z	0	0	0	%100
65	M84	X	1.609	1.609	0	%100
66	M84	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
67	M85	X	1.222	1.222	0	%100
68	M85	Z	0	0	0	%100
69	M87A	X	1.266	1.266	0	%100
70	M87A	Z	0	0	0	%100
71	M89A	X	1.609	1.609	0	%100
72	M89A	Z	0	0	0	%100
73	M90A	X	1.222	1.222	0	%100
74	M90A	Z	0	0	0	%100
75	M92	X	1.266	1.266	0	%100
76	M92	Z	0	0	0	%100
77	MP2A	X	.766	.766	0	%100
78	MP2A	Z	0	0	0	%100
79	MP3A	X	.633	.633	0	%100
80	MP3A	Z	0	0	0	%100
81	MP4A	X	.633	.633	0	%100
82	MP4A	Z	0	0	0	%100
83	M79A	X	.699	.699	0	%100
84	M79A	Z	0	0	0	%100
85	MP1C	X	.633	.633	0	%100
86	MP1C	Z	0	0	0	%100
87	MP2C	X	.766	.766	0	%100
88	MP2C	Z	0	0	0	%100
89	MP3C	X	.633	.633	0	%100
90	MP3C	Z	0	0	0	%100
91	MP4C	X	.633	.633	0	%100
92	MP4C	Z	0	0	0	%100
93	M88A	X	.699	.699	0	%100
94	M88A	Z	0	0	0	%100
95	MP1B	X	.633	.633	0	%100
96	MP1B	Z	0	0	0	%100
97	MP2B	X	.766	.766	0	%100
98	MP2B	Z	0	0	0	%100
99	MP3B	X	.633	.633	0	%100
100	MP3B	Z	0	0	0	%100
101	MP4B	X	.633	.633	0	%100
102	MP4B	Z	0	0	0	%100
103	M98	X	.518	.518	0	%100
104	M98	Z	0	0	0	%100
105	M99	X	0	0	0	%100
106	M99	Z	0	0	0	%100
107	M106	X	.575	.575	0	%100
108	M106	Z	0	0	0	%100
109	M111	X	.575	.575	0	%100
110	M111	Z	0	0	0	%100
111	M123	X	.705	.705	0	%100
112	M123	Z	0	0	0	%100
113	M123A	X	1.323	1.323	0	%100
114	M123A	Z	0	0	0	%100
115	M124A	X	1.063	1.063	0	%100
116	M124A	Z	0	0	0	%100
117	M125	X	1.063	1.063	0	%100
118	M125	Z	0	0	0	%100
119	M124	X	0	0	0	%100
120	M124	Z	0	0	0	%100
121	M125A	X	.705	.705	0	%100
122	M125A	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	M13	X	.646	.646	0	%100
2	M13	Z	.373	.373	0	%100
3	M20	X	.202	.202	0	%100
4	M20	Z	.117	.117	0	%100
5	MP1A	X	.548	.548	0	%100
6	MP1A	Z	.317	.317	0	%100
7	M41A	X	.174	.174	0	%100
8	M41A	Z	.1	.1	0	%100
9	M42_1	X	.174	.174	0	%100
10	M42_1	Z	.1	.1	0	%100
11	M43A_1	X	.346	.346	0	%100
12	M43A_1	Z	.2	.2	0	%100
13	M46A	X	.748	.748	0	%100
14	M46A	Z	.432	.432	0	%100
15	M47	X	.18	.18	0	%100
16	M47	Z	.104	.104	0	%100
17	M64	X	1.045	1.045	0	%100
18	M64	Z	.604	.604	0	%100
19	M65	X	.353	.353	0	%100
20	M65	Z	.204	.204	0	%100
21	M71	X	.366	.366	0	%100
22	M71	Z	.211	.211	0	%100
23	M86	X	1.045	1.045	0	%100
24	M86	Z	.604	.604	0	%100
25	M87	X	1.411	1.411	0	%100
26	M87	Z	.815	.815	0	%100
27	M90	X	1.462	1.462	0	%100
28	M90	Z	.844	.844	0	%100
29	M50A	X	0	0	0	%100
30	M50A	Z	0	0	0	%100
31	M51A	X	.696	.696	0	%100
32	M51A	Z	.402	.402	0	%100
33	M52	X	.696	.696	0	%100
34	M52	Z	.402	.402	0	%100
35	M53A	X	1.385	1.385	0	%100
36	M53A	Z	.8	.8	0	%100
37	M56	X	.194	.194	0	%100
38	M56	Z	.112	.112	0	%100
39	M57	X	.194	.194	0	%100
40	M57	Z	.112	.112	0	%100
41	M62	X	0	0	0	%100
42	M62	Z	0	0	0	%100
43	M63	X	.353	.353	0	%100
44	M63	Z	.204	.204	0	%100
45	M65A	X	.366	.366	0	%100
46	M65A	Z	.211	.211	0	%100
47	M67	X	0	0	0	%100
48	M67	Z	0	0	0	%100
49	M68A	X	.353	.353	0	%100
50	M68A	Z	.204	.204	0	%100
51	M70	X	.366	.366	0	%100
52	M70	Z	.211	.211	0	%100
53	M72A	X	.646	.646	0	%100
54	M72A	Z	.373	.373	0	%100
55	M73	X	.174	.174	0	%100
56	M73	Z	.1	.1	0	%100
57	M74	X	.174	.174	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	M74	Z	.1	.1	0	%100
59	M75	X	.346	.346	0	%100
60	M75	Z	.2	.2	0	%100
61	M78	X	.18	.18	0	%100
62	M78	Z	.104	.104	0	%100
63	M79	X	.749	.749	0	%100
64	M79	Z	.432	.432	0	%100
65	M84	X	1.045	1.045	0	%100
66	M84	Z	.604	.604	0	%100
67	M85	X	1.411	1.411	0	%100
68	M85	Z	.815	.815	0	%100
69	M87A	X	1.462	1.462	0	%100
70	M87A	Z	.844	.844	0	%100
71	M89A	X	1.045	1.045	0	%100
72	M89A	Z	.604	.604	0	%100
73	M90A	X	.353	.353	0	%100
74	M90A	Z	.204	.204	0	%100
75	M92	X	.366	.366	0	%100
76	M92	Z	.211	.211	0	%100
77	MP2A	X	.664	.664	0	%100
78	MP2A	Z	.383	.383	0	%100
79	MP3A	X	.548	.548	0	%100
80	MP3A	Z	.317	.317	0	%100
81	MP4A	X	.548	.548	0	%100
82	MP4A	Z	.317	.317	0	%100
83	M79A	X	.202	.202	0	%100
84	M79A	Z	.117	.117	0	%100
85	MP1C	X	.548	.548	0	%100
86	MP1C	Z	.317	.317	0	%100
87	MP2C	X	.664	.664	0	%100
88	MP2C	Z	.383	.383	0	%100
89	MP3C	X	.548	.548	0	%100
90	MP3C	Z	.317	.317	0	%100
91	MP4C	X	.548	.548	0	%100
92	MP4C	Z	.317	.317	0	%100
93	M88A	X	.808	.808	0	%100
94	M88A	Z	.466	.466	0	%100
95	MP1B	X	.548	.548	0	%100
96	MP1B	Z	.317	.317	0	%100
97	MP2B	X	.664	.664	0	%100
98	MP2B	Z	.383	.383	0	%100
99	MP3B	X	.548	.548	0	%100
100	MP3B	Z	.317	.317	0	%100
101	MP4B	X	.548	.548	0	%100
102	MP4B	Z	.317	.317	0	%100
103	M98	X	.448	.448	0	%100
104	M98	Z	.259	.259	0	%100
105	M99	X	.166	.166	0	%100
106	M99	Z	.096	.096	0	%100
107	M106	X	.166	.166	0	%100
108	M106	Z	.096	.096	0	%100
109	M111	X	.664	.664	0	%100
110	M111	Z	.383	.383	0	%100
111	M123	X	.814	.814	0	%100
112	M123	Z	.47	.47	0	%100
113	M123A	X	1.07	1.07	0	%100
114	M123A	Z	.618	.618	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,%]
115	M124A	X	1.07	1.07	0	%100
116	M124A	Z	.618	.618	0	%100
117	M125	X	.845	.845	0	%100
118	M125	Z	.488	.488	0	%100
119	M124	X	.203	.203	0	%100
120	M124	Z	.117	.117	0	%100
121	M125A	X	.203	.203	0	%100
122	M125A	Z	.117	.117	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	M13	X	.497	.497	0	%100
2	M13	Z	.861	.861	0	%100
3	M20	X	.35	.35	0	%100
4	M20	Z	.606	.606	0	%100
5	MP1A	X	.317	.317	0	%100
6	MP1A	Z	.548	.548	0	%100
7	M41A	X	0	0	0	%100
8	M41A	Z	0	0	0	%100
9	M42_1	X	0	0	0	%100
10	M42_1	Z	0	0	0	%100
11	M43A_1	X	0	0	0	%100
12	M43A_1	Z	0	0	0	%100
13	M46A	X	.32	.32	0	%100
14	M46A	Z	.554	.554	0	%100
15	M47	X	.32	.32	0	%100
16	M47	Z	.555	.555	0	%100
17	M64	X	.805	.805	0	%100
18	M64	Z	1.394	1.394	0	%100
19	M65	X	.611	.611	0	%100
20	M65	Z	1.058	1.058	0	%100
21	M71	X	.633	.633	0	%100
22	M71	Z	1.097	1.097	0	%100
23	M86	X	.805	.805	0	%100
24	M86	Z	1.394	1.394	0	%100
25	M87	X	.611	.611	0	%100
26	M87	Z	1.058	1.058	0	%100
27	M90	X	.633	.633	0	%100
28	M90	Z	1.097	1.097	0	%100
29	M50A	X	.124	.124	0	%100
30	M50A	Z	.215	.215	0	%100
31	M51A	X	.301	.301	0	%100
32	M51A	Z	.522	.522	0	%100
33	M52	X	.301	.301	0	%100
34	M52	Z	.522	.522	0	%100
35	M53A	X	.6	.6	0	%100
36	M53A	Z	1.039	1.039	0	%100
37	M56	X	.328	.328	0	%100
38	M56	Z	.568	.568	0	%100
39	M57	X	4.9e-5	4.9e-5	0	%100
40	M57	Z	8.6e-5	8.6e-5	0	%100
41	M62	X	.201	.201	0	%100
42	M62	Z	.348	.348	0	%100
43	M63	X	0	0	0	%100
44	M63	Z	0	0	0	%100
45	M65A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
46	M65A	Z	0	0	0	%100
47	M67	X	.201	.201	0	%100
48	M67	Z	.348	.348	0	%100
49	M68A	X	.611	.611	0	%100
50	M68A	Z	1.058	1.058	0	%100
51	M70	X	.633	.633	0	%100
52	M70	Z	1.097	1.097	0	%100
53	M72A	X	.124	.124	0	%100
54	M72A	Z	.215	.215	0	%100
55	M73	X	.301	.301	0	%100
56	M73	Z	.522	.522	0	%100
57	M74	X	.301	.301	0	%100
58	M74	Z	.522	.522	0	%100
59	M75	X	.6	.6	0	%100
60	M75	Z	1.039	1.039	0	%100
61	M78	X	5e-5	5e-5	0	%100
62	M78	Z	8.6e-5	8.6e-5	0	%100
63	M79	X	.328	.328	0	%100
64	M79	Z	.568	.568	0	%100
65	M84	X	.201	.201	0	%100
66	M84	Z	.348	.348	0	%100
67	M85	X	.611	.611	0	%100
68	M85	Z	1.058	1.058	0	%100
69	M87A	X	.633	.633	0	%100
70	M87A	Z	1.097	1.097	0	%100
71	M89A	X	.201	.201	0	%100
72	M89A	Z	.348	.348	0	%100
73	M90A	X	0	0	0	%100
74	M90A	Z	0	0	0	%100
75	M92	X	0	0	0	%100
76	M92	Z	0	0	0	%100
77	MP2A	X	.383	.383	0	%100
78	MP2A	Z	.664	.664	0	%100
79	MP3A	X	.317	.317	0	%100
80	MP3A	Z	.548	.548	0	%100
81	MP4A	X	.317	.317	0	%100
82	MP4A	Z	.548	.548	0	%100
83	M79A	X	0	0	0	%100
84	M79A	Z	0	0	0	%100
85	MP1C	X	.317	.317	0	%100
86	MP1C	Z	.548	.548	0	%100
87	MP2C	X	.383	.383	0	%100
88	MP2C	Z	.664	.664	0	%100
89	MP3C	X	.317	.317	0	%100
90	MP3C	Z	.548	.548	0	%100
91	MP4C	X	.317	.317	0	%100
92	MP4C	Z	.548	.548	0	%100
93	M88A	X	.35	.35	0	%100
94	M88A	Z	.606	.606	0	%100
95	MP1B	X	.317	.317	0	%100
96	MP1B	Z	.548	.548	0	%100
97	MP2B	X	.383	.383	0	%100
98	MP2B	Z	.664	.664	0	%100
99	MP3B	X	.317	.317	0	%100
100	MP3B	Z	.548	.548	0	%100
101	MP4B	X	.317	.317	0	%100
102	MP4B	Z	.548	.548	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,%]
103	M98	X	.259	.259	0	%100
104	M98	Z	.448	.448	0	%100
105	M99	X	.287	.287	0	%100
106	M99	Z	.498	.498	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	0	0	0	%100
109	M111	X	.287	.287	0	%100
110	M111	Z	.498	.498	0	%100
111	M123	X	.352	.352	0	%100
112	M123	Z	.61	.61	0	%100
113	M123A	X	.531	.531	0	%100
114	M123A	Z	.92	.92	0	%100
115	M124A	X	.661	.661	0	%100
116	M124A	Z	1.145	1.145	0	%100
117	M125	X	.531	.531	0	%100
118	M125	Z	.92	.92	0	%100
119	M124	X	.352	.352	0	%100
120	M124	Z	.61	.61	0	%100
121	M125A	X	0	0	0	%100
122	M125A	Z	0	0	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	M13	X	0	0	0	%100
2	M13	Z	.746	.746	0	%100
3	M20	X	0	0	0	%100
4	M20	Z	.933	.933	0	%100
5	MP1A	X	0	0	0	%100
6	MP1A	Z	.633	.633	0	%100
7	M41A	X	0	0	0	%100
8	M41A	Z	.201	.201	0	%100
9	M42_1	X	0	0	0	%100
10	M42_1	Z	.201	.201	0	%100
11	M43A_1	X	0	0	0	%100
12	M43A_1	Z	.4	.4	0	%100
13	M46A	X	0	0	0	%100
14	M46A	Z	.208	.208	0	%100
15	M47	X	0	0	0	%100
16	M47	Z	.864	.864	0	%100
17	M64	X	0	0	0	%100
18	M64	Z	1.207	1.207	0	%100
19	M65	X	0	0	0	%100
20	M65	Z	1.629	1.629	0	%100
21	M71	X	0	0	0	%100
22	M71	Z	1.688	1.688	0	%100
23	M86	X	0	0	0	%100
24	M86	Z	1.207	1.207	0	%100
25	M87	X	0	0	0	%100
26	M87	Z	.407	.407	0	%100
27	M90	X	0	0	0	%100
28	M90	Z	.422	.422	0	%100
29	M50A	X	0	0	0	%100
30	M50A	Z	.746	.746	0	%100
31	M51A	X	0	0	0	%100
32	M51A	Z	.201	.201	0	%100
33	M52	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,%]
34	M52	Z	.201	.201	0	%100
35	M53A	X	0	0	0	%100
36	M53A	Z	.4	.4	0	%100
37	M56	X	0	0	0	%100
38	M56	Z	.864	.864	0	%100
39	M57	X	0	0	0	%100
40	M57	Z	.208	.208	0	%100
41	M62	X	0	0	0	%100
42	M62	Z	1.207	1.207	0	%100
43	M63	X	0	0	0	%100
44	M63	Z	.407	.407	0	%100
45	M65A	X	0	0	0	%100
46	M65A	Z	.422	.422	0	%100
47	M67	X	0	0	0	%100
48	M67	Z	1.207	1.207	0	%100
49	M68A	X	0	0	0	%100
50	M68A	Z	1.629	1.629	0	%100
51	M70	X	0	0	0	%100
52	M70	Z	1.688	1.688	0	%100
53	M72A	X	0	0	0	%100
54	M72A	Z	0	0	0	%100
55	M73	X	0	0	0	%100
56	M73	Z	.804	.804	0	%100
57	M74	X	0	0	0	%100
58	M74	Z	.804	.804	0	%100
59	M75	X	0	0	0	%100
60	M75	Z	1.6	1.6	0	%100
61	M78	X	0	0	0	%100
62	M78	Z	.224	.224	0	%100
63	M79	X	0	0	0	%100
64	M79	Z	.224	.224	0	%100
65	M84	X	0	0	0	%100
66	M84	Z	0	0	0	%100
67	M85	X	0	0	0	%100
68	M85	Z	.407	.407	0	%100
69	M87A	X	0	0	0	%100
70	M87A	Z	.422	.422	0	%100
71	M89A	X	0	0	0	%100
72	M89A	Z	0	0	0	%100
73	M90A	X	0	0	0	%100
74	M90A	Z	.407	.407	0	%100
75	M92	X	0	0	0	%100
76	M92	Z	.422	.422	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	.766	.766	0	%100
79	MP3A	X	0	0	0	%100
80	MP3A	Z	.633	.633	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	.633	.633	0	%100
83	M79A	X	0	0	0	%100
84	M79A	Z	.233	.233	0	%100
85	MP1C	X	0	0	0	%100
86	MP1C	Z	.633	.633	0	%100
87	MP2C	X	0	0	0	%100
88	MP2C	Z	.766	.766	0	%100
89	MP3C	X	0	0	0	%100
90	MP3C	Z	.633	.633	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,%]
91	MP4C	X	0	0	0	%100
92	MP4C	Z	.633	.633	0	%100
93	M88A	X	0	0	0	%100
94	M88A	Z	.233	.233	0	%100
95	MP1B	X	0	0	0	%100
96	MP1B	Z	.633	.633	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	.766	.766	0	%100
99	MP3B	X	0	0	0	%100
100	MP3B	Z	.633	.633	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	.633	.633	0	%100
103	M98	X	0	0	0	%100
104	M98	Z	.518	.518	0	%100
105	M99	X	0	0	0	%100
106	M99	Z	.766	.766	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	.192	.192	0	%100
109	M111	X	0	0	0	%100
110	M111	Z	.192	.192	0	%100
111	M123	X	0	0	0	%100
112	M123	Z	.235	.235	0	%100
113	M123A	X	0	0	0	%100
114	M123A	Z	.976	.976	0	%100
115	M124A	X	0	0	0	%100
116	M124A	Z	1.236	1.236	0	%100
117	M125	X	0	0	0	%100
118	M125	Z	1.236	1.236	0	%100
119	M124	X	0	0	0	%100
120	M124	Z	.94	.94	0	%100
121	M125A	X	0	0	0	%100
122	M125A	Z	.235	.235	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	M13	X	-.124	-.124	0	%100
2	M13	Z	.215	.215	0	%100
3	M20	X	-.35	-.35	0	%100
4	M20	Z	.606	.606	0	%100
5	MP1A	X	-.317	-.317	0	%100
6	MP1A	Z	.548	.548	0	%100
7	M41A	X	-.301	-.301	0	%100
8	M41A	Z	.522	.522	0	%100
9	M42_1	X	-.301	-.301	0	%100
10	M42_1	Z	.522	.522	0	%100
11	M43A_1	X	-.6	-.6	0	%100
12	M43A_1	Z	1.039	1.039	0	%100
13	M46A	X	-5e-5	-5e-5	0	%100
14	M46A	Z	8.6e-5	8.6e-5	0	%100
15	M47	X	-.328	-.328	0	%100
16	M47	Z	.568	.568	0	%100
17	M64	X	-.201	-.201	0	%100
18	M64	Z	.348	.348	0	%100
19	M65	X	-.611	-.611	0	%100
20	M65	Z	1.058	1.058	0	%100
21	M71	X	-.633	-.633	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,%]
22	M71	Z	1.097	1.097	0	%100
23	M86	X	-.201	-.201	0	%100
24	M86	Z	.348	.348	0	%100
25	M87	X	0	0	0	%100
26	M87	Z	0	0	0	%100
27	M90	X	0	0	0	%100
28	M90	Z	0	0	0	%100
29	M50A	X	-.497	-.497	0	%100
30	M50A	Z	.861	.861	0	%100
31	M51A	X	0	0	0	%100
32	M51A	Z	0	0	0	%100
33	M52	X	0	0	0	%100
34	M52	Z	0	0	0	%100
35	M53A	X	0	0	0	%100
36	M53A	Z	0	0	0	%100
37	M56	X	-.32	-.32	0	%100
38	M56	Z	.554	.554	0	%100
39	M57	X	-.32	-.32	0	%100
40	M57	Z	.555	.555	0	%100
41	M62	X	-.805	-.805	0	%100
42	M62	Z	1.394	1.394	0	%100
43	M63	X	-.611	-.611	0	%100
44	M63	Z	1.058	1.058	0	%100
45	M65A	X	-.633	-.633	0	%100
46	M65A	Z	1.097	1.097	0	%100
47	M67	X	-.805	-.805	0	%100
48	M67	Z	1.394	1.394	0	%100
49	M68A	X	-.611	-.611	0	%100
50	M68A	Z	1.058	1.058	0	%100
51	M70	X	-.633	-.633	0	%100
52	M70	Z	1.097	1.097	0	%100
53	M72A	X	-.124	-.124	0	%100
54	M72A	Z	.215	.215	0	%100
55	M73	X	-.301	-.301	0	%100
56	M73	Z	.522	.522	0	%100
57	M74	X	-.301	-.301	0	%100
58	M74	Z	.522	.522	0	%100
59	M75	X	-.6	-.6	0	%100
60	M75	Z	1.039	1.039	0	%100
61	M78	X	-.328	-.328	0	%100
62	M78	Z	.568	.568	0	%100
63	M79	X	-4.9e-5	-4.9e-5	0	%100
64	M79	Z	8.6e-5	8.6e-5	0	%100
65	M84	X	-.201	-.201	0	%100
66	M84	Z	.348	.348	0	%100
67	M85	X	0	0	0	%100
68	M85	Z	0	0	0	%100
69	M87A	X	0	0	0	%100
70	M87A	Z	0	0	0	%100
71	M89A	X	-.201	-.201	0	%100
72	M89A	Z	.348	.348	0	%100
73	M90A	X	-.611	-.611	0	%100
74	M90A	Z	1.058	1.058	0	%100
75	M92	X	-.633	-.633	0	%100
76	M92	Z	1.097	1.097	0	%100
77	MP2A	X	-.383	-.383	0	%100
78	MP2A	Z	.664	.664	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,%]
79	MP3A	X	-.317	-.317	0	%100
80	MP3A	Z	.548	.548	0	%100
81	MP4A	X	-.317	-.317	0	%100
82	MP4A	Z	.548	.548	0	%100
83	M79A	X	-.35	-.35	0	%100
84	M79A	Z	.606	.606	0	%100
85	MP1C	X	-.317	-.317	0	%100
86	MP1C	Z	.548	.548	0	%100
87	MP2C	X	-.383	-.383	0	%100
88	MP2C	Z	.664	.664	0	%100
89	MP3C	X	-.317	-.317	0	%100
90	MP3C	Z	.548	.548	0	%100
91	MP4C	X	-.317	-.317	0	%100
92	MP4C	Z	.548	.548	0	%100
93	M88A	X	0	0	0	%100
94	M88A	Z	0	0	0	%100
95	MP1B	X	-.317	-.317	0	%100
96	MP1B	Z	.548	.548	0	%100
97	MP2B	X	-.383	-.383	0	%100
98	MP2B	Z	.664	.664	0	%100
99	MP3B	X	-.317	-.317	0	%100
100	MP3B	Z	.548	.548	0	%100
101	MP4B	X	-.317	-.317	0	%100
102	MP4B	Z	.548	.548	0	%100
103	M98	X	-.259	-.259	0	%100
104	M98	Z	.448	.448	0	%100
105	M99	X	-.287	-.287	0	%100
106	M99	Z	.498	.498	0	%100
107	M106	X	-.287	-.287	0	%100
108	M106	Z	.498	.498	0	%100
109	M111	X	0	0	0	%100
110	M111	Z	0	0	0	%100
111	M123	X	0	0	0	%100
112	M123	Z	0	0	0	%100
113	M123A	X	-.531	-.531	0	%100
114	M123A	Z	.92	.92	0	%100
115	M124A	X	-.531	-.531	0	%100
116	M124A	Z	.92	.92	0	%100
117	M125	X	-.661	-.661	0	%100
118	M125	Z	1.145	1.145	0	%100
