Robinson+Cole

KENNETH C. BALDWIN

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Hartford, CT 06103-3597
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Also admitted in Massachusetts
and New York

May 25, 2022

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**
6 Progress Avenue, Seymour, Connecticut

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains an existing wireless telecommunications facility at the above-referenced 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 Seymour ("Town") in June of 2000. Cellco's shared use of the tower was approved by the Council in September of 2010. A copy of the Town's approval and Cellco's TS-VER-124-100823 approval are included in Attachment 1.

Cellco now intends to modify its facility by replacing nine (9) existing antennas with three (3) Samsung 64T64RMMU antennas; six (6) MX06FRO660 antennas; removing three (3) existing remote radio heads ("RRHs") and installing six (6) new RRHs on Cellco's existing antenna mounts. 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 Seymour'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. The replacement antennas and RRHs will be installed on Cellco's existing antenna mounts.

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

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

4. The installation of Cellco's new antennas 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 the modified facility is included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.

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

6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation and tower base plate can support Cellco's proposed modifications. Modifications to the antenna mounts are required and proposed in this filing. Copies of the SA and MA are included in Attachment 4. Also included in Attachment 4 is a separate letter prepared by the consulting engineers responsible for the preparation of the SA and MA verifying that the antenna model described in the SA and MA, respectively, as a nL-Sub6 Antenna or License-Sub6 Antenna, is the Samsung 64T64R model antenna and RRH that will be installed on the tower.

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:
Annmarie Drugonis, Seymour First Selectwoman
Keith Rosenfeld, Seymour Town Planner
EMAC LLC
Aleksey Tyurin

ATTACHMENT 1

ding Concrete Base for Tower Date 6-20 19 2000

bing

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ric

ires

avit

Dept.

th Dept.

oved

APPLICATION FOR BUILDING PERMIT

B-01711

No. 8571

CR #4502

Estimated Cost $ 126000

Fee . . . . $ ~~120~~

Occupancy Fee $ 20.00

Additional Cost $ 19.46

THE BUILDING DEPARTMENT, TOWN OF SEYMOUR, CONN.

undersigned, hereby applies for a permit to do work according to the following specifications:

2 Progress Ave Lot No. 13 Side of Street R Zone CI

est cross street Silvermine Road

er of building Emac Communication Corp. Address 50 olivia St.

ler Northeast Tower Address 170 River Rd. Unionville

itect Pirad Inc. Address 1545 Pidco Drive plymouth

Main Bldg.: No. ft. front overall No. ft. deep overall Area

of wings Garages No. of families No. of stories

truction Steel Concrete No. of rooms: 1st 2nd 3rd

of Lot 2.11 ac Dist. from Street Line 190' Dist. from Side Line Street

ose of building is concrete Tower base ~~and Steel Tower~~

as per plans and Specs. on file

Sewer ☐ Septic Tank ☐

ding ERECTION of Steel Tower. Date 6-29- 19 2002

bing

ing

ric

ires

avit

Dept.

th Dept.

oved

APPLICATION FOR BUILDING PERMIT

NO-FEE P.O. with Bldg. permit.

No. 8581

REC # B-01720.

Estimated Cost $ Included with Permit #

Fee . . . . $

Occupancy Fee $

Additional Cost $

THE BUILDING DEPARTMENT, TOWN OF SEYMOUR, CONN.

undersigned, hereby applies for a permit to do work according to the following specifications:

2 Progress Ave Lot No. 13 Side of Street R Zone CI 2

est cross street Silvermine Rd

er of building Emac Communications Corp. Address 50 olivia St Derby

ler Northeast Tower Address 170 River Rd Unionville CT

itect PiRad Inc Address 1545 Pidco DR - plymouth PA

Main Bldg.: No. ft. front overall No. ft. deep overall Area

of wings Garages No. of families No. of stories

truction Steel + Concrete No. of rooms: 1st 2nd 3rd

of Lot 2.11 ac Dist. from Street Line 190 Dist. from Side Line Street

ose of building is Erection of Steel Tower as per Plans & Specs on file

Sewer ☐ Septic Tank ☐

SEYMOUR PLANNING AND ZONING COMMISSION

TOWN HALL 1 FIRST STREET SEYMOUR, CONNECTICUT

ZONING PERMIT

PROPERTY IDENTIFICATION

Address 2 PROGRESS AV Zone GI-2

Tax Map 1-5 Parcel No 12N Developer's Lot No _____

Name of Applicant EMAC COMMUNICATION Tel No 735 7733

DESCRIPTION OF WORK

Construction of Bldgs and site improvements as shown on Site plan approved by PZ 11-4-99 & M Foundation plans for Tower on file with Town Engineer Construction of Tower not Authorized until bond for Tower received.

PLOT PLAN AND SURVEY

(1) Attach plot plan prepared at a scale of not more than 60 ft to one inch. Plot plan for a zoning/start permit shall be prepared using available data, but need not be an A-2 survey. on file with PZ

2. As Built- A-2 Survey

_____ Not required to assure zoning compliance

__X__ Required before a Certificate of Occupancy will be authorized.

SOIL EROSION CONTROL PLAN

_____ Not required

__X__ Required. Show on plot plan or attach separate plan.

APPROVALS

1. Zoning/Start permit approved. Building permit authorized.

Robert Lavita Asst ZEO 6-20-00 Date

2. Zoning/Development Completion Certificate
Based on a review of the zoning/start permit, building permit, A-2 survey as required and/or an inspection of the property, this development conforms to the zoning regulations and a certificate of occupancy is authorized.

_____ ZEO _____ Date

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

Internet: ct.gov/csc

Daniel F. Caruso
Chairman

September 24, 2010

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

RE: **TS-VER-124-100823** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 6 Progress Avenue, Seymour, Connecticut.

Dear Attorney Baldwin:

At a public meeting held September 23, 2010, 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 of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction. Please be advised that the validity of this action shall expire one year from the date of this letter.

The proposed shared use is to be implemented as specified in your letter dated August 23, 2010 and additional correspondence dated August 31, 2010, including the placement of all necessary equipment and shelters within the tower compound.

Thank you for your attention and cooperation.

Very truly yours,

Daniel F. Caruso

Daniel F. Caruso
Chairman

DFC/CDM/laf

c: The Honorable Paul F. Roy, First Selectman, Town of Seymour
James Baldwin, Sr., Zoning Enforcement Officer, Town of Seymour
EMAC Communications, LLC

ATTACHMENT 2

verizon

SITE NAME: WOODBRIDGE NORTH CT

6 PROGRESS AVENUE
SEYMOUR, CT 06483
TOWN OF SEYMOUR,
NEW HAVEN COUNTY

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

SITE INFORMATION

SCOPE OF WORK:	PROJECT CONSISTS OF INSTALLING ADDITIONAL EQUIPMENT AND/OR ANTENNAS TO AN EXISTING WIRELESS TELECOMMUNICATIONS FACILITY.
SITE ADDRESS:	6 PROGRESS AVENUE SEYMOUR, CT 06483
LATITUDE (NAD 83): LONGITUDE (NAD 83):	41-23-30.25N (41.391735°) 73-03-10.32W (-73.052867°)
JURISDICTION:	TOWN OF SEYMOUR NEW HAVEN COUNTY
PARCEL NUMBER:	1301.01 / 2
PROPERTY OWNER:	EDMAC LLC 2702 FOREST VIEW LANE KISSIMMEE, FL 34744
TOWER OWNER:	EDMAC LLC
VZW SITE ID:	WOODBRIDGE NORTH CT
STRUCTURE TYPE:	SELF-SUPPORT TOWER
CONSTRUCTION TYPE:	II B
USE GROUP:	U

CONTRACTOR PMI REQUIREMENTS

PMI ACCESSED AT:	HTTPS://PMI.VZWSMART.COM
SMART TOOL VENDOR PROJECT PROJECT NUMBER:	100765
VERIZON LOCATION CODE (PSLC):	469060

*** PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT

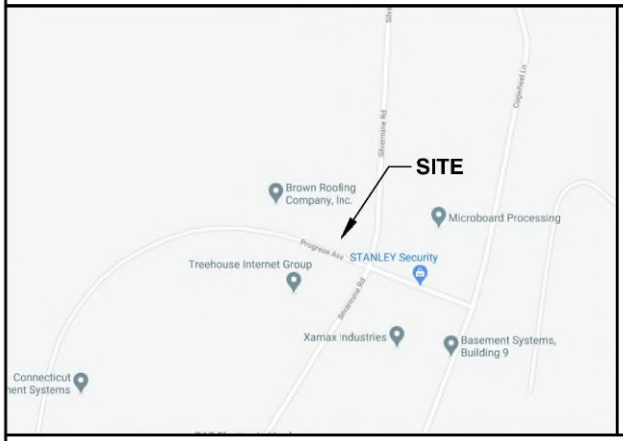
MOUNT REPLACEMENT REQUIRED

YES

VERIZON APPROVED VENDORS

* REFER TO CONSTRUCTION DRAWINGS.

VICINITY MAP



DIRECTIONS

FROM WALLINGFORD, CT: HEAD NORTH ON US-5 N / N COLONY RD TOWARD NEAL RD. TURN BACK ON US-5 S / N COLONY RD. TAKE RAMP RIGHT FOR CT-15 SOUTH TOWARD NEW HAVEN. AT EXIT 59, TAKE RAMP RIGHT FOR CT-69 TOWARD NEW HAVEN / WOODBRIDGE. TURN LEFT ONTO CT-69 / LITCHFIELD TPKE. TURN LEFT ONTO LANDIN ST. TURN RIGHT ONTO CT-63 / AMITY RD. TURN LEFT ONTO CT-67 / SEYMOUR RD. TURN LEFT ONTO COGWHEEL LN. TURN RIGHT ONTO PROGRESS AVE. ARRIVE AT PROGRESS AVE.

LEADS TO LATITUDE 41.391735° AND LONGITUDE -73.052867°. (FRONT OF BUILDING)

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.

- 2015 INTERNATIONAL BUILDING CODE
- 2017 NATIONAL ELECTRICAL CODE
- 2015 NATIONAL STANDARD PLUMBING CODE
- 2009 NFPA 101, LIFE SAFETY CODE
- 2015 IFC
- AMERICAN CONCRETE INSTITUTE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- MANUAL OF STEEL CONSTRUCTION 14TH EDITION
- ANSI/TIA-222-G
- TIA 607
- INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81
- IEEE C2 NATIONAL ELECTRIC SAFETY CODE LATEST EDITION
- TELECORDIA GR-1275
- ANSI/T 311

DRAWING INDEX

T-1	TITLE SHEET
C-1	COMPOUND PLAN
C-2	ELEVATION
A-1	EXISTING ANTENNA PLAN AND SCHEDULE
A-2	PROPOSED ANTENNA PLAN AND SCHEDULE
A-3	ANTENNA DETAILS & PLUMING DIAGRAM
A-4	EQUIPMENT SPECIFICATIONS
A-5	SCOPE OF WORK
G-1	GROUNDING SCHEMATIC & DETAILS
GN-1	PMI REQUIREMENTS
	MODIFICATION DRAWING ATTACHED

DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE FORMATTED TO BE FULL-SIZE AT 22"X34". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DESIGNER / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION.

APPROVAL BLOCK

		APPROVED	APPROVED AS NOTED	DISAPPROVED/ REVISE
CONSTRUCTION MANAGER	DATE	☐	☐	☐
SITE ACQUISITION	DATE	☐	☐	☐
RF ENGINEER	DATE	☐	☐	☐
LESSOR/LESSOR REP	DATE	☐	☐	☐

ENGINEER

NB+C TOTALLY COMMITTED
NB+C ENGINEERING SERVICES, LLC.
100 APOLLO DRIVE
SUITE 300
CHELMSFORD, MA 01824
(978) 906-6500

APPLICANT

verizon
118 FLANDERS ROAD
FLOOR 3
WESTBOROUGH, MA 01581

SITE INFORMATION

WOODBRIDGE NORTH CT
6 PROGRESS AVENUE
SEYMOUR, CT 06483
TOWN OF SEYMOUR
NEW HAVEN COUNTY

DESIGN RECORD

REVISIONS

REV	DATE	DESCRIPTION	BY
4	5/18/22	ANTENNA REVISIONS	DC
3	5/02/22	REVISED PER MA	KM
2	03/02/21	FINAL CDs	RAL
1	01/29/21	FINAL CDs	RAL
0	12/15/20	PRELIMINARY CDs	ALM

PROFESSIONAL STAMP

STATE OF CONNECTICUT
DANIEL J. CORNING
34055
LICENSED PROFESSIONAL ENGINEER

ENGINEER

DANIEL J. CORNING, P.E.
CT PROFESSIONAL ENGINEER LIC. #34055

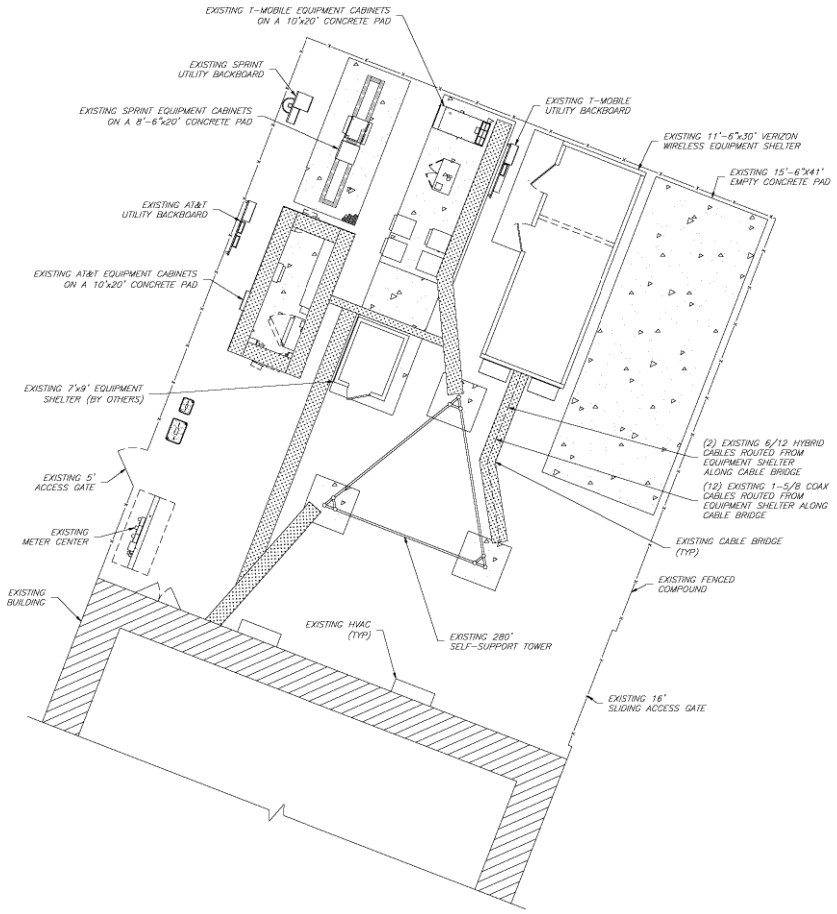
SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

TRUE NORTH



1 / C-1 COMPOUND PLAN
SCALE: 1/8" = 1' (22X34)
SCALE: 1/16" = 1' (11X17)

GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITIES COMPANY OR OTHER PUBLIC AUTHORITIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
3. 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. MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
5. 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 THE MANUFACTURER'S RECOMMENDATIONS.
6. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
7. ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL.
8. CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
9. IF ANY UNDERGROUND UTILITIES OR STRUCTURES EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE IT AND CONTACT THE APPLICANT & THE OWNER'S REPRESENTATIVE.
10. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION BY TECHNICIANS APPROXIMATELY 2 TIMES PER MONTH.
11. THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
12. NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
13. THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
14. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.

GRAPHIC SCALE
1/8 INCH = 1 FOOT (22X34)
1/16 INCH = 1 FOOT (11X17)

ENGINEER

NB+C
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100 APOLLO DRIVE
SUITE 100
CHELMSFORD, MA 01824
(978) 906-0100

APPLICANT

verizon
118 FLANDERS ROAD
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1	01/28/21	FINAL CDs	RAL
0	12/15/20	PRELIMINARY CDs	ALM

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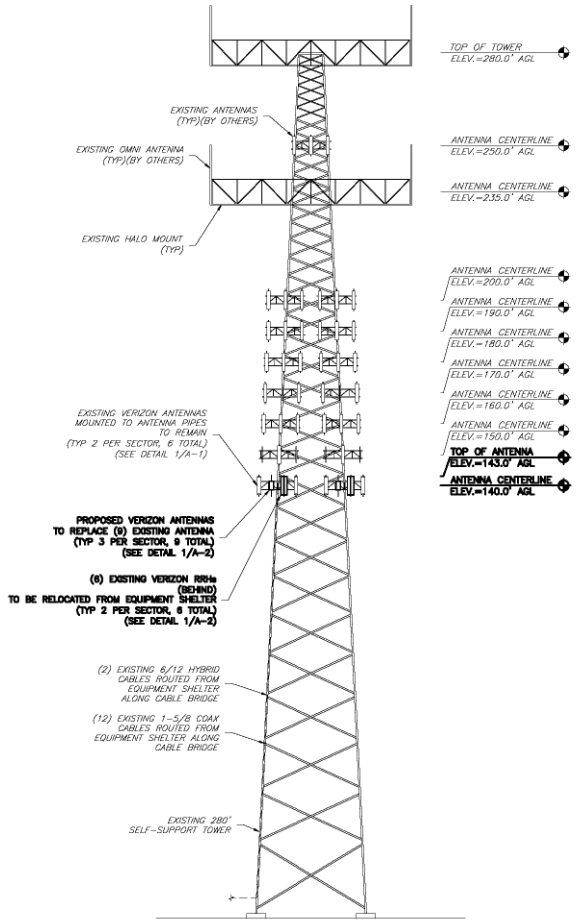
SHEET TITLE

COMPOUND PLAN

SHEET NUMBER

C-1



1 / C-2 ELEVATION
SCALE: 1" = 20' (22X34)
SCALE: 1" = 40' (11X17)

NOTE:
POST-MODIFICATION INSPECTION (PMI) REQUIRED ON ALL SITES. REFER TO THE MOUNT ANALYSIS PREPARED BY MASER CONSULTING DATED 04/12/2022 FOR ADDITIONAL DETAILS.

NOTE:
REPLACEMENT OF THE EXISTING MOUNT IS REQUIRED BEFORE ANY INSTALL CAN OCCUR. PLEASE REFER TO SHEET 10 AND THE MOUNT ANALYSIS REPORT PROVIDED BY MASER CONSULTING DATED, 04/12/2022

GRAPHIC SCALE
20 0 10 20 40 60
1 INCH = 20 FEET (22X34)
1 INCH = 40 FEET (11X17)

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SUITE 100
CHELMSFORD, MA 01824
(978) 906-0100

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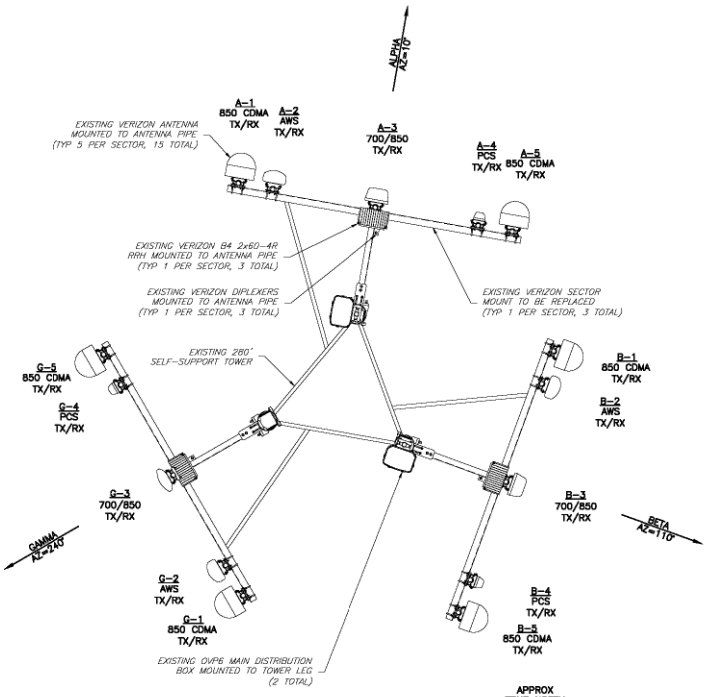
SHEET TITLE

ELEVATION

SHEET NUMBER

C-2



1 / A-1 EXISTING ANTENNA ORIENTATION PLAN
NTS

EXISTING ANTENNA & RRH SCHEDULE

ANTENNA POSITION	ANTENNA MANUFACTURER	ANTENNA MODEL	RAD CENTER	AZIMUTH	DOWN TILT MECH	DOWN TILT ELEC	RRH QUANTITY & MODEL	TECHNOLOGY	CABLE SIZE, LENGTH & QUANTITY
A-1	ANTEL	LPA-80063/6CF	140.00'	10°	2°	0°	–	850 CDMA	(4) 1-5/8" COAX
A-2	COMMSCOPE	HBXX-6517DS-A2M	140.00'	10°	0°	2°	UHIC B4 RRH 2x60-4R	AWS	
A-3	COMMSCOPE	LNX-6514DS	140.00'	10°	2°	4°	B5/B13 RRH – BR04C (IN SHELTER)	700/850	
A-4	AMPHENOL	BXA-171063-12BF	140.00'	10°	0°	2°	B2/B66A RRH – BR049 (IN SHELTER)	PCS	(1) 1.43"ø HYBRID CABLE
A-5	ANTEL	LPA-80063/6CF	140.00'	10°	2°	0°	–	850 CDMA	
B-1	ANTEL	LPA-80063/6CF	140.00'	110°	4°	0°	–	850 CDMA	(4) 1-5/8" COAX
B-2	COMMSCOPE	HBXX-6517DS-A2M	140.00'	110°	0°	2°	UHIC B4 RRH 2x60-4R	AWS	
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B-4	AMPHENOL	BXA-171063-12BF	140.00'	110°	0°	2°	B2/B66A RRH – BR049 (IN SHELTER)	PCS	(1) 1.43"ø HYBRID CABLE
B-5	ANTEL	LPA-80063/6CF	140.00'	110°	4°	0°	–	850 CDMA	
G-1	ANTEL	LPA-80063/6CF	140.00'	240°	2°	0°	–	850 CDMA	(4) 1-5/8" COAX
G-2	COMMSCOPE	HBXX-6517DS-A2M	140.00'	240°	0°	5°	UHIC B4 RRH 2x60-4R	AWS	
G-3	AMPHENOL	BXA-70063-6BF	140.00'	240°	4°	4°	B5/B13 RRH – BR04C (IN SHELTER)	700/850	
G-4	AMPHENOL	BXA-171063-12BF	140.00'	240°	0°	2°	B2/B66A RRH – BR049 (IN SHELTER)	PCS	SHARED THROUGH HYBRIFLEX
G-5	ANTEL	LPA-80063/6CF	140.00'	240°	4°	0°	–	850 CDMA	

ENGINEER

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SUITE 300
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verizon
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CT PROFESSIONAL ENGINEER LIC. #34055

SHEET TITLE

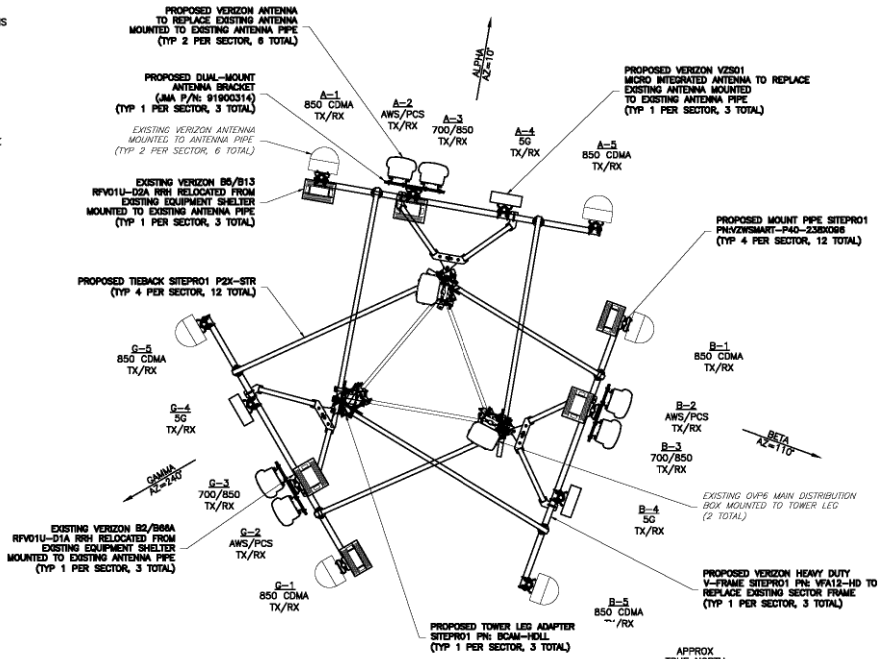
EXISTING ANTENNA PLAN AND SCHEDULE

SHEET NUMBER

A-1

GENERAL ANTENNA NOTES

1. ALL ANTENNAS TO BE FURNISHED WITH DOWNTILT BRACKETS. CONTRACTOR IS TO COORDINATE AND VERIFY THE PROPOSED DOWNTILTS WITH VERIZON MANAGER PRIOR TO CONSTRUCTION.
2. ANTENNA CENTERLINE HEIGHT IS IN REFERENCE TO ELEVATION 0.0'. (EXISTING GRADE)
3. CHECK WITH RF ENGINEER FOR LATEST ANTENNA TYPE & AZIMUTH.
4. CONTRACTOR SHALL VERIFY ANTENNA TYPE AND AZIMUTH WITH CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
5. ALL CABLE LENGTHS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
6. COLOR TAPE MARKINGS MUST BE 3/4" WIDE AND UV RESISTANT, SUCH AS SCOTCH 35 VINYL ELECTRICAL COLOR CODING TAPE.
7. CONTRACTOR SHALL COORDINATE COLOR CODINGS IN THE FIELD WITH VERIZON REPRESENTATIVE.
8. PRIOR TO THE INSTALLATION OF THE PROPOSED EQUIPMENT OR MODIFICATION OF THE EXISTING STRUCTURE, A STRUCTURAL ANALYSIS SHALL BE PERFORMED BY THE OWNER'S AGENT TO CERTIFY THAT THE EXISTING/PROPOSED COMMUNICATION STRUCTURE AND COMPONENTS ARE STRUCTURALLY ADEQUATE TO SUPPORT ALL EXISTING AND PROPOSED ANTENNAS, COAXIAL CABLES AND OTHER APPURTENANCES. THE OWNER'S AGENT SHALL FURNISH A CERTIFICATION LETTER SEALED BY A REGISTERED PROFESSIONAL ENGINEER STATING THAT THIS STRUCTURAL ANALYSIS WAS PREPARED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS.



1 A-2 PROPOSED ANTENNA ORIENTATION PLAN NTS

NOTE:
POST-MODIFICATION INSPECTION (PMI) REQUIRED ON ALL SITES. REFER TO THE MOUNT ANALYSIS PREPARED BY MASER CONSULTING DATED 04/12/2022 FOR ADDITIONAL DETAILS.