119	M124	X	-.352	-.352	0	%100
120	M124	Z	.61	.61	0	%100
121	M125A	X	-.352	-.352	0	%100
122	M125A	Z	.61	.61	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	M13	X	0	0	0	%100
2	M13	Z	0	0	0	%100
3	M20	X	-.202	-.202	0	%100
4	M20	Z	.117	.117	0	%100
5	MP1A	X	-.548	-.548	0	%100
6	MP1A	Z	.317	.317	0	%100
7	M41A	X	-.696	-.696	0	%100
8	M41A	Z	.402	.402	0	%100
9	M42_1	X	-.696	-.696	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,%]
10	M42_1	Z	.402	.402	0	%100
11	M43A_1	X	-1.385	-1.385	0	%100
12	M43A_1	Z	.8	.8	0	%100
13	M46A	X	-.194	-.194	0	%100
14	M46A	Z	.112	.112	0	%100
15	M47	X	-.194	-.194	0	%100
16	M47	Z	.112	.112	0	%100
17	M64	X	0	0	0	%100
18	M64	Z	0	0	0	%100
19	M65	X	-.353	-.353	0	%100
20	M65	Z	.204	.204	0	%100
21	M71	X	-.366	-.366	0	%100
22	M71	Z	.211	.211	0	%100
23	M86	X	0	0	0	%100
24	M86	Z	0	0	0	%100
25	M87	X	-.353	-.353	0	%100
26	M87	Z	.204	.204	0	%100
27	M90	X	-.366	-.366	0	%100
28	M90	Z	.211	.211	0	%100
29	M50A	X	-.646	-.646	0	%100
30	M50A	Z	.373	.373	0	%100
31	M51A	X	-.174	-.174	0	%100
32	M51A	Z	.1	.1	0	%100
33	M52	X	-.174	-.174	0	%100
34	M52	Z	.1	.1	0	%100
35	M53A	X	-.346	-.346	0	%100
36	M53A	Z	.2	.2	0	%100
37	M56	X	-.18	-.18	0	%100
38	M56	Z	.104	.104	0	%100
39	M57	X	-.749	-.749	0	%100
40	M57	Z	.432	.432	0	%100
41	M62	X	-1.045	-1.045	0	%100
42	M62	Z	.604	.604	0	%100
43	M63	X	-1.411	-1.411	0	%100
44	M63	Z	.815	.815	0	%100
45	M65A	X	-1.462	-1.462	0	%100
46	M65A	Z	.844	.844	0	%100
47	M67	X	-1.045	-1.045	0	%100
48	M67	Z	.604	.604	0	%100
49	M68A	X	-.353	-.353	0	%100
50	M68A	Z	.204	.204	0	%100
51	M70	X	-.366	-.366	0	%100
52	M70	Z	.211	.211	0	%100
53	M72A	X	-.646	-.646	0	%100
54	M72A	Z	.373	.373	0	%100
55	M73	X	-.174	-.174	0	%100
56	M73	Z	.1	.1	0	%100
57	M74	X	-.174	-.174	0	%100
58	M74	Z	.1	.1	0	%100
59	M75	X	-.346	-.346	0	%100
60	M75	Z	.2	.2	0	%100
61	M78	X	-.748	-.748	0	%100
62	M78	Z	.432	.432	0	%100
63	M79	X	-.18	-.18	0	%100
64	M79	Z	.104	.104	0	%100
65	M84	X	-1.045	-1.045	0	%100
66	M84	Z	.604	.604	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,%]
67	M85	X	-.353	-.353	0	%100
68	M85	Z	.204	.204	0	%100
69	M87A	X	-.366	-.366	0	%100
70	M87A	Z	.211	.211	0	%100
71	M89A	X	-1.045	-1.045	0	%100
72	M89A	Z	.604	.604	0	%100
73	M90A	X	-1.411	-1.411	0	%100
74	M90A	Z	.815	.815	0	%100
75	M92	X	-1.462	-1.462	0	%100
76	M92	Z	.844	.844	0	%100
77	MP2A	X	-.664	-.664	0	%100
78	MP2A	Z	.383	.383	0	%100
79	MP3A	X	-.548	-.548	0	%100
80	MP3A	Z	.317	.317	0	%100
81	MP4A	X	-.548	-.548	0	%100
82	MP4A	Z	.317	.317	0	%100
83	M79A	X	-.808	-.808	0	%100
84	M79A	Z	.466	.466	0	%100
85	MP1C	X	-.548	-.548	0	%100
86	MP1C	Z	.317	.317	0	%100
87	MP2C	X	-.664	-.664	0	%100
88	MP2C	Z	.383	.383	0	%100
89	MP3C	X	-.548	-.548	0	%100
90	MP3C	Z	.317	.317	0	%100
91	MP4C	X	-.548	-.548	0	%100
92	MP4C	Z	.317	.317	0	%100
93	M88A	X	-.202	-.202	0	%100
94	M88A	Z	.117	.117	0	%100
95	MP1B	X	-.548	-.548	0	%100
96	MP1B	Z	.317	.317	0	%100
97	MP2B	X	-.664	-.664	0	%100
98	MP2B	Z	.383	.383	0	%100
99	MP3B	X	-.548	-.548	0	%100
100	MP3B	Z	.317	.317	0	%100
101	MP4B	X	-.548	-.548	0	%100
102	MP4B	Z	.317	.317	0	%100
103	M98	X	-.448	-.448	0	%100
104	M98	Z	.259	.259	0	%100
105	M99	X	-.166	-.166	0	%100
106	M99	Z	.096	.096	0	%100
107	M106	X	-.664	-.664	0	%100
108	M106	Z	.383	.383	0	%100
109	M111	X	-.166	-.166	0	%100
110	M111	Z	.096	.096	0	%100
111	M123	X	-.203	-.203	0	%100
112	M123	Z	.117	.117	0	%100
113	M123A	X	-1.07	-1.07	0	%100
114	M123A	Z	.618	.618	0	%100
115	M124A	X	-.845	-.845	0	%100
116	M124A	Z	.488	.488	0	%100
117	M125	X	-1.07	-1.07	0	%100
118	M125	Z	.618	.618	0	%100
119	M124	X	-.203	-.203	0	%100
120	M124	Z	.117	.117	0	%100
121	M125A	X	-.814	-.814	0	%100
122	M125A	Z	.47	.47	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	M13	X	-.249	-.249	0	%100
2	M13	Z	0	0	0	%100
3	M20	X	0	0	0	%100
4	M20	Z	0	0	0	%100
5	MP1A	X	-.633	-.633	0	%100
6	MP1A	Z	0	0	0	%100
7	M41A	X	-.603	-.603	0	%100
8	M41A	Z	0	0	0	%100
9	M42_1	X	-.603	-.603	0	%100
10	M42_1	Z	0	0	0	%100
11	M43A_1	X	-1.2	-1.2	0	%100
12	M43A_1	Z	0	0	0	%100
13	M46A	X	-.656	-.656	0	%100
14	M46A	Z	0	0	0	%100
15	M47	X	-9.9e-5	-9.9e-5	0	%100
16	M47	Z	0	0	0	%100
17	M64	X	-.402	-.402	0	%100
18	M64	Z	0	0	0	%100
19	M65	X	0	0	0	%100
20	M65	Z	0	0	0	%100
21	M71	X	0	0	0	%100
22	M71	Z	0	0	0	%100
23	M86	X	-.402	-.402	0	%100
24	M86	Z	0	0	0	%100
25	M87	X	-1.222	-1.222	0	%100
26	M87	Z	0	0	0	%100
27	M90	X	-1.266	-1.266	0	%100
28	M90	Z	0	0	0	%100
29	M50A	X	-.249	-.249	0	%100
30	M50A	Z	0	0	0	%100
31	M51A	X	-.603	-.603	0	%100
32	M51A	Z	0	0	0	%100
33	M52	X	-.603	-.603	0	%100
34	M52	Z	0	0	0	%100
35	M53A	X	-1.2	-1.2	0	%100
36	M53A	Z	0	0	0	%100
37	M56	X	-9.9e-5	-9.9e-5	0	%100
38	M56	Z	0	0	0	%100
39	M57	X	-.656	-.656	0	%100
40	M57	Z	0	0	0	%100
41	M62	X	-.402	-.402	0	%100
42	M62	Z	0	0	0	%100
43	M63	X	-1.222	-1.222	0	%100
44	M63	Z	0	0	0	%100
45	M65A	X	-1.266	-1.266	0	%100
46	M65A	Z	0	0	0	%100
47	M67	X	-.402	-.402	0	%100
48	M67	Z	0	0	0	%100
49	M68A	X	0	0	0	%100
50	M68A	Z	0	0	0	%100
51	M70	X	0	0	0	%100
52	M70	Z	0	0	0	%100
53	M72A	X	-.994	-.994	0	%100
54	M72A	Z	0	0	0	%100
55	M73	X	0	0	0	%100
56	M73	Z	0	0	0	%100
57	M74	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M74	Z	0	0	0	%100
59	M75	X	0	0	0	%100
60	M75	Z	0	0	0	%100
61	M78	X	-.64	-.64	0	%100
62	M78	Z	0	0	0	%100
63	M79	X	-.64	-.64	0	%100
64	M79	Z	0	0	0	%100
65	M84	X	-1.609	-1.609	0	%100
66	M84	Z	0	0	0	%100
67	M85	X	-1.222	-1.222	0	%100
68	M85	Z	0	0	0	%100
69	M87A	X	-1.266	-1.266	0	%100
70	M87A	Z	0	0	0	%100
71	M89A	X	-1.609	-1.609	0	%100
72	M89A	Z	0	0	0	%100
73	M90A	X	-1.222	-1.222	0	%100
74	M90A	Z	0	0	0	%100
75	M92	X	-1.266	-1.266	0	%100
76	M92	Z	0	0	0	%100
77	MP2A	X	-.766	-.766	0	%100
78	MP2A	Z	0	0	0	%100
79	MP3A	X	-.633	-.633	0	%100
80	MP3A	Z	0	0	0	%100
81	MP4A	X	-.633	-.633	0	%100
82	MP4A	Z	0	0	0	%100
83	M79A	X	-.699	-.699	0	%100
84	M79A	Z	0	0	0	%100
85	MP1C	X	-.633	-.633	0	%100
86	MP1C	Z	0	0	0	%100
87	MP2C	X	-.766	-.766	0	%100
88	MP2C	Z	0	0	0	%100
89	MP3C	X	-.633	-.633	0	%100
90	MP3C	Z	0	0	0	%100
91	MP4C	X	-.633	-.633	0	%100
92	MP4C	Z	0	0	0	%100
93	M88A	X	-.699	-.699	0	%100
94	M88A	Z	0	0	0	%100
95	MP1B	X	-.633	-.633	0	%100
96	MP1B	Z	0	0	0	%100
97	MP2B	X	-.766	-.766	0	%100
98	MP2B	Z	0	0	0	%100
99	MP3B	X	-.633	-.633	0	%100
100	MP3B	Z	0	0	0	%100
101	MP4B	X	-.633	-.633	0	%100
102	MP4B	Z	0	0	0	%100
103	M98	X	-.518	-.518	0	%100
104	M98	Z	0	0	0	%100
105	M99	X	0	0	0	%100
106	M99	Z	0	0	0	%100
107	M106	X	-.575	-.575	0	%100
108	M106	Z	0	0	0	%100
109	M111	X	-.575	-.575	0	%100
110	M111	Z	0	0	0	%100
111	M123	X	-.705	-.705	0	%100
112	M123	Z	0	0	0	%100
113	M123A	X	-1.323	-1.323	0	%100
114	M123A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
115	M124A	X	-1.063	-1.063	0	%100
116	M124A	Z	0	0	0	%100
117	M125	X	-1.063	-1.063	0	%100
118	M125	Z	0	0	0	%100
119	M124	X	0	0	0	%100
120	M124	Z	0	0	0	%100
121	M125A	X	-.705	-.705	0	%100
122	M125A	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	M13	X	-.646	-.646	0	%100
2	M13	Z	-.373	-.373	0	%100
3	M20	X	-.202	-.202	0	%100
4	M20	Z	-.117	-.117	0	%100
5	MP1A	X	-.548	-.548	0	%100
6	MP1A	Z	-.317	-.317	0	%100
7	M41A	X	-.174	-.174	0	%100
8	M41A	Z	-.1	-.1	0	%100
9	M42_1	X	-.174	-.174	0	%100
10	M42_1	Z	-.1	-.1	0	%100
11	M43A_1	X	-.346	-.346	0	%100
12	M43A_1	Z	-.2	-.2	0	%100
13	M46A	X	-.748	-.748	0	%100
14	M46A	Z	-.432	-.432	0	%100
15	M47	X	-.18	-.18	0	%100
16	M47	Z	-.104	-.104	0	%100
17	M64	X	-1.045	-1.045	0	%100
18	M64	Z	-.604	-.604	0	%100
19	M65	X	-.353	-.353	0	%100
20	M65	Z	-.204	-.204	0	%100
21	M71	X	-.366	-.366	0	%100
22	M71	Z	-.211	-.211	0	%100
23	M86	X	-1.045	-1.045	0	%100
24	M86	Z	-.604	-.604	0	%100
25	M87	X	-1.411	-1.411	0	%100
26	M87	Z	-.815	-.815	0	%100
27	M90	X	-1.462	-1.462	0	%100
28	M90	Z	-.844	-.844	0	%100
29	M50A	X	0	0	0	%100
30	M50A	Z	0	0	0	%100
31	M51A	X	-.696	-.696	0	%100
32	M51A	Z	-.402	-.402	0	%100
33	M52	X	-.696	-.696	0	%100
34	M52	Z	-.402	-.402	0	%100
35	M53A	X	-1.385	-1.385	0	%100
36	M53A	Z	-.8	-.8	0	%100
37	M56	X	-.194	-.194	0	%100
38	M56	Z	-.112	-.112	0	%100
39	M57	X	-.194	-.194	0	%100
40	M57	Z	-.112	-.112	0	%100
41	M62	X	0	0	0	%100
42	M62	Z	0	0	0	%100
43	M63	X	-.353	-.353	0	%100
44	M63	Z	-.204	-.204	0	%100
45	M65A	X	-.366	-.366	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,%]
46	M65A	Z	-.211	-.211	0	%100
47	M67	X	0	0	0	%100
48	M67	Z	0	0	0	%100
49	M68A	X	-.353	-.353	0	%100
50	M68A	Z	-.204	-.204	0	%100
51	M70	X	-.366	-.366	0	%100
52	M70	Z	-.211	-.211	0	%100
53	M72A	X	-.646	-.646	0	%100
54	M72A	Z	-.373	-.373	0	%100
55	M73	X	-.174	-.174	0	%100
56	M73	Z	-.1	-.1	0	%100
57	M74	X	-.174	-.174	0	%100
58	M74	Z	-.1	-.1	0	%100
59	M75	X	-.346	-.346	0	%100
60	M75	Z	-.2	-.2	0	%100
61	M78	X	-.18	-.18	0	%100
62	M78	Z	-.104	-.104	0	%100
63	M79	X	-.749	-.749	0	%100
64	M79	Z	-.432	-.432	0	%100
65	M84	X	-1.045	-1.045	0	%100
66	M84	Z	-.604	-.604	0	%100
67	M85	X	-1.411	-1.411	0	%100
68	M85	Z	-.815	-.815	0	%100
69	M87A	X	-1.462	-1.462	0	%100
70	M87A	Z	-.844	-.844	0	%100
71	M89A	X	-1.045	-1.045	0	%100
72	M89A	Z	-.604	-.604	0	%100
73	M90A	X	-.353	-.353	0	%100
74	M90A	Z	-.204	-.204	0	%100
75	M92	X	-.366	-.366	0	%100
76	M92	Z	-.211	-.211	0	%100
77	MP2A	X	-.664	-.664	0	%100
78	MP2A	Z	-.383	-.383	0	%100
79	MP3A	X	-.548	-.548	0	%100
80	MP3A	Z	-.317	-.317	0	%100
81	MP4A	X	-.548	-.548	0	%100
82	MP4A	Z	-.317	-.317	0	%100
83	M79A	X	-.202	-.202	0	%100
84	M79A	Z	-.117	-.117	0	%100
85	MP1C	X	-.548	-.548	0	%100
86	MP1C	Z	-.317	-.317	0	%100
87	MP2C	X	-.664	-.664	0	%100
88	MP2C	Z	-.383	-.383	0	%100
89	MP3C	X	-.548	-.548	0	%100
90	MP3C	Z	-.317	-.317	0	%100
91	MP4C	X	-.548	-.548	0	%100
92	MP4C	Z	-.317	-.317	0	%100
93	M88A	X	-.808	-.808	0	%100
94	M88A	Z	-.466	-.466	0	%100
95	MP1B	X	-.548	-.548	0	%100
96	MP1B	Z	-.317	-.317	0	%100
97	MP2B	X	-.664	-.664	0	%100
98	MP2B	Z	-.383	-.383	0	%100
99	MP3B	X	-.548	-.548	0	%100
100	MP3B	Z	-.317	-.317	0	%100
101	MP4B	X	-.548	-.548	0	%100
102	MP4B	Z	-.317	-.317	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,%]
103	M98	X	-.448	-.448	0	%100
104	M98	Z	-.259	-.259	0	%100
105	M99	X	-.166	-.166	0	%100
106	M99	Z	-.096	-.096	0	%100
107	M106	X	-.166	-.166	0	%100
108	M106	Z	-.096	-.096	0	%100
109	M111	X	-.664	-.664	0	%100
110	M111	Z	-.383	-.383	0	%100
111	M123	X	-.814	-.814	0	%100
112	M123	Z	-.47	-.47	0	%100
113	M123A	X	-1.07	-1.07	0	%100
114	M123A	Z	-.618	-.618	0	%100
115	M124A	X	-1.07	-1.07	0	%100
116	M124A	Z	-.618	-.618	0	%100
117	M125	X	-.845	-.845	0	%100
118	M125	Z	-.488	-.488	0	%100
119	M124	X	-.203	-.203	0	%100
120	M124	Z	-.117	-.117	0	%100
121	M125A	X	-.203	-.203	0	%100
122	M125A	Z	-.117	-.117	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	M13	X	-.497	-.497	0	%100
2	M13	Z	-.861	-.861	0	%100
3	M20	X	-.35	-.35	0	%100
4	M20	Z	-.606	-.606	0	%100
5	MP1A	X	-.317	-.317	0	%100
6	MP1A	Z	-.548	-.548	0	%100
7	M41A	X	0	0	0	%100
8	M41A	Z	0	0	0	%100
9	M42_1	X	0	0	0	%100
10	M42_1	Z	0	0	0	%100
11	M43A_1	X	0	0	0	%100
12	M43A_1	Z	0	0	0	%100
13	M46A	X	-.32	-.32	0	%100
14	M46A	Z	-.554	-.554	0	%100
15	M47	X	-.32	-.32	0	%100
16	M47	Z	-.555	-.555	0	%100
17	M64	X	-.805	-.805	0	%100
18	M64	Z	-1.394	-1.394	0	%100
19	M65	X	-.611	-.611	0	%100
20	M65	Z	-1.058	-1.058	0	%100
21	M71	X	-.633	-.633	0	%100
22	M71	Z	-1.097	-1.097	0	%100
23	M86	X	-.805	-.805	0	%100
24	M86	Z	-1.394	-1.394	0	%100
25	M87	X	-.611	-.611	0	%100
26	M87	Z	-1.058	-1.058	0	%100
27	M90	X	-.633	-.633	0	%100
28	M90	Z	-1.097	-1.097	0	%100
29	M50A	X	-.124	-.124	0	%100
30	M50A	Z	-.215	-.215	0	%100
31	M51A	X	-.301	-.301	0	%100
32	M51A	Z	-.522	-.522	0	%100
33	M52	X	-.301	-.301	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
34	M52	Z	-.522	-.522	0	%100
35	M53A	X	-.6	-.6	0	%100
36	M53A	Z	-1.039	-1.039	0	%100
37	M56	X	-.328	-.328	0	%100
38	M56	Z	-.568	-.568	0	%100
39	M57	X	-4.9e-5	-4.9e-5	0	%100
40	M57	Z	-8.6e-5	-8.6e-5	0	%100
41	M62	X	-.201	-.201	0	%100
42	M62	Z	-.348	-.348	0	%100
43	M63	X	0	0	0	%100
44	M63	Z	0	0	0	%100
45	M65A	X	0	0	0	%100
46	M65A	Z	0	0	0	%100
47	M67	X	-.201	-.201	0	%100
48	M67	Z	-.348	-.348	0	%100
49	M68A	X	-.611	-.611	0	%100
50	M68A	Z	-1.058	-1.058	0	%100
51	M70	X	-.633	-.633	0	%100
52	M70	Z	-1.097	-1.097	0	%100
53	M72A	X	-.124	-.124	0	%100
54	M72A	Z	-.215	-.215	0	%100
55	M73	X	-.301	-.301	0	%100
56	M73	Z	-.522	-.522	0	%100
57	M74	X	-.301	-.301	0	%100
58	M74	Z	-.522	-.522	0	%100
59	M75	X	-.6	-.6	0	%100
60	M75	Z	-1.039	-1.039	0	%100
61	M78	X	-5e-5	-5e-5	0	%100
62	M78	Z	-8.6e-5	-8.6e-5	0	%100
63	M79	X	-.328	-.328	0	%100
64	M79	Z	-.568	-.568	0	%100
65	M84	X	-.201	-.201	0	%100
66	M84	Z	-.348	-.348	0	%100
67	M85	X	-.611	-.611	0	%100
68	M85	Z	-1.058	-1.058	0	%100
69	M87A	X	-.633	-.633	0	%100
70	M87A	Z	-1.097	-1.097	0	%100
71	M89A	X	-.201	-.201	0	%100
72	M89A	Z	-.348	-.348	0	%100
73	M90A	X	0	0	0	%100
74	M90A	Z	0	0	0	%100
75	M92	X	0	0	0	%100
76	M92	Z	0	0	0	%100
77	MP2A	X	-.383	-.383	0	%100
78	MP2A	Z	-.664	-.664	0	%100
79	MP3A	X	-.317	-.317	0	%100
80	MP3A	Z	-.548	-.548	0	%100
81	MP4A	X	-.317	-.317	0	%100
82	MP4A	Z	-.548	-.548	0	%100
83	M79A	X	0	0	0	%100
84	M79A	Z	0	0	0	%100
85	MP1C	X	-.317	-.317	0	%100
86	MP1C	Z	-.548	-.548	0	%100
87	MP2C	X	-.383	-.383	0	%100
88	MP2C	Z	-.664	-.664	0	%100
89	MP3C	X	-.317	-.317	0	%100
90	MP3C	Z	-.548	-.548	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
91	MP4C	X	-.317	-.317	0	%100
92	MP4C	Z	-.548	-.548	0	%100
93	M88A	X	-.35	-.35	0	%100
94	M88A	Z	-.606	-.606	0	%100
95	MP1B	X	-.317	-.317	0	%100
96	MP1B	Z	-.548	-.548	0	%100
97	MP2B	X	-.383	-.383	0	%100
98	MP2B	Z	-.664	-.664	0	%100
99	MP3B	X	-.317	-.317	0	%100
100	MP3B	Z	-.548	-.548	0	%100
101	MP4B	X	-.317	-.317	0	%100
102	MP4B	Z	-.548	-.548	0	%100
103	M98	X	-.259	-.259	0	%100
104	M98	Z	-.448	-.448	0	%100
105	M99	X	-.287	-.287	0	%100
106	M99	Z	-.498	-.498	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	0	0	0	%100
109	M111	X	-.287	-.287	0	%100
110	M111	Z	-.498	-.498	0	%100
111	M123	X	-.352	-.352	0	%100
112	M123	Z	-.61	-.61	0	%100
113	M123A	X	-.531	-.531	0	%100
114	M123A	Z	-.92	-.92	0	%100
115	M124A	X	-.661	-.661	0	%100
116	M124A	Z	-1.145	-1.145	0	%100
117	M125	X	-.531	-.531	0	%100
118	M125	Z	-.92	-.92	0	%100
119	M124	X	-.352	-.352	0	%100
120	M124	Z	-.61	-.61	0	%100
121	M125A	X	0	0	0	%100
122	M125A	Z	0	0	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	M46A	Y	-2.161	-4.791	0	.779
2	M46A	Y	-4.791	-6.337	.779	1.557
3	M46A	Y	-6.337	-7.88	1.557	2.336
4	M46A	Y	-7.88	-7.502	2.336	3.115
5	M46A	Y	-7.502	-4.124	3.115	3.893
6	M47	Y	-4.096	-7.411	0	.779
7	M47	Y	-7.411	-7.716	.779	1.558
8	M47	Y	-7.716	-5.988	1.558	2.337
9	M47	Y	-5.988	-4.531	2.337	3.116
10	M47	Y	-4.531	-2.366	3.116	3.895
11	M78	Y	-2.161	-4.791	0	.779
12	M78	Y	-4.791	-6.337	.779	1.557
13	M78	Y	-6.337	-7.88	1.557	2.336
14	M78	Y	-7.88	-7.502	2.336	3.115
15	M78	Y	-7.502	-4.124	3.115	3.893
16	M79	Y	-4.096	-7.411	0	.779
17	M79	Y	-7.411	-7.716	.779	1.558
18	M79	Y	-7.716	-5.988	1.558	2.337
19	M79	Y	-5.988	-4.531	2.337	3.116
20	M79	Y	-4.531	-2.366	3.116	3.895
21	M56	Y	-2.163	-4.793	0	.779

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	M56	Y	-4.793	-6.341	.779	1.557
23	M56	Y	-6.341	-7.884	1.557	2.336
24	M56	Y	-7.884	-7.5	2.336	3.115
25	M56	Y	-7.5	-4.115	3.115	3.893
26	M57	Y	-4.095	-7.411	0	.779
27	M57	Y	-7.411	-7.716	.779	1.558
28	M57	Y	-7.716	-5.988	1.558	2.337
29	M57	Y	-5.988	-4.529	2.337	3.116
30	M57	Y	-4.529	-2.362	3.116	3.895

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	M46A	Y	-6.648	-14.74	0	.779
2	M46A	Y	-14.74	-19.499	.779	1.557
3	M46A	Y	-19.499	-24.246	1.557	2.336
4	M46A	Y	-24.246	-23.085	2.336	3.115
5	M46A	Y	-23.085	-12.69	3.115	3.893
6	M47	Y	-12.603	-22.803	0	.779
7	M47	Y	-22.803	-23.741	.779	1.558
8	M47	Y	-23.741	-18.425	1.558	2.337
9	M47	Y	-18.425	-13.941	2.337	3.116
10	M47	Y	-13.941	-7.28	3.116	3.895
11	M78	Y	-6.648	-14.74	0	.779
12	M78	Y	-14.74	-19.499	.779	1.557
13	M78	Y	-19.499	-24.246	1.557	2.336
14	M78	Y	-24.246	-23.085	2.336	3.115
15	M78	Y	-23.085	-12.69	3.115	3.893
16	M79	Y	-12.603	-22.803	0	.779
17	M79	Y	-22.803	-23.741	.779	1.558
18	M79	Y	-23.741	-18.425	1.558	2.337
19	M79	Y	-18.425	-13.941	2.337	3.116
20	M79	Y	-13.941	-7.28	3.116	3.895
21	M56	Y	-6.656	-14.747	0	.779
22	M56	Y	-14.747	-19.512	.779	1.557
23	M56	Y	-19.512	-24.258	1.557	2.336
24	M56	Y	-24.258	-23.076	2.336	3.115
25	M56	Y	-23.076	-12.663	3.115	3.893
26	M57	Y	-12.601	-22.804	0	.779
27	M57	Y	-22.804	-23.742	.779	1.558
28	M57	Y	-23.742	-18.424	1.558	2.337
29	M57	Y	-18.424	-13.936	2.337	3.116
30	M57	Y	-13.936	-7.267	3.116	3.895