NOTE:
REPLACEMENT OF THE EXISTING MOUNT IS REQUIRED BEFORE ANY INSTALL CAN OCCUR, PLEASE REFER TO SHEET 10 AND THE MOUNT ANALYSIS REPORT PROVIDED BY MASER CONSULTING DATED, 04/12/2022

PROPOSED ANTENNA & RRH SCHEDULE

ANTENNA POSITION	ANTENNA MANUFACTURER	ANTENNA MODEL	RAD CENTER	AZIMUTH	DOWN TILT		RRH QUANTITY & MODEL	TECHNOLOGY	CABLE SIZE, LENGTH & QUANTITY
					MECH	ELEC			
A-1	ANTEL	LPA-80063/6CF	140'	10°	2°	0°	-	850 CDMA	(4) 1-5/8" COAX (1) 1.4.3"ø HYBRID CABLE
A-2	JMA WIRELESS	MX06FRO660-03	140'	10°	0°	2°	B2/B66A RRH - BR049	AWS/PCS	
A-3	JMA WIRELESS	MX06FRO660-03	140'	10°	0°	6°	B5/B13 RRH - BR04C	700/850	
A-4	SAMSUNG	MT6407-77A	140'	10°	0°	3°	-	5G	
A-5	ANTEL	LPA-80063/6CF	140'	10°	2°	0°	-	850 CDMA	
B-1	ANTEL	LPA-80063/6CF	140'	110°	4°	0°	-	850 CDMA	(4) 1-5/8" COAX (1) 1.4.3"ø HYBRID CABLE
B-2	JMA WIRELESS	MX06FRO660-03	140'	110°	0°	2°	B2/B66A RRH - BR049	AWS/PCS	
B-3	JMA WIRELESS	MX06FRO660-03	140'	110°	0°	6°	B5/B13 RRH - BR04C	700/850	
B-4	SAMSUNG	MT6407-77A	140'	110°	0°	3°	-	5G	
B-5	ANTEL	LPA-80063/6CF	140'	110°	4°	0°	-	850 CDMA	
G-1	ANTEL	LPA-80063/6CF	140'	240°	4°	0°	-	850 CDMA	(4) 1-5/8" COAX SHARED THROUGH HYBRIFLEX
G-2	JMA WIRELESS	MX06FRO660-03	140'	240°	0°	2°	B2/B66A RRH - BR049	AWS/PCS	
G-3	JMA WIRELESS	MX06FRO660-03	140'	240°	0°	6°	B5/B13 RRH - BR04C	700/850	
G-4	SAMSUNG	MT6407-77A	140'	240°	0°	3°	-	5G	
G-5	ANTEL	LPA-80063/6CF	140'	240°	4°	0°	-	850 CDMA	

NOTES:
1. CONTRACTOR TO VERIFY PROPOSED ANTENNA INFORMATION IS THE MOST CURRENT DATA AT TIME OF CONSTRUCTION.
2. CONTRACTOR TO CONFIRM CABLE LENGTHS PRIOR TO CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE TO BUILD FROM THE LATEST RF SHEET.

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NB+C ENGINEERING SERVICES, LLC.
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SITE INFORMATION
WOODBRIDGE NORTH CT
6 PROGRESS AVENUE
SEYMOUR, CT 06483
TOWN OF SEYMOUR
NEW HAVEN COUNTY

DESIGN RECORD

REVISIONS

REV	DATE	DESCRIPTION	BY
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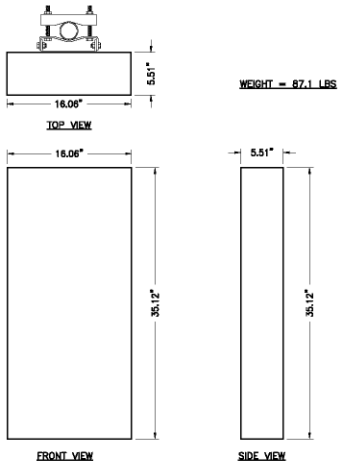
1	01/25/21	FINAL CDs	RAL
0	12/15/20	PRELIMINARY CDs	ALM

PROFESSIONAL STAMP
STATE OF CONNECTICUT DANIEL J. CORNING 34055 LICENSED PROFESSIONAL ENGINEER

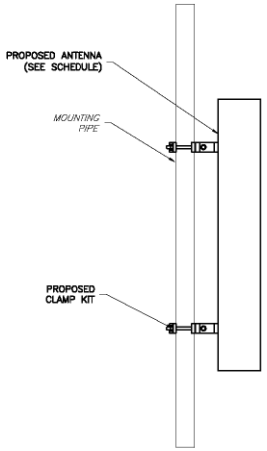
ENGINEER
DANIEL J. CORNING, P.E.
CT PROFESSIONAL ENGINEER LIC. #34055

SHEET TITLE
PROPOSED ANTENNA PLAN & SCHEDULE

SHEET NUMBER
A-2



1 A-3 SAMSUNG MT6407-77A INTEGRATED ANTENNA
NTS



2 A-3 ANTENNA MOUNTING DETAILS
NTS

PROPOSED ANTENNA SPECIFICATIONS

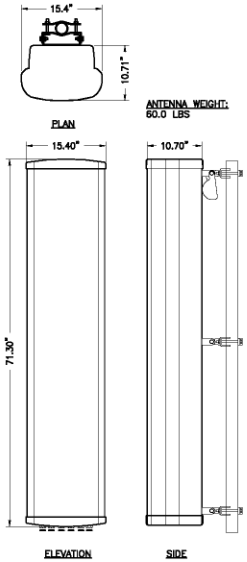
ANTENNA MANUFACTURER	ANTENNA MODEL	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
SAMSUNG	MT6407-77A	3	35.12"	16.06"	5.51"	87.1 LBS
JMA	MX06FRO660-03	6	71.30"	15.40"	10.70"	60.0 LBS

EXISTING ANTENNA SPECIFICATIONS

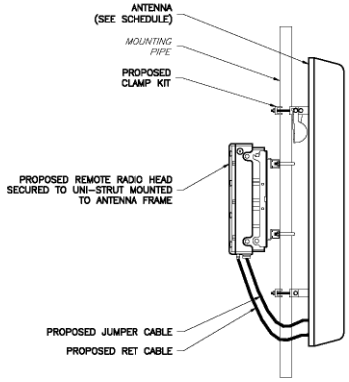
ANTENNA MANUFACTURER	ANTENNA MODEL	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
AMPHENOL	LPA-80063/6CF	6	70.9"	15.0"	13.1"	27.0 LBS
SWEDCOM	* BXA-171063-12BF	3	72.5"	6.1"	4.1"	12.8 LBS
AMPHENOL	* BXA-70063-6CF	1	71.0"	11.2"	5.2"	17.0 LBS
COMMSCOPE	* HBXX-651705-A2M	3	75.0"	12.0"	6.5"	40.8 LBS
COMMSCOPE	* LNX-651405	2	72.9"	11.9"	7.1"	31.3 LBS

* TO BE REMOVED

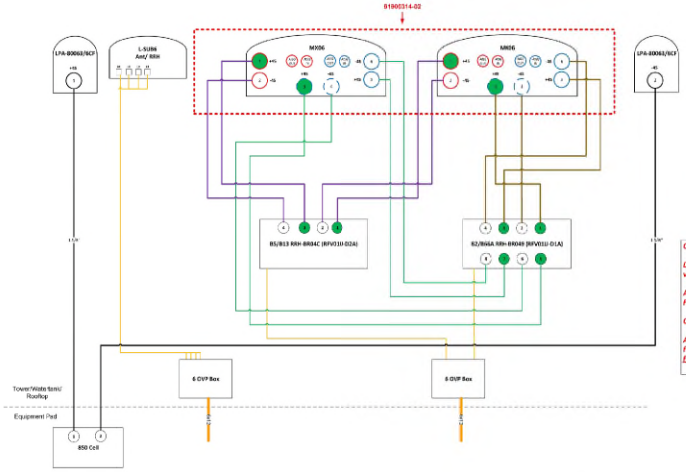
- Port 1 & 2 are for low band (698-896 MHz).
- Port 3,4,5, & 6 are for high band (1695-2360 MHz).
- Smart Bias Tee (SBT) is through port 1 & 3 for low band and port 1 for high band.
- AISG cable is only needed when drawn in the diagrams below, if it is not drawn then SBT is enough to control all RET motors.
- Not all SBT ports are needed to control RET, only green port connection to green port will control RET.



3 A-3 MX06FRO660-03 ANTENNA DETAILS
NTS



4 A-3 ANTENNA MOUNTING DETAILS
NTS



RFDS DATED 11/17/20, 10:12:29

ENGINEER

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100 APOLLO DRIVE SUITE 100 CHELMSFORD, MA 01824 (978) 906-0100

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PROFESSIONAL STAMP

STATE OF CONNECTICUT
DANIEL J. CORNING
34055
LICENSED PROFESSIONAL ENGINEER

ENGINEER

DANIEL J. CORNING, P.E.
CT PROFESSIONAL ENGINEER LIC. #34055

SHEET TITLE

ANTENNA DETAILS & PLUMBING DIAGRAM

SHEET NUMBER

A-3

RRH EQUIPMENT SPECIFICATIONS

	MANUFACTURER	MODEL #	LOCATION	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
PROPOSED EQUIPMENT	NOKIA	AHFIC AIRSCALE DUAL RRH 4T4R B2/B66a 320W	TOWER (RELOCATED)	3	28.74"	15.35"	9.44"	79.4 LBS
	NOKIA	AHBCC AIRSCALE DUAL RRH 4T4R B5/B13 320W	TOWER (RELOCATED)	3	28.74"	15.35"	9.44"	72.8 LBS

	MANUFACTURER	MODEL #	LOCATION	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
EXISTING EQUIPMENT	LUCENT	* B4-AWS 2x60-4R	TOWER	3	36.6"	10.6"	5.75"	55.0 LBS

* TO BE REMOVED

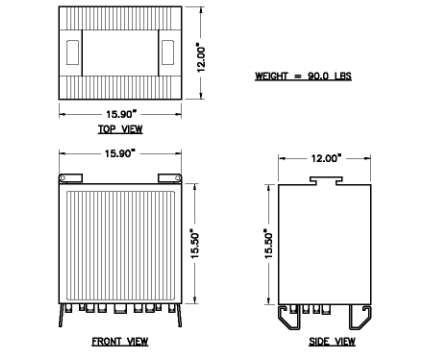
DISTRIBUTION BOX EQUIPMENT SPECIFICATIONS

	MANUFACTURER	MODEL #	LOCATION	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
EXISTING EQUIPMENT	RAYCAP	RRFDC-3315-PF-48	TOWER	2	29.00"	19.73"	10.25"	32.0 LBS

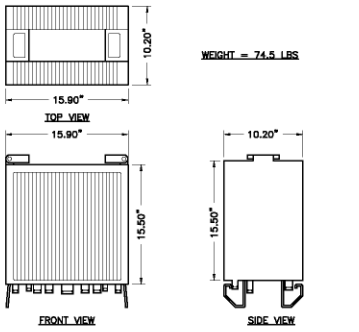
DIPLEXER/COMBINER EQUIPMENT SPECIFICATIONS

	MANUFACTURER	MODEL #	LOCATION	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
EXISTING EQUIPMENT	UNKNOWN	* LB/HB DIPLEXER	TOWER	3	–	–	–	–
	COMMSCOPE	* CBC721-DF-2X	SHELTER	3	7.7"	6.0"	3.7"	11.5 LBS
	COMMSCOPE	* CHB626-43-2X	SHELTER	3	7.1"	14.6"	3.4"	19.4 LBS

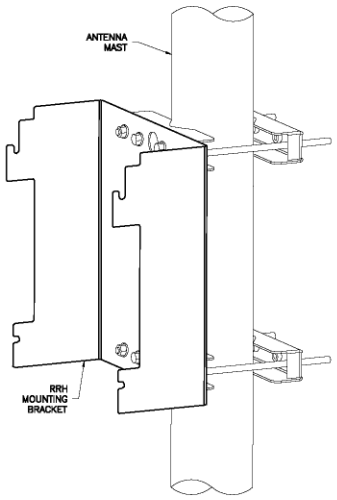
* TO BE REMOVED



1 A-4 SAMSUNG B2/B66A (REMOTE RADIO HEAD)
NTS



2 A-4 SAMSUNG B5/B13 (REMOTE RADIO HEAD)
NTS



3 A-4 RRH MOUNTING DETAIL
NTS

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LICENSED PROFESSIONAL ENGINEER

ENGINEER

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CT PROFESSIONAL ENGINEER LIC. #34055

SHEET TITLE

EQUIPMENT SPECIFICATIONS

SHEET NUMBER

A-4

VERIZON WIRELESS CONTRACTOR SCOPE OF WORK

- VERIZON WIRELESS CONTRACTOR IS TO SUPPLY AND INSTALL THE PROPOSED CABLE JUMPER (WITH LC TO LC CONNECTORS) FROM THE PROPOSED FIBER TRAYS TO THE PROPOSED MAIN DISTRIBUTION BOX (BOTTOM).
- VERIZON WIRELESS CONTRACTOR IS TO SUPPLY AND INSTALL ALL MOUNTING HARDWARE AND 1/2" ANTENNA JUMPER CABLES AS REQUIRED DURING CONSTRUCTION.
- VERIZON WIRELESS CONTRACTOR IS TO MAKE ALL ALARM CONNECTIONS TO THE DISTRIBUTION BOXES AND LEAVE A 40' COIL FOR OTHERS TO PUNCH INTO ALARM BLOCK.
- VERIZON WIRELESS CONTRACTOR IS TO INSTALL (6) RUNS OF HELIAX 1/1 HYBRID CABLE FROM THE EXISTING MAIN DISTRIBUTION BOXES TO THE REMOTE RADIO HEAD UNITS.
- VERIZON WIRELESS CONTRACTOR IS TO SUPPLY AND INSTALL 1/2" ANTENNA JUMPERS FROM EACH PROPOSED REMOTE RADIO HEAD UNIT (RRH) TO THE PROPOSED ANTENNAS IN ALL SECTORS (36 TOTAL 1/2" ANTENNA JUMPERS).
- VERIZON WIRELESS CONTRACTOR IS TO SEAL ALL DISTRIBUTION BOXES AS REQUIRED DURING CONSTRUCTION.
- VERIZON WIRELESS CONTRACTOR IS TO INSTALL THE PROPOSED REMOTE RADIO HEAD UNITS IN ALL SECTORS ON THE ANTENNA PIPE.
- VERIZON WIRELESS CONTRACTOR IS TO GROUND ALL REMOTE RADIO HEAD UNITS (RRH) TO THE EXISTING GROUND BARS AS REQUIRED DURING CONSTRUCTION.
- VERIZON WIRELESS CONTRACTOR IS TO GROUND ALL PROPOSED ANTENNAS TO THE EXISTING GROUND BARS AS REQUIRED DURING CONSTRUCTION.
- VERIZON WIRELESS CONTRACTOR IS TO COMPLETE THE INSTALLATION OF THE PROPOSED ANTENNAS.
- VERIZON WIRELESS CONTRACTOR IS TO PERFORM THE FOLLOWING OPTICAL SWEEP TESTS; OTDR AND OPTICAL LOSS. RECOMMENDED UNITS – ANRITSU MT9090, JDSU, EXFO FTB-1/FTB-720 OTDR.
- VERIZON WIRELESS CONTRACTOR IS TO PERFORM THE FOLLOWING ANTENNA SYSTEM SWEEP TESTS: SYSTEM VZWR / dB RL.
- VERIZON WIRELESS CONTRACTOR IS TO PROVIDE ALL CLOSE OUT DOCUMENTS AS REQUIRED BY VERIZON WIRELESS.

SAMSUNG RRH

- DUAL RRH B2/B66A RFV01DU-D1A HELIAX 1/1 HYBRID CABLE CABLE MUST BE CONNECTED TO THE LO PRIMARY PORT.
- DUAL RRH B5/B13 RFV01DU-D2A HELIAX 1/1 HYBRID CABLE MUST BE CONNECTED TO THE LO PRIMARY PORT.

INTEGRATED ANTENNA

- VZS01 1/1 HYBRID CABLE MUST BE CONNECTED TO OPT1 PORT AND (1) EXTRA FIBER CABLE TO THE SECONDARY OPT2 PORT.

MOP FOR RET INSTALLS

ANTENNA CREW

1. REVIEW ANTENNA SCHEDULE WITH CELL TECH
2. FOR EACH SECTOR, LAY ANTENNAS OUT ON THE GROUND AS THEY WILL BE INSTALLED ACCORDING TO THE ANTENNA SCHEDULE
3. LABELED EACH ANTENNA WITH FACE AND POSITION WITH A SHARPIE (EX:"ALPHA-4")
4. LABEL ALL MOTORS WITH SHARPIE WITH BAND AND TECHNOLOGY (EX:"700LTE", "AWSLTE","PCSLTE","850VOICE", ETC)
5. CONNECT ALL AISG CABLES (INCLUDING JUMPERS THAT WILL BE USED IN FINAL ASSEMBLY) PER THE ANTENNA SCHEDULE
   A. WHEN DAISY CHAINING IS INEVITABLE, AS A GENERAL RULE...
      I. KEEP LOW AND HIGH BANDS ON SEPARATE AISG CHAINS AS MUCH AS POSSIBLE
      II. MINIMIZE AMOUNT OF MOTORS PER CHAIN AS MUCH AS POSSIBLE (MAX IS 6)
   B. WHEN COMPLETED ALL RET MOTOR PORTS NEED TO BE CONNECTED, INCLUDING THE MOTORS NOT BEING USED YET. THE ONLY UNUSED PORT WILL BE THE LAST IN THE DAISY CHAIN, WHICH NEEDS TO BE CAPPED AND WEATHERPROOFED.
6. ON LAPTOP, FILL OUT THE SOFTCOPY OF THE RET DEPLOYMENT FORM AND SAVE IT, REPLACING THE "######" WITH THE 6-DIGIT ENB NUMBER IN THE FILENAME (EX: RET DEPLOYMENT FORM_0981234.XLSX")
7. GIVE A SOFTCOPY OF THE RET DEPLOYMENT FORM TO VZW CELL TECH AND GC/CONSULTANT (EITHER BY EMAIL OR USB STICK)
8. USING THE SAME LAPTOP WHICH HAS THE RET DEPLOYMENT FORM OPENED, CONNECT THE CONTROL MODULE AND PROVISION EACH MOTOR RESPECTIVELY
   NOTE: CREWS MUST USE SOFTWARE THAT IS SPECIFIC TO THE MOTOR TYPE BEING PROVISIONED (IE- JMA SOFTWARE SHOULD ONLY BE SUED FOR JMA MOTORS)
   A. COPY AND PASTE "RET FRIENDLY NAME" FROM SPREADSHEET (COLUMN A) TO THE "SECTOR ID" FIELD OF EACH MOTOR
   B. POPULATE "SET RET TILT"
   C. POPULATE "MECHANICAL TILT"
9. CALIBRATE ALL MOTORS
10. DISCONNECT NECESSARY AISG JUMPERS TO TRANSPORT ANTENNAS SAFELY TO ASSEMBLY
11. INSTALL ANTENNAS ACCORDING TO THE ANTENNA SCHEDULE, USING THE SHARPIE LABELS AS REFERENCE
12. RECONNECT ALL AISG JUMPERS
13. BEFORE PLUGGING INTO EACH RRH, CONNECT MAIN AISG CABLE INTO CONTROLLER TO ENSURE ALL MOTORS ARE STILL SEEN IN THE DAISY CHAIN
14. PLUG AISG INTO RRH AND NOTIFY VZW TECH OF COMPLETION

VZW TECH (USER HELP GUIDE: \\WIN-VZWNET\NORTHEAST\PAPM_IMPLEMENTATION\SYSTEM PERFORMANCE\USERS\MOSERGA\RET\)

15. POWER ON RADIO EQUIPMENT AND RUN ANY NECESSARY WOS
16. "DISCOVER" THE RETS
    A. LOG INTO SAM
       I. VERIFY RET LICENSE ALLOCATION IN SAM
          • ENBEQUIPMENT>ENB>ACTIVATIONSERVICE>ISAISGALLOWED=CHECKED
    B. LOG INTO NEM LOCAL
       I. GO TO TREE VIEW AND HIGHLIGHT RET SUBUNIT
       II. ENABLE BUS SCAN
          • CONFIGURATION> ENABLE AISG BUS SCAN
       III. ALLOCATE CONFIG RIGHTS
          • CONFIGURATION>ALLOCATION CONFIGURATION RIGHTS
       IV. VERIFY CORRECT NUMBER OF RETS ARE DISCOVERED
17. "COMMISSION" THE RETS
    A. LOG INTO NEM LOCAL
       I. STILL IN TREE VIEW, RIGHT CLICK ON "HW MODULES"
       II. SELECT "CREATE RET MO"
       II. RELEASE CONFIG RIGHTS
          • CONFIGURATION>RELEASE CONFIGURATION RIGHTS
       IV. VERIFY RETSUBUNIT:SECTORNAME, ELECTRICAL TILT, AND MECHANICAL TILT ARE POPULATED
18. "PROVISION" THE RETS
    A. LOG INTO SAM
       I. OPEN UP THE ENB PROPERTIES AND COMPLETE A FULL RESYNC
       II. IN THE SEARCH TEXTBOX, SEARCH FOR "RETSUBUNIT"
       III. VERIFY ALL RETS ARE ACCOUNTED FOR AND "RETSUBUNIT:SECTORNAME", "ANTENNAELECTICALTILT", AND "RETSUBUNIT:MECHANICALTILT " ARE ACCURATE

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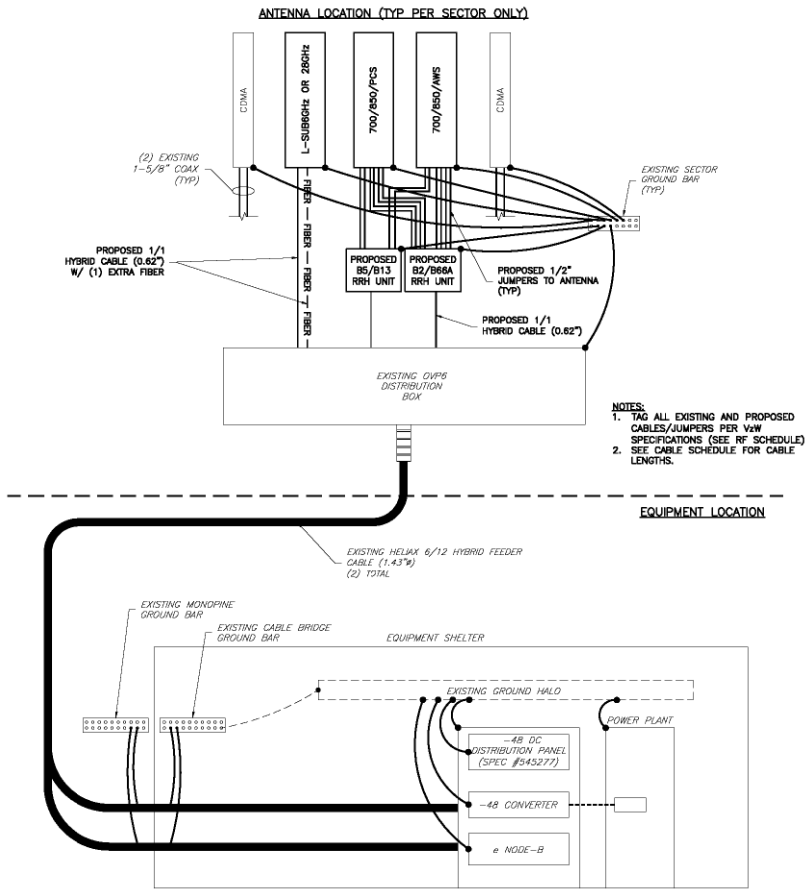
SHEET TITLE

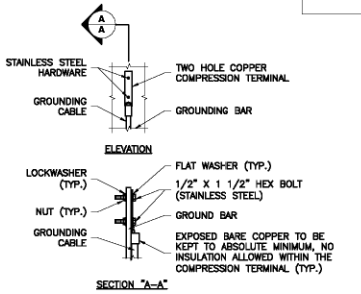
SCOPE OF WORK

SHEET NUMBER

A-5

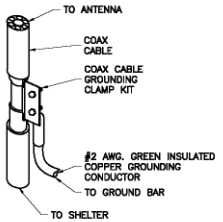


1 G-1 NTS GROUNDING RISER DIAGRAM

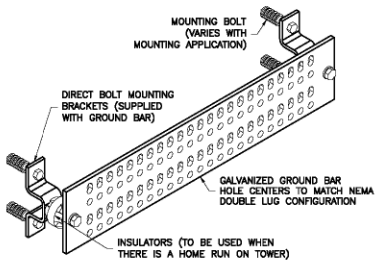


NOTE:
1. "DOUBLING UP" OR "STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

3 G-1 NTS GROUND BAR CONNECTION DETAIL



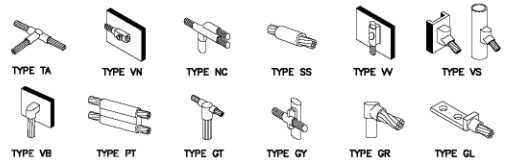
4 G-1 NTS COAX CABLE GROUNDING DETAIL



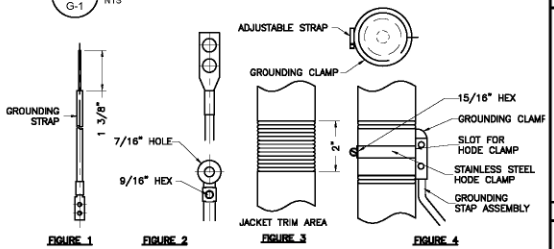
5 G-1 NTS GROUND BAR DETAIL

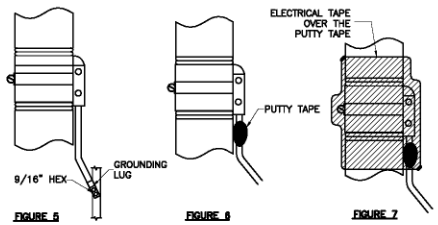
GROUNDING NOTES

1. GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
2. ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
3. ALL WIRES SHALL BE AWG THHN/THWN COPPER UNLESS NOTED OTHERWISE.
4. GROUNDING CONNECTIONS TO GROUND RODS, GROUND RING WIRE, TOWER BASE AND FENCE POSTS SHALL BE EXOTHERMIC ("CADWELDS") UNLESS NOTED OTHERWISE. CLEAN SURFACES TO SHINY METAL. WHERE GROUND WIRES ARE CADWELDED TO GALVANIZED SURFACES, SPRAY CADWELD WITH GALVANIZING PAINT.
5. GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO-HOLE BRASS MECHANICAL CONNECTORS WITH STAINLESS STEEL HARDWARE (INCLUDING SCREW SET) CLEAN GROUND BAR TO SHINY METAL AFTER MECHANICAL CONNECTION, TREAT WITH PROTECTIVE ANTIOXIDANT COATING.
6. GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.
7. ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.
8. INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
9. REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE ("CADWELDS") TO ANTENNA MOUNTS AND GROUND RING. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.
10. ALL GROUND LEADS EXCEPT THOSE TO THE EQUIPMENT ARE TO BE #2 BARE TINNED COPPER WIRE. ALL EXTERIOR GROUND BARS TINNED COPPER.
11. PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUBE INC.). PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL.
12. PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.