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N81A	N87A	N86A	N80A	Y	Two Way	-.005
2	N117	N122	N121	N116A	Y	Two Way	-.005
3	N88B	N93	N94	N89A	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N81A	N87A	N86A	N80A	Y	Two Way	-.016
2	N117	N122	N121	N116A	Y	Two Way	-.016
3	N88B	N93	N94	N89A	Y	Two Way	-.016

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	N21	max	4116.677	9	899.362	16	1739.817	2	.154	9	2.161	12	.039	11
2		min	-2734.985	3	-30.872	10	-2530.351	8	-.78	27	-2.155	6	-.933	17
3	N84B	max	2687.18	11	718.505	24	1505.964	12	.23	8	2.009	8	.948	23
4		min	-4057.421	5	-58.856	6	-2286.761	6	-.825	26	-2.023	2	-.141	5
5	N112A	max	1179.022	10	729.627	20	4637.346	1	1.023	20	2.03	4	.316	11
6		min	-1183.2	4	-57.723	2	-3066.087	7	-.094	2	-2.023	10	-.388	5
7	N202A	max	58.641	10	2870.179	13	228.826	7	0	51	0	4	0	10
8		min	-58.351	4	-207.475	7	-3229.091	13	0	1	0	10	0	4
9	N205	max	210.347	3	2896.592	21	1629.881	21	0	6	0	48	0	48
10		min	-2823.091	21	-219.572	3	-121.435	3	0	48	0	6	0	6
11	N208	max	2800.292	17	2873.927	17	1616.655	17	0	8	0	8	0	8
12		min	-197.587	11	-206.898	11	-114.082	11	0	2	0	2	0	2
13	Totals:	max	5672.146	10	9799.556	20	5722.436	1						
14		min	-5672.141	4	3606.725	2	-5722.444	7						

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

	Member	Shape	Code Check	Loc[...	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc...	phi*Pnt ...	phi*Mn ...	phi*Mn ...	Cb	Eqn
1	M13	HSS4X4X4	.172	0	6	.057	1.014	z	12	119499....	139518	16.181	16.181	1...	H1-1b
2	M20	PIPE_3.0	.207	7.349	4	.109	9.799		7	23365.1...	65205	5.749	5.749	2...	H1-1b
3	MP1A	PIPE_2.0	.360	5	5	.187	1.667		8	14916.0...	32130	1.872	1.872	2...	H1-1b
4	M41A	HSS4X4X4	.150	2.406	22	.037	.251	z	3	136177....	139518	16.181	16.181	1...	H1-1b
5	M42_1	HSS4X4X4	.148	0	20	.043	0	y	16	136177....	139518	16.181	16.181	1...	H1-1b
6	M43A_1	PL1/2x6	.119	.547	9	.102	.547	y	12	62895.0...	97200	1.012	12.15	1...	H1-1b
7	M46A	L2x2x3	.130	0	14	.014	0	y	13	10946.3...	23392.8	.558	1.093	1...	H2-1
8	M47	L2x2x3	.130	3.895	16	.013	3.895	y	17	10940.5...	23392.8	.558	1.092	1...	H2-1
9	M64	PL3/8x6	.471	0	6	.149	0	y	46	71260.7...	72900	.57	9.113	1...	H1-1b
10	M65	PL3/8x6	.219	0	6	.082	0	y	18	71601.7...	72900	.57	9.113	1...	H1-1b
11	M71	PL1/2x6	.047	.125	3	.168	0	y	10	96648.9...	97200	1.012	12.15	1...	H1-1b
12	M86	PL3/8x6	.421	0	12	.225	0	y	16	71260.7...	72900	.57	9.113	2...	H1-1b
13	M87	PL3/8x6	.197	0	12	.079	0	y	20	71601.7...	72900	.57	9.113	1...	H1-1b
14	M90	PL1/2x6	.045	.125	10	.121	0	y	20	96648.9...	97200	1.012	12.15	1...	H1-1b
15	M50A	HSS4X4X4	.161	0	2	.054	0	z	8	119499....	139518	16.181	16.181	1...	H1-1b
16	M51A	HSS4X4X4	.149	2.406	18	.038	.251	z	11	136177....	139518	16.181	16.181	1...	H1-1b
17	M52	HSS4X4X4	.151	0	16	.042	0	y	24	136177....	139518	16.181	16.181	1...	H1-1b
18	M53A	PL1/2x6	.118	.547	5	.104	.547	y	8	62895.0...	97200	1.012	12.15	1...	H1-1b
19	M56	L2x2x3	.137	0	22	.014	0	y	21	10946.3...	23392.8	.558	1.093	1...	H2-1
20	M57	L2x2x3	.132	0	5	.013	3.895	y	13	10940.5...	23392.8	.558	1.093	1...	H2-1
21	M62	PL3/8x6	.460	0	2	.099	0	y	36	71260.7...	72900	.57	9.113	1...	H1-1b
22	M63	PL3/8x6	.214	0	2	.082	0	y	14	71601.7...	72900	.57	9.113	1...	H1-1b
23	M65A	PL1/2x6	.047	.125	11	.167	0	y	6	96648.9...	97200	1.012	12.15	1...	H1-1b
24	M67	PL3/8x6	.423	0	8	.227	0	y	24	71260.7...	72900	.57	9.113	2...	H1-1b
25	M68A	PL3/8x6	.197	0	8	.080	0	y	16	71601.7...	72900	.57	9.113	1...	H1-1b
26	M70	PL1/2x6	.047	.125	6	.130	0	y	50	96648.9...	97200	1.012	12.15	1...	H1-1b
27	M72A	HSS4X4X4	.162	0	10	.055	0	z	4	119499....	139518	16.181	16.181	1...	H1-1b
28	M73	HSS4X4X4	.151	2.406	14	.037	.251	z	7	136177....	139518	16.181	16.181	1...	H1-1b
29	M74	HSS4X4X4	.150	0	24	.043	0	y	20	136177....	139518	16.181	16.181	1...	H1-1b
30	M75	PL1/2x6	.118	.547	1	.105	.547	y	4	62895.0...	97200	1.012	12.15	1...	H1-1b
31	M78	L2x2x3	.134	0	18	.014	0	y	17	10946.3...	23392.8	.558	1.093	1...	H2-1
32	M79	L2x2x3	.129	0	1	.013	3.895	y	21	10940.5...	23392.8	.558	1.093	1...	H2-1
33	M84	PL3/8x6	.469	0	10	.079	0	y	8	71260.7...	72900	.57	9.113	1...	H1-1b
34	M85	PL3/8x6	.217	0	10	.083	0	y	22	71601.7...	72900	.57	9.113	1...	H1-1b
35	M87A	PL1/2x6	.047	.125	7	.167	0	y	2	96648.9...	97200	1.012	12.15	1...	H1-1b
36	M89A	PL3/8x6	.420	0	4	.226	0	y	20	71260.7...	72900	.57	9.113	2...	H1-1b
37	M90A	PL3/8x6	.196	0	4	.081	0	y	24	71601.7...	72900	.57	9.113	1...	H1-1b