2 G-1 NTS CADWELD GROUNDING CONNECTION DETAILS





6 G-1 NTS GROUNDING STRAP WEATHERPROOFING DETAIL

ENGINEER

NB+C
TOTALLY COMMITTED.
NB+C ENGINEERING SERVICES, LLC.
100 APOLLO DRIVE
SUITE 100
CHELMSFORD, MA 01824
(978) 906-6500

APPLICANT

verizon
118 FLANDERS ROAD
FLOOR 3
WESTBOROUGH, MA 01581

SITE INFORMATION

WOODBRIDGE NORTH CT
6 PROGRESS AVENUE
SEYMOUR, CT 06483
TOWN OF SEYMOUR
NEW HAVEN COUNTY

DESIGN RECORD

REVISIONS

REV	DATE	DESCRIPTION	BY
4	5/16/22	ANTENNA REVISIONS	DC
3	5/02/22	REVISED PER MA	KM
2	03/22/21	FINAL CDs	RAL
1	01/29/21	FINAL CDs	RAL
0	12/15/20	PRELIMINARY CDs	ALM

PROFESSIONAL STAMP

STATE OF CONNECTICUT
DANIEL J. CORNING
34055
LICENSED PROFESSIONAL ENGINEER

ENGINEER

DANIEL J. CORNING, P.E.
CT PROFESSIONAL ENGINEER LIC. #34055

SHEET TITLE

GROUNDING SCHEMATIC & DETAILS

SHEET NUMBER

G-1

POST–MODIFICATION INSPECTION (PMI) REQUIREMENT

1. PMI REQUIRED FOR ALL SITES, REFER TO VERIZON NSTD–446 SECTIONS 1.5 AND 2.3 FOR MORE INFORMATION.
2. REFER TO THE MOUNT ANALYSIS BY XXX DATED XXX FOR ADDITIONAL DETAILS.
3. GENERAL CONTRACTOR SHALL PROVIDE THE BELOW DOCUMENTATION TO THE ENGINEER OF RECORD VIA EMAIL TO VZWMOUNTS@NBCLLC.COM, DROPBOX, OR OTHER FILESHARE METHOD. PROVIDE HIGH RESOLUTION PHOTOS (DO NOT COMPRESS).
4. ENGINEER OF RECORD WILL CONDUCT A REVIEW OF THE PROVIDED DOCUMENTS TO PREPARE A PMI REPORT. ENGINEER OF RECORD WILL NOTIFY GENERAL CONTRACTOR IF ANY ADDITIONAL DOCUMENTATION IS REQUIRED TO COMPLETE THE PMI.
5. PMI DOCUMENTATION SHALL BE SUFFICIENT TO CONFIRM THE UPGRADE WAS BUILT AS DESIGNED, INCLUDING EQUIPMENT CHANGES AND STRUCTURAL MODIFICATIONS, AND IS IN ADDITION TO ANY OTHER REQUIRED CLOSEOUT PACKAGE DOCUMENTATION.
6. REQUIRED DOCUMENTATION FOR PMI INCLUDES THE FOLLOWING AT A MINIMUM. REFER TO THE MOUNT ANALYSIS FOR POSSIBLE ADDITIONAL INFORMATION. IF STRUCTURAL MODIFICATIONS ARE REQUIRED, REFER TO THE MODIFICATION DRAWINGS FOR POSSIBLE ADDITIONAL REQUIREMENTS.

6A. PROVIDE PRE–AND–POST CONSTRUCTION PHOTOS OF EACH SECTOR FROM THE MOUNT ELEVATION AND THE GROUND. CONTRACTOR IS RESPONSIBLE FOR ENSURING THE PHOTOS PROVIDED PROVIDE POSITIVE CONFIRMATION THAT THE MODIFICATION/UPGRADE WAS COMPLETED IN ACCORDANCE WITH THESE CONSTRUCTION DRAWINGS AND ANY STRUCTURAL/MOUNT MODIFICATION DRAWINGS. CONTRACTOR SHALL RELAY ANY DATA THAT CAN IMPACT THE PERFORMANCE OF THE MOUNT OR MOUNT MODIFICATION, INCLUDING SAFETY ISSUES. PHOTOS SHALL HAVE A DATE/TIME STAMP IN THE PHOTO. REFER TO THE MOUNT ANALYSIS FOR FILE STRUCTURE SCHEDULE OF PHOTOS. PROVIDE PHOTOS OF THE GATE SIGNS AND CARRIER SHELTER TO IDENTIFY THE TOWER OWNER, SITE NAME, SITE NUMBER, ETC.

6B. VERIFICATION OF THE MEMBER CONNECTIONS, BRACING, AND RELEVANT DIMENSIONS.

6C. VERIFICATION OF THE ANTENNA AND OTHER EQUIPMENT CONFIGURATION (PHOTOS OF MODEL NUMBERS/TAGS FOR ALL EQUIPMENT, AS WELL AS THE FEEDLINE CONFIGURATION). TAKE PHOTOS OF THE BACK SIDE OF EACH SECTOR AS WELL AS CLOSE–UPS OF ALL EQUIPMENT. PHOTOS SHOULD CONFIRM THE HORIZONTAL AND VERTICAL POSITIONING OF THE ANTENNAS AND EQUIPMENT AND SHALL HAVE TAPE MEASURES IN THE PHOTOS TO CONFIRM.

6D. FOR TIE–BACKS, STRUTS, MOUNT PIPES, PHOTOS TO CONFIRM THE ANGLES AND LOCATION OF ATTACHMENT POINT AT BOTH ENDS OF MEMBER, AS WELL AS DIMENSIONS, THICKNESS, AND LENGTHS OF THE MEMBERS. REFER TO THE CHECKLIST IN THE MOUNT ANALYSIS FOR ADDITIONAL INFORMATION.

6E. MOUNT ATTACHMENT TO THE SUPPORTING STRUCTURE, INCLUDING ANY KICKERS OR SUPPORTS, OR TIEBACKS.

6F. MATERIALS USED (TYPE, STRENGTH, DIMENSIONS, ETC). PROVIDE BILL OF MATERIALS AND MATERIAL SPEC TO CONFIRM MATERIAL GRADES AND SIZES. PROVIDE DOCUMENTATION FOR GALVANIZATION OF MEMBERS WHETHER HOT–DIPPED OR COLD–GALVANIZED. IF MATERIALS DIFFER FROM THOSE SPECIFIED ON THESE DRAWINGS, PROVIDE DOCUMENTATION THAT THE "EQUIVALENT" MATERIAL HAS THE SAME SPECIFICATIONS.

6G. MOUNT ORIENTATION/AZIMUTH AND ELEVATION. PROVIDE TAPE DROP PHOTOS OF ANTENNA CENTERLINE(S) AND MOUNT ATTACHMENT POINTS TO THE SUPPORTING STRUCTURE. IF THERE ARE MULTIPLE RAD CENTERS, PROVIDE PHOTOS OF ALL ELEVATIONS.

POST–MODIFICATION INSPECTION (PMI) REQUIREMENT CONT.

6H. VERIFICATION THAT THE INSTALL HAS NOT CAUSED DAMAGE TO OR UNPLANNED OBSTRUCTION OF THE FOLLOWING:

--- CLIMBING FACILITIES
--- SAFETY CLIMB IF PRESENT, INCLUDING PHOTOS ABOVE AND BELOW THE MOUNT.
--- LIGHTING SYSTEM
--- OTHER INSTALLED SYSTEMS ON THE STRUCTURE.
--- CONTRACTOR SHALL ENSURE THE SAFETY CLIMB IS SUPPORTED AND NOT ADVERSELY AFFECTED BY THE INSTALLATION OF NEW COMPONENTS. THIS MAY INVOLVE THE INSTALLATION OF WIRE ROPE GUIDES OR OTHER ITEMS TO PROTECT THE WIRE ROPE.

6I. OTHER ITEMS DETERMINED BY THE STRUCTURAL ENGINEER TO ENSURE THE MOUNT WILL PERFORM AS DESIGNED. PHOTOS OF RELEVANT MEASUREMENTS, WITH SUFFICIENT DETAILS TO CONFIRM CONNECTION DETAILS, PLACEMENT OF EQUIPMENT, WALL ANCHOR DETAILS, BALLAST QUANTITIES, STRUCTURAL MODIFICATIONS ETC. DIAMETERS AND THICKNESSES OF BOLTS/THREADED RODS/ANGLES/TUBES ETC SHALL HAVE PHOTOS CONFIRMING CALIPER MEASUREMENTS.

--- CONFIRMATION THAT ALL HARDWARE WAS PROPERLY INSTALLED, AND EXISTING HARDWARE WAS INSPECTED FOR ANY ISSUES.
--- FOR BALLAST SLEDS, DOCUMENTATION OF THE WEIGHT OF BALLAST IN EACH SECTOR.
--- FOR WALL ANCHORS, PHOTOS AND MEASUREMENTS OF OUTSIDE AND INSIDE OF CONNECTIONS. DOCUMENTATION OF ADHESIVE USED, SIZE AND LENGTH OF ANCHORS, EFFECTIVE EMBEDMENT DEPTH OF THE ANCHORS, GROUTING OF HOLLOW WALLS, SPACING AND EDGE DISTANCE MEASUREMENTS, AND ANY THROUGH–BOLTS OR BACKING PLATES.
--- FOR STUD WELD CONNECTIONS, DOCUMENTATION TO CONFIRM SURFACE PREPARATION, STUD WELD SIZE, GRADE, LENGTH, AND SPACING.
--- FOR FABRICATED PARTS, SHOP DRAWINGS TO BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
--- FOR WELDED PARTS, CERTIFIED WELD INSPECTION.
--- FOR BOLTED PARTS, BOLT INSTALLATION AND TORQUE.

7. CONTRACTOR SHALL PROVIDE, IN ADDITION TO THE ABOVE, AS–BUILT CDS WITH REDLINES IDENTIFYING ANY CHANGES. THE AS–BUILTS SHALL THE CONTRACTOR'S NAME, PREPARER'S SIGNATURE, AND DATE.
8. IF THE MODIFICATION INSTALLATION WOULD FAIL THE PMI ("FAILED PMI"), THE CONTRACTOR SHALL WORK WITH THE ENGINEER OF RECORD TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:

8A. CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENTAL PMI.

8B. OR, WITH THE EOR'S APPROVAL, THE GC MAY WORK WITH THE EOR TO RE–ANALYZE THE MODIFICATION/REINFORCEMENT/UPGRADE USING THE AS–BUILT CONDITION.

9. NOTE: IF LOADING IS DIFFERENT THAN THAT SHOWN IN THESE CONSTRUCTION DRAWINGS OR STRUCTURAL/MOUNT MODIFICATION DRAWINGS, CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY FOR RESOLUTION.
10. THE ENGINEERING FIRM PERFORMING AN ANALYSIS SHALL PROVIDE A CONTRACTOR'S PHOTO LOG AND CHECKLIST TO BE COMPLETED BY THE INSTALLING CONTRACTOR. THE CONTRACTOR SHALL THEN PROVIDE POST–INSTALLATION INFORMATION TO THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER SHALL REVIEW THE DOCUMENTS FOR ANY DEFICIENCIES THAT CAN BE DETERMINED FROM THE DESKTOP REVIEW OF THE DATA. THE ENGINEERING FIRM SHALL THEN PROVIDE DOCUMENTATION TO VZW THAT THE SITE IS COMPLETED, AND THE PMI REPORT IS APPROVED.

ENGINEER

NB+C
TOTALLY COMMITTED.
NB+C ENGINEERING SERVICES, LLC.
100 APOLLO DRIVE
SUITE 309
CHELMSFORD, MA 01824
(978) 906-0100

APPLICANT

verizon
118 FLANDERS ROAD
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SITE INFORMATION

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CT PROFESSIONAL ENGINEER LIC. #34055

SHEET TITLE

PMI REQUIREMENTS

SHEET NUMBER

GN-1

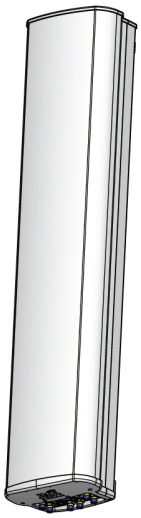
MX06FRO660-03

NWAV™ X-Pol Hex-Port Antenna

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

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

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

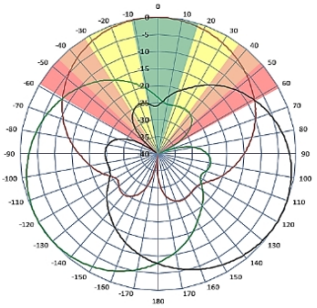


nwav

Fast Roll-Off antennas increase data throughput without compromising coverage

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

Non-FRO antenna



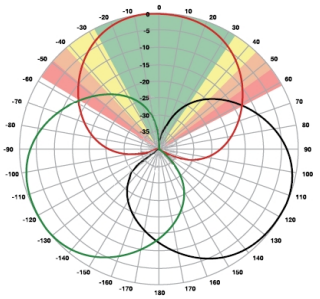
Large traditional antenna pattern overlap creates harmful interference.

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

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

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

JMA FRO antenna



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

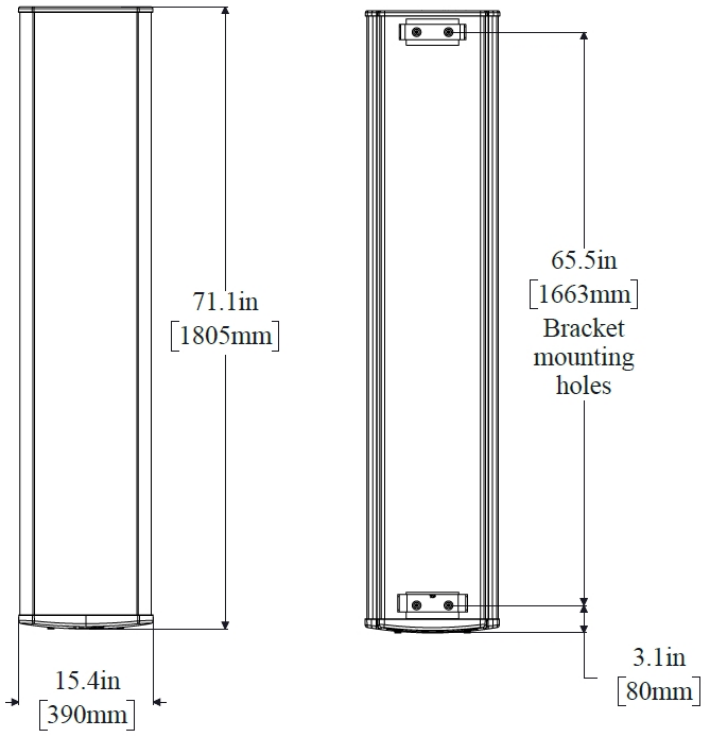
[1] Typical value over frequency and tilt

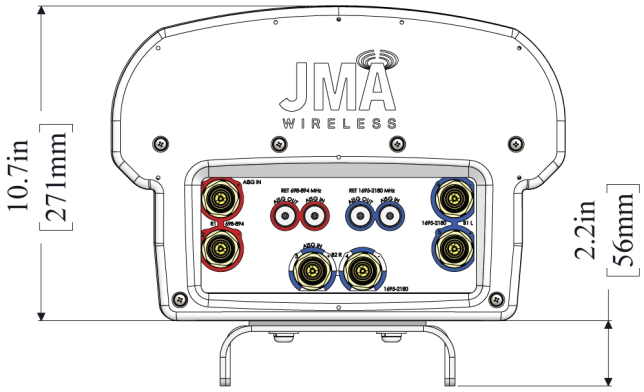
MX06FRO660-03

NWAV™ X-Pol Hex-Port Antenna

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

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





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

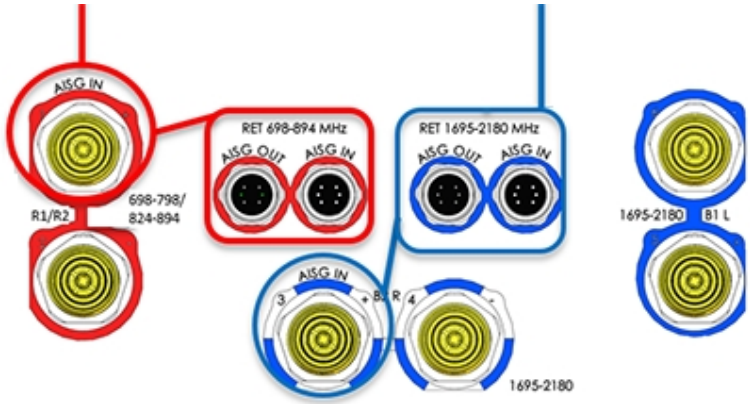
Remote electrical tilt (RET 1000) information	
RET location	Integrated into antenna
RET interface connector type	8-pin AISG connector per IEC 60130-9
RET connector torque	Min 0.5 N·m to max 1.0 N·m (hand pressure & finger tight)
RET interface connector quantity	2 pairs of AISG male/female connectors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

RET and RF connector topology

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

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

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

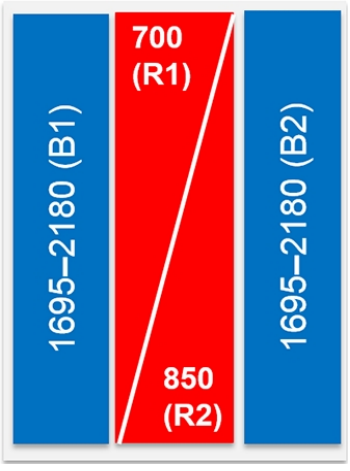


Array topology

3 sets of radiating arrays

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

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



SAMSUNG

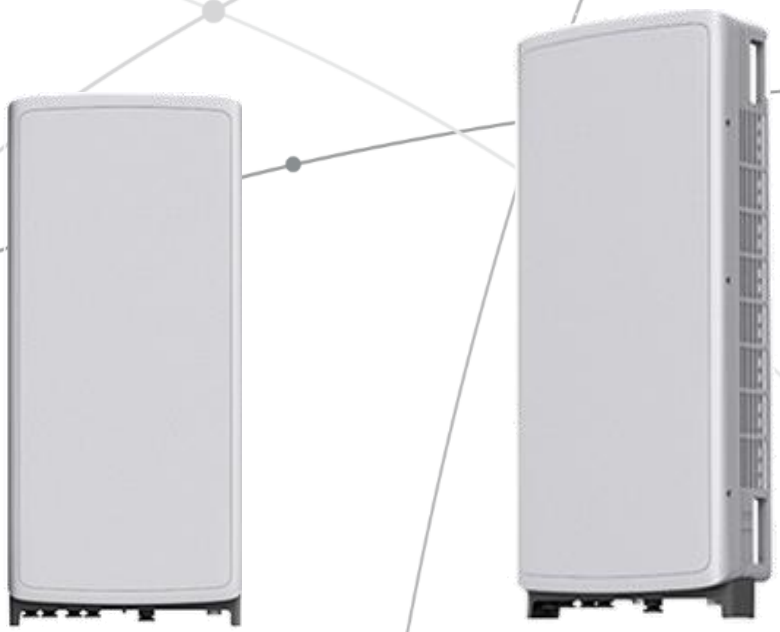
SAMSUNG

C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

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

Model Code : MT6407-77A

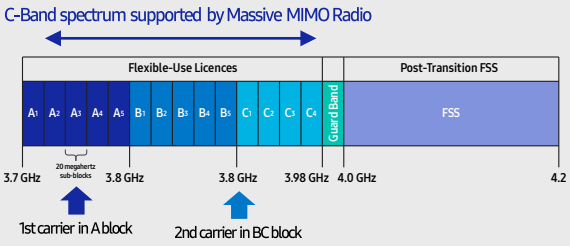


Points of Differentiation

Wide Bandwidth

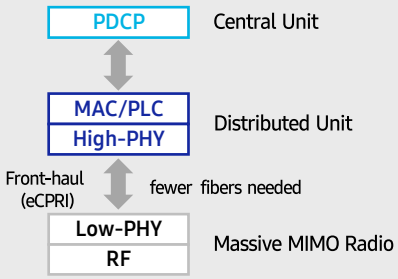
With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

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



Future Proof Product

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



Enhanced Performance

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

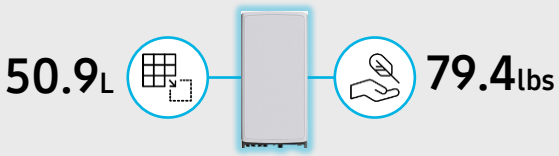
This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

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

Well Matched Design

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

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



Technical Specifications

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

SAMSUNG

About Samsung Electronics Co., Ltd.

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

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

SAMSUNG

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

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

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

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

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

Features and Benefits

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

Key Technical Specifications

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

SAMSUNG

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

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

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

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

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

Features and Benefits

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

Key Technical Specifications

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

ATTACHMENT 3

	General	Power	Density					
Site Name: Wethersfield 3								
Tower Height: Verizon @ 130ft								
CARRIER	**# OF CHAN.**	**WATTS ERP**	**HEIGHT**	**CALC. POWER DENS**	**FREQ.**	**MAX. PERMISS. EXP.**	**FRACTION MPE**	**Total**
AT&T-UMTS	2	419	160	850	0.0127	0.5667	0.22%	
AT&T-UMTS	4	487	160	700	0.0295	0.4667	0.63%	
AT&T-UMTS	2	546	160	850	0.0166	0.5667	0.29%	
AT&T-PCS-UMTS	4	917	160	2300	0.0556	1.0000	0.56%	
AT&T-GSM	4	971	160	1900	0.0589	1.0000	0.59%	
AT&T-WCS-LTE	2	341	160	850	0.0103	0.5667	0.18%	
AT&T-PCS-LTE	2	627	160	700	0.0190	0.4667	0.41%	
AT&T-LTE	4	960	160	2100	0.0582	1.0000	0.58%	
T-Mobile	1	584	247	1900	0.0036	1.0000	0.04%	
T-Mobile	2	1556	247	1900	0.0193	1.0000	0.19%	
T-Mobile	2	2334	247	2100	0.0289	1.0000	0.29%	
T-Mobile	2	2524	247	2500	0.0313	1.0000	0.31%	
T-Mobile	2	2524	247	2500	0.0313	1.0000	0.31%	
T-Mobile	2	789	247	600	0.0098	0.4000	0.24%	
T-Mobile	2	433	247	700	0.0054	0.4667	0.11%	
T-Mobile	2	1469	247	1900	0.0182	1.0000	0.18%	
Sprint	3	693	170	1900	0.0278	1.0000	0.28%	
Sprint	1	390	170	850	0.0052	0.5667	0.09%	
Sprint	2	693	170	2500	0.0185	1.0000	0.19%	
Mike Gardella	12	110	280	1980	0.0063	1.0000	0.06%	
Town	12	80	235	155	0.0066	0.2000	0.33%	
VZW 700	**4**	623	140	0.0046	746	0.4973	**0.92%**	
VZW CDMA	**2**	500	140	0.0018	869	0.5793	**0.32%**	
VZW Cellular	**4**	623	140	0.0046	880	0.5867	**0.78%**	
VZW PCS	**4**	1428	140	0.0105	1,970	1.0000	**1.05%**	
VZW AWS	**4**	1530	140	0.0112	2,145	1.0000	**1.12%**	
VZW CBAND	**1**	26002	140	0.0477	3,700	1.0000	**4.77%**	
								15.06%
* Source: Siting Council								

ATTACHMENT 4

Date: **May 18, 2022**

Andrew Leone
Verizon Wireless
Construction Manager
118 Flanders Rd, Third Floor
Westborough, MA 01581

NB+C Engineering Services
100 Apollo Drive
Suite 303
Chelmsford, MA 01824

Subject:	**Structural Analysis Report**	
Carrier Designation:	***Verizon 5G L-Sub6 – Carrier Add***	
	Verizon Site ID:	1126653
	Verizon Site Name:	Woodbridge North CT
NB+C ES Designation:	**Project Number:**	100765
Site Data:	**6 Progress Ave., Seymour, CT 06483, New Haven County** **Latitude *41° 23' 29.50"*, Longitude *-73° 03' 12.00"*** **280.0 Foot – Self Supporting Tower**	

Dear Mr. Leone,

Network Building + Consulting Engineering Services **("NB+C ES")** is pleased to submit this **"Structural Analysis Report"** to determine the structural integrity of the above-mentioned tower.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure under the following load case, to be:

Existing + Proposed Equipment — **Sufficient Capacity: 65.4%**
Note: See Table 1 for the proposed final loading.

The analysis has been performed in accordance with the *ANSI/TIA-222-G Structural Standard for Antenna Supporting Structures and Antennas, 2018 Connecticut State Building Code*, and local code requirements based upon an ultimate 3-second gust wind speed of 125 mph.

All equipment proposed in this report shall be installed in accordance with the referenced documents for the determined available structural capacity to be effective.

We at ***NB+C Engineering Services*** appreciate the opportunity of providing our continuing professional services to Verizon. If you have any questions or need further assistance on this or any other projects please give us a call.

NB+C ENGINEERING SERVICES, LLC

Structural Analysis prepared by: Nick Smith, P.E.

Respectfully submitted by:

Krupakaran Kolandaivelu, P.E.
Associate Director, Chief Engineer - Structural
CT PE License #PEN.0028997

5/18/2022

TABLE OF CONTENTS

1) INTRODUCTION

This tower is a 280.0 ft self supporting tower located in New Haven County, CT. The tower geometry and existing equipment was based on data available from the structural analysis report by Destek Engineering.

Information ***NB+C ES*** has received for this analysis includes:

- Previous Structural Analysis Report prepared by Destek Engineering (Job No. 1975056) dated May 28, 2019
- RFDS sheet provided by Verizon dated November 17, 2020
- Mount Analysis Report prepared by Maser Consulting dated April 12, 2022

2) ANALYSIS CRITERIA

TIA-222 Revision: TIA-222-G
Building Code: 2018 Connecticut State Building Code (2015 IBC)
Risk Category: II
Wind Speed: 125 mph
Exposure Category: B
Topographic Factor: 1
Ice Thickness: 0.75 in
Ice Wind Speed: 50 mph
Service Wind Speed: 60 mph
Seismic Ss: 0.192
Seismic S1: 0.064

Table 1 - Final Equipment Information

Mounting Level (ft)	Center Line Elevation (ft)	Qty	Antenna Manufacturer	Antenna Model	Qty	Feed Line Size (in)	Carrier
280.0	280.0	1	Decibel	DB420-A	4	1 5/8	Unknown
		1	Decibel	DB586-XC			
		1	-	22-ft Halo Mount			
250.0	250.0	3	Ericsson	AIR32 B66A B2A	9 3	1 5/8 6x12 HCS	T-Mobile
		3	RFS	APXVAARR24_43-U-NA20			
		3	Ericsson	AIR 6488 B41			
		3	Ericsson	Radio 4449 B71/B12			
		3	Ericsson	Radio 4415 B25			
		3	-	15-ft T-Frame Sector Mount			
235.0	245.0	1	Decibel	DB420-A	-	-	Unknown
	235.0	1	Decibel	DB225-2-F			
		1	-	22-ft Halo Mount			
200.0	200.0	9	Decibel	DB980H120E-M	9	1 5/8	Unknown
		3	-	10-ft T-Frame Sector Mount			
190.0	190.0	9	Decibel	DB980H120E-M	9	1 5/8	Unknown
		3	-	10-ft T-Frame Sector Mount			
180.0	180.0	9	Decibel	DB980H120E-M	9	1 5/8	Unknown
		3	-	10-ft T-Frame Sector Mount			
170.0	170.0	3	RFS	APXVSPP18-C-A20	3 1	1 5/8 1 1/4 Hybriflex	Unknown
		3	RFS	APXVTM14-C-120			
		3	Alcatel Lucent	FD-RRH-2x50-800			
		3	Alcatel Lucent	FD-RRH-4x40-1900			
		3	Alcatel Lucent	TD-RRH8x20-25			
		3	-	15-ft T-Frame Sector Mount			

Table 1 - Final Antenna and Cable Information

Mounting Level (ft)	Center Line Elevation (ft)	Qty	Antenna Manufacturer	Antenna Model	Qty	Feed Line Size (in)	Carrier
160.0	160.0	3	Kathrein	800 10121	6 1 2	1 5/8 Fiber DC	Unknown
		3	CCI	HPA65R-BU6A			
		3	Quintel	QS66512-3			
		3	Ericsson	RRUS 11			
		3	Ericsson	RRUS 32			
		3	Ericsson	RRUS 32 B2			
		3	Ericsson	RRUS 4478 B5			
		3	Ericsson	RRUS 4478 B14			
		3	Ericsson	RRUS 4426 B66			
		6	Powerwave	LGP21401			
		3	Raycap	DC6-48-60-18-8F			
		3	-	15-ft T-Frame Sector Mount			
150.0	150.0	3	RFS	APXV18-206517S-C	6	1 5/8	Unknown
		3	-	12.5-ft Sector Mount			
140.0	140.0	**6**	**JMA**	**MX06FRO660-03**	12 2	1 5/8 6x12	Verizon
		3	**Samsung**	**MT6407-77A**			
		3	**Samsung**	**B2/B66A RRH-BR049 RFV01U-D1A**			
		3	**Samsung**	**B5/B13 RRH-BR04C RFV01U-D2A**			
		6	Antel	LPA-80063/6CF			
		2	Raycap	RRFDC-3315-PF-48			
		3	-	12-ft T-Frame Sector Mount			

Notes:
1) Proposed equipment is shown in **bold** print.