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

	Member	Shape	Code Check	Loc[...	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc...	phi*Pnt ...	phi*Mn ...	phi*Mn ...	Cb	Eqn
38	M92	PL1/2x6	.045	.125	2	.119	0	y	12	96648.9...	97200	1.012	12.15	1...	H1-1b
39	MP2A	PIPE_2.5	.428	5	4	.141	5		5	30038.4...	50715	3.596	3.596	2...	H1-1b
40	MP3A	PIPE_2.0	.428	5	10	.179	5		8	14916.0...	32130	1.872	1.872	2...	H1-1b
41	MP4A	PIPE_2.0	.307	5	9	.175	1.667		7	14916.0...	32130	1.872	1.872	1...	H1-1b
42	M79A	PIPE_3.0	.207	6.484	12	.107	4.035		9	23365.1...	65205	5.749	5.749	2...	H1-1b
43	MP1C	PIPE_2.0	.352	5	1	.185	1.667		4	14916.0...	32130	1.872	1.872	1...	H1-1b
44	MP2C	PIPE_2.5	.429	5	12	.141	5		1	30038.4...	50715	3.596	3.596	2...	H1-1b
45	MP3C	PIPE_2.0	.425	5	6	.177	5		4	14916.0...	32130	1.872	1.872	2...	H1-1b
46	MP4C	PIPE_2.0	.305	5	5	.174	1.667		9	14916.0...	32130	1.872	1.872	1...	H1-1b
47	M88A	PIPE_3.0	.206	6.484	8	.107	4.035		5	23365.1...	65205	5.749	5.749	2...	H1-1b
48	MP1B	PIPE_2.0	.361	5	9	.187	1.667		6	14916.0...	32130	1.872	1.872	2...	H1-1b
49	MP2B	PIPE_2.5	.427	5	8	.142	5		9	30038.4...	50715	3.596	3.596	2...	H1-1b
50	MP3B	PIPE_2.0	.435	5	2	.178	5		12	14916.0...	32130	1.872	1.872	2...	H1-1b
51	MP4B	PIPE_2.0	.299	5	1	.174	1.667		11	14916.0...	32130	1.872	1.872	1...	H1-1b
52	M98	PIPE_2.0	.088	2	7	.017	2		7	28843.4...	32130	1.872	1.872	1	H1-1b
53	M99	PIPE_2.5	.246	12.8...	4	.144	1.009		7	11887.5...	50715	3.596	3.596	1...	H1-1b
54	M106	PIPE_2.5	.247	1.009	12	.144	12.825		3	11887.5...	50715	3.596	3.596	1...	H1-1b
55	M111	PIPE_2.5	.246	1.009	8	.143	12.825		11	11887.5...	50715	3.596	3.596	1...	H1-1b
56	M123	L3X3X4	.496	1.826	9	.054	0	y	8	43332.4...	46656	1.688	3.756	2...	H2-1
57	M123A	LL3x3x3x6	.094	6.133	13	.005	0	z	4	46069.7...	70632	6.362	3.751	1	H1-1b*
58	M124A	LL3x3x3x6	.095	6.133	21	.005	6.133	z	12	46069.7...	70632	6.362	3.751	1	H1-1b*
59	M125	LL3x3x3x6	.094	6.133	17	.005	6.133	z	8	46069.7...	70632	6.362	3.751	1	H1-1b*
60	M124	L3X3X4	.503	1.826	11	.053	0	y	4	43332.4...	46656	1.688	3.756	2...	H2-1
61	M125A	L3X3X4	.503	1.826	7	.053	1.18	y	12	43332.4...	46656	1.688	3.756	2...	H2-1

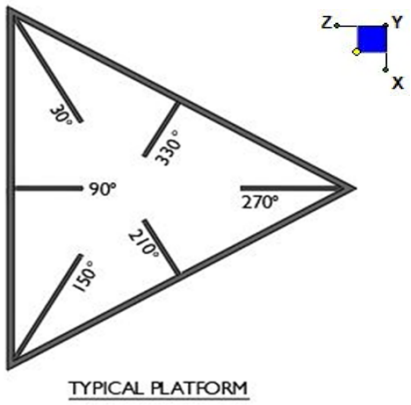
Client:	Verizon Wireless	Date:	7/7/2021
Site Name:	Collinsville_2_CT		
Project No.	20777653A		
Title:	Antenna Mount Fix (Rev 1)	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

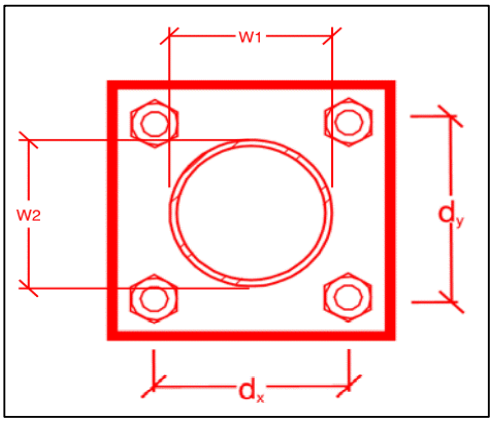
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N112A	270
N84B	150
N21	30



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)* :	7
d_y (in) *(Delta Y of typ. bolt config. sketch)* :	7
Bolt Type:	A325N
Bolt Diameter (in):	0.625
Required Tensile Strength (kips):	8.4
Required Shear Strength (kips):	2.4
Tensile Strength / bolt (kips):	20.7
Shear Strength / bolt (kips):	12.4
Tensile Capacity Overall:	**10.1%***
Shear Capacity Overall:	**4.7%**



**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):	10
Plate Height (in):	10
W1 (in):	4
W2 (in):	4
Fy (ksi, plate):	36
t_{Plate} (in):	0.625
Weld Size (1/16 in):	3
Phi*Rn (kip/in):	4.18
Required Weld Strength (kip/in):	1.31
Plate Bending Capacity:	**24.0%**
Weld Capacity:	**31.3%**

Max Plate Bending Strengths

Mu_{xx} *(kip-in)* :	1.6
Phi*Mn_{xx} *(kip-in)* :	31.6
Mu_{yy} *(kip-in)* :	6.0
Phi*Mn_{yy} *(kip-in)* :	31.6

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

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

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

Base Requirements:

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

Photo Requirements:

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

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

Material Certification:

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

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

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

Certifying Individual: Company _____

Name _____

Signature _____

Antenna & equipment placement and Geometry Confirmation:

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

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

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

Certifying Individual: Company _____

Name _____

Signature _____

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

Issue:

Contractor shall install a 36" long P2.0 STD mount pipe to the Gamma sector standoff arm. Connect the mount pipe to the standoff arm using crossover plate (Part #: Site Pro 1 – SQCX4-K) or EOR approved equivalent. Install proposed OVP onto new mount pipe. Contractor to inspect climbing facilities at site and ensure that the safety climb wire rope does not or will not interfere with the existing or proposed mount connections. Contractor shall install safety climb wire rope guides around mount connections as needed.

Response:

Schedule A – Photo & Document File Structure

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

Sector: **A**

Structure Type: Monopole

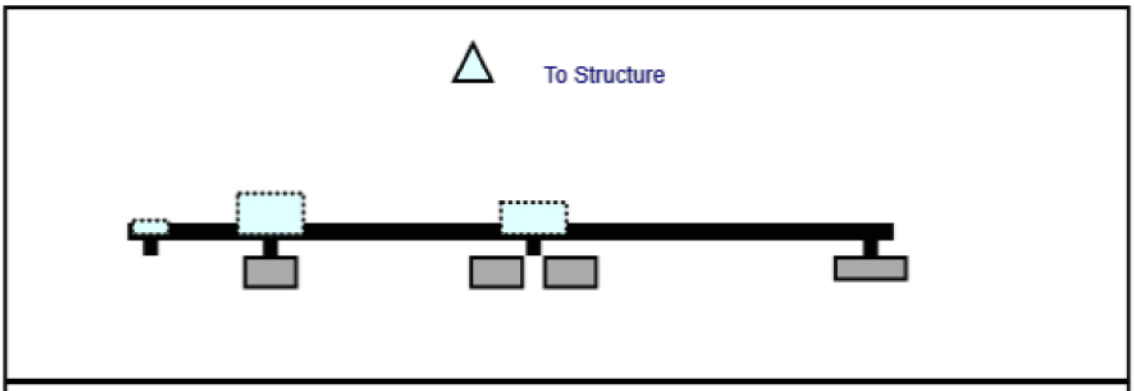
Mount Elev: 145.00

10081382

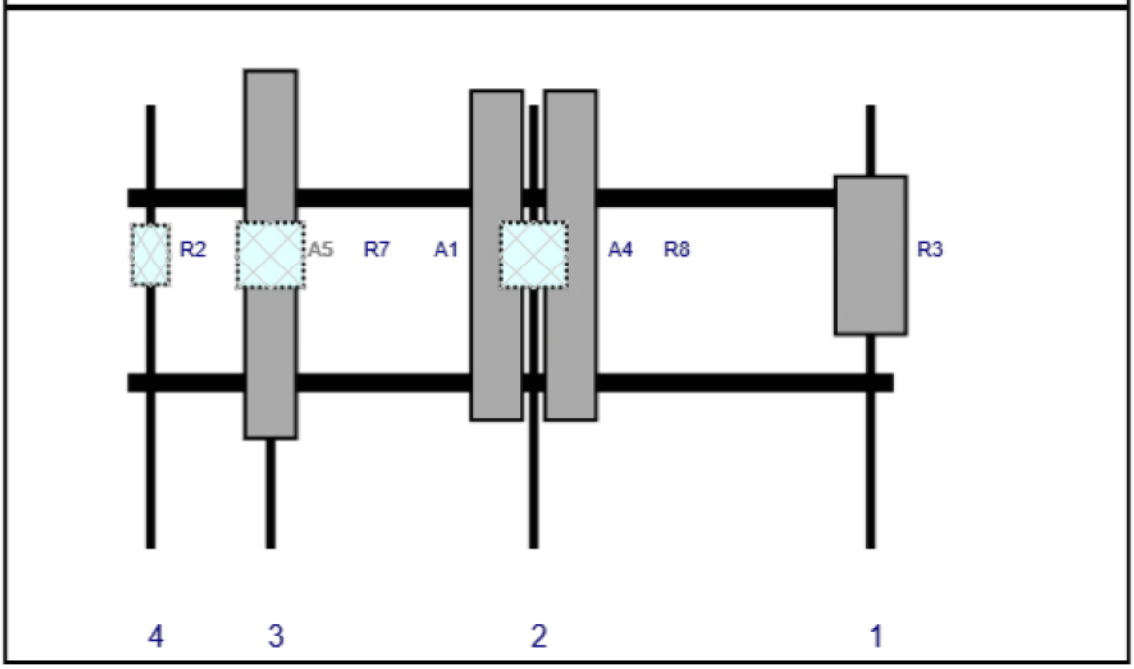
7/7/2021

MASER CONSULTING — CONNECTICUT —

Plan View



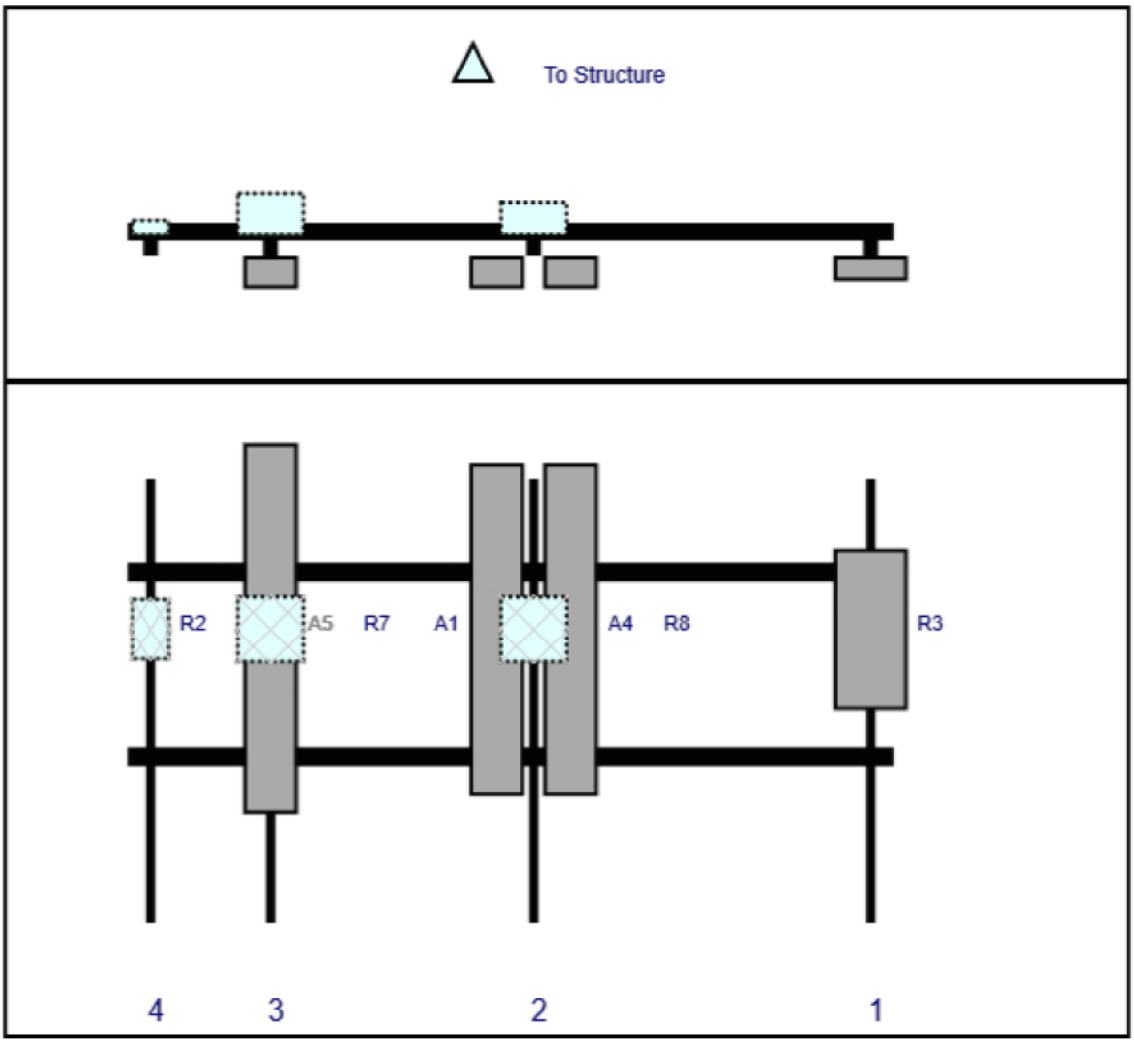
Front View
Looking at Structure



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
R3	MT6407-77A	35.1	16.1	161	1	a	Front	32.4	0	Added	
A1	NHHSS-65B-R2BT0	72	11.9	88	2	b	Front	32.4	-8	Added	
A4	NHH-65B-R2B	72	11.9	88	2	a	Front	32.4	8	Added	
R8	B5/B13 RRH-BR04C	15	15	88	2	a	Behind	32.4	0	Added	
R2	CBRS RRH - RT4401-48A	13.9	8.6	5	4	a	Behind	32.4	0	Added	
A5	LNX-6514DS-A1M	80.6	11.9	31	3	a	Front	32.4	0	Added	
R7	B2/B66A RRH-BR049	15	15	31	3	a	Behind	32.4	0	Added	

Plan View

Front View
Looking at Structure



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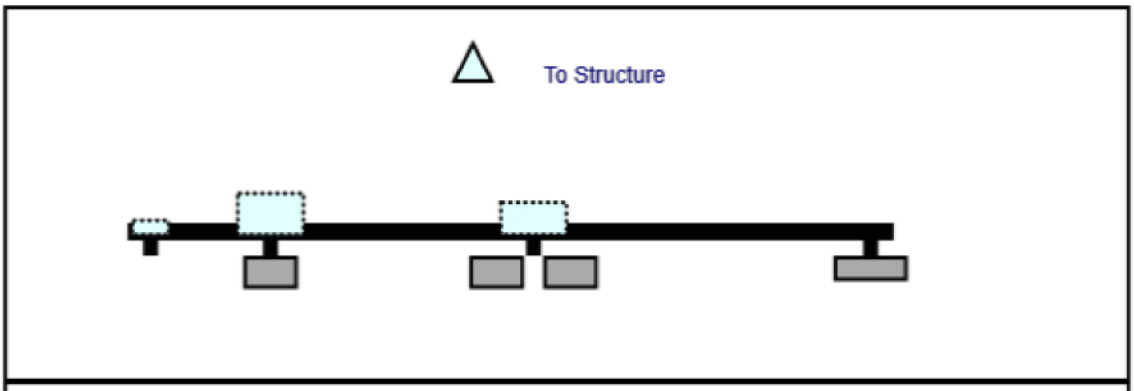
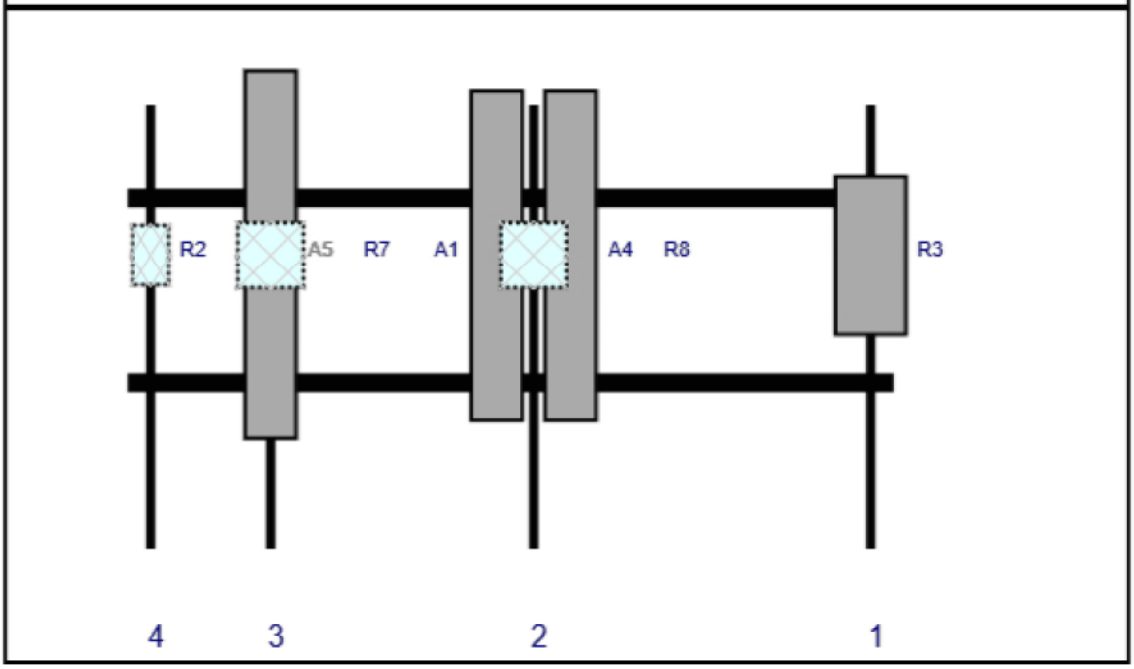
R8	B5/B13 RRH-BR04C	15	15	88	2	a	Behind	32.4	0	Added	
R2	CBRS RRH - RT4401-48A	13.9	8.6	5	4	a	Behind	32.4	0	Added	
A5	LNX-6514DS-A1M	80.6	11.9	31	3	a	Front	32.4	0	Added	
R7	B2/B66A RRH-BR049	15	15	31	3	a	Behind	32.4	0	Added	

Plan View



Front View
Looking at Structure



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R8	B5/B13 RRH-BR04C	15	15	88	2	a	Behind	32.4	0	Added	
A5	LNX-6514DS-A1M	80.6	11.9	31	3	a	Front	32.4	0	Added	
R7	B2/B66A RRH-BR049	15	15	31	3	a	Behind	32.4	0	Added	
R2	CBRS RRH - RT4401-48A	13.9	8.6	5	4	a	Behind	32.4	0	Added	

Maser Consulting Connecticut

Subject	TIA-222-H Usage	
Site Information	Site ID:	469444-VZW / COLLINSVILLE_2_CT
	Site Name:	COLLINSVILLE_2_CT
	Carrier Name:	Verizon Wireless
	Address:	96 Powder Mill Road Canton, Connecticut 06019 Hartford County
	Latitude:	41.834242°
	Longitude:	-72.932739°
Structure Information	Tower Type:	180.00-Ft Monopole
	Mount Type:	13.83-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 site to ensure the engineer is taking into account the most current engineering standard available.

Sincerely,

Taqi Khawaja, PE
Technical Manager

PROJECT NOTES

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

verizon

MOUNT MODIFICATION DRAWINGS
EXISTING 13.83' PLATFORM

SITE NAME: COLLINSVILLE_2_CT
SITE NUMBER: 469444

96 POWDER MILL RD
CANTON, CT 06019
HARTFORD COUNTY

PROJECT INFORMATION

SITE INFORMATION

LATITUDE: 41.834242° N
LONGITUDE: 72.932739° W
JURISDICTION: HARTFORD COUNTY

APPLICANT/LESSEE

COMPANY: VERIZON WIRELESS

CLIENT REPRESENTATIVE

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

PROJECT MANAGER

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

SHEET INDEX

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

CONTRACTOR PMI REQUIREMENTS

PMI LOCATION: HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #: 10049754
VZW LOCATION CODE (PSLC): 469444
FUZE ID: 2559343

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

REFERENCED DOCUMENTS

FAILING MOUNT ANALYSIS REPORT
SMART TOOL PROJECT #: 10032596
MASER CONSULTING PROJECT #: 20777653A
ANALYSIS DATE: 2/26/2021

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SCALE: AS SHOWN | JOB NUMBER: 20777653A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
-	-	-	-	-
-	-	-	-	-
1	7/7/2021	REVISED PER RFDS	N.	TK
0	4/13/2021	ISSUED FOR CONSTRUCTION	MSG	TK

Taqi Khawaja
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: PEN.003997
MASER CONSULTING
Digitally signed by Taqi Khawaja
Date: 2021.07.08 09:55:56-04'00'

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SITE NAME:
COLLINSVILLE_2_CT
117980/469444
96 POWDER MILL RD
CANTON, CT 06019
HARTFORD COUNTY

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

SHEET TITLE: TITLE SHEET

SHEET NUMBER: T-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

BILL OF MATERIALS

VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
3	VZWSMART	VZWSMART-PLK3	SUPPORT RAIL CORNER BRACKET	
1		VZWSMART-PLK5	KICKER KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
1		VZWSMART-PLK7	MONOPOLE COLLAR MOUNT ASSEMBLY	12" TO 45" DIA MONOPOLE
12		VZWSMART-MSK1	CROSSOVER PLATE	

OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
1	SITE PRO 1	SQCXK-4	CROSSOVER PLATE KIT	
1	-	-	36" LONG, P2.0 STD	GALVANIZED
3	-	-	166" LONG, P2.5 STD	GALVANIZED
3	-	-	24" LONG, L3X3X1/4	GALVANIZED

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

VZWSMART KITS - APPROVED VENDORS

COMMSCOPE	
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSSALES@PERFECT-VISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM
SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

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

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SCALE: AS SHOWN | JOB NUMBER: 20777653A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
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0	4/13/2021	ISSUED FOR CONSTRUCTION	MSG	TK

Taqi Khawaja
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: PEN.0031747
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SHEET TITLE: BILL OF MATERIALS

SHEET NUMBER: S-1

GENERAL NOTES

1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
4. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
6. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/TIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
8. WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
9. ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSI/TIA-322.
10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
11. CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
12. DO NOT SCALE DRAWINGS.
13. DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
14. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
15. THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

DESIGN LOADS

WIND LOADS

a. BASIC WIND SPEED (3 SECOND GUST), V = 115 MPH
b. EXPOSURE CATEGORY C
c. TOPOGRAPHIC CATEGORY 1
d. MEAN BASE ELEVATION (AMSL) = 309.28'

ICE LOADS

a. ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
b. ICE THICKNESS = 1.50 IN

SEISMIC LOADS

a. SEISMIC DESIGN CATEGORY B
b. SHORT TERM MCER GROUND MOTION, S_S = .176
c. LONG TERM MCER GROUND MOTION, S_1 = .054

STRUCTURAL STEEL

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

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

3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
   a. SUBMIT SHOP DRAWINGS TO GREG.DULNIK@COLLIERSENGINEERING.COM
   b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
9. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
10. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
11. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
12. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
13. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

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SHEET TITLE: MODIFICATION NOTES

SHEET NUMBER: S-2

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

MODIFICATION INSPECTION NOTES

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

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

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

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

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

MI INSPECTOR

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

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

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

GENERAL CONTRACTOR

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

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

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

RECOMMENDATIONS

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

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

CORRECTION OF FAILING MI'S

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

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

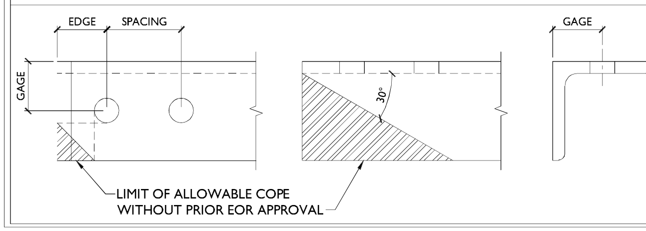
REQUIRED PHOTOS

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

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

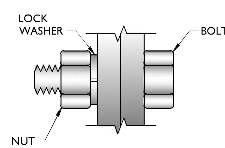
PHOTOS OF ELEVATED MODIFICATIONS TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.

ALLOWABLE COPING



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

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



TYP. BOLT ASSEMBLY

NOTES:

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

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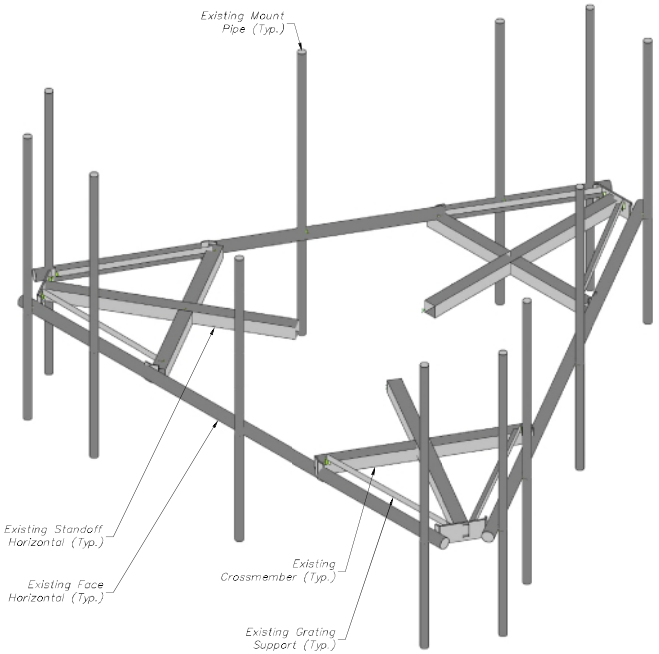
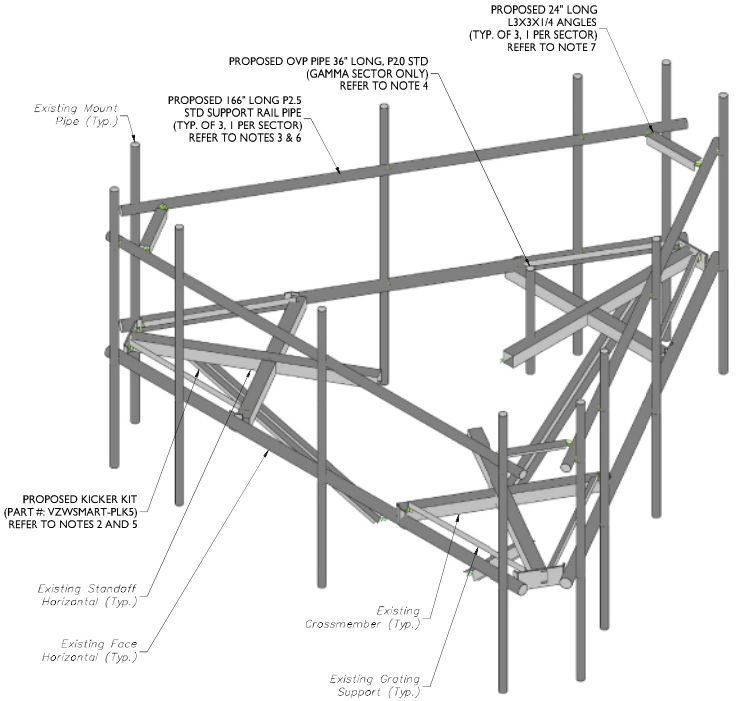
SHEET TITLE: MODIFICATION NOTES

SHEET NUMBER: S-3

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



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



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

STRUCTURAL NOTES:

1. PER THE MOUNT MAPPING COMPLETED BY HUDSON DESIGN GROUP, LLC ON 2/11/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (145'-0") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
3. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
4. CONNECT NEW OVP PIPE TO EXISTING STANDOFF HORIZONTAL WITH CROSSOVER PLATES (PART #: SITE PRO 1 - SQCX4-K).
5. CONNECT OTHER END OF KICKER KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7).
6. CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).
7. CONNECT ANGLES TO PROPOSED SUPPORT RAIL PIPE UTILIZING SUPPORT RAIL CORNER BRACKET (PART#: VZWSMART-PLK3).