3) ANALYSIS PROCEDURE

3.1) Analysis Method

tnxTower (version 8.0.7.5), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in the Appendix A.

3.2) Assumptions

This report is based on the theoretical capacity of the existing tower structure and is not an assessment of the overall suitability of the existing tower structure or its components for any particular use other than specified in this report:

1) Tower and structures were built in accordance with the manufacturer's specifications.
2) The tower and structures have been maintained in accordance with the manufacturer's specification.
3) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Table 1 and the referenced drawings.
4) Tower geometry, existing equipment, and foundation information were obtained from previous structural analysis by Destek Engineering (Job No. 1975056) dated May 28, 2019. If any of this information is inaccurate then the results from analysis are invalid.

This analysis may be affected if any assumptions are not valid or have been made in error. **NB+C Engineering Services** should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 2 - Tower Section Capacity (Summary)

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T1	280 - 270	Leg	1 3/4	2	-7.89	81.93	9.6	Pass
T2	270 - 250	Leg	2	41	-26.93	111.48	24.2	Pass
T3	250 - 230	Leg	2 1/2	107	-70.35	189.74	37.1	Pass
T4	230 - 220	Leg	Pirod 105245	171	-77.36	214.86	36.0	Pass
T5	220 - 200	Leg	Pirod 105218	179	-105.20	300.68	35.0	Pass
T6	200 - 180	Leg	Pirod 105218	194	-132.58	300.68	44.1	Pass
T7	180 - 160	Leg	Pirod 105219	215	-168.13	399.87	42.0	Pass
T8	160 - 140	Leg	Pirod 105220	236	-214.15	512.38	41.8	Pass
T9	140 - 120	Leg	Pirod 105220	254	-261.94	512.38	51.1	Pass
T10	120 - 100	Leg	Pirod 112743	269	-292.10	613.14	47.6	Pass
T11	100 - 80	Leg	Pirod 112743	278	-339.87	613.14	55.4	Pass
T12	80 - 60	Leg	Pirod 112744	287	-383.56	741.99	51.7	Pass
T13	60 - 40	Leg	Pirod 112744	296	-424.45	741.99	57.2	Pass
T14	40 - 20	Leg	Pirod 112745	306	-468.65	883.14	53.1	Pass
T15	20 - 0	Leg	Pirod 112740	315	-503.75	883.14	57.0	Pass
T1	280 - 270	Diagonal	7/8	14	-1.75	7.87	22.2	Pass
T2	270 - 250	Diagonal	7/8	52	-2.30	7.79	29.5	Pass
T3	250 - 230	Diagonal	1	116	-5.02	13.51	37.1	Pass
T4	230 - 220	Diagonal	L2 1/2x2 1/2x3/16	174	-5.48	13.38	40.9 52.7 (b)	Pass
T5	220 - 200	Diagonal	L3x3x3/16	183	-5.18	17.29	29.9 48.5 (b)	Pass
T6	200 - 180	Diagonal	L3x3x3/16	204	-7.67	14.78	51.9 65.4 (b)	Pass
T7	180 - 160	Diagonal	L3x3x5/16	225	-9.87	19.26	51.2	Pass
T8	160 - 140	Diagonal	L3 1/2x3 1/2x5/16	243	-9.91	25.06	39.5 48.3 (b)	Pass
T9	140 - 120	Diagonal	L3 1/2x3 1/2x5/16	258	-10.98	20.49	53.6 55.6 (b)	Pass
T10	120 - 100	Diagonal	2L3 1/2x3 1/2x5/16	275	-16.95	52.58	32.2	Pass
T11	100 - 80	Diagonal	2L3 1/2x3 1/2x5/16	282	-16.78	48.27	34.8	Pass
T12	80 - 60	Diagonal	2L3 1/2x3 1/2x5/16	291	-16.42	44.30	37.1	Pass
T13	60 - 40	Diagonal	2L3 1/2x3 1/2x5/16	302	-17.58	40.67	43.2	Pass
T14	40 - 20	Diagonal	2L3 1/2x3 1/2x5/16	309	-16.05	37.36	43.0	Pass
T15	20 - 0	Diagonal	2L3 1/2x3 1/2x5/16	320	-20.04	34.37	58.3	Pass
T1	280 - 270	Horizontal	7/8	32	-0.17	3.91	4.4	Pass
T2	270 - 250	Horizontal	7/8	98	-0.33	3.94	8.3	Pass
T3	250 - 230	Horizontal	7/8	162	-0.61	4.01	15.1	Pass
T1	280 - 270	Top Girt	1	5	-0.71	6.67	10.7	Pass
T2	270 - 250	Top Girt	1	43	-0.80	6.73	11.8	Pass
T3	250 - 230	Top Girt	1 1/4	109	-1.46	16.71	8.7	Pass
T6	200 - 180	Top Girt	L3x3x3/16	198	-2.71	13.65	19.8 33.4 (b)	Pass
T7	180 - 160	Top Girt	L4x4x1/4	219	-4.13	25.75	16.0 32.3 (b)	Pass
T8	160 - 140	Top Girt	L3 1/2x3 1/2x5/16	240	-3.39	13.88	24.4	Pass
T1	280 - 270	Bottom Girt	1	9	-0.68	6.67	10.2	Pass
T2	270 - 250	Bottom Girt	1	45	-0.90	6.73	13.3	Pass
T3	250 - 230	Bottom Girt	1 1/4	111	-0.92	16.71	5.5	Pass
T1	280 - 270	Mid Girt	1	10	0.13	35.34	0.4	Pass
T2	270 - 250	Mid Girt	1	48	-0.18	6.73	2.7	Pass
T6	200 - 180	Mid Girt	L3x3x3/16	201	-3.19	10.33	30.8 40.9 (b)	Pass
T7	180 - 160	Mid Girt	L4x4x1/4	222	-4.32	20.85	20.7 34.2 (b)	Pass
							Summary	
						Leg (T13)	57.2	Pass
						Diagonal (T6)	65.4	Pass
						Horizontal (T3)	15.1	Pass
						Top Girt (T6)	33.4	Pass

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
						Bottom Girt (T2)	13.3	Pass
						Mid Girt (T6)	40.9	Pass
						Bolt Checks	65.4	Pass
						RATING =	**65.4**	**Pass**

Notes:
1) See additional documentation in "Appendix A - tnxTower Output & Additional Calculations" for calculations supporting the % capacity consumed.

Table 3 – Foundation Analysis Results

Component	Elevation (ft)	% Capacity	Pass/Fail
Anchor Rods	-	34.8	Pass
Foundation – Soil Interaction	-	57.8	Pass
Foundation - Structural	-	28.8	Pass

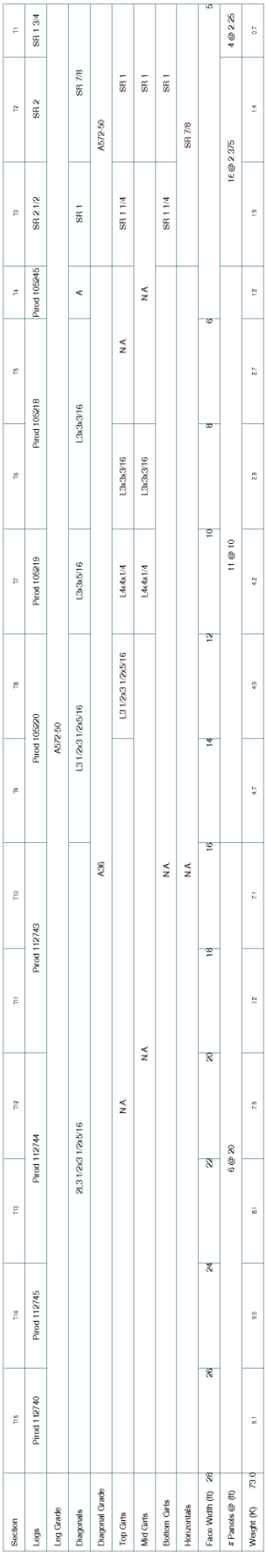
Structure Rating (max from all components) =	65.4%

4.1) Recommendations

- The tower has sufficient capacity to support the proposed loading configuration. Modifications are not required at this time. The foundation is assumed to be accurate based of a reaction comparison using design results obtained from the previous structural analysis prepared by Destek Engineering (Job No. 1975056) dated May 28, 2019. If foundation design data is unavailable, it is recommended that a subsurface investigation take place in order to obtain a structural capacity for the foundation.

APPENDIX A

TNXTOWER OUTPUT & ADDITIONAL CALCULATIONS



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Beacon	280	800 10121 w/ Mount Pipe	160
Lightning Rod 5/8x6'	280	HPA65R-BU6A w/ Mount Pipe	160
DB420-A	280	HPA65R-BU6A w/ Mount Pipe	160
DB586-XC	280	HPA65R-BU6A w/ Mount Pipe	160
Sector Mount [SM 412-1]	280	QS66512-3 w/ Mount Pipe	160
APXVAARR24_43-U-NA20 w/ Mount Pipe	250	QS66512-3 w/ Mount Pipe	160
APXVAARR24_43-U-NA20 w/ Mount Pipe	250	QS66512-3 w/ Mount Pipe	160
APXVAARR24_43-U-NA20 w/ Mount Pipe	250	RRUS 11	160
AIR 32 B66A/B2A w/ Mount Pipe	250	RRUS 11	160
AIR 32 B66A/B2A w/ Mount Pipe	250	RRUS 11	160
AIR 32 B66A/B2A w/ Mount Pipe	250	RRUS 32	160
AIR 6468 B41 w/ Mount Pipe	250	RRUS 32	160
AIR 6468 B41 w/ Mount Pipe	250	RRUS 32	160
AIR 6468 B41 w/ Mount Pipe	250	RRUS 32 B2	160
RADIO 4449 B12/B71	250	RRUS 32 B2	160
RADIO 4449 B12/B71	250	RRUS 32 B2	160
RADIO 4449 B12/B71	250	RRUS 4478 B5	160
RADIO 4415 B25	250	RRUS 4478 B5	160
RADIO 4415 B25	250	RRUS 4478 B5	160
RADIO 4415 B25	250	RRUS 4478 B14	160
Sector Mount [SM 408-3]	250	RRUS 4478 B14	160
Sector Mount [SM 412-1]	235	RRUS 4478 B14	160
DB420-A	235	RRUS 4426 B66	160
DB586-XC	235	RRUS 4426 B66	160
(3) DB980H120E-M w/ Mount Pipe	200	RRUS 4426 B66	160
(3) DB980H120E-M w/ Mount Pipe	200	(2) LGP21401	160
(3) DB980H120E-M w/ Mount Pipe	200	(2) LGP21401	160
Sector Mount [SM 405-3]	200	(2) LGP21401	160
(3) DB980H120E-M w/ Mount Pipe	190	DC6-48-60-18-8F	160
(3) DB980H120E-M w/ Mount Pipe	190	DC6-48-60-18-8F	160
(3) DB980H120E-M w/ Mount Pipe	190	DC6-48-60-18-8F	160
Sector Mount [SM 405-3]	190	Sector Mount [SM 408-3]	160
(3) DB980H120E-M w/ Mount Pipe	180	APXV18-206517S-C w/ Mount Pipe	150
(3) DB980H120E-M w/ Mount Pipe	180	APXV18-206517S-C w/ Mount Pipe	150
(3) DB980H120E-M w/ Mount Pipe	180	APXV18-206517S-C w/ Mount Pipe	150
Sector Mount [SM 405-3]	180	Sector Mount [SM 406-3]	150
APXVSPP18-C-A20 w/ Mount Pipe	170	(2) MX06FRO660-03 w/ Mount Pipe	140
APXVSPP18-C-A20 w/ Mount Pipe	170	(2) MX06FRO660-03 w/ Mount Pipe	140
APXVSPP18-C-A20 w/ Mount Pipe	170	(2) MX06FRO660-03 w/ Mount Pipe	140
APXVTM14-C-120 w/ Mount Pipe	170	L-Sub6 Antenna w/ Mount Pipe	140
APXVTM14-C-120 w/ Mount Pipe	170	L-Sub6 Antenna w/ Mount Pipe	140
APXVTM14-C-120 w/ Mount Pipe	170	L-Sub6 Antenna w/ Mount Pipe	140
FD-RRH-2x50-800	170	RFV01U-D1A	140
FD-RRH-2x50-800	170	RFV01U-D1A	140
FD-RRH-2x50-800	170	RFV01U-D1A	140
1900MHZ 4X40W RRH	170	RFV01U-D2A	140
1900MHZ 4X40W RRH	170	RFV01U-D2A	140
1900MHZ 4X40W RRH	170	RFV01U-D2A	140
TD-RRH8X20-25	170	(2) LPA-80063/6CF w/ Mount Pipe	140
TD-RRH8X20-25	170	(2) LPA-80063/6CF w/ Mount Pipe	140
TD-RRH8X20-25	170	(2) LPA-80063/6CF w/ Mount Pipe	140
Sector Mount [SM 408-3]	170	RxxDC-3315-PF-48	140
800 10121 w/ Mount Pipe	160	RxxDC-3315-PF-48	140
800 10121 w/ Mount Pipe	160	Sector Mount [SM 406-3]	140

SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	L2 1/2x2 1/2x3/16		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

TOWER DESIGN NOTES

1. Tower designed for Exposure B to the TIA-222-G Standard.
2. Tower designed for a 97 mph basic wind in accordance with the TIA-222-G Standard.
3. Tower is also designed for a 50 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Structure Class II.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. Antenna elevations shown above are for mount elevations; differences between mount elevations and antennas have been accounted for using vertical options in the program columns in the report.
8. TOWER RATING: 65.4%

ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:
DOWN: 526 K
SHEAR: 55 K

UPLIFT: -437 K
SHEAR: 47 K

AXIAL 309 K
SHEAR 25 K *MOMENT 3821 kip-ft*

TORQUE 13 kip-ft
50 mph WIND - 0.7500 in ICE

AXIAL 126 K
SHEAR 82 K *MOMENT 11733 kip-ft*

TORQUE 45 kip-ft
REACTIONS - 97 mph WIND

NB+C TOTALLY COMMITTED. Consulting Engineers
Network Building + Consulting
8601 Six Forks Road, Suite 540
Raleigh, NC 27615
Phone: 919.657.9131
FAX:

Job:	*Woodbridge North CT*
Project:	*NB+C ES Project Number 100765*
Client: Verizon	Drawn by: nsmith App'd:
Code: TIA-222-G	Date: 12/14/20 Scale: NTS
Path:	Dwg No. E-1

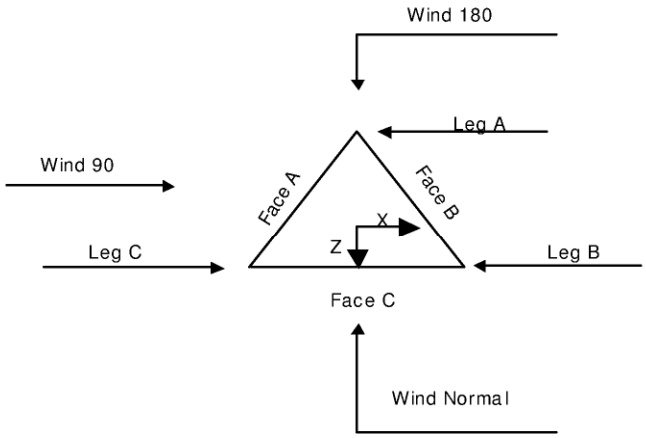
Tower Input Data

The main tower is a 3x free standing tower with an overall height of 280.00 ft above the ground line.
The base of the tower is set at an elevation of 0.00 ft above the ground line.
The face width of the tower is 5.00 ft at the top and 28.00 ft at the base.
This tower is designed using the TIA-222-G standard.
The following design criteria apply:

ASCE 7-10 Wind Data is used (wind speeds converted to nominal values).
Basic wind speed of 97 mph.
Structure Class II.
Exposure Category B.
Topographic Category 1.
Crest Height 0.00 ft.
Nominal ice thickness of 0.7500 in.
Ice thickness is considered to increase with height.
Ice density of 56 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50 °F.
Deflections calculated using a wind speed of 60 mph.
Antenna elevations shown above are for mount elevations; differences between mount elevations and antennas have been accounted for using vertical options in the program columns in the report..
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in tower member design is 1.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

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



Triangular Tower

Tower Section Geometry

Tower Section	Tower Elevation ft	Assembly Database	Description	Section Width ft	Number of Sections	Section Length ft
T1	280.00-270.00			5.00	1	10.00
T2	270.00-250.00			5.00	1	20.00
T3	250.00-230.00			5.00	1	20.00
T4	230.00-220.00			5.00	1	10.00
T5	220.00-200.00			6.00	1	20.00
T6	200.00-180.00			8.00	1	20.00
T7	180.00-160.00			10.00	1	20.00
T8	160.00-140.00			12.00	1	20.00
T9	140.00-120.00			14.00	1	20.00
T10	120.00-100.00			16.00	1	20.00
T11	100.00-80.00			18.00	1	20.00
T12	80.00-60.00			20.00	1	20.00
T13	60.00-40.00			22.00	1	20.00
T14	40.00-20.00			24.00	1	20.00
T15	20.00-0.00			26.00	1	20.00

Tower Section Geometry *(cont'd)*

Tower Section	Tower Elevation ft	Diagonal Spacing ft	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset in	Bottom Girt Offset in

Tower Section	Tower Elevation ft	Diagonal Spacing ft	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset in	Bottom Girt Offset in
T1	280.00-270.00	2.25	X Brace	No	Steps	5.5000	6.5000
T2	270.00-250.00	2.38	X Brace	No	Steps	5.5000	6.5000
T3	250.00-230.00	2.38	X Brace	No	Steps	5.5000	6.5000
T4	230.00-220.00	10.00	X Brace	No	No	0.0000	0.0000
T5	220.00-200.00	10.00	X Brace	No	No	0.0000	0.0000
T6	200.00-180.00	10.00	X Brace	No	No	0.0000	0.0000
T7	180.00-160.00	10.00	X Brace	No	No	0.0000	0.0000
T8	160.00-140.00	10.00	X Brace	No	No	0.0000	0.0000
T9	140.00-120.00	10.00	X Brace	No	No	0.0000	0.0000
T10	120.00-100.00	20.00	X Brace	No	No	0.0000	0.0000
T11	100.00-80.00	20.00	X Brace	No	No	0.0000	0.0000
T12	80.00-60.00	20.00	X Brace	No	No	0.0000	0.0000
T13	60.00-40.00	20.00	X Brace	No	No	0.0000	0.0000
T14	40.00-20.00	20.00	X Brace	No	No	0.0000	0.0000
T15	20.00-0.00	20.00	X Brace	No	No	0.0000	0.0000

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 280.00-270.00	Solid Round	1 3/4	A572-50 (50 ksi)	Solid Round	7/8	A572-50 (50 ksi)
T2 270.00-250.00	Solid Round	2	A572-50 (50 ksi)	Solid Round	7/8	A572-50 (50 ksi)
T3 250.00-230.00	Solid Round	2 1/2	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T4 230.00-220.00	Truss Leg	Pirod 105245	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T5 220.00-200.00	Truss Leg	Pirod 105218	A572-50 (50 ksi)	Equal Angle	L3x3x3/16	A36 (36 ksi)
T6 200.00-180.00	Truss Leg	Pirod 105218	A572-50 (50 ksi)	Equal Angle	L3x3x3/16	A36 (36 ksi)
T7 180.00-160.00	Truss Leg	Pirod 105219	A572-50 (50 ksi)	Equal Angle	L3x3x5/16	A36 (36 ksi)
T8 160.00-140.00	Truss Leg	Pirod 105220	A572-50 (50 ksi)	Equal Angle	L3 1/2x3 1/2x5/16	A36 (36 ksi)
T9 140.00-120.00	Truss Leg	Pirod 105220	A572-50 (50 ksi)	Equal Angle	L3 1/2x3 1/2x5/16	A36 (36 ksi)
T10 120.00-100.00	Truss Leg	Pirod 112743	A572-50 (50 ksi)	Double Equal Angle	2L3 1/2x3 1/2x5/16	A36 (36 ksi)
T11 100.00-80.00	Truss Leg	Pirod 112743	A572-50 (50 ksi)	Double Equal Angle	2L3 1/2x3 1/2x5/16	A36 (36 ksi)
T12 80.00-60.00	Truss Leg	Pirod 112744	A572-50 (50 ksi)	Double Equal Angle	2L3 1/2x3 1/2x5/16	A36 (36 ksi)
T13 60.00-40.00	Truss Leg	Pirod 112744	A572-50 (50 ksi)	Double Equal Angle	2L3 1/2x3 1/2x5/16	A36 (36 ksi)
T14 40.00-20.00	Truss Leg	Pirod 112745	A572-50 (50 ksi)	Double Equal Angle	2L3 1/2x3 1/2x5/16	A36 (36 ksi)
T15 20.00-0.00	Truss Leg	Pirod 112740	A572-50 (50 ksi)	Double Equal Angle	2L3 1/2x3 1/2x5/16	A36 (36 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 280.00-270.00	Solid Round	1	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T2 270.00-250.00	Solid Round	1	A572-50 (50 ksi)	Solid Round	1	A572-50 (50 ksi)
T3 250.00-230.00	Solid Round	1 1/4	A572-50 (50 ksi)	Solid Round	1 1/4	A572-50 (50 ksi)
T6 200.00-180.00	Equal Angle	L3x3x3/16	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T7 180.00-160.00	Equal Angle	L4x4x1/4	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T8 160.00-140.00	Equal Angle	L3 1/2x3 1/2x5/16	A36 (36 ksi)	Solid Round		A36 (36 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
T1 280.00-270.00	1	Solid Round	1	A572-50 (50 ksi)	Solid Round	7/8	A572-50 (50 ksi)
T2 270.00-250.00	1	Solid Round	1	A572-50 (50 ksi)	Solid Round	7/8	A572-50 (50 ksi)
T3 250.00 230.00	None	Flat Bar		A36 (36 ksi)	Solid Round	7/8	A572 50 (50 ksi)
T6 200.00-180.00	1	Equal Angle	L3x3x3/16	A36 (36 ksi)	Single Angle		A572-50 (50 ksi)
T7 180.00-160.00	1	Equal Angle	L4x4x1/4	A36 (36 ksi)	Single Angle		A572-50 (50 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
T1 280.00-270.00	0.00	0.0000	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000
T2 270.00-250.00	0.00	0.0000	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000
T3 250.00-230.00	0.00	0.0000	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000
T4 230.00-220.00	0.00	0.0000	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000
T5 220.00-200.00	0.00	0.0000	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000
T6	0.00	0.0000	A36	1	1	1	36.0000	36.0000	36.0000

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
200.00-180.00			(36 ksi)						
T7	0.00	0.0000	A36	1	1	1	36.0000	36.0000	36.0000
180.00-160.00			(36 ksi)						
T8	0.00	0.0000	A36	1	1	1	36.0000	36.0000	36.0000
160.00-140.00			(36 ksi)						
T9	0.00	0.0000	A36	1	1	1	36.0000	36.0000	36.0000
140.00-120.00			(36 ksi)						
T10	0.00	0.0000	A36	1	1	1	36.0000	36.0000	36.0000
120.00-100.00			(36 ksi)						
T11	0.00	0.0000	A36	1	1	1	36.0000	36.0000	36.0000
100.00-80.00			(36 ksi)						
T12	0.00	0.0000	A36	1	1	1	36.0000	36.0000	36.0000
80.00-60.00			(36 ksi)						
T13	0.00	0.0000	A36	1	1	1	36.0000	36.0000	36.0000
60.00-40.00			(36 ksi)						
T14	0.00	0.0000	A36	1	1	1	36.0000	36.0000	36.0000
40.00-20.00			(36 ksi)						
T15 20.00-0.00	0.00	0.0000	A36	1	1	1	36.0000	36.0000	36.0000
			(36 ksi)						

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	K Factors[1] Legs	X Brace Diags X Y	K Brace Diags X Y	Single Diags X Y	Girts X Y	Horiz. X Y	Sec. Horiz. X Y	Inner Brace X Y
T1	Yes	Yes	1	1	1	1	1	1	1	1
280.00-270.00				1	1	1	1	1	1	1
T2	Yes	Yes	1	1	1	1	1	1	1	1
270.00-250.00				1	1	1	1	1	1	1
T3	Yes	Yes	1	1	1	1	1	1	1	1
250.00-230.00				1	1	1	1	1	1	1
T4	Yes	Yes	1	1	1	1	1	1	1	1
230.00-220.00				1	1	1	1	1	1	1
T5	Yes	Yes	1	1	1	1	1	1	1	1
220.00-200.00				1	1	1	1	1	1	1
T6	Yes	Yes	1	1	1	1	1	1	1	1
200.00-180.00				1	1	1	1	1	1	1
T7	Yes	Yes	1	1	1	1	1	1	1	1
180.00-160.00				1	1	1	1	1	1	1
T8	Yes	Yes	1	1	1	1	1	1	1	1
160.00-140.00				1	1	1	1	1	1	1
T9	Yes	Yes	1	1	1	1	1	1	1	1
140.00 120.00				1	1	1	1	1	1	1
T10	Yes	Yes	1	1	1	1	1	1	1	1
120.00-100.00				1	1	1	1	1	1	1
T11	Yes	Yes	1	1	1	1	1	1	1	1
100.00-80.00				1	1	1	1	1	1	1
T12	Yes	Yes	1	1	1	1	1	1	1	1
80.00-60.00				1	1	1	1	1	1	1
T13	Yes	Yes	1	1	1	1	1	1	1	1
60.00-40.00				1	1	1	1	1	1	1
T14	Yes	Yes	1	1	1	1	1	1	1	1

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	Legs	K Factors[1] X Brace Diags X Y	K Brace Diags X Y	Single Diags X Y	Girts X Y	Horiz. X Y	Sec. Horiz. X Y	Inner Brace X Y
40.00-20.00				1	1	1	1	1	1	1
T15	Yes	Yes	1	1	1	1	1	1	1	1
20.00-0.00				1	1	1	1	1	1	1

[1]*Note: K factors are applied to member segment lengths. K-braces without inner supporting members will have the K factor in the out-of-plane direction applied to the overall length.*

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Truss-Leg K Factors: Truss-Legs Used As Leg Members: Leg Panels	X Brace Diagonals	Z Brace Diagonals	Truss-Legs Used As Inner Members: Leg Panels	X Brace Diagonals	Z Brace Diagonals
T4 230.00-220.00	1	0.5	0.85	1	0.5	0.85
T5 220.00-200.00	1	0.5	0.85	1	0.5	0.85
T6 200.00-180.00	1	0.5	0.85	1	0.5	0.85
T7 180.00-160.00	1	0.5	0.85	1	0.5	0.85
T8 160.00-140.00	1	0.5	0.85	1	0.5	0.85
T9 140.00-120.00	1	0.5	0.85	1	0.5	0.85
T10 120.00-100.00	1	0.5	0.85	1	0.5	0.85
T11 100.00-80.00	1	0.5	0.85	1	0.5	0.85
T12 80.00-60.00	1	0.5	0.85	1	0.5	0.85
T13 60.00-40.00	1	0.5	0.85	1	0.5	0.85
T14 40.00-20.00	1	0.5	0.85	1	0.5	0.85
T15 20.00-0.00	1	0.5	0.85	1	0.5	0.85

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg: Net Width Deduct in	U	Diagonal: Net Width Deduct in	U	Top Girt: Net Width Deduct in	U	Bottom Girt: Net Width Deduct in	U	Mid Girt: Net Width Deduct in	U	Long Horizontal: Net Width Deduct in	U	Short Horizontal: Net Width Deduct in	U
T1 280.00-270.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	1	0.0000	0.75

Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T2 270.00-250.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	1	0.0000	0.75
T3 250.00-230.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	1	0.0000	0.75
T4 230.00-220.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75
T5 220.00-200.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75
T6 200.00-180.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75
T7 180.00-160.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75
T8 160.00-140.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75
T9 140.00-120.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75
T10 120.00-100.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75
T11 100.00-80.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75
T12 80.00-60.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75
T13 60.00-40.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75
T14 40.00-20.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75
T15 20.00-0.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 280.00-270.00	Sleeve DS	0.6250 A325N	5	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T2 270.00-250.00	Sleeve DS	0.7500 A325N	5	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T3 250.00-230.00	Flange	1.0000 A325N	6	1.0000 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T4 230.00-220.00	Flange	1.0000 A325N	6	1.0000 A325N	1	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T5 220.00-200.00	Flange	1.0000 A325N	6	1.0000 A325N	1	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T6 200.00-180.00	Flange	1.0000 A325N	6	1.0000 A325N	1	1.0000 A325N	1	0.6250 A325N	0	1.0000 A325N	1	0.6250 A325N	0	0.6250 A325N	0
T7 180.00-160.00	Flange	1.2500 A325N	6	1.2500 A325N	1	1.2500 A325N	1	0.6250 A325N	0	1.2500 A325N	1	0.6250 A325N	0	0.6250 A325N	0
T8 160.00-140.00	Flange	1.2500 A325N	6	1.2500 A325N	1	1.2500 A325N	1	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T9	Flange	1.2500	6	1.2500	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
140.00-120.00		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T10	Flange	1.2500	12	1.0000	2	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
120.00-100.00		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T11	Flange	1.2500	12	1.0000	2	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
100.00-80.00		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T12	Flange	1.2500	12	1.0000	2	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
80.00-60.00		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T13	Flange	1.2500	12	1.0000	2	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
60.00-40.00		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T14	Flange	1.2500	12	1.0000	2	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
40.00-20.00		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T15 20.00-0.00	Flange	0.7500	0	1.0000	2	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
LDF7-50A (1-5/8 FOAM) ***	C	No	No	Ar (CaAa)	280.00 - 12.00	-12.0000	0.47	4	2	0.7500	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	A	No	No	Ar (CaAa)	250.00 - 12.00	-12.0000	0.45	9	8	0.7500	1.9800		0.82
HCS 6X12 4AWG(1-5/8) ***	C	No	No	Ar (CaAa)	0.00 - 12.00	-8.0000	0.46	3	3	1.6600	1.6600		2.40
LDF7-50A (1-5/8 FOAM) ***	B	No	No	Ar (CaAa)	200.00 - 12.00	-15.0000	0.45	9	3	0.7500	1.9800		0.82
LDF7-50A (1-5/8 FOAM) ***	C	No	No	Ar (CaAa)	190.00 - 12.00	-12.0000	0.45	9	5	0.7500	1.9800		0.82
LDF7-50A (1-5/8 FOAM) ***	C	No	No	Ar (CaAa)	180.00 - 12.00	-12.0000	0.43	9	5	0.7500	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	A	No	No	Ar (CaAa)	170.00 - 12.00	-12.0000	0.45	3	3	0.7500	1.9800		0.82
HCS 6X12 4AWG(1-5/8) ***	A	No	No	Ar (CaAa)	170.00 - 12.00	0.0000	0.42	1	1	1.6600	1.6600		2.40
LDF7-50A (1-5/8 FOAM)	A	No	No	Ar (CaAa)	160.00 - 12.00	-12.0000	0.45	6	6	0.7500	1.9800		0.82
Fiber Cable (1/4")	C	No	No	Ar (CaAa)	160.00 - 12.00	-8.0000	0.49	1	1	0.2500	0.2500		0.03
DC Power ***	C	No	No	Ar (CaAa)	160.00 - 12.00	-8.0000	0.49	1	1	0.8700	0.8700		0.15
LDF7-50A (1-5/8 FOAM) ***	A	No	No	Ar (CaAa)	150.00 - 12.00	-8.0000	0.4	6	2	0.7500	1.9800		0.82
LDF7-50A	B	No	No	Ar (CaAa)	140.00 -	-6.0000	0.45	12	12	0.7500	1.9800		0.82

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
(1-5/8 FOAM)					12.00								
HCS 6X12 4AWG(1-5/8)	B	No	No	Ar (CaAa)	140.00 - 12.00	-6.0000	0.46	1	1	1.6600	1.6600		2.40

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
T1	280.00-270.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	7.920	0.000	0.03
T2	270.00-250.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	15.840	0.000	0.07
T3	250.00-230.00	A	0.000	0.000	35.640	0.000	0.15
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	15.840	0.000	0.07
T4	230.00-220.00	A	0.000	0.000	17.820	0.000	0.07
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	7.920	0.000	0.03
T5	220.00-200.00	A	0.000	0.000	35.640	0.000	0.15
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	15.840	0.000	0.07
T6	200.00-180.00	A	0.000	0.000	35.640	0.000	0.15
		B	0.000	0.000	35.640	0.000	0.15
		C	0.000	0.000	33.660	0.000	0.14
T7	180.00-160.00	A	0.000	0.000	43.240	0.000	0.20
		B	0.000	0.000	35.640	0.000	0.15
		C	0.000	0.000	87.120	0.000	0.36
T8	160.00-140.00	A	0.000	0.000	86.480	0.000	0.39
		B	0.000	0.000	35.640	0.000	0.15
		C	0.000	0.000	89.360	0.000	0.36
T9	140.00-120.00	A	0.000	0.000	98.360	0.000	0.44
		B	0.000	0.000	86.480	0.000	0.39
		C	0.000	0.000	89.360	0.000	0.36
T10	120.00-100.00	A	0.000	0.000	98.360	0.000	0.44
		B	0.000	0.000	86.480	0.000	0.39
		C	0.000	0.000	89.360	0.000	0.36
T11	100.00-80.00	A	0.000	0.000	98.360	0.000	0.44
		B	0.000	0.000	86.480	0.000	0.39
		C	0.000	0.000	89.360	0.000	0.36
T12	80.00-60.00	A	0.000	0.000	98.360	0.000	0.44
		B	0.000	0.000	86.480	0.000	0.39
		C	0.000	0.000	89.360	0.000	0.36
T13	60.00-40.00	A	0.000	0.000	98.360	0.000	0.44
		B	0.000	0.000	86.480	0.000	0.39
		C	0.000	0.000	89.360	0.000	0.36
T14	40.00-20.00	A	0.000	0.000	98.360	0.000	0.44
		B	0.000	0.000	86.480	0.000	0.39
		C	0.000	0.000	89.360	0.000	0.36
T15	20.00-0.00	A	0.000	0.000	39.344	0.000	0.18
		B	0.000	0.000	34.592	0.000	0.16
		C	0.000	0.000	41.720	0.000	0.23

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
T1	280.00-270.00	A	1.854	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	14.882	0.000	0.23
T2	270.00-250.00	A	1.844	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	29.691	0.000	0.46
T3	250.00-230.00	A	1.829	0.000	0.000	65.312	0.000	1.07
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	29.587	0.000	0.46
T4	230.00-220.00	A	1.817	0.000	0.000	32.619	0.000	0.53
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	14.752	0.000	0.23
T5	220.00-200.00	A	1.805	0.000	0.000	65.159	0.000	1.06
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	29.415	0.000	0.46
T6	200.00-180.00	A	1.787	0.000	0.000	65.045	0.000	1.05
		B		0.000	0.000	38.940	0.000	0.82
		C		0.000	0.000	52.337	0.000	0.89
T7	180.00-160.00	A	1.767	0.000	0.000	85.467	0.000	1.34
		B		0.000	0.000	38.800	0.000	0.82
		C		0.000	0.000	121.080	0.000	2.18
T8	160.00-140.00	A	1.745	0.000	0.000	172.439	0.000	2.64
		B		0.000	0.000	38.645	0.000	0.81
		C		0.000	0.000	136.832	0.000	2.36
T9	140.00-120.00	A	1.720	0.000	0.000	188.770	0.000	2.90
		B		0.000	0.000	138.328	0.000	2.35
		C		0.000	0.000	136.125	0.000	2.33
T10	120.00-100.00	A	1.692	0.000	0.000	187.910	0.000	2.86
		B		0.000	0.000	137.851	0.000	2.32
		C		0.000	0.000	135.314	0.000	2.30
T11	100.00-80.00	A	1.658	0.000	0.000	186.895	0.000	2.82
		B		0.000	0.000	137.287	0.000	2.29
		C		0.000	0.000	134.356	0.000	2.26
T12	80.00-60.00	A	1.617	0.000	0.000	185.654	0.000	2.76
		B		0.000	0.000	136.598	0.000	2.24
		C		0.000	0.000	133.185	0.000	2.22
T13	60.00-40.00	A	1.564	0.000	0.000	184.043	0.000	2.68
		B		0.000	0.000	135.702	0.000	2.19
		C		0.000	0.000	131.662	0.000	2.16
T14	40.00-20.00	A	1.486	0.000	0.000	181.700	0.000	2.58
		B		0.000	0.000	134.399	0.000	2.11
		C		0.000	0.000	129.448	0.000	2.08
T15	20.00-0.00	A	1.331	0.000	0.000	70.825	0.000	0.95
		B		0.000	0.000	52.727	0.000	0.78
		C		0.000	0.000	67.698	0.000	1.03

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
T1	280.00-270.00	-6.2398	1.2602	-2.4443	0.4937

Section	Elevation	CP_X	CP_Z	CP_X Ice	CP_Z Ice
	ft	in	in	in	in
T2	270.00-250.00	-6.1506	1.2422	-2.7537	0.5562
T3	250.00-230.00	-1.7591	-9.1172	-1.2806	-4.5295
T4	230.00-220.00	-1.2178	-6.1334	-0.5837	-2.0288
T5	220.00-200.00	-2.0483	-8.3770	-1.4416	-4.2495
T6	200.00-180.00	-2.6014	-4.5192	-1.8042	-2.5968
T7	180.00-160.00	-12.0014	-4.8171	-8.8543	-3.8057
T8	160.00-140.00	-12.5871	-14.3041	-11.7504	-12.5853
T9	140.00-120.00	-7.2632	-8.4908	-6.7832	-7.7235
T10	120.00-100.00	-8.2197	-9.5628	-7.4133	-8.4445
T11	100.00-80.00	-9.1015	-10.6520	-8.1990	-9.3888
T12	80.00-60.00	-9.8464	-11.5836	-8.9130	-10.2721
T13	60.00-40.00	-10.6478	-12.5858	-9.6104	-11.1612
T14	40.00-20.00	-11.2806	-13.3853	-10.2388	-12.0162
T15	20.00-0.00	-9.5027	-7.1254	-10.6677	-5.7677

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T1	1	LDF7-50A (1-5/8 FOAM)	270.00 - 280.00	0.6000	0.4303
T2	1	LDF7-50A (1-5/8 FOAM)	250.00 - 270.00	0.6000	0.4777
T3	1	LDF7-50A (1-5/8 FOAM)	230.00 - 250.00	0.6000	0.4795
T3	3	LDF7-50A (1-5/8 FOAM)	230.00 - 250.00	0.6000	0.4795
T4	1	LDF7-50A (1-5/8 FOAM)	220.00 - 230.00	0.6000	0.2579
T4	3	LDF7-50A (1-5/8 FOAM)	220.00 - 230.00	0.6000	0.2579
T5	1	LDF7-50A (1-5/8 FOAM)	200.00 - 220.00	0.6000	0.4038
T5	3	LDF7-50A (1-5/8 FOAM)	200.00 - 220.00	0.6000	0.4038
T6	1	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.4642
T6	3	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.4642
T6	6	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.4642
T6	8	LDF7-50A (1-5/8 FOAM)	180.00 - 190.00	0.6000	0.4642
T7	1	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.5206
T7	3	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.5206
T7	6	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.5206
T7	8	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.5206
T7	10	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.5206
T7	12	LDF7-50A (1-5/8 FOAM)	160.00 - 170.00	0.6000	0.5206

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T7	13	HCS 6X12 4AWG(1-5/8)	160.00 - 170.00	0.6000	0.5206
T8	1	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.5841
T8	3	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.5841
T8	6	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.5841
T8	8	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.5841
T8	10	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.5841
T8	12	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.5841
T8	13	HCS 6X12 4AWG(1-5/8)	140.00 - 160.00	0.6000	0.5841
T8	15	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.5841
T8	16	Fiber Cable (1/4")	140.00 - 160.00	0.6000	0.5841
T8	17	DC Power	140.00 - 160.00	0.6000	0.5841
T8	19	LDF7-50A (1-5/8 FOAM)	140.00 - 150.00	0.6000	0.5841
T9	1	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.6000
T9	3	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.6000
T9	6	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.6000
T9	8	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.6000
T9	10	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.6000
T9	12	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.6000
T9	13	HCS 6X12 4AWG(1-5/8)	120.00 - 140.00	0.6000	0.6000
T9	15	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.6000
T9	16	Fiber Cable (1/4")	120.00 - 140.00	0.6000	0.6000
T9	17	DC Power	120.00 - 140.00	0.6000	0.6000
T9	19	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.6000
T9	21	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.6000
T9	22	HCS 6X12 4AWG(1-5/8)	120.00 - 140.00	0.6000	0.6000
T10	1	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.6000
T10	3	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.6000
T10	6	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.6000
T10	8	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.6000
T10	10	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.6000
T10	12	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T10	13	HCS 6X12 4AWG(1-5/8)	100.00 - 120.00	0.6000	0.6000
T10	15	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.6000
T10	16	Fiber Cable (1/4")	100.00 - 120.00	0.6000	0.6000
T10	17	DC Power	100.00 - 120.00	0.6000	0.6000
T10	19	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.6000
T10	21	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.6000
T10	22	HCS 6X12 4AWG(1-5/8)	100.00 - 120.00	0.6000	0.6000
T11	1	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T11	3	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T11	6	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T11	8	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T11	10	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T11	12	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T11	13	HCS 6X12 4AWG(1-5/8)	80.00 - 100.00	0.6000	0.6000
T11	15	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T11	16	Fiber Cable (1/4")	80.00 - 100.00	0.6000	0.6000
T11	17	DC Power	80.00 - 100.00	0.6000	0.6000
T11	19	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T11	21	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T11	22	HCS 6X12 4AWG(1-5/8)	80.00 - 100.00	0.6000	0.6000
T12	1	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T12	3	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T12	6	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T12	8	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T12	10	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T12	12	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T12	13	HCS 6X12 4AWG(1-5/8)	60.00 - 80.00	0.6000	0.6000
T12	15	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T12	16	Fiber Cable (1/4")	60.00 - 80.00	0.6000	0.6000
T12	17	DC Power	60.00 - 80.00	0.6000	0.6000
T12	19	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T12	21	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T12	22	HCS 6X12 4AWG(1-5/8)	60.00 - 80.00	0.6000	0.6000
T13	1	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T13	3	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T13	6	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T13	8	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T13	10	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T13	12	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T13	13	HCS 6X12 4AWG(1-5/8)	40.00 - 60.00	0.6000	0.6000
T13	15	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T13	16	Fiber Cable (1/4")	40.00 - 60.00	0.6000	0.6000
T13	17	DC Power	40.00 - 60.00	0.6000	0.6000
T13	19	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T13	21	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T13	22	HCS 6X12 4AWG(1-5/8)	40.00 - 60.00	0.6000	0.6000
T14	1	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T14	3	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T14	6	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T14	8	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T14	10	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T14	12	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T14	13	HCS 6X12 4AWG(1-5/8)	20.00 - 40.00	0.6000	0.6000
T14	15	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T14	16	Fiber Cable (1/4")	20.00 - 40.00	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T14	17	DC Power	20.00 - 40.00	0.6000	0.6000
T14	19	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T14	21	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T14	22	HCS 6X12 4AWG(1-5/8)	20.00 - 40.00	0.6000	0.6000
T15	1	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.6000
T15	3	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.6000
T15	4	HCS 6X12 4AWG(1-5/8)	0.00 - 12.00	0.6000	0.6000
T15	6	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.6000
T15	8	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.6000
T15	10	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.6000
T15	12	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.6000
T15	13	HCS 6X12 4AWG(1-5/8)	12.00 - 20.00	0.6000	0.6000
T15	15	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.6000
T15	16	Fiber Cable (1/4")	12.00 - 20.00	0.6000	0.6000
T15	17	DC Power	12.00 - 20.00	0.6000	0.6000
T15	19	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.6000
T15	21	LDF7-50A (1-5/8 FOAM)	12.00 - 20.00	0.6000	0.6000
T15	22	HCS 6X12 4AWG(1-5/8)	12.00 - 20.00	0.6000	0.6000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
Beacon	B	None		0.0000	280.00	No Ice	2.70	2.70	0.05
						1/2" Ice	3.10	3.10	0.07
						1" Ice	3.50	3.50	0.09
Lightning Rod 5/8x6'	B	None		0.0000	280.00	No Ice	0.38	0.38	0.05
						1/2" Ice	0.99	0.99	0.05
						1" Ice	1.60	1.60	0.05
***									
DB420-A	B	From Leg	8.00 0.00 0.00	0.0000	280.00	No Ice 1/2" Ice 1" Ice	3.33 5.99 8.66	3.33 5.99 8.66	0.03 0.04 0.05
DB586-XC	B	From Leg	8.00 0.00 0.00	0.0000	280.00	No Ice 1/2" Ice 1" Ice	1.01 1.28 1.56	1.01 1.28 1.56	0.01 0.02 0.03
Sector Mount [SM 412-1]	C	None		0.0000	280.00	No Ice	70.47	70.47	3.08
						1/2" Ice	100.14	100.14	4.50
						1" Ice	129.81	129.81	5.92
***									
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	3.00 0.00 0.00	0.0000	250.00	No Ice 1/2" Ice 1" Ice	14.69 15.46 16.23	6.87 7.55 8.25	0.19 0.31 0.46
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	3.00 0.00 0.00	0.0000	250.00	No Ice 1/2" Ice 1" Ice	14.69 15.46 16.23	6.87 7.55 8.25	0.19 0.31 0.46
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	3.00 0.00 0.00	0.0000	250.00	No Ice 1/2" Ice 1" Ice	14.69 15.46 16.23	6.87 7.55 8.25	0.19 0.31 0.46
AIR 32 B66A/B2A w/ Mount	A	From Leg	3.00	0.0000	250.00	No Ice	6.81	6.14	0.15

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft	Offsets: Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
Pipe			0.00				1/2" Ice	7.30	6.99	0.22
			0.00				1" Ice	7.76	7.73	0.28
AIR 32 B66A/B2A w/ Mount Pipe	B	From Leg	3.00	0.00	0.0000	250.00	No Ice	6.81	6.14	0.15
			0.00				1/2" Ice	7.30	6.99	0.22
			0.00				1" Ice	7.76	7.73	0.28
AIR 32 B66A/B2A w/ Mount Pipe	C	From Leg	3.00	0.00	0.0000	250.00	No Ice	6.81	6.14	0.15
			0.00				1/2" Ice	7.30	6.99	0.22
			0.00				1" Ice	7.76	7.73	0.28
AIR 6468 B41 w/ Mount Pipe	A	From Leg	3.00	0.00	0.0000	250.00	No Ice	6.26	3.61	0.15
			0.00				1/2" Ice	6.65	4.10	0.20
			0.00				1" Ice	7.05	4.61	0.26
AIR 6468 B41 w/ Mount Pipe	B	From Leg	3.00	0.00	0.0000	250.00	No Ice	6.26	3.61	0.15
			0.00				1/2" Ice	6.65	4.10	0.20
			0.00				1" Ice	7.05	4.61	0.26
AIR 6468 B41 w/ Mount Pipe	C	From Leg	3.00	0.00	0.0000	250.00	No Ice	6.26	3.61	0.15
			0.00				1/2" Ice	6.65	4.10	0.20
			0.00				1" Ice	7.05	4.61	0.26
RADIO 4449 B12/B71	A	From Leg	3.00	0.00	0.0000	250.00	No Ice	1.64	1.15	0.08
			0.00				1/2" Ice	1.80	1.29	0.09
			0.00				1" Ice	1.97	1.44	0.11
RADIO 4449 B12/B71	B	From Leg	3.00	0.00	0.0000	250.00	No Ice	1.64	1.15	0.08
			0.00				1/2" Ice	1.80	1.29	0.09
			0.00				1" Ice	1.97	1.44	0.11
RADIO 4449 B12/B71	C	From Leg	3.00	0.00	0.0000	250.00	No Ice	1.64	1.15	0.08
			0.00				1/2" Ice	1.80	1.29	0.09
			0.00				1" Ice	1.97	1.44	0.11
RADIO 4415 B25	A	From Leg	3.00	0.00	0.0000	250.00	No Ice	1.84	0.82	0.05
			0.00				1/2" Ice	2.01	0.94	0.06
			0.00				1" Ice	2.19	1.07	0.08
RADIO 4415 B25	B	From Leg	3.00	0.00	0.0000	250.00	No Ice	1.84	0.82	0.05
			0.00				1/2" Ice	2.01	0.94	0.06
			0.00				1" Ice	2.19	1.07	0.08
RADIO 4415 B25	C	From Leg	3.00	0.00	0.0000	250.00	No Ice	1.84	0.82	0.05
			0.00				1/2" Ice	2.01	0.94	0.06
			0.00				1" Ice	2.19	1.07	0.08
Sector Mount [SM 408-3]	C	None			0.0000	250.00	No Ice	22.45	22.45	1.02
							1/2" Ice	33.50	33.50	1.47
							1" Ice	44.55	44.55	1.93
***										
Sector Mount [SM 412-1]	A	None			0.0000	235.00	No Ice	70.47	70.47	3.08
							1/2" Ice	100.14	100.14	4.50
							1" Ice	129.81	129.81	5.92
DB420-A	B	From Leg	8.00	0.00	0.0000	235.00	No Ice	3.33	3.33	0.03
			0.00				1/2" Ice	5.99	5.99	0.04
			9.00				1" Ice	8.66	8.66	0.05
DB586-XC	A	From Leg	8.00	0.00	0.0000	235.00	No Ice	1.01	1.01	0.01
			0.00				1/2" Ice	1.28	1.28	0.02
			0.00				1" Ice	1.56	1.56	0.03
***										
(3) DB980H120E-M w/ Mount Pipe	A	From Leg	3.00	0.00	0.0000	200.00	No Ice	3.99	3.60	0.03
			0.00				1/2" Ice	4.45	4.46	0.07
			0.00				1" Ice	4.90	5.19	0.11
(3) DB980H120E-M w/ Mount Pipe	B	From Leg	3.00	0.00	0.0000	200.00	No Ice	3.99	3.60	0.03
			0.00				1/2" Ice	4.45	4.46	0.07
			0.00				1" Ice	4.90	5.19	0.11
(3) DB980H120E-M w/ Mount Pipe	C	From Leg	3.00	0.00	0.0000	200.00	No Ice	3.99	3.60	0.03
			0.00				1/2" Ice	4.45	4.46	0.07

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00			1" Ice	4.90	5.19	0.11
Sector Mount [SM 405-3]	A	None		0.0000	200.00	No Ice	18.73	18.73	0.86
						1/2" Ice	27.19	27.19	1.26
						1" Ice	35.65	35.65	1.66
***									
(3) DB980H120E-M w/ Mount Pipe	A	From Leg	3.00 0.00 0.00	0.0000	190.00	No Ice 1/2" Ice 1" Ice	3.99 4.45 4.90	3.60 4.46 5.19	0.03 0.07 0.11
(3) DB980H120E-M w/ Mount Pipe	B	From Leg	3.00 0.00 0.00	0.0000	190.00	No Ice 1/2" Ice 1" Ice	3.99 4.45 4.90	3.60 4.46 5.19	0.03 0.07 0.11
(3) DB980H120E-M w/ Mount Pipe	C	From Leg	3.00 0.00 0.00	0.0000	190.00	No Ice 1/2" Ice 1" Ice	3.99 4.45 4.90	3.60 4.46 5.19	0.03 0.07 0.11
Sector Mount [SM 405-3]	A	None		0.0000	190.00	No Ice 1/2" Ice 1" Ice	18.73 27.19 35.65	18.73 27.19 35.65	0.86 1.26 1.66
***									
(3) DB980H120E-M w/ Mount Pipe	A	From Leg	3.00 0.00 0.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice	3.99 4.45 4.90	3.60 4.46 5.19	0.03 0.07 0.11
(3) DB980H120E-M w/ Mount Pipe	B	From Leg	3.00 0.00 0.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice	3.99 4.45 4.90	3.60 4.46 5.19	0.03 0.07 0.11
(3) DB980H120E-M w/ Mount Pipe	C	From Leg	3.00 0.00 0.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice	3.99 4.45 4.90	3.60 4.46 5.19	0.03 0.07 0.11
Sector Mount [SM 405-3]	A	None		0.0000	180.00	No Ice 1/2" Ice 1" Ice	18.73 27.19 35.65	18.73 27.19 35.65	0.86 1.26 1.66
***									
APXVSPP18-C-A20 w/ Mount Pipe	A	From Leg	3.00 0.00 0.00	0.0000	170.00	No Ice 1/2" Ice 1" Ice	4.60 5.05 5.50	4.01 4.45 4.89	0.10 0.16 0.23
APXVSPP18-C-A20 w/ Mount Pipe	B	From Leg	3.00 0.00 0.00	0.0000	170.00	No Ice 1/2" Ice 1" Ice	4.60 5.05 5.50	4.01 4.45 4.89	0.10 0.16 0.23
APXVSPP18-C-A20 w/ Mount Pipe	C	From Leg	3.00 0.00 0.00	0.0000	170.00	No Ice 1/2" Ice 1" Ice	4.60 5.05 5.50	4.01 4.45 4.89	0.10 0.16 0.23
APXVTM14-C-120 w/ Mount Pipe	A	From Leg	3.00 0.00 0.00	0.0000	170.00	No Ice 1/2" Ice 1" Ice	4.09 4.48 4.88	2.86 3.23 3.61	0.08 0.13 0.19
APXVTM14-C-120 w/ Mount Pipe	B	From Leg	3.00 0.00 0.00	0.0000	170.00	No Ice 1/2" Ice 1" Ice	4.09 4.48 4.88	2.86 3.23 3.61	0.08 0.13 0.19
APXVTM14-C-120 w/ Mount Pipe	C	From Leg	3.00 0.00 0.00	0.0000	170.00	No Ice 1/2" Ice 1" Ice	4.09 4.48 4.88	2.86 3.23 3.61	0.08 0.13 0.19
FD-RRH-2x50-800	A	From Leg	3.00 0.00 0.00	0.0000	170.00	No Ice 1/2" Ice 1" Ice	2.13 2.32 2.51	2.49 2.68 2.89	0.06 0.09 0.12
FD-RRH-2x50-800	B	From Leg	3.00 0.00 0.00	0.0000	170.00	No Ice 1/2" Ice 1" Ice	2.13 2.32 2.51	2.49 2.68 2.89	0.06 0.09 0.12
FD-RRH-2x50-800	C	From Leg	3.00 0.00	0.0000	170.00	No Ice 1/2" Ice	2.13 2.32	2.49 2.68	0.06 0.09