MASER CONSULTING CONNECTICUT
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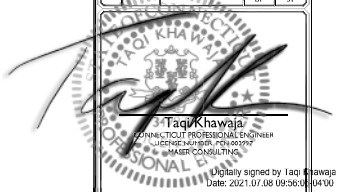
SCALE : AS SHOWN
JOB NUMBER : 20777653A

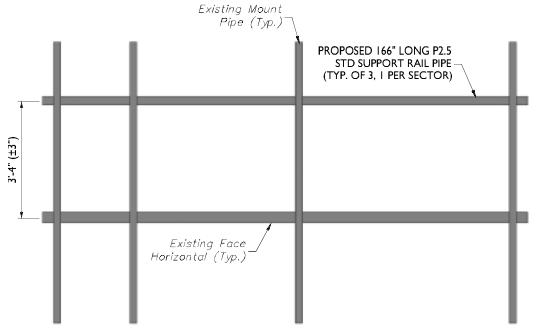
REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
1	7/7/2021	REVISED PER RFDS	NL	TK
0	4/13/2021	ISSUED FOR CONSTRUCTION	MSG	TK



SITE NAME:
COLLINSVILLE_2_CT
117980/469444
96 POWDER MILL RD
CANTON, CT 06019
HARTFORD COUNTY

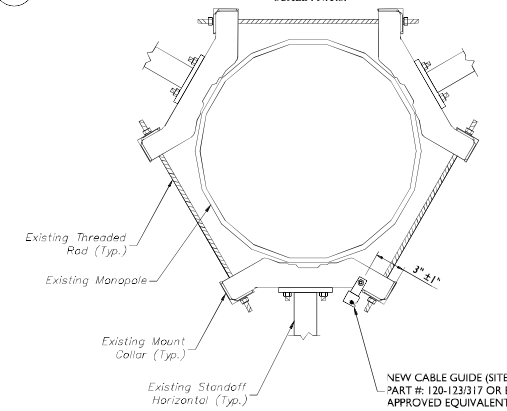
MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE : MODIFICATION DETAILS
SHEET NUMBER : S-4



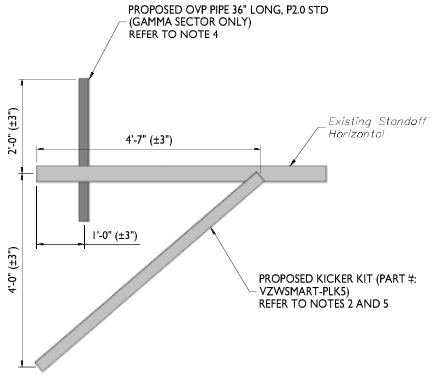
1 PROPOSED FRONT ELEVATION (TYP. ALL SECTORS)

SCALE : N.T.S.



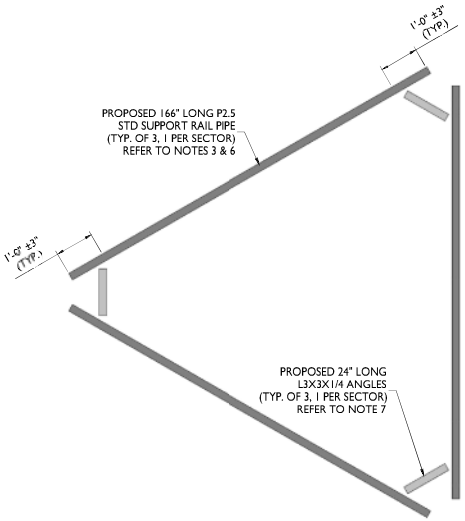
3 PROPOSED CABLE GUIDE COLLAR ATTACHMENT - PLAN VIEW

SCALE : N.T.S.



2 PROPOSED SIDE ELEVATION (TYP. ALL SECTORS)

SCALE : N.T.S.



4 PROPOSED PLAN VIEW

SCALE : N.T.S.

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
3. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
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7. CONNECT ANGLES TO PROPOSED SUPPORT RAIL PIPE UTILIZING SUPPORT RAIL CORNER BRACKET (PART#: VZWSMART-PLK3).

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AS SHOWN	20777653A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
1	7/7/2021	REVISED PER RFDS	NL	TK
0	4/13/2021	ISSUED FOR CONSTRUCTION	MSG	TK

Taqi Khawaja
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: PEN.0032767
MASER CONSULTING

Digitally signed by Taqi Khawaja
Date: 2021.07.08 09:56:06-04'00'

SITE NAME:

COLLINSVILLE_2_CT
117980/469444

96 POWDER MILL RD
CANTON, CT 06019
HARTFORD COUNTY

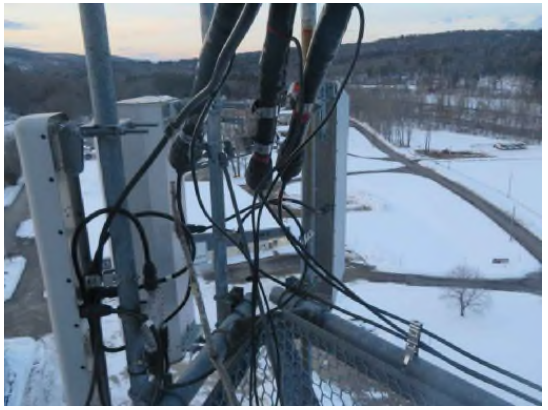
MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE :
MODIFICATION DETAILS

SHEET NUMBER :
S-5

MOUNT PHOTO 1

MOUNT PHOTO 2



MOUNT PHOTO 3

MOUNT PHOTO 4

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SCALE: AS SHOWN
JOB NUMBER: 20777653A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
1	7/7/2021	REVISED PER RFDS	NL	TK
0	4/13/2021	ISSUED FOR CONSTRUCTION	MSG	TK

TAQI KHAWAJA 34 CONNECTICUT PROFESSIONAL ENGINEER

Taqi Khawaja
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: PEN.0032767
MASER CONSULTING

Digitally signed by Taqi Khawaja
Date: 2021.07.08 09:56:06-04'00'

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

SITE NAME:

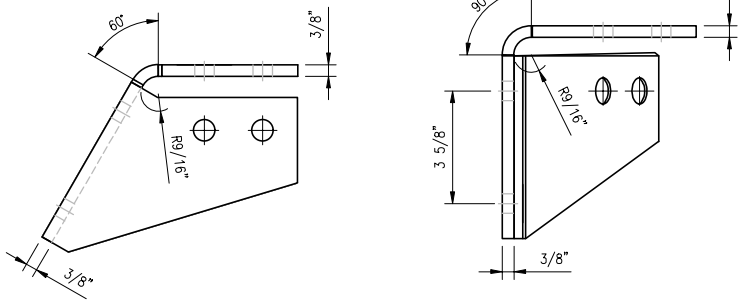
COLLINSVILLE_2_CT
117980/469444

96 POWDER MILL RD
CANTON, CT 06019
HARTFORD COUNTY

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

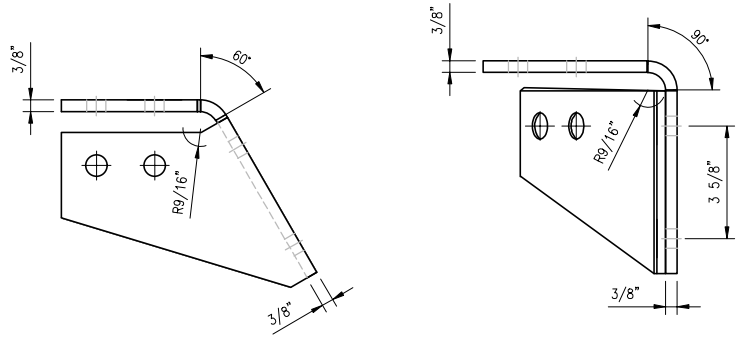
SHEET TITLE: MOUNT PHOTOS

SHEET NUMBER: S-6



TOP VIEW SIDE VIEW

CBP-L



TOP VIEW SIDE VIEW

CBP-R

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

VZWSMART-PLK3 (SUPPORT RAIL CORNER BRACKET)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	CBP-L	CORNER BENT PLATE BRACKET	PLK3-F1	9
2	1	CBP-R	CORNER BENT PLATE BRACKET	PLK3-F1	9
3	4	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	5
4	8	---	BOLT 5/8" X 2" A325	---	3
5	16	FW-625	5/8" HDG USS FLAT WASHER	---	1
6	16	LW-625	5/8" HDG LOCK WASHER	---	0
7	16	NUT-625	5/8" HDG HEX NUT	---	2
				GALVANIZED WT	30

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DRAWN BY: H.R | CHECKED BY: HMA

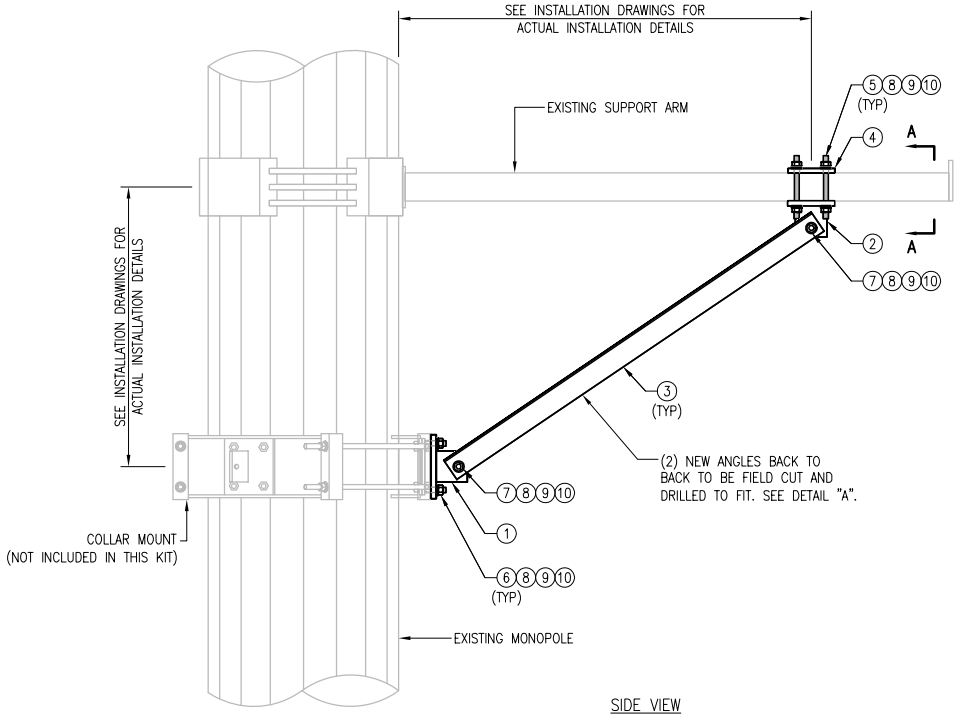
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	H.R	05/08/20

SHEET TITLE:
VZWSMART-PLK3
SUPPORT RAIL CORNER BRACKET

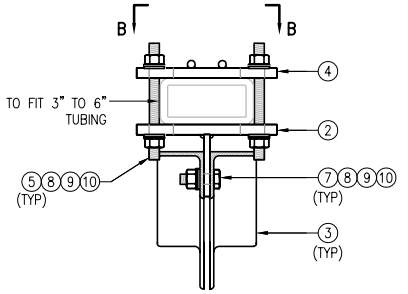
SHEET NUMBER: VZWSMART-PLK3

REV #: 0

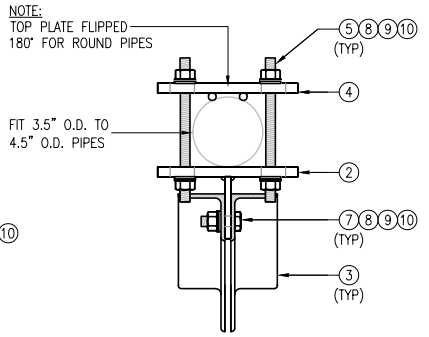
NOTE:
THE LOCATION OF KICKER AND EXISTING ANTENNA MOUNT SHOWN ON THE DRAWING IS FOR REPRESENTATION PURPOSE ONLY. SEE INSTALLATION DRAWINGS FOR ACTUAL INSTALLATION OF DETAILS.



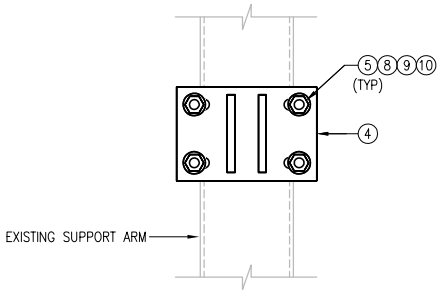
SIDE VIEW
KICKER KIT



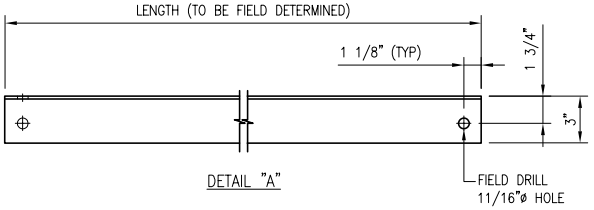
SECTION "A-A"
RECT. HSS MOUNTING



SECTION "A-A"
ROUND PIPE MOUNTING



SECTION "B-B"



DETAIL "A"

VZWSMART-PLK5 (KICKER KIT)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	BRKW-XXX	BRACKET WELDMENT A36	PLK5-F3	43.8
2	3	BRKW-XXXX	BRACKET WELDMENT A36	PLK5-F2	35.7
3	6	L331875-8	L 3" X 3" X 3/16" X 8'-0" A36	PLK5-F4	182.9
4	3	PL-KI	PL 5/8" X 6" X 9" A36	PLK5-F1	29.0
5	12	---	THREADED ROD 5/8" DIA. X 1'-0" F1554-36 HDG	---	--
6	6	---	BOLT 5/8" X 2" A325	---	--
7	12	---	BOLT 5/8" X 2 1/2" A325	---	--
8	42	FW-625	5/8" HDG USS FLAT WASHER	---	3
9	42	LW-625	5/8" HDG LOCK WASHER	---	1
10	42	NUT-625	5/8" HDG HEX NUT	---	5
				GALVANIZED WT	291

NOTES:
1. ALL HOLES ARE 11/16" DIA. U.N.O
2. HOT-DIPPED GALVANIZED PER ASTM A123.
3. FIT UP TO 6" SQ. TUBING OR 4 1/2" O.D. PIPE

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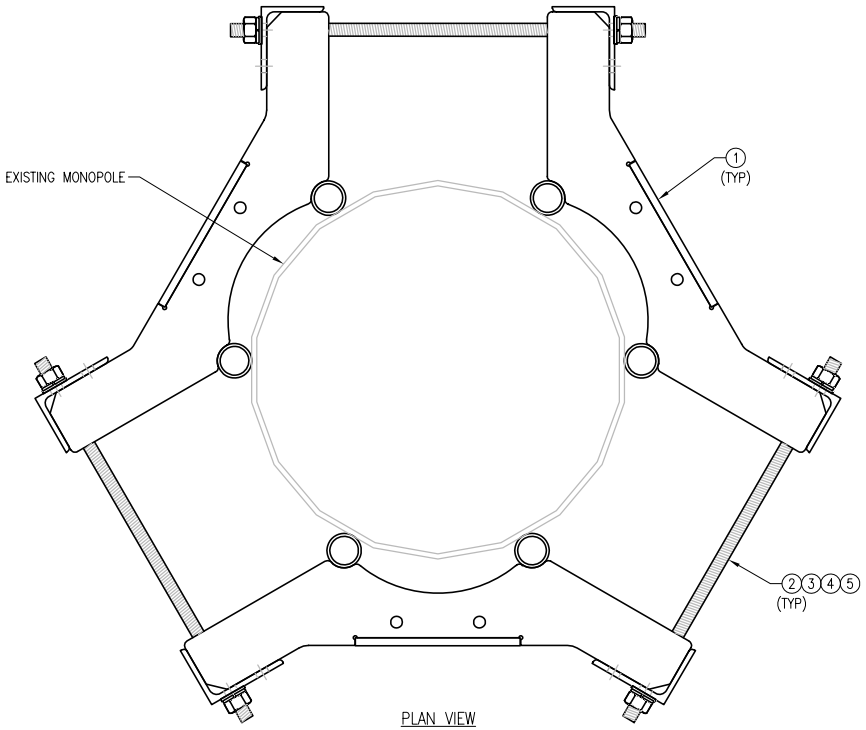
DRAWN BY: MN | CHECKED BY: HMA/KW

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

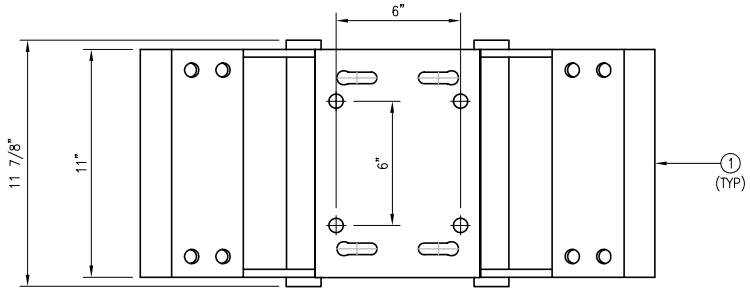
SHEET TITLE:
VZWSMART-PLK5
KICKER KIT

SHEET NUMBER: VZWSMART-PLK5

REV #: 0



PLAN VIEW
MONOPOLE COLLAR MOUNT ASSEMBLY



FRONT VIEW

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

VZWSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)

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

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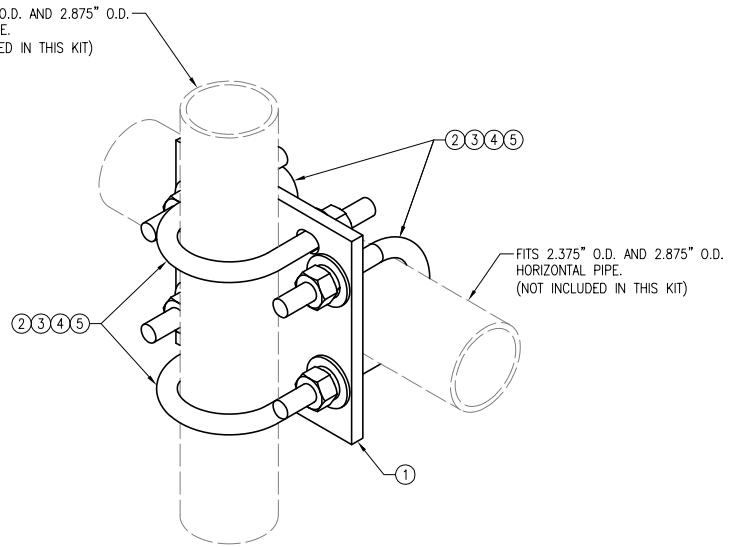
DRAWN BY: BT | CHECKED BY: HMA/KW

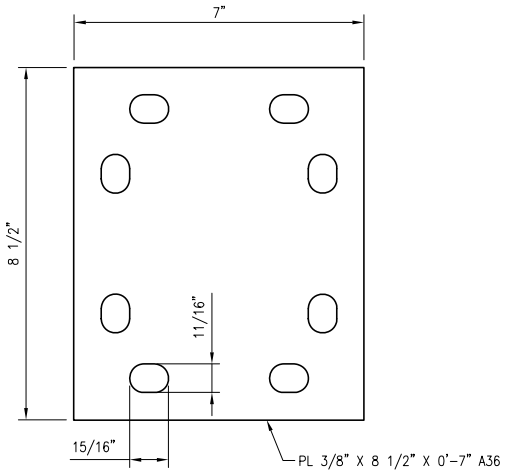
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	BT	05/11/20

SHEET TITLE:
VZWSMART-PLK7
MONOPOLE COLLAR
MOUNT ASSEMBLY

SHEET NUMBER: VZWSMART-PLK7

REV #: 0





PL375-857

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

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

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DRAWN BY: H.R	CHECKED BY: HMA

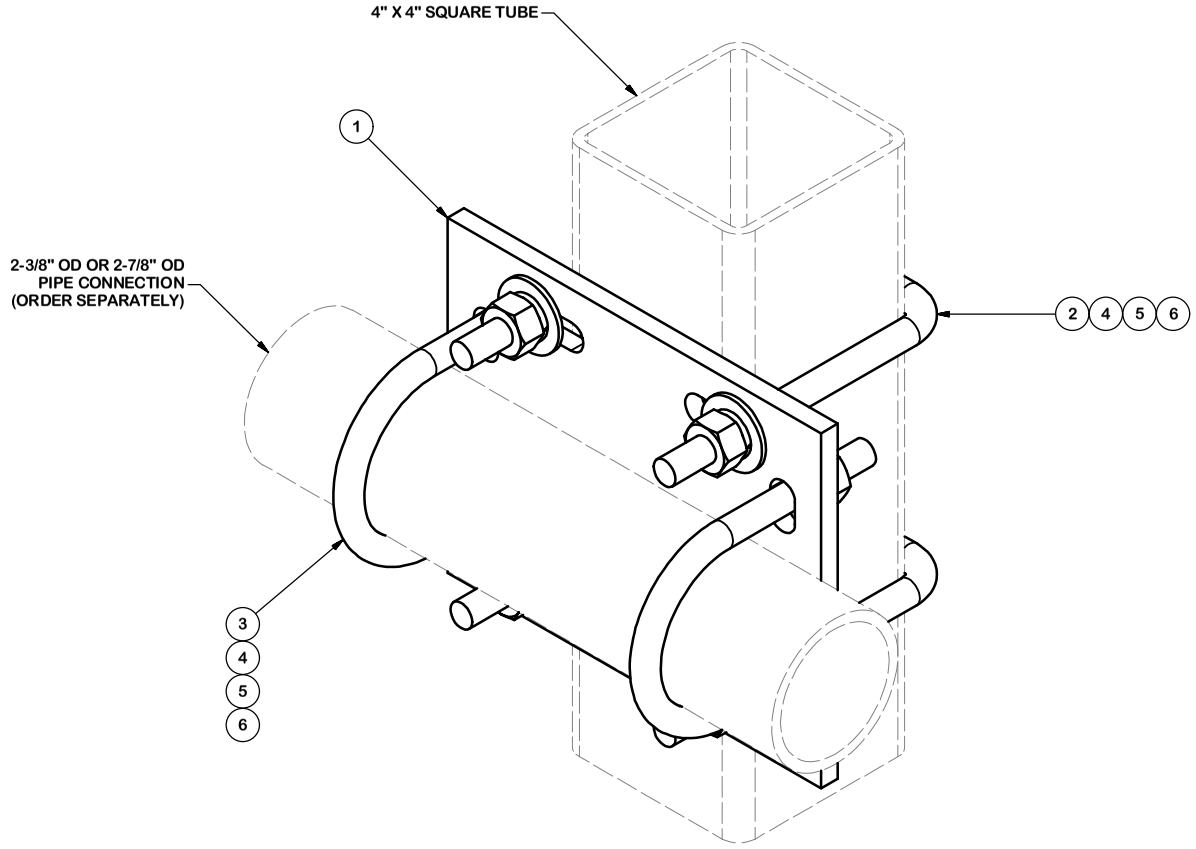
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	H.R	05/08/20

SHEET TITLE:

VZWSMART-MSK1
CROSSOVER PLATE

SHEET NUMBER:	REV #:
VZWSMART-MSK1	0

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



TOLERANCE NOTES

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

DESCRIPTION
CROSSOVER PLATE KIT
W/ SQUARE U-BOLTS AND STD. U-BOLTS

SITE PRO 1
A valmont COMPANY

Engineering Support Team:
1-888-753-7446

Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

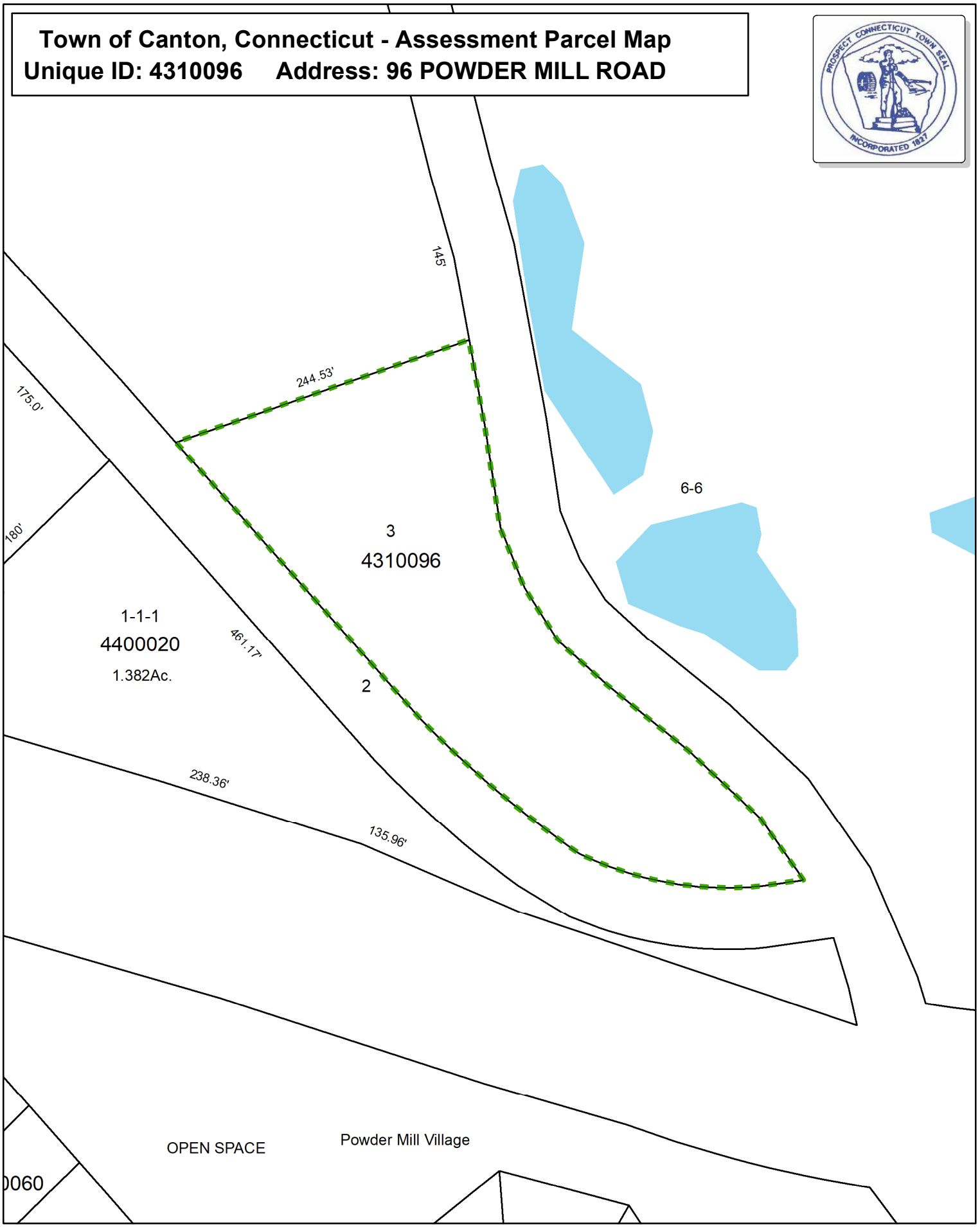
CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
	CSL 9/18/2018	3RD PARTY	SQCX4-K

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
87	02	CUSTOMER	BMC 11/12/2018	SQCX4-K

ATTACHMENT 5

Town of Canton, Connecticut - Assessment Parcel Map

Unique ID: 4310096 Address: 96 POWDER MILL ROAD



Approximate Scale:

1 inch = 100 feet

Disclaimer:
This map is for informational purposes only.
All information is subject to verification by any user.
The Town of Canton and its mapping contractors
assume no legal responsibility for the information contained herein.

Map Produced
June 2021

Sublot
Easement
4850007 Parcel ID
89' Dimension

Parcel Detail

Documents and Maps

Quick Map

eQuality

Assessor Map

FEMA Panels

Some of these PDF maps are large (2-3 MB) and may take 20 seconds or more to load, even on a DSL connection.

Scroll Down For More Info

Detailed Parcel Information

Parcel No
26/431/0096

Unique ID
4310096

Owner
PROPERTIES ONE LLC

Location
96 POWDER MILL ROAD

MAILING ADDRESS
P O BOX 125
COLLINSVILLE CT 06022

SUMMARY PARCEL INFORMATION & MAP DOCUMENTS

PARCEL VALUATIONS

	Appraised Value	Assessed Value
Buildings	286850	200790
Outbuildings	0	0

ATTACHMENT 6

COLLINSVILLE 2

UNITED STATES POSTAL SERVICE®

Certificate of Mailing — Firm

Name and Address of Sender	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here *Postmark with Date of Receipt.*
Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	3	3	neopost 08/06/2021 US POSTAGE $002.89 ZIP 06103 041L1220937
	Postmaster, per *(name of receiving employee)* Y.P		

USPS® Tracking Number / Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Robert Bessel, First Selectman Town of Canton 4 Market Street Collinsville, CT 06022				
2.	Neil Pade, AICP, Director of Planning and Community Development Town of Canton 4 Market Street Collinsville, CT 06022				
3.	Properties One LLC P.O. Box 125 Collinsville, CT 06022				
4.					
5.					
6.					

OLD STATE HOUSE STATION 06108 AUG - 6 2021 USPS