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00			1" Ice	2.51	2.89	0.12
1900MHZ 4X40W RRH	A	From Leg	3.00	0.0000	170.00	No Ice	2.32	2.24	0.06
			0.00			1/2" Ice	2.53	2.44	0.08
			0.00			1" Ice	2.74	2.65	0.11
1900MHZ 4X40W RRH	B	From Leg	3.00	0.0000	170.00	No Ice	2.32	2.24	0.06
			0.00			1/2" Ice	2.53	2.44	0.08
			0.00			1" Ice	2.74	2.65	0.11
1900MHZ 4X40W RRH	C	From Leg	3.00	0.0000	170.00	No Ice	2.32	2.24	0.06
			0.00			1/2" Ice	2.53	2.44	0.08
			0.00			1" Ice	2.74	2.65	0.11
TD-RRH8X20-25	A	From Leg	3.00	0.0000	170.00	No Ice	3.70	1.29	0.07
			0.00			1/2" Ice	3.95	1.46	0.09
			0.00			1" Ice	4.20	1.64	0.12
TD-RRH8X20-25	B	From Leg	3.00	0.0000	170.00	No Ice	3.70	1.29	0.07
			0.00			1/2" Ice	3.95	1.46	0.09
			0.00			1" Ice	4.20	1.64	0.12
TD-RRH8X20-25	C	From Leg	3.00	0.0000	170.00	No Ice	3.70	1.29	0.07
			0.00			1/2" Ice	3.95	1.46	0.09
			0.00			1" Ice	4.20	1.64	0.12
Sector Mount [SM 408-3]	C	None		0.0000	170.00	No Ice	22.45	22.45	1.02
						1/2" Ice	33.50	33.50	1.47
						1" Ice	44.55	44.55	1.93
***									
800 10121 w/ Mount Pipe	A	From Leg	3.00	0.0000	160.00	No Ice	3.60	2.95	0.07
			0.00			1/2" Ice	4.00	3.34	0.11
			0.00			1" Ice	4.42	3.74	0.17
800 10121 w/ Mount Pipe	B	From Leg	3.00	0.0000	160.00	No Ice	3.60	2.95	0.07
			0.00			1/2" Ice	4.00	3.34	0.11
			0.00			1" Ice	4.42	3.74	0.17
800 10121 w/ Mount Pipe	C	From Leg	3.00	0.0000	160.00	No Ice	3.60	2.95	0.07
			0.00			1/2" Ice	4.00	3.34	0.11
			0.00			1" Ice	4.42	3.74	0.17
HPA65R-BU6A w/ Mount Pipe	A	From Leg	3.00	0.0000	160.00	No Ice	5.83	5.00	0.08
			0.00			1/2" Ice	6.40	5.56	0.14
			0.00			1" Ice	6.99	6.13	0.22
HPA65R-BU6A w/ Mount Pipe	B	From Leg	3.00	0.0000	160.00	No Ice	5.83	5.00	0.08
			0.00			1/2" Ice	6.40	5.56	0.14
			0.00			1" Ice	6.99	6.13	0.22
HPA65R-BU6A w/ Mount Pipe	C	From Leg	3.00	0.0000	160.00	No Ice	5.83	5.00	0.08
			0.00			1/2" Ice	6.40	5.56	0.14
			0.00			1" Ice	6.99	6.13	0.22
QS66512-3 w/ Mount Pipe	A	From Leg	3.00	0.0000	160.00	No Ice	4.04	4.18	0.13
			0.00			1/2" Ice	4.42	4.57	0.20
			0.00			1" Ice	4.82	4.97	0.28
QS66512-3 w/ Mount Pipe	B	From Leg	3.00	0.0000	160.00	No Ice	4.04	4.18	0.13
			0.00			1/2" Ice	4.42	4.57	0.20
			0.00			1" Ice	4.82	4.97	0.28
QS66512-3 w/ Mount Pipe	C	From Leg	3.00	0.0000	160.00	No Ice	4.04	4.18	0.13
			0.00			1/2" Ice	4.42	4.57	0.20
			0.00			1" Ice	4.82	4.97	0.28
RRUS 11	A	From Leg	3.00	0.0000	160.00	No Ice	2.79	1.19	0.05
			0.00			1/2" Ice	3.00	1.34	0.07
			0.00			1" Ice	3.21	1.50	0.10
RRUS 11	B	From Leg	3.00	0.0000	160.00	No Ice	2.79	1.19	0.05
			0.00			1/2" Ice	3.00	1.34	0.07
			0.00			1" Ice	3.21	1.50	0.10
RRUS 11	C	From Leg	3.00	0.0000	160.00	No Ice	2.79	1.19	0.05

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft	Offsets: Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00				1/2" Ice	3.00	1.34	0.07
			0.00				1" Ice	3.21	1.50	0.10
RRUS 32	A	From Leg	3.00		0.0000	160.00	No Ice	2.86	1.78	0.06
			0.00				1/2" Ice	3.08	1.97	0.08
			0.00				1" Ice	3.32	2.17	0.10
RRUS 32	B	From Leg	3.00		0.0000	160.00	No Ice	2.86	1.78	0.06
			0.00				1/2" Ice	3.08	1.97	0.08
			0.00				1" Ice	3.32	2.17	0.10
RRUS 32	C	From Leg	3.00		0.0000	160.00	No Ice	2.86	1.78	0.06
			0.00				1/2" Ice	3.08	1.97	0.08
			0.00				1" Ice	3.32	2.17	0.10
RRUS 32 B2	A	From Leg	3.00		0.0000	160.00	No Ice	2.73	1.67	0.05
			0.00				1/2" Ice	2.95	1.86	0.07
			0.00				1" Ice	3.18	2.05	0.10
RRUS 32 B2	B	From Leg	3.00		0.0000	160.00	No Ice	2.73	1.67	0.05
			0.00				1/2" Ice	2.95	1.86	0.07
			0.00				1" Ice	3.18	2.05	0.10
RRUS 32 B2	C	From Leg	3.00		0.0000	160.00	No Ice	2.73	1.67	0.05
			0.00				1/2" Ice	2.95	1.86	0.07
			0.00				1" Ice	3.18	2.05	0.10
RRUS 4478 B5	A	From Leg	3.00		0.0000	160.00	No Ice	1.84	1.06	0.06
			0.00				1/2" Ice	2.01	1.20	0.08
			0.00				1" Ice	2.19	1.34	0.09
RRUS 4478 B5	B	From Leg	3.00		0.0000	160.00	No Ice	1.84	1.06	0.06
			0.00				1/2" Ice	2.01	1.20	0.08
			0.00				1" Ice	2.19	1.34	0.09
RRUS 4478 B5	C	From Leg	3.00		0.0000	160.00	No Ice	1.84	1.06	0.06
			0.00				1/2" Ice	2.01	1.20	0.08
			0.00				1" Ice	2.19	1.34	0.09
RRUS 4478 B14	A	From Leg	3.00		0.0000	160.00	No Ice	1.84	1.06	0.06
			0.00				1/2" Ice	2.01	1.20	0.08
			0.00				1" Ice	2.19	1.34	0.09
RRUS 4478 B14	B	From Leg	3.00		0.0000	160.00	No Ice	1.84	1.06	0.06
			0.00				1/2" Ice	2.01	1.20	0.08
			0.00				1" Ice	2.19	1.34	0.09
RRUS 4478 B14	C	From Leg	3.00		0.0000	160.00	No Ice	1.84	1.06	0.06
			0.00				1/2" Ice	2.01	1.20	0.08
			0.00				1" Ice	2.19	1.34	0.09
RRUS 4426 B66	A	From Leg	3.00		0.0000	160.00	No Ice	1.64	0.73	0.05
			0.00				1/2" Ice	1.80	0.84	0.06
			0.00				1" Ice	1.97	0.97	0.08
RRUS 4426 B66	B	From Leg	3.00		0.0000	160.00	No Ice	1.64	0.73	0.05
			0.00				1/2" Ice	1.80	0.84	0.06
			0.00				1" Ice	1.97	0.97	0.08
RRUS 4426 B66	C	From Leg	3.00		0.0000	160.00	No Ice	1.64	0.73	0.05
			0.00				1/2" Ice	1.80	0.84	0.06
			0.00				1" Ice	1.97	0.97	0.08
(2) LGP21401	A	From Leg	3.00		0.0000	160.00	No Ice	1.10	0.21	0.01
			0.00				1/2" Ice	1.24	0.27	0.02
			0.00				1" Ice	1.38	0.35	0.03
(2) LGP21401	B	From Leg	3.00		0.0000	160.00	No Ice	1.10	0.21	0.01
			0.00				1/2" Ice	1.24	0.27	0.02
			0.00				1" Ice	1.38	0.35	0.03
(2) LGP21401	C	From Leg	3.00		0.0000	160.00	No Ice	1.10	0.21	0.01
			0.00				1/2" Ice	1.24	0.27	0.02
			0.00				1" Ice	1.38	0.35	0.03
DC6-48-60-18-8F	A	From Leg	3.00		0.0000	160.00	No Ice	1.21	1.21	0.03

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00			1/2" Ice	1.89	1.89	0.05
			0.00			1" Ice	2.11	2.11	0.08
DC6-48-60-18-8F	B	From Leg	3.00	0.0000	160.00	No Ice	1.21	1.21	0.03
			0.00			1/2" Ice	1.89	1.89	0.05
			0.00			1" Ice	2.11	2.11	0.08
DC6-48-60-18-8F	C	From Leg	3.00	0.0000	160.00	No Ice	1.21	1.21	0.03
			0.00			1/2" Ice	1.89	1.89	0.05
			0.00			1" Ice	2.11	2.11	0.08
Sector Mount [SM 408-3]	C	None		0.0000	160.00	No Ice	22.45	22.45	1.02
						1/2" Ice	33.50	33.50	1.47
						1" Ice	44.55	44.55	1.93
***									
APXV18-206517S-C w/ Mount Pipe	A	From Leg	3.00	0.0000	150.00	No Ice	3.79	3.16	0.05
			0.00			1/2" Ice	4.38	3.75	0.09
			0.00			1" Ice	4.99	4.35	0.15
APXV18-206517S-C w/ Mount Pipe	B	From Leg	3.00	0.0000	150.00	No Ice	3.79	3.16	0.05
			0.00			1/2" Ice	4.38	3.75	0.09
			0.00			1" Ice	4.99	4.35	0.15
APXV18-206517S-C w/ Mount Pipe	C	From Leg	3.00	0.0000	150.00	No Ice	3.79	3.16	0.05
			0.00			1/2" Ice	4.38	3.75	0.09
			0.00			1" Ice	4.99	4.35	0.15
Sector Mount [SM 406-3]	C	None		0.0000	150.00	No Ice	19.83	19.83	0.92
						1/2" Ice	29.41	29.41	1.33
						1" Ice	38.99	38.99	1.73
***									
(2) MX06FRO660-03 w/ Mount Pipe	A	From Leg	3.00	0.0000	140.00	No Ice	6.54	5.55	0.10
			0.00			1/2" Ice	7.06	6.05	0.18
			0.00			1" Ice	7.60	6.57	0.28
(2) MX06FRO660-03 w/ Mount Pipe	B	From Leg	3.00	0.0000	140.00	No Ice	6.54	5.55	0.10
			0.00			1/2" Ice	7.06	6.05	0.18
			0.00			1" Ice	7.60	6.57	0.28
(2) MX06FRO660-03 w/ Mount Pipe	C	From Leg	3.00	0.0000	140.00	No Ice	6.54	5.55	0.10
			0.00			1/2" Ice	7.06	6.05	0.18
			0.00			1" Ice	7.60	6.57	0.28
L-Sub6 Antenna w/ Mount Pipe	A	From Leg	3.00	0.0000	140.00	No Ice	5.43	3.27	0.11
			0.00			1/2" Ice	5.97	3.99	0.15
			0.00			1" Ice	6.46	4.59	0.20
L-Sub6 Antenna w/ Mount Pipe	B	From Leg	3.00	0.0000	140.00	No Ice	5.43	3.27	0.11
			0.00			1/2" Ice	5.97	3.99	0.15
			0.00			1" Ice	6.46	4.59	0.20
L-Sub6 Antenna w/ Mount Pipe	C	From Leg	3.00	0.0000	140.00	No Ice	5.43	3.27	0.11
			0.00			1/2" Ice	5.97	3.99	0.15
			0.00			1" Ice	6.46	4.59	0.20
RFV01U-D1A	A	From Leg	3.00	0.0000	140.00	No Ice	2.05	1.54	0.08
			0.00			1/2" Ice	2.23	1.70	0.11
			0.00			1" Ice	2.41	1.86	0.13
RFV01U-D1A	B	From Leg	3.00	0.0000	140.00	No Ice	2.05	1.54	0.08
			0.00			1/2" Ice	2.23	1.70	0.11
			0.00			1" Ice	2.41	1.86	0.13
RFV01U-D1A	C	From Leg	3.00	0.0000	140.00	No Ice	2.05	1.54	0.08
			0.00			1/2" Ice	2.23	1.70	0.11
			0.00			1" Ice	2.41	1.86	0.13
RFV01U-D2A	A	From Leg	3.00	0.0000	140.00	No Ice	2.05	1.29	0.07
			0.00			1/2" Ice	2.23	1.44	0.09
			0.00			1" Ice	2.41	1.59	0.11
RFV01U-D2A	B	From Leg	3.00	0.0000	140.00	No Ice	2.05	1.29	0.07
			0.00			1/2" Ice	2.23	1.44	0.09

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00			1" Ice	2.41	1.59	0.11
RFV01U-D2A	C	From Leg	3.00	0.0000	140.00	No Ice	2.05	1.29	0.07
			0.00			1/2" Ice	2.23	1.44	0.09
			0.00			1" Ice	2.41	1.59	0.11
(2) LPA-80063/6CF w/ Mount Pipe	A	From Leg	3.00	0.0000	140.00	No Ice	9.83	10.22	0.05
			0.00			1/2" Ice	10.40	11.38	0.14
			0.00			1" Ice	10.93	12.27	0.25
(2) LPA-80063/6CF w/ Mount Pipe	B	From Leg	3.00	0.0000	140.00	No Ice	9.83	10.22	0.05
			0.00			1/2" Ice	10.40	11.38	0.14
			0.00			1" Ice	10.93	12.27	0.25
(2) LPA-80063/6CF w/ Mount Pipe	C	From Leg	3.00	0.0000	140.00	No Ice	9.83	10.22	0.05
			0.00			1/2" Ice	10.40	11.38	0.14
			0.00			1" Ice	10.93	12.27	0.25
RxxDC-3315-PF-48	A	From Leg	3.00	0.0000	140.00	No Ice	2.51	1.65	0.03
			0.00			1/2" Ice	2.71	1.82	0.05
			0.00			1" Ice	2.91	1.99	0.08
RxxDC-3315-PF-48	B	From Leg	3.00	0.0000	140.00	No Ice	2.51	1.65	0.03
			0.00			1/2" Ice	2.71	1.82	0.05
			0.00			1" Ice	2.91	1.99	0.08
Sector Mount [SM 406-3]	C	None		0.0000	140.00	No Ice	19.83	19.83	0.92
						1/2" Ice	29.41	29.41	1.33
						1" Ice	38.99	38.99	1.73

Truss-Leg Properties

Section Designation	Area in^2	Area Ice in^2	Self Weight K	Ice Weight K	Equiv. Diameter in	Equiv. Diameter Ice in	Leg Area in^2
Pirod 105245	1604.4494	3539.3020	0.68	0.74	11.1420	24.5785	5.3014
Pirod 105218	2263.4687	6700.6084	0.72	1.28	7.8593	23.2660	7.2158
Pirod 105218	2263.4687	6684.7191	0.72	1.26	7.8593	23.2108	7.2158
Pirod 105219	2441.8688	6739.2465	0.90	1.28	8.4787	23.4002	9.4248
Pirod 105220	2578.8005	6791.8153	1.07	1.28	8.9542	23.5827	11.9282
Pirod 105220	2578.8005	6769.8954	1.07	1.25	8.9542	23.5066	11.9282
Pirod 112743	3466.5160	8923.4288	1.61	1.69	12.0365	30.9841	14.7262
Pirod 112743	3466.5160	8898.2322	1.61	1.64	12.0365	30.8966	14.7262
Pirod 112744	3599.5585	8939.3815	1.81	1.60	12.4985	31.0395	17.8187
Pirod 112744	3599.5585	8899.2724	1.81	1.52	12.4985	30.9003	17.8187
Pirod 112745	3789.3331	8912.9018	2.09	1.45	13.1574	30.9476	21.2058
Pirod 112740	3789.3331	8797.0272	2.09	1.23	13.1574	30.5452	21.2058

Tower Pressures - No Ice

$G_H = 0.850$

Section Elevation ft	z ft	K_Z	q_z psf	A_G ft²	Face	A_F ft²	A_R ft²	A_{leg} ft²	Leg %	C_AA_A In Face ft²	C_AA_A Out Face ft²
T1	275.00	1.319	27	51.458	A	0.000	7.235	2.917	40.31	0.000	0.000
280.00-270.00					B	0.000	7.235		40.31	0.000	0.000
					C	0.000	7.943		36.72	7.920	0.000
T2	260.00	1.298	27	103.333	A	0.000	14.118	6.667	47.22	0.000	0.000
270.00-250.00					B	0.000	14.118		47.22	0.000	0.000
					C	0.000	16.232		41.07	15.840	0.000
T3	240.00	1.269	26	104.167	A	0.000	16.405	8.333	50.80	35.640	0.000
250.00-230.00					B	0.000	16.405		50.80	0.000	0.000
					C	0.000	18.850		44.21	15.840	0.000
T4	225.00	1.246	26	66.264	A	4.235	18.601	18.601	81.45	17.820	0.000
230.00-220.00					B	4.235	18.601		81.45	0.000	0.000
					C	4.235	18.601		81.45	7.920	0.000
T5	210.00	1.222	25	162.945	A	10.467	26.241	26.241	71.49	35.640	0.000
220.00-200.00					B	10.467	26.241		71.49	0.000	0.000
					C	10.467	26.241		71.49	15.840	0.000
T6	190.00	1.187	24	202.945	A	15.714	26.241	26.241	62.55	35.640	0.000
200.00-180.00					B	15.714	26.241		62.55	35.640	0.000
					C	15.714	26.241		62.55	33.660	0.000
T7	170.00	1.15	24	243.362	A	19.853	28.309	28.309	58.78	43.240	0.000
180.00-160.00					B	19.853	28.309		58.78	35.640	0.000
					C	19.853	28.309		58.78	87.120	0.000
T8	150.00	1.11	23	283.780	A	20.877	29.897	29.897	58.88	86.480	0.000
160.00-140.00					B	20.877	29.897		58.88	35.640	0.000
					C	20.877	29.897		58.88	89.360	0.000
T9	130.00	1.065	22	323.780	A	19.635	29.897	29.897	60.36	98.360	0.000
140.00-120.00					B	19.635	29.897		60.36	86.480	0.000
					C	19.635	29.897		60.36	89.360	0.000
T10	110.00	1.016	21	374.209	A	14.190	40.189	40.189	73.91	98.360	0.000
120.00-100.00					B	14.190	40.189		73.91	86.480	0.000
					C	14.190	40.189		73.91	89.360	0.000
T11	90.00	0.959	20	414.209	A	14.825	40.189	40.189	73.05	98.360	0.000
100.00-80.00					B	14.825	40.189		73.05	86.480	0.000
					C	14.825	40.189		73.05	89.360	0.000
T12	70.00	0.892	18	454.627	A	15.712	41.731	41.731	72.65	98.360	0.000
80.00-60.00					B	15.712	41.731		72.65	86.480	0.000
					C	15.712	41.731		72.65	89.360	0.000
T13	50.00	0.811	17	494.627	A	16.624	41.731	41.731	71.51	98.360	0.000
60.00-40.00					B	16.624	41.731		71.51	86.480	0.000
					C	16.624	41.731		71.51	89.360	0.000
T14	30.00	0.701	14	535.044	A	17.558	43.931	43.931	71.44	98.360	0.000
40.00-20.00					B	17.558	43.931		71.44	86.480	0.000
					C	17.558	43.931		71.44	89.360	0.000
T15 20.00-0.00	10.00	0.7	14	575.044	A	18.514	43.931	43.931	70.35	39.344	0.000
					B	18.514	43.931		70.35	34.592	0.000
					C	18.514	43.931		70.35	41.720	0.000

Tower Pressure - With Ice

$G_H = 0.850$

Section Elevation ft	z ft	K_Z	q_z psf	t_Z in	A_G ft²	Face	A_F ft²	A_R ft²	A_{leg} ft²	Leg %	C_AA_A In Face ft²	C_AA_A Out Face ft²
T1	275.00	1.319	7	1.8543	54.549	A	0.000	31.077	9.098	29.27	0.000	0.000
280.00-270.00						B	0.000	31.077		29.27	0.000	0.000

Section Elevation ft	z ft	K_Z	q_z psf	t_Z in	A_G ft²	Face	A_F ft²	A_R ft²	A_{leg} ft²	Leg %	C_AA_A In Face ft²	C_AA_A Out Face ft²
						C	0.000	34.785		26.15	14.882	0.000
T2	260.00	1.298	7	1.8439	109.480	A	0.000	57.177	18.959	33.16	0.000	0.000
270.00-250.00						B	0.000	57.177		33.16	0.000	0.000
						C	0.000	68.204		27.80	29.691	0.000
T3	240.00	1.269	7	1.8292	110.264	A	0.000	57.397	20.528	35.77	65.312	0.000
250.00-230.00						B	0.000	57.397		35.77	0.000	0.000
						C	0.000	70.068		29.30	29.587	0.000
T4	225.00	1.246	7	1.8174	69.297	A	4.235	47.190	41.032	79.79	32.619	0.000
230.00-220.00						B	4.235	47.190		79.79	0.000	0.000
						C	4.235	47.190		79.79	14.752	0.000
T5	210.00	1.222	7	1.8049	168.969	A	10.467	90.277	77.682	77.11	65.159	0.000
220.00-200.00						B	10.467	90.277		77.11	0.000	0.000
						C	10.467	90.277		77.11	29.415	0.000
T6	190.00	1.187	6	1.7870	208.909	A	15.714	96.219	77.498	69.24	65.045	0.000
200.00-180.00						B	15.714	96.219		69.24	38.940	0.000
						C	15.714	96.219		69.24	52.337	0.000
T7	170.00	1.15	6	1.7672	249.260	A	19.853	99.655	78.130	65.38	85.467	0.000
180.00-160.00						B	19.853	99.655		65.38	38.800	0.000
						C	19.853	99.655		65.38	121.080	0.000
T8	150.00	1.11	6	1.7452	289.604	A	20.877	99.559	78.740	65.38	172.439	0.000
160.00-140.00						B	20.877	99.559		65.38	38.645	0.000
						C	20.877	99.559		65.38	136.832	0.000
T9	130.00	1.065	6	1.7204	329.522	A	19.635	97.789	78.486	66.84	188.770	0.000
140.00-120.00						B	19.635	97.789		66.84	138.328	0.000
						C	19.635	97.789		66.84	136.125	0.000
T10	110.00	1.016	6	1.6919	379.856	A	14.190	117.171	103.452	78.75	187.910	0.000
120.00-100.00						B	14.190	117.171		78.75	137.851	0.000
						C	14.190	117.171		78.75	135.314	0.000
T11	90.00	0.959	5	1.6583	419.744	A	14.825	117.209	103.160	78.13	186.895	0.000
100.00-80.00						B	14.825	117.209		78.13	137.287	0.000
						C	14.825	117.209		78.13	134.356	0.000
T12 80.00-60.00	70.00	0.892	5	1.6171	460.024	A	15.712	118.156	103.637	77.42	185.654	0.000
						B	15.712	118.156		77.42	136.598	0.000
						C	15.712	118.156		77.42	133.185	0.000
T13 60.00-40.00	50.00	0.811	4	1.5636	499.845	A	16.624	118.026	103.172	76.62	184.043	0.000
						B	16.624	118.026		76.62	135.702	0.000
						C	16.624	118.026		76.62	131.662	0.000
T14 40.00-20.00	30.00	0.701	4	1.4858	540.002	A	17.558	118.238	103.330	76.09	181.700	0.000
						B	17.558	118.238		76.09	134.399	0.000
						C	17.558	118.238		76.09	129.448	0.000
T15 20.00-0.00	10.00	0.7	4	1.3312	579.487	A	18.514	116.071	101.987	75.78	70.825	0.000
						B	18.514	116.071		75.78	52.727	0.000
						C	18.514	116.071		75.78	67.698	0.000

Tower Pressure - Service

$G_H = 0.850$

Section Elevation ft	z ft	K_Z	q_z psf	A_G ft²	Face	A_F ft²	A_R ft²	A_{leg} ft²	Leg %	C_AA_A In Face ft²	C_AA_A Out Face ft²
T1	275.00	1.319	10	51.458	A	0.000	7.235	2.917	40.31	0.000	0.000
280.00-270.00					B	0.000	7.235		40.31	0.000	0.000
					C	0.000	7.943		36.72	7.920	0.000

Section Elevation ft	z ft	K_Z	q_z psf	A_G ft²	Face	A_F ft²	A_R ft²	A_{leg} ft²	Leg %	C_AA_A In Face ft²	C_AA_A Out Face ft²
T2	260.00	1.298	10	103.333	A	0.000	14.118	6.667	47.22	0.000	0.000
270.00-250.00					B	0.000	14.118		47.22	0.000	0.000
					C	0.000	16.232		41.07	15.840	0.000
T3	240.00	1.269	10	104.167	A	0.000	16.405	8.333	50.80	35.640	0.000
250.00-230.00					B	0.000	16.405		50.80	0.000	0.000
					C	0.000	18.850		44.21	15.840	0.000
T4	225.00	1.246	10	66.264	A	4.235	18.601	18.601	81.45	17.820	0.000
230.00-220.00					B	4.235	18.601		81.45	0.000	0.000
					C	4.235	18.601		81.45	7.920	0.000
T5	210.00	1.222	10	162.945	A	10.467	26.241	26.241	71.49	35.640	0.000
220.00-200.00					B	10.467	26.241		71.49	0.000	0.000
					C	10.467	26.241		71.49	15.840	0.000
T6	190.00	1.187	9	202.945	A	15.714	26.241	26.241	62.55	35.640	0.000
200.00-180.00					B	15.714	26.241		62.55	35.640	0.000
					C	15.714	26.241		62.55	33.660	0.000
T7	170.00	1.15	9	243.362	A	19.853	28.309	28.309	58.78	43.240	0.000
180.00-160.00					B	19.853	28.309		58.78	35.640	0.000
					C	19.853	28.309		58.78	87.120	0.000
T8	150.00	1.11	9	283.780	A	20.877	29.897	29.897	58.88	86.480	0.000
160.00-140.00					B	20.877	29.897		58.88	35.640	0.000
					C	20.877	29.897		58.88	89.360	0.000
T9	130.00	1.065	8	323.780	A	19.635	29.897	29.897	60.36	98.360	0.000
140.00-120.00					B	19.635	29.897		60.36	86.480	0.000
					C	19.635	29.897		60.36	89.360	0.000
T10	110.00	1.016	8	374.209	A	14.190	40.189	40.189	73.91	98.360	0.000
120.00-100.00					B	14.190	40.189		73.91	86.480	0.000
					C	14.190	40.189		73.91	89.360	0.000
T11	90.00	0.959	8	414.209	A	14.825	40.189	40.189	73.05	98.360	0.000
100.00-80.00					B	14.825	40.189		73.05	86.480	0.000
					C	14.825	40.189		73.05	89.360	0.000
T12	70.00	0.892	7	454.627	A	15.712	41.731	41.731	72.65	98.360	0.000
80.00-60.00					B	15.712	41.731		72.65	86.480	0.000
					C	15.712	41.731		72.65	89.360	0.000
T13	50.00	0.811	6	494.627	A	16.624	41.731	41.731	71.51	98.360	0.000
60.00-40.00					B	16.624	41.731		71.51	86.480	0.000
					C	16.624	41.731		71.51	89.360	0.000
T14	30.00	0.701	5	535.044	A	17.558	43.931	43.931	71.44	98.360	0.000
40.00-20.00					B	17.558	43.931		71.44	86.480	0.000
					C	17.558	43.931		71.44	89.360	0.000
T15 20.00-0.00	10.00	0.7	5	575.044	A	18.514	43.931	43.931	70.35	39.344	0.000
					B	18.514	43.931		70.35	34.592	0.000
					C	18.514	43.931		70.35	41.720	0.000

Tower Forces - No Ice - Wind Normal To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl. Face
T1	0.03	0.66	A	0.141	2.806	27	1	1	4.100	0.37	36.66	C
280.00-270.00			B	0.141	2.806		1	1	4.100			
			C	0.154	2.756		1	1	4.512			
T2	0.07	1.37	A	0.137	2.821	27	1	1	7.995	0.73	36.60	C
270.00-250.00			B	0.137	2.821		1	1	7.995			
			C	0.157	2.746		1	1	9.225			
T3	0.21	1.91	A	0.157	2.744	26	1	1	9.323	1.19	59.67	A
250.00-230.00			B	0.157	2.744		1	1	9.323			

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl. Face
			C	0.181	2.661		1	1	10.771			
T4	0.11	1.23	A	0.345	2.184	26	1	1	15.657	1.05	104.99	A
230.00-220.00			B	0.345	2.184		1	1	15.657			
			C	0.345	2.184		1	1	15.657			
T5	0.21	2.70	A	0.225	2.514	25	1	1	25.670	1.98	98.83	A
220.00-200.00			B	0.225	2.514		1	1	25.670			
			C	0.225	2.514		1	1	25.670			
T6	0.43	2.95	A	0.207	2.574	24	1	1	30.821	2.56	128.09	A
200.00-180.00			B	0.207	2.574		1	1	30.821			
			C	0.207	2.574		1	1	30.821			
T7	0.70	4.20	A	0.198	2.603	24	1	1	36.106	3.35	167.73	C
180.00-160.00			B	0.198	2.603		1	1	36.106			
			C	0.198	2.603		1	1	36.106			
T8	0.90	4.86	A	0.179	2.668	23	1	1	37.951	3.72	186.24	C
160.00-140.00			B	0.179	2.668		1	1	37.951			
			C	0.179	2.668		1	1	37.951			
T9	1.20	4.75	A	0.153	2.761	22	1	1	36.612	3.97	198.35	C
140.00-120.00			B	0.153	2.761		1	1	36.612			
			C	0.153	2.761		1	1	36.612			
T10	1.20	7.08	A	0.145	2.789	21	1	1	36.980	3.82	190.92	C
120.00-100.00			B	0.145	2.789		1	1	36.980			
			C	0.145	2.789		1	1	36.980			
T11	1.20	7.19	A	0.133	2.836	20	1	1	37.573	3.66	183.14	C
100.00-80.00			B	0.133	2.836		1	1	37.573			
			C	0.133	2.836		1	1	37.573			
T12	1.20	7.93	A	0.126	2.86	18	1	1	39.313	3.50	175.03	C
80.00-60.00			B	0.126	2.86		1	1	39.313			
			C	0.126	2.86		1	1	39.313			
T13	1.20	8.05	A	0.118	2.893	17	1	1	40.204	3.23	161.71	C
60.00-40.00			B	0.118	2.893		1	1	40.204			
			C	0.118	2.893		1	1	40.204			
T14	1.20	9.01	A	0.115	2.905	14	1	1	42.375	2.88	143.88	C
40.00-20.00			B	0.115	2.905		1	1	42.375			
			C	0.115	2.905		1	1	42.375			
T15	0.57	9.15	A	0.109	2.93	14	1	1	43.319	2.14	107.00	C
20.00-0.00			B	0.109	2.93		1	1	43.319			
			C	0.109	2.93		1	1	43.319			
Sum Weight:	10.43	73.02						OTM	4624.47 kip-ft	38.16		

Tower Forces - No Ice - Wind 60 To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl. Face
T1	0.03	0.66	A	0.141	2.806	27	0.8	1	4.100	0.37	36.66	C
280.00-270.00			B	0.141	2.806		0.8	1	4.100			
			C	0.154	2.756		0.8	1	4.512			
T2	0.07	1.37	A	0.137	2.821	27	0.8	1	7.995	0.73	36.60	C
270.00-250.00			B	0.137	2.821		0.8	1	7.995			
			C	0.157	2.746		0.8	1	9.225			
T3	0.21	1.91	A	0.157	2.744	26	0.8	1	9.323	1.19	59.67	B
250.00-230.00			B	0.157	2.744		0.8	1	9.323			

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl. Face
			C	0.181	2.661		0.8	1	10.771			
T4	0.11	1.23	A	0.345	2.184	26	0.8	1	14.810	1.01	100.98	B
230.00-220.00			B	0.345	2.184		0.8	1	14.810			
			C	0.345	2.184		0.8	1	14.810			
T5	0.21	2.70	A	0.225	2.514	25	0.8	1	23.577	1.86	93.24	B
220.00-200.00			B	0.225	2.514		0.8	1	23.577			
			C	0.225	2.514		0.8	1	23.577			
T6	0.43	2.95	A	0.207	2.574	24	0.8	1	27.678	2.39	119.74	B
200.00-180.00			B	0.207	2.574		0.8	1	27.678			
			C	0.207	2.574		0.8	1	27.678			
T7	0.70	4.20	A	0.198	2.603	24	0.8	1	32.135	3.15	157.39	A
180.00-160.00			B	0.198	2.603		0.8	1	32.135			
			C	0.198	2.603		0.8	1	32.135			
T8	0.90	4.86	A	0.179	2.668	23	0.8	1	33.776	3.51	175.49	A
160.00-140.00			B	0.179	2.668		0.8	1	33.776			
			C	0.179	2.668		0.8	1	33.776			
T9	1.20	4.75	A	0.153	2.761	22	0.8	1	32.685	3.77	188.30	A
140.00-120.00			B	0.153	2.761		0.8	1	32.685			
			C	0.153	2.761		0.8	1	32.685			
T10	1.20	7.08	A	0.145	2.789	21	0.8	1	34.142	3.68	183.93	A
120.00-100.00			B	0.145	2.789		0.8	1	34.142			
			C	0.145	2.789		0.8	1	34.142			
T11	1.20	7.19	A	0.133	2.836	20	0.8	1	34.608	3.52	176.12	A
100.00-80.00			B	0.133	2.836		0.8	1	34.608			
			C	0.133	2.836		0.8	1	34.608			
T12	1.20	7.93	A	0.126	2.86	18	0.8	1	36.171	3.36	168.05	A
80.00-60.00			B	0.126	2.86		0.8	1	36.171			
			C	0.126	2.86		0.8	1	36.171			
T13	1.20	8.05	A	0.118	2.893	17	0.8	1	36.879	3.10	154.92	A
60.00-40.00			B	0.118	2.893		0.8	1	36.879			
			C	0.118	2.893		0.8	1	36.879			
T14	1.20	9.01	A	0.115	2.905	14	0.8	1	38.864	2.75	137.67	A
40.00-20.00			B	0.115	2.905		0.8	1	38.864			
			C	0.115	2.905		0.8	1	38.864			
T15	0.57	9.15	A	0.109	2.93	14	0.8	1	39.616	2.01	100.39	A
20.00-0.00			B	0.109	2.93		0.8	1	39.616			
			C	0.109	2.93		0.8	1	39.616			
Sum Weight:	10.43	73.02						OTM	4417.02 kip-ft	36.41		

Tower Forces - No Ice - Wind 90 To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl. Face
T1	0.03	0.66	A	0.141	2.806	27	0.85	1	4.100	0.37	36.66	C
280.00-270.00			B	0.141	2.806		0.85	1	4.100			
			C	0.154	2.756		0.85	1	4.512			
T2	0.07	1.37	A	0.137	2.821	27	0.85	1	7.995	0.73	36.60	C
270.00-250.00			B	0.137	2.821		0.85	1	7.995			
			C	0.157	2.746		0.85	1	9.225			
T3	0.21	1.91	A	0.157	2.744	26	0.85	1	9.323	1.26	63.06	C
250.00-230.00			B	0.157	2.744		0.85	1	9.323			

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl. Face
			C	0.181	2.661		0.85	1	10.771			
T4	0.11	1.23	A	0.345	2.184	26	0.85	1	15.022	1.02	101.98	C
230.00-220.00			B	0.345	2.184		0.85	1	15.022			
			C	0.345	2.184		0.85	1	15.022			
T5	0.21	2.70	A	0.225	2.514	25	0.85	1	24.100	1.89	94.63	C
220.00-200.00			B	0.225	2.514		0.85	1	24.100			
			C	0.225	2.514		0.85	1	24.100			
T6	0.43	2.95	A	0.207	2.574	24	0.85	1	28.464	2.50	125.00	B
200.00-180.00			B	0.207	2.574		0.85	1	28.464			
			C	0.207	2.574		0.85	1	28.464			
T7	0.70	4.20	A	0.198	2.603	24	0.85	1	33.128	3.26	163.07	B
180.00-160.00			B	0.198	2.603		0.85	1	33.128			
			C	0.198	2.603		0.85	1	33.128			
T8	0.90	4.86	A	0.179	2.668	23	0.85	1	34.819	3.74	187.14	B
160.00-140.00			B	0.179	2.668		0.85	1	34.819			
			C	0.179	2.668		0.85	1	34.819			
T9	1.20	4.75	A	0.153	2.761	22	0.85	1	33.667	3.89	194.63	C
140.00-120.00			B	0.153	2.761		0.85	1	33.667			
			C	0.153	2.761		0.85	1	33.667			
T10	1.20	7.08	A	0.145	2.789	21	0.85	1	34.852	3.79	189.32	C
120.00-100.00			B	0.145	2.789		0.85	1	34.852			
			C	0.145	2.789		0.85	1	34.852			
T11	1.20	7.19	A	0.133	2.836	20	0.85	1	35.349	3.63	181.31	C
100.00-80.00			B	0.133	2.836		0.85	1	35.349			
			C	0.133	2.836		0.85	1	35.349			
T12	1.20	7.93	A	0.126	2.86	18	0.85	1	36.956	3.46	173.00	C
80.00-60.00			B	0.126	2.86		0.85	1	36.956			
			C	0.126	2.86		0.85	1	36.956			
T13	1.20	8.05	A	0.118	2.893	17	0.85	1	37.710	3.19	159.52	C
60.00-40.00			B	0.118	2.893		0.85	1	37.710			
			C	0.118	2.893		0.85	1	37.710			
T14	1.20	9.01	A	0.115	2.905	14	0.85	1	39.741	2.83	141.73	C
40.00-20.00			B	0.115	2.905		0.85	1	39.741			
			C	0.115	2.905		0.85	1	39.741			
T15	0.57	9.15	A	0.109	2.93	14	0.85	1	40.542	2.04	101.78	C
20.00-0.00			B	0.109	2.93		0.85	1	40.542			
			C	0.109	2.93		0.85	1	40.542			
Sum Weight:	10.43	73.02						OTM	4567.60 kip-ft	37.60		

Tower Forces - With Ice - Wind Normal To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl. Face
T1	0.23	2.07	A	0.57	1.826	7	1	1	22.531	0.32	31.87	C
280.00-270.00			B	0.57	1.826		1	1	22.531			
			C	0.638	1.785		1	1	26.722			
T2	0.46	3.99	A	0.522	1.873	7	1	1	39.868	0.62	30.83	C
270.00-250.00			B	0.522	1.873		1	1	39.868			
			C	0.623	1.792		1	1	51.734			
T3	1.53	4.59	A	0.521	1.875	7	1	1	39.965	0.71	35.48	C
250.00-230.00			B	0.521	1.875		1	1	39.965			

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl. Face
			C	0.635	1.786		1	1	53.723			
T4	0.76	3.15	A	0.742	1.785	7	1	1	43.951	0.51	51.33	A
230.00-220.00			B	0.742	1.785		1	1	43.951			
			C	0.742	1.785		1	1	43.951			
T5	1.52	8.50	A	0.596	1.806	7	1	1	77.397	0.98	48.90	A
220.00-200.00			B	0.596	1.806		1	1	77.397			
			C	0.596	1.806		1	1	77.397			
T6	2.76	9.53	A	0.536	1.858	6	1	1	83.545	1.16	58.25	A
200.00-180.00			B	0.536	1.858		1	1	83.545			
			C	0.536	1.858		1	1	83.545			
T7	4.33	11.38	A	0.479	1.928	6	1	1	87.032	1.39	69.53	A
180.00-160.00			B	0.479	1.928		1	1	87.032			
			C	0.479	1.928		1	1	87.032			
T8	5.81	12.04	A	0.416	2.033	6	1	1	84.918	1.70	85.12	A
160.00-140.00			B	0.416	2.033		1	1	84.918			
			C	0.416	2.033		1	1	84.918			
T9	7.58	11.55	A	0.356	2.157	6	1	1	80.113	1.81	90.41	A
140.00-120.00			B	0.356	2.157		1	1	80.113			
			C	0.356	2.157		1	1	80.113			
T10	7.48	14.99	A	0.346	2.181	6	1	1	86.193	1.79	89.52	A
120.00-100.00			B	0.346	2.181		1	1	86.193			
			C	0.346	2.181		1	1	86.193			
T11	7.36	15.02	A	0.315	2.258	5	1	1	85.571	1.71	85.42	A
100.00-80.00			B	0.315	2.258		1	1	85.571			
			C	0.315	2.258		1	1	85.571			
T12	7.22	15.69	A	0.291	2.32	5	1	1	86.154	1.61	80.57	A
80.00-60.00			B	0.291	2.32		1	1	86.154			
			C	0.291	2.32		1	1	86.154			
T13	7.04	15.60	A	0.269	2.381	4	1	1	86.259	1.48	73.84	A
60.00-40.00			B	0.269	2.381		1	1	86.259			
			C	0.269	2.381		1	1	86.259			
T14	6.77	16.32	A	0.251	2.433	4	1	1	86.770	1.29	64.28	A
40.00-20.00			B	0.251	2.433		1	1	86.770			
			C	0.251	2.433		1	1	86.770			
T15	2.76	15.58	A	0.232	2.492	4	1	1	85.936	0.94	47.19	A
20.00-0.00			B	0.232	2.492		1	1	85.936			
			C	0.232	2.492		1	1	85.936			
Sum Weight:	63.63	159.99						OTM	2272.67 kip-ft	18.02		

Tower Forces - With Ice - Wind 60 To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl. Face
T1	0.23	2.07	A	0.57	1.826	7	0.8	1	22.531	0.32	31.87	C
280.00-270.00			B	0.57	1.826		0.8	1	22.531			
			C	0.638	1.785		0.8	1	26.722			
T2	0.46	3.99	A	0.522	1.873	7	0.8	1	39.868	0.62	30.83	C
270.00-250.00			B	0.522	1.873		0.8	1	39.868			
			C	0.623	1.792		0.8	1	51.734			
T3	1.53	4.59	A	0.521	1.875	7	0.8	1	39.965	0.71	35.48	C
250.00-230.00			B	0.521	1.875		0.8	1	39.965			

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl. Face
			C	0.635	1.786		0.8	1	53.723			
T4	0.76	3.15	A	0.742	1.785	7	0.8	1	43.104	0.50	50.46	B
230.00-220.00			B	0.742	1.785		0.8	1	43.104			
			C	0.742	1.785		0.8	1	43.104			
T5	1.52	8.50	A	0.596	1.806	7	0.8	1	75.304	0.96	47.83	B
220.00-200.00			B	0.596	1.806		0.8	1	75.304			
			C	0.596	1.806		0.8	1	75.304			
T6	2.76	9.53	A	0.536	1.858	6	0.8	1	80.402	1.13	56.65	B
200.00-180.00			B	0.536	1.858		0.8	1	80.402			
			C	0.536	1.858		0.8	1	80.402			
T7	4.33	11.38	A	0.479	1.928	6	0.8	1	83.061	1.35	67.49	B
180.00-160.00			B	0.479	1.928		0.8	1	83.061			
			C	0.479	1.928		0.8	1	83.061			
T8	5.81	12.04	A	0.416	2.033	6	0.8	1	80.743	1.66	82.94	B
160.00-140.00			B	0.416	2.033		0.8	1	80.743			
			C	0.416	2.033		0.8	1	80.743			
T9	7.58	11.55	A	0.356	2.157	6	0.8	1	76.186	1.77	88.32	B
140.00-120.00			B	0.356	2.157		0.8	1	76.186			
			C	0.356	2.157		0.8	1	76.186			
T10	7.48	14.99	A	0.346	2.181	6	0.8	1	83.355	1.76	88.07	B
120.00-100.00			B	0.346	2.181		0.8	1	83.355			
			C	0.346	2.181		0.8	1	83.355			
T11	7.36	15.02	A	0.315	2.258	5	0.8	1	82.606	1.68	83.93	B
100.00-80.00			B	0.315	2.258		0.8	1	82.606			
			C	0.315	2.258		0.8	1	82.606			
T12	7.22	15.69	A	0.291	2.32	5	0.8	1	83.011	1.58	79.06	B
80.00-60.00			B	0.291	2.32		0.8	1	83.011			
			C	0.291	2.32		0.8	1	83.011			
T13	7.04	15.60	A	0.269	2.381	4	0.8	1	82.934	1.45	72.35	B
60.00-40.00			B	0.269	2.381		0.8	1	82.934			
			C	0.269	2.381		0.8	1	82.934			
T14	6.77	16.32	A	0.251	2.433	4	0.8	1	83.259	1.26	62.90	B
40.00-20.00			B	0.251	2.433		0.8	1	83.259			
			C	0.251	2.433		0.8	1	83.259			
T15	2.76	15.58	A	0.232	2.492	4	0.8	1	82.233	0.91	45.69	B
20.00-0.00			B	0.232	2.492		0.8	1	82.233			
			C	0.232	2.492		0.8	1	82.233			
Sum Weight:	63.63	159.99						OTM	2230.67 kip-ft	17.65		

Tower Forces - With Ice - Wind 90 To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl. Face
T1	0.23	2.07	A	0.57	1.826	7	0.85	1	22.531	0.32	31.87	C
280.00-270.00			B	0.57	1.826		0.85	1	22.531			
			C	0.638	1.785		0.85	1	26.722			
T2	0.46	3.99	A	0.522	1.873	7	0.85	1	39.868	0.62	30.83	C
270.00-250.00			B	0.522	1.873		0.85	1	39.868			
			C	0.623	1.792		0.85	1	51.734			
T3	1.53	4.59	A	0.521	1.875	7	0.85	1	39.965	0.77	38.36	C
250.00-230.00			B	0.521	1.875		0.85	1	39.965			

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl. Face
			C	0.635	1.786		0.85	1	53.723			
T4	0.76	3.15	A	0.742	1.785	7	0.85	1	43.316	0.50	49.91	C
230.00-220.00			B	0.742	1.785		0.85	1	43.316			
			C	0.742	1.785		0.85	1	43.316			
T5	1.52	8.50	A	0.596	1.806	7	0.85	1	75.827	0.94	46.93	C
220.00-200.00			B	0.596	1.806		0.85	1	75.827			
			C	0.596	1.806		0.85	1	75.827			
T6	2.76	9.53	A	0.536	1.858	6	0.85	1	81.188	1.13	56.39	B
200.00-180.00			B	0.536	1.858		0.85	1	81.188			
			C	0.536	1.858		0.85	1	81.188			
T7	4.33	11.38	A	0.479	1.928	6	0.85	1	84.054	1.38	69.18	B
180.00-160.00			B	0.479	1.928		0.85	1	84.054			
			C	0.479	1.928		0.85	1	84.054			
T8	5.81	12.04	A	0.416	2.033	6	0.85	1	81.786	1.67	83.36	B
160.00-140.00			B	0.416	2.033		0.85	1	81.786			
			C	0.416	2.033		0.85	1	81.786			
T9	7.58	11.55	A	0.356	2.157	6	0.85	1	77.168	1.80	89.85	C
140.00-120.00			B	0.356	2.157		0.85	1	77.168			
			C	0.356	2.157		0.85	1	77.168			
T10	7.48	14.99	A	0.346	2.181	6	0.85	1	84.064	1.79	89.39	C
120.00-100.00			B	0.346	2.181		0.85	1	84.064			
			C	0.346	2.181		0.85	1	84.064			
T11	7.36	15.02	A	0.315	2.258	5	0.85	1	83.347	1.70	85.21	C
100.00-80.00			B	0.315	2.258		0.85	1	83.347			
			C	0.315	2.258		0.85	1	83.347			
T12	7.22	15.69	A	0.291	2.32	5	0.85	1	83.797	1.61	80.28	C
80.00-60.00			B	0.291	2.32		0.85	1	83.797			
			C	0.291	2.32		0.85	1	83.797			
T13	7.04	15.60	A	0.269	2.381	4	0.85	1	83.765	1.47	73.49	C
60.00-40.00			B	0.269	2.381		0.85	1	83.765			
			C	0.269	2.381		0.85	1	83.765			
T14	6.77	16.32	A	0.251	2.433	4	0.85	1	84.137	1.28	63.91	C
40.00-20.00			B	0.251	2.433		0.85	1	84.137			
			C	0.251	2.433		0.85	1	84.137			
T15	2.76	15.58	A	0.232	2.492	4	0.85	1	83.159	0.92	46.09	C
20.00-0.00			B	0.232	2.492		0.85	1	83.159			
			C	0.232	2.492		0.85	1	83.159			
Sum Weight:	63.63	159.99						OTM	2258.26 kip-ft	17.88		

Tower Forces - Service - Wind Normal To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl. Face
T1	0.03	0.66	A	0.141	2.806	10	1	1	4.100	0.14	14.03	C
280.00-270.00			B	0.141	2.806		1	1	4.100			
			C	0.154	2.756		1	1	4.512			
T2	0.07	1.37	A	0.137	2.821	10	1	1	7.995	0.28	14.00	C
270.00-250.00			B	0.137	2.821		1	1	7.995			
			C	0.157	2.746		1	1	9.225			
T3	0.21	1.91	A	0.157	2.744	10	1	1	9.323	0.46	22.83	A
250.00-230.00			B	0.157	2.744		1	1	9.323			

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl. Face
			C	0.181	2.661		1	1	10.771			
T4	0.11	1.23	A	0.345	2.184	10	1	1	15.657	0.40	40.17	A
230.00-220.00			B	0.345	2.184		1	1	15.657			
			C	0.345	2.184		1	1	15.657			
T5	0.21	2.70	A	0.225	2.514	10	1	1	25.670	0.76	37.81	A
220.00-200.00			B	0.225	2.514		1	1	25.670			
			C	0.225	2.514		1	1	25.670			
T6	0.43	2.95	A	0.207	2.574	9	1	1	30.821	0.98	49.01	A
200.00-180.00			B	0.207	2.574		1	1	30.821			
			C	0.207	2.574		1	1	30.821			
T7	0.70	4.20	A	0.198	2.603	9	1	1	36.106	1.28	64.18	C
180.00-160.00			B	0.198	2.603		1	1	36.106			
			C	0.198	2.603		1	1	36.106			
T8	0.90	4.86	A	0.179	2.668	9	1	1	37.951	1.43	71.26	C
160.00-140.00			B	0.179	2.668		1	1	37.951			
			C	0.179	2.668		1	1	37.951			
T9	1.20	4.75	A	0.153	2.761	8	1	1	36.612	1.52	75.89	C
140.00-120.00			B	0.153	2.761		1	1	36.612			
			C	0.153	2.761		1	1	36.612			
T10	1.20	7.08	A	0.145	2.789	8	1	1	36.980	1.46	73.05	C
120.00-100.00			B	0.145	2.789		1	1	36.980			
			C	0.145	2.789		1	1	36.980			
T11	1.20	7.19	A	0.133	2.836	8	1	1	37.573	1.40	70.07	C
100.00-80.00			B	0.133	2.836		1	1	37.573			
			C	0.133	2.836		1	1	37.573			
T12	1.20	7.93	A	0.126	2.86	7	1	1	39.313	1.34	66.97	C
80.00-60.00			B	0.126	2.86		1	1	39.313			
			C	0.126	2.86		1	1	39.313			
T13	1.20	8.05	A	0.118	2.893	6	1	1	40.204	1.24	61.87	C
60.00-40.00			B	0.118	2.893		1	1	40.204			
			C	0.118	2.893		1	1	40.204			
T14	1.20	9.01	A	0.115	2.905	5	1	1	42.375	1.10	55.05	C
40.00-20.00			B	0.115	2.905		1	1	42.375			
			C	0.115	2.905		1	1	42.375			
T15	0.57	9.15	A	0.109	2.93	5	1	1	43.319	0.82	40.94	C
20.00-0.00			B	0.109	2.93		1	1	43.319			
			C	0.109	2.93		1	1	43.319			
Sum Weight:	10.43	73.02						OTM	1769.38 kip-ft	14.60		

Tower Forces - Service - Wind 60 To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl. Face
T1	0.03	0.66	A	0.141	2.806	10	0.8	1	4.100	0.14	14.03	C
280.00-270.00			B	0.141	2.806		0.8	1	4.100			
			C	0.154	2.756		0.8	1	4.512			
T2	0.07	1.37	A	0.137	2.821	10	0.8	1	7.995	0.28	14.00	C
270.00-250.00			B	0.137	2.821		0.8	1	7.995			
			C	0.157	2.746		0.8	1	9.225			
T3	0.21	1.91	A	0.157	2.744	10	0.8	1	9.323	0.46	22.83	B
250.00-230.00			B	0.157	2.744		0.8	1	9.323			

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl. Face
			C	0.181	2.661		0.8	1	10.771			
T4	0.11	1.23	A	0.345	2.184	10	0.8	1	14.810	0.39	38.63	B
230.00-220.00			B	0.345	2.184		0.8	1	14.810			
			C	0.345	2.184		0.8	1	14.810			
T5	0.21	2.70	A	0.225	2.514	10	0.8	1	23.577	0.71	35.67	B
220.00-200.00			B	0.225	2.514		0.8	1	23.577			
			C	0.225	2.514		0.8	1	23.577			
T6	0.43	2.95	A	0.207	2.574	9	0.8	1	27.678	0.92	45.81	B
200.00-180.00			B	0.207	2.574		0.8	1	27.678			
			C	0.207	2.574		0.8	1	27.678			
T7	0.70	4.20	A	0.198	2.603	9	0.8	1	32.135	1.20	60.22	A
180.00-160.00			B	0.198	2.603		0.8	1	32.135			
			C	0.198	2.603		0.8	1	32.135			
T8	0.90	4.86	A	0.179	2.668	9	0.8	1	33.776	1.34	67.14	A
160.00-140.00			B	0.179	2.668		0.8	1	33.776			
			C	0.179	2.668		0.8	1	33.776			
T9	1.20	4.75	A	0.153	2.761	8	0.8	1	32.685	1.44	72.05	A
140.00-120.00			B	0.153	2.761		0.8	1	32.685			
			C	0.153	2.761		0.8	1	32.685			
T10	1.20	7.08	A	0.145	2.789	8	0.8	1	34.142	1.41	70.37	A
120.00-100.00			B	0.145	2.789		0.8	1	34.142			
			C	0.145	2.789		0.8	1	34.142			
T11	1.20	7.19	A	0.133	2.836	8	0.8	1	34.608	1.35	67.39	A
100.00-80.00			B	0.133	2.836		0.8	1	34.608			
			C	0.133	2.836		0.8	1	34.608			
T12	1.20	7.93	A	0.126	2.86	7	0.8	1	36.171	1.29	64.30	A
80.00-60.00			B	0.126	2.86		0.8	1	36.171			
			C	0.126	2.86		0.8	1	36.171			
T13	1.20	8.05	A	0.118	2.893	6	0.8	1	36.879	1.19	59.28	A
60.00-40.00			B	0.118	2.893		0.8	1	36.879			
			C	0.118	2.893		0.8	1	36.879			
T14	1.20	9.01	A	0.115	2.905	5	0.8	1	38.864	1.05	52.67	A
40.00-20.00			B	0.115	2.905		0.8	1	38.864			
			C	0.115	2.905		0.8	1	38.864			
T15	0.57	9.15	A	0.109	2.93	5	0.8	1	39.616	0.77	38.41	A
20.00-0.00			B	0.109	2.93		0.8	1	39.616			
			C	0.109	2.93		0.8	1	39.616			
Sum Weight:	10.43	73.02						OTM	1690.01 kip-ft	13.93		

Tower Forces - Service - Wind 90 To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl. Face
T1	0.03	0.66	A	0.141	2.806	10	0.85	1	4.100	0.14	14.03	C
280.00-270.00			B	0.141	2.806		0.85	1	4.100			
			C	0.154	2.756		0.85	1	4.512			
T2	0.07	1.37	A	0.137	2.821	10	0.85	1	7.995	0.28	14.00	C
270.00-250.00			B	0.137	2.821		0.85	1	7.995			
			C	0.157	2.746		0.85	1	9.225			
T3	0.21	1.91	A	0.157	2.744	10	0.85	1	9.323	0.48	24.13	C
250.00-230.00			B	0.157	2.744		0.85	1	9.323			

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F K	w plf	Ctrl. Face
			C	0.181	2.661		0.85	1	10.771			
T4	0.11	1.23	A	0.345	2.184	10	0.85	1	15.022	0.39	39.02	C
230.00-220.00			B	0.345	2.184		0.85	1	15.022			
			C	0.345	2.184		0.85	1	15.022			
T5	0.21	2.70	A	0.225	2.514	10	0.85	1	24.100	0.72	36.21	C
220.00-200.00			B	0.225	2.514		0.85	1	24.100			
			C	0.225	2.514		0.85	1	24.100			
T6	0.43	2.95	A	0.207	2.574	9	0.85	1	28.464	0.96	47.83	B
200.00-180.00			B	0.207	2.574		0.85	1	28.464			
			C	0.207	2.574		0.85	1	28.464			
T7	0.70	4.20	A	0.198	2.603	9	0.85	1	33.128	1.25	62.39	B
180.00-160.00			B	0.198	2.603		0.85	1	33.128			
			C	0.198	2.603		0.85	1	33.128			
T8	0.90	4.86	A	0.179	2.668	9	0.85	1	34.819	1.43	71.60	B
160.00-140.00			B	0.179	2.668		0.85	1	34.819			
			C	0.179	2.668		0.85	1	34.819			
T9	1.20	4.75	A	0.153	2.761	8	0.85	1	33.667	1.49	74.47	C
140.00-120.00			B	0.153	2.761		0.85	1	33.667			
			C	0.153	2.761		0.85	1	33.667			
T10	1.20	7.08	A	0.145	2.789	8	0.85	1	34.852	1.45	72.44	C
120.00-100.00			B	0.145	2.789		0.85	1	34.852			
			C	0.145	2.789		0.85	1	34.852			
T11	1.20	7.19	A	0.133	2.836	8	0.85	1	35.349	1.39	69.37	C
100.00-80.00			B	0.133	2.836		0.85	1	35.349			
			C	0.133	2.836		0.85	1	35.349			
T12	1.20	7.93	A	0.126	2.86	7	0.85	1	36.956	1.32	66.19	C
80.00-60.00			B	0.126	2.86		0.85	1	36.956			
			C	0.126	2.86		0.85	1	36.956			
T13	1.20	8.05	A	0.118	2.893	6	0.85	1	37.710	1.22	61.04	C
60.00-40.00			B	0.118	2.893		0.85	1	37.710			
			C	0.118	2.893		0.85	1	37.710			
T14	1.20	9.01	A	0.115	2.905	5	0.85	1	39.741	1.08	54.23	C
40.00-20.00			B	0.115	2.905		0.85	1	39.741			
			C	0.115	2.905		0.85	1	39.741			
T15	0.57	9.15	A	0.109	2.93	5	0.85	1	40.542	0.78	38.94	C
20.00-0.00			B	0.109	2.93		0.85	1	40.542			
			C	0.109	2.93		0.85	1	40.542			
Sum Weight:	10.43	73.02						OTM	1747.62 kip-ft	14.39		

Force Totals

Load Case	Vertical Forces K	Sum of Forces X K	Sum of Forces Z K	Sum of Overturning Moments, M_x kip-ft	Sum of Overturning Moments, M_z kip-ft	Sum of Torques kip-ft
Leg Weight	49.47					
Bracing Weight	23.55					
Total Member Self-Weight	73.02			-4.66	1.24	
Total Weight	104.93			-4.66	1.24	
Wind 0 deg - No Ice		-0.01	-51.47	-7285.32	2.04	-24.99
Wind 30 deg - No Ice		24.30	-42.10	-5968.06	-3440.81	3.41
Wind 60 deg - No Ice		41.97	-24.23	-3456.75	-5977.95	-0.39
Wind 90 deg - No Ice		50.54	0.01	-3.86	-7184.97	-28.27

Load Case	Vertical Forces K	Sum of Forces X K	Sum of Forces Z K	Sum of Overturning Moments, M_x kip-ft	Sum of Overturning Moments, M_z kip-ft	Sum of Torques kip-ft
Wind 120 deg - No Ice		44.23	25.54	3632.95	-6297.69	-25.19
Wind 150 deg - No Ice		25.27	43.76	6253.43	-3611.86	7.95
Wind 180 deg - No Ice		0.01	49.57	7030.13	0.45	24.99
Wind 210 deg - No Ice		-24.23	41.97	5925.47	3424.09	-3.41
Wind 240 deg - No Ice		-43.36	25.04	3531.94	6126.81	0.39
Wind 270 deg - No Ice		-50.38	-0.01	-5.45	7149.04	28.27
Wind 300 deg - No Ice		-42.71	-24.67	-3538.54	6120.52	25.19
Wind 330 deg - No Ice		-25.27	-43.76	-6262.74	3614.35	-7.95
Member Ice	86.97					
Total Weight Ice	288.31			-44.74	17.18	
Wind 0 deg - Ice		-0.00	-24.64	-3747.91	17.42	-8.75
Wind 30 deg - Ice		12.11	-20.98	-3193.53	-1800.50	0.86
Wind 60 deg - Ice		21.19	-12.23	-1875.51	-3153.80	2.70
Wind 90 deg - Ice		25.05	0.00	-44.50	-3727.02	-10.43
Wind 120 deg - Ice		21.82	12.60	1826.88	-3224.07	-13.23
Wind 150 deg - Ice		12.29	21.29	3137.95	-1820.34	1.77
Wind 180 deg - Ice		0.00	24.01	3547.64	16.95	8.75
Wind 210 deg - Ice		-11.97	20.74	3044.48	1800.47	-0.86
Wind 240 deg - Ice		-21.27	12.28	1772.64	3164.97	-2.70
Wind 270 deg - Ice		-24.77	-0.00	-44.97	3692.60	10.43
Wind 300 deg - Ice		-21.50	-12.42	-1895.35	3222.06	13.23
Wind 330 deg - Ice		-12.29	-21.29	-3227.42	1854.71	-1.77
Total Weight	104.93			-4.66	1.24	
Wind 0 deg - Service		-0.00	-19.69	-2785.51	-0.70	-9.56
Wind 30 deg - Service		9.30	-16.11	-2281.51	-1317.98	1.30
Wind 60 deg - Service		16.06	-9.27	-1320.65	-2288.72	-0.15
Wind 90 deg - Service		19.34	0.00	0.46	-2750.54	-10.82
Wind 120 deg - Service		16.92	9.77	1391.95	-2411.06	-9.64
Wind 150 deg - Service		9.67	16.74	2394.58	-1383.43	3.04
Wind 180 deg - Service		0.00	18.96	2691.76	-1.31	9.56
Wind 210 deg - Service		-9.27	16.06	2269.10	1308.61	-1.30
Wind 240 deg - Service		-16.59	9.58	1353.31	2342.71	0.15
Wind 270 deg - Service		-19.28	-0.00	-0.14	2733.83	10.82
Wind 300 deg - Service		-16.34	-9.44	-1351.95	2340.30	9.64
Wind 330 deg - Service		-9.67	-16.74	-2394.26	1381.41	-3.04

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.6 Wind 0 deg - No Ice
3	0.9 Dead+1.6 Wind 0 deg - No Ice
4	1.2 Dead+1.6 Wind 30 deg - No Ice
5	0.9 Dead+1.6 Wind 30 deg - No Ice
6	1.2 Dead+1.6 Wind 60 deg - No Ice
7	0.9 Dead+1.6 Wind 60 deg - No Ice
8	1.2 Dead+1.6 Wind 90 deg - No Ice
9	0.9 Dead+1.6 Wind 90 deg - No Ice
10	1.2 Dead+1.6 Wind 120 deg - No Ice
11	0.9 Dead+1.6 Wind 120 deg - No Ice
12	1.2 Dead+1.6 Wind 150 deg - No Ice
13	0.9 Dead+1.6 Wind 150 deg - No Ice
14	1.2 Dead+1.6 Wind 180 deg - No Ice
15	0.9 Dead+1.6 Wind 180 deg - No Ice
16	1.2 Dead+1.6 Wind 210 deg - No Ice

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

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T1	280 - 270	Leg	Max Tension	7	6.25	0.47	-0.20
			Max. Compression	10	-9.03	-0.16	-0.09
			Max. Mx	8	-8.07	0.52	-0.01
			Max. My	2	-1.39	-0.04	0.53
			Max. Vy	8	1.30	-0.18	-0.01
			Max. Vx	2	-1.29	0.02	0.19
		Diagonal	Max Tension	8	1.70	0.00	0.00
			Max. Compression	8	-1.75	0.00	0.00
			Max. Mx	33	0.77	-0.01	0.00
			Max. My	6	-1.41	-0.00	0.00
			Max. Vy	32	0.01	-0.01	-0.00
			Max. Vx	6	0.00	0.00	0.00
		Horizontal	Max Tension	14	0.26	0.00	0.00
			Max. Compression	3	-0.17	0.00	0.00
			Max. Mx	26	0.13	0.03	0.00
			Max. My	35	0.17	0.00	0.00
			Max. Vy	26	-0.02	0.00	0.00
			Max. Vx	35	-0.00	0.00	0.00
		Top Girt	Max Tension	18	0.70	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Compression	6	-0.71	0.00	0.00
			Max. Mx	26	-0.03	0.03	0.00
			Max. My	28	-0.03	0.00	-0.00
			Max. Vy	26	-0.02	0.00	0.00
			Max. Vx	28	0.00	0.00	0.00
		Bottom Girt	Max Tension	14	0.71	0.00	0.00
			Max. Compression	10	-0.68	0.00	0.00
			Max. Mx	26	0.04	0.03	0.00
			Max. My	28	0.04	0.00	-0.00
			Max. Vy	26	-0.02	0.00	0.00
			Max. Vx	28	0.00	0.00	0.00
		Mid Girt	Max Tension	33	0.13	0.00	0.00
			Max. Compression	3	-0.01	0.00	0.00
			Max. Mx	26	0.01	0.03	0.00
			Max. My	28	0.01	0.00	-0.00
			Max. Vy	26	-0.02	0.00	0.00
			Max. Vx	28	0.00	0.00	0.00
T2	270 - 250	Leg	Max Tension	7	24.83	0.62	-0.31
			Max. Compression	2	-28.59	0.01	0.30
			Max. Mx	8	-9.24	-0.78	-0.00
			Max. My	2	-8.88	0.08	0.78
			Max. Vy	8	1.80	-0.28	-0.04
			Max. Vx	2	-1.86	0.01	0.30
		Diagonal	Max Tension	8	2.25	0.00	0.00
			Max. Compression	8	-2.30	0.00	0.00
			Max. Mx	34	0.82	-0.01	-0.00
			Max. My	6	-1.70	-0.00	0.00
			Max. Vy	34	0.01	-0.01	-0.00
			Max. Vx	6	0.00	0.00	0.00
		Horizontal	Max Tension	14	0.42	0.00	0.00
			Max. Compression	3	-0.33	0.00	0.00
			Max. Mx	26	0.16	0.03	0.00
			Max. My	22	-0.13	0.00	-0.00
			Max. Vy	26	-0.02	0.00	0.00
			Max. Vx	22	0.00	0.00	0.00
		Top Girt	Max Tension	10	0.79	0.00	0.00
			Max. Compression	6	-0.80	0.00	0.00
			Max. Mx	26	-0.01	0.03	0.00
			Max. My	28	-0.02	0.00	-0.00
			Max. Vy	26	0.02	0.00	0.00
			Max. Vx	28	-0.00	0.00	0.00
		Bottom Girt	Max Tension	14	0.92	0.00	0.00
			Max. Compression	3	-0.90	0.00	0.00
			Max. Mx	26	0.05	0.03	0.00
			Max. My	22	-0.37	0.00	-0.00
			Max. Vy	26	0.02	0.00	0.00
			Max. Vx	22	0.00	0.00	0.00
		Mid Girt	Max Tension	14	0.27	0.00	0.00
			Max. Compression	3	-0.18	0.00	0.00
			Max. Mx	26	0.04	0.03	0.00
			Max. My	10	0.06	0.00	0.00
			Max. Vy	26	0.02	0.00	0.00
			Max. Vx	10	0.00	0.00	0.00
T3	250 - 230	Leg	Max Tension	7	64.38	0.39	-0.19
			Max. Compression	2	-73.97	0.06	2.68
			Max. Mx	8	-65.52	-2.33	-0.71
			Max. My	2	-73.97	0.06	2.68
			Max. Vy	8	5.03	-2.33	-0.71
			Max. Vx	2	-5.71	0.06	2.68
		Diagonal	Max Tension	24	4.94	0.00	0.00
			Max. Compression	12	-5.02	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Mx	27	1.85	-0.01	0.00
			Max. My	8	-3.95	-0.00	0.00
			Max. Vy	27	0.02	-0.01	0.00
			Max. Vx	8	0.00	0.00	0.00
		Horizontal	Max Tension	14	0.74	0.00	0.00
			Max. Compression	3	-0.61	0.00	0.00
			Max. Mx	26	0.28	0.03	0.00
			Max. My	8	0.07	0.00	-0.00
			Max. Vy	26	-0.02	0.00	0.00
			Max. Vx	8	0.00	0.00	0.00
		Top Girt	Max Tension	10	1.47	0.00	0.00
			Max. Compression	6	-1.46	0.00	0.00
			Max. Mx	26	0.02	0.04	0.00
			Max. My	10	-0.73	0.00	0.00
			Max. Vy	26	-0.03	0.00	0.00
			Max. Vx	10	-0.00	0.00	0.00
		Bottom Girt	Max Tension	14	1.03	0.00	0.00
			Max. Compression	3	-0.92	0.00	0.00
			Max. Mx	26	0.08	0.04	0.00
			Max. My	8	0.03	0.00	-0.00
			Max. Vy	26	-0.03	0.00	0.00
			Max. Vx	8	0.00	0.00	0.00
T4	230 - 220	Leg	Max Tension	7	68.24	-2.54	-0.04
			Max. Compression	2	-77.36	3.74	-0.04
			Max. Mx	6	67.10	-4.19	-0.04
			Max. My	8	-5.30	-0.23	6.37
			Max. Vy	6	0.33	-4.19	-0.04
			Max. Vx	8	-0.72	-0.23	6.37
		Diagonal	Max Tension	23	4.82	0.05	-0.01
			Max. Compression	10	-5.48	0.00	0.00
			Max. Mx	6	4.18	0.05	0.00
			Max. My	24	-4.72	-0.04	-0.02
			Max. Vy	29	0.03	0.05	-0.01
			Max. Vx	29	0.00	0.00	0.00
T5	220 - 200	Leg	Max Tension	23	93.03	-3.58	-0.03
			Max. Compression	10	-105.20	4.61	0.03
			Max. Mx	10	-105.20	4.61	0.03
			Max. My	8	-6.30	-0.23	6.37
			Max. Vy	10	-0.24	4.61	0.03
			Max. Vx	8	0.49	-0.07	5.19
		Diagonal	Max Tension	24	4.93	0.00	0.00
			Max. Compression	10	-5.18	0.00	0.00
			Max. Mx	27	0.50	0.09	-0.01
			Max. My	28	0.93	0.08	-0.02
			Max. Vy	30	0.05	0.08	0.01
			Max. Vx	29	0.00	0.00	0.00
T6	200 - 180	Leg	Max Tension	23	116.71	-3.20	-0.01
			Max. Compression	10	-132.58	4.95	0.11
			Max. Mx	10	-132.58	4.95	0.11
			Max. My	8	-7.50	-0.10	4.31
			Max. Vy	6	-0.79	-4.28	0.01
			Max. Vx	8	0.67	-0.10	4.31
		Diagonal	Max Tension	23	6.65	0.00	0.00
			Max. Compression	10	-7.67	0.00	0.00
			Max. Mx	29	0.93	0.09	-0.01
			Max. My	34	-1.11	0.06	0.01
			Max. Vy	29	0.06	0.09	-0.01
			Max. Vx	27	0.00	0.00	0.00
		Top Girt	Max Tension	22	3.40	0.00	0.00
			Max. Compression	11	-2.71	0.00	0.00
			Max. Mx	26	1.01	-0.14	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. My	37	0.36	0.00	0.00
			Max. Vy	26	0.07	0.00	0.00
			Max. Vx	37	0.00	0.00	0.00
		Mid Girt	Max Tension	22	4.16	0.00	0.00
			Max. Compression	11	-3.19	0.00	0.00
			Max. Mx	26	1.43	-0.18	0.00
			Max. My	37	0.67	0.00	0.01
			Max. Vy	26	0.08	0.00	0.00
			Max. Vx	37	-0.00	0.00	0.00
T7	180 - 160	Leg	Max Tension	23	146.36	-3.34	0.02
			Max. Compression	10	-168.13	5.10	0.04
			Max. Mx	10	-168.13	5.10	0.04
			Max. My	8	-9.91	-0.12	4.36
			Max. Vy	22	-0.82	-4.79	-0.11
			Max. Vx	24	1.00	-0.12	4.33
		Diagonal	Max Tension	23	8.51	0.00	0.00
			Max. Compression	10	-9.87	0.00	0.00
			Max. Mx	29	1.07	0.13	-0.02
			Max. My	37	-2.96	0.09	-0.02
			Max. Vy	29	0.08	0.13	-0.02
			Max. Vx	31	-0.00	0.00	0.00
		Top Girt	Max Tension	22	5.31	0.00	0.00
			Max. Compression	11	-4.13	0.00	0.00
			Max. Mx	26	1.81	-0.30	0.00
			Max. My	37	0.85	0.00	0.01
			Max. Vy	26	0.12	0.00	0.00
			Max. Vx	37	0.00	0.00	0.00
		Mid Girt	Max Tension	22	5.62	0.00	0.00
			Max. Compression	11	-4.32	0.00	0.00
			Max. Mx	26	2.05	-0.36	0.00
			Max. My	37	1.07	0.00	0.01
			Max. Vy	26	0.13	0.00	0.00
			Max. Vx	37	0.00	0.00	0.00
T8	160 - 140	Leg	Max Tension	23	182.78	-3.53	-0.03
			Max. Compression	10	-214.15	4.14	0.02
			Max. Mx	10	-189.52	5.10	0.04
			Max. My	8	-14.57	-0.25	6.17
			Max. Vy	6	-1.23	-4.56	0.03
			Max. Vx	20	-0.76	0.19	-2.51
		Diagonal	Max Tension	12	9.92	0.00	0.00
			Max. Compression	12	-9.91	0.00	0.00
			Max. Mx	27	2.91	0.20	0.02
			Max. My	37	-2.68	0.11	-0.03
			Max. Vy	37	0.10	0.18	-0.03
			Max. Vx	37	0.01	0.00	0.00
		Top Girt	Max Tension	22	4.37	0.00	0.00
			Max. Compression	11	-3.39	0.00	0.00
			Max. Mx	26	1.56	-0.41	0.00
			Max. My	37	0.81	0.00	0.01
			Max. Vy	26	-0.14	0.00	0.00
			Max. Vx	37	-0.00	0.00	0.00
T9	140 - 120	Leg	Max Tension	23	222.74	-4.11	0.00
			Max. Compression	10	-261.94	9.45	0.26
			Max. Mx	10	-261.94	9.45	0.26
			Max. My	8	-20.04	0.08	8.97
			Max. Vy	14	-1.44	-4.08	-0.06
			Max. Vx	8	1.64	-0.07	3.97
		Diagonal	Max Tension	13	11.41	0.00	0.00
			Max. Compression	12	-11.91	0.00	0.00
			Max. Mx	27	3.57	0.22	0.02
			Max. My	37	-2.48	0.17	-0.03

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vy	37	0.11	0.22	-0.03
			Max. Vx	37	0.01	0.00	0.00
T10	120 - 100	Leg	Max Tension	23	249.21	-9.07	-0.26
			Max. Compression	10	-292.10	9.34	0.21
			Max. Mx	22	243.17	-11.12	-0.23
			Max. My	24	-22.19	-1.04	17.13
			Max. Vy	22	0.49	-11.12	-0.23
			Max. Vx	8	-0.83	-1.05	17.10
		Diagonal	Max Tension	15	15.50	0.00	0.00
			Max. Compression	2	-16.95	0.00	0.00
			Max. Mx	37	3.06	-0.57	0.08
			Max. My	37	-4.59	-0.40	0.11
			Max. Vy	37	-0.20	-0.57	0.08
			Max. Vx	37	-0.02	0.00	0.00
T11	100 - 80	Leg	Max Tension	23	288.84	-10.83	-0.23
			Max. Compression	10	-339.87	13.66	0.21
			Max. Mx	10	-339.87	13.66	0.21
			Max. My	24	-24.08	-1.04	17.13
			Max. Vy	10	-0.51	13.66	0.21
			Max. Vx	8	0.87	-1.05	17.10
		Diagonal	Max Tension	12	16.15	0.00	0.00
			Max. Compression	12	-16.78	0.00	0.00
			Max. Mx	37	4.08	-0.65	0.10
			Max. My	37	4.08	-0.65	0.10
			Max. Vy	37	-0.22	-0.65	-0.10
			Max. Vx	37	0.01	0.00	0.00
T12	80 - 60	Leg	Max Tension	23	324.75	-12.15	-0.21
			Max. Compression	10	-383.56	9.78	0.18
			Max. Mx	10	-381.36	13.66	0.21
			Max. My	24	-29.54	-1.20	15.37
			Max. Vy	33	-0.48	-5.24	-0.06
			Max. Vx	8	-0.77	-1.20	15.36
		Diagonal	Max Tension	12	15.86	0.00	0.00
			Max. Compression	12	-16.42	0.00	0.00
			Max. Mx	37	2.65	-0.74	0.11
			Max. My	31	-0.86	-0.60	-0.11
			Max. Vy	37	-0.24	-0.74	0.11
			Max. Vx	31	-0.02	0.00	0.00
T13	60 - 40	Leg	Max Tension	23	358.32	-11.41	-0.19
			Max. Compression	10	-424.45	14.20	0.16
			Max. Mx	10	-424.45	14.20	0.16
			Max. My	24	-30.70	-1.20	15.37
			Max. Vy	33	0.82	-12.31	-0.04
			Max. Vx	8	0.84	-1.20	15.36
		Diagonal	Max Tension	13	16.17	0.00	0.00
			Max. Compression	2	-17.58	0.00	0.00
			Max. Mx	37	4.91	-0.80	0.11
			Max. My	37	4.91	-0.80	0.11
			Max. Vy	37	-0.25	-0.80	-0.11
			Max. Vx	37	0.01	0.00	0.00
T14	40 - 20	Leg	Max Tension	23	392.91	-12.12	-0.17
			Max. Compression	2	-468.65	10.01	0.10
			Max. Mx	10	-466.04	14.20	0.16
			Max. My	24	-37.63	-1.76	23.38
			Max. Vy	33	-1.15	-12.31	-0.04
			Max. Vx	8	-1.20	-1.76	23.28
		Diagonal	Max Tension	2	16.73	0.00	0.00
			Max. Compression	12	-16.05	0.00	0.00
			Max. Mx	37	0.64		

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-filestream-

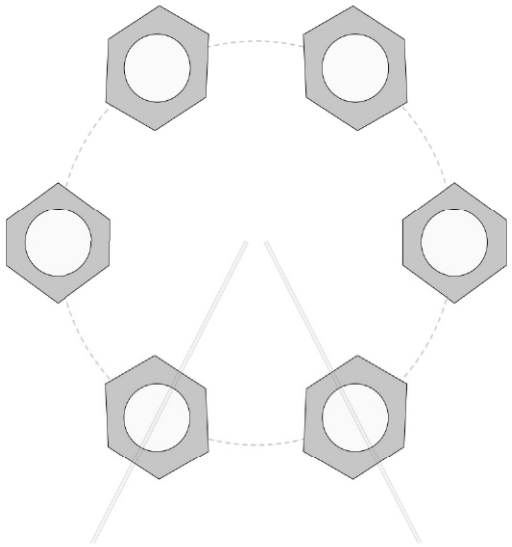
Self Support Anchor Rod Capacity

Analysis Considerations	
TIA-222 Revision	G
Grout Considered:	Yes
Eta Factor, η	0.55

Applied Loads		
	Comp.	Uplift
Axial Force (kips)	526.00	437.00
Shear Force (kips)	55.00	47.00

Considered Eccentricity	
Leg Mod Eccentricity (in)	0.000
Anchor Rod N.A Shift (in)	0.000
Total Eccentricity (in)	0.000

**Anchor Rod Eccentricity Applied*



Connection Properties

Anchor Rod Data

(6) 2" ø bolts (A687 N; Fy=105 ksi, Fu=125 ksi)

l_{ar} *(in):* ***3.5***

Analysis Results

Anchor Rod Summary		*(units of kips, kip-in)*
Pu_t = 72.83	ϕPn_t = 250	**Stress Rating**
Vu = 7.83	ϕVn = n/a	**34.8%**
Mu = n/a	ϕMn = n/a	**Pass**

Analysis Date: 12/14/2020

SST Unit Base Foundation

TIA-222 Revision:	G

Top & Bot. Pad Rein. Different?:	☐
Tower Centroid Offset?:	☐
Block Foundation?:	☐

Superstructure Analysis Reactions		
Global Moment, **M**:	11733	ft-kips
Global Axial, **P**:	126	kips
Global Shear, **V**:	82	kips
Leg Compression, $\mathbf{P_{comp}}$:	526	kips
Leg Comp. Shear, $\mathbf{V_{u\_comp}}$:	55	kips
Leg Uplift, $\mathbf{P_{uplift}}$:	437	kips
Leg Uplift. Shear, $\mathbf{V_{u\_uplift}}$:	47	kips
Tower Height, **H**:	280	ft
Base Face Width, **BW**:	28	ft
BP Dist. Above Fdn, $\mathbf{bp_{dist}}$:		in

Foundation Analysis Checks	Capacity	Demand	Rating	Check
Lateral (Sliding) (kips)	534.06	82.00	**15.4%**	**Pass**
Bearing Pressure (ksf)	7.50	2.05	**27.3%**	**Pass**
*Overturning (kip*ft)*	21227.83	12266.00	**57.8%**	**Pass**
*Pier Flexure (Comp.) (kip*ft)*	3284.13	178.75	**5.4%**	**Pass**
*Pier Flexure (Tension) (kip*ft)*	1790.24	152.75	**8.5%**	**Pass**
Pier Compression (kip)	9815.13	540.63	**5.5%**	**Pass**
*Pad Flexure (kip*ft)*	13519.41	1909.22	**14.1%**	**Pass**
Pad Shear - 1-way (kips)	1485.15	296.40	**20.0%**	**Pass**
Pad Shear - Comp 2-way (ksi)	0.190	0.055	**28.8%**	**Pass**

Pier Properties		
Pier Shape:	Square	
Pier Diameter, **dpier**:	5.0	ft
Ext. Above Grade, **E**:	0.50	ft
Pier Rebar Size, **Sc**:	9	
Pier Rebar Quantity, **mc**:	23	
Pier Tie/Spiral Size, **St**:	4	
Pier Tie/Spiral Quantity, **mt**:		
Pier Reinforcement Type:	Tie	
Pier Clear Cover, $\mathbf{cc_{pier}}$:	3	in

Soil Rating:	**57.8%**
Structural Rating:	**28.8%**

Pad Properties		
Depth, **D**:	6.00	ft
Pad Width, **W**:	38.50	ft
Pad Thickness, **T**:	3.25	ft
Pad Rebar Size (Bottom), **Sp**:	11	
Pad Rebar Quantity (Bottom), **mp**:	60	
Pad Clear Cover, $\mathbf{cc_{pad}}$:	3	in

Material Properties		
Rebar Grade, **Fy**:	60	ksi
Concrete Compressive Strength, **F'c**:	4	ksi
Dry Concrete Density, δ**c**:	150	pcf

Soil Properties		
Total Soil Unit Weight, γ:	120	pcf
Ultimate Gross Bearing, Qult:	10.000	ksf
Cohesion, **Cu**:	0.000	ksf
Friction Angle, φ:	30	degrees
SPT Blow Count, $\mathbf{N_{blows}}$:		
Base Friction, μ:	0.45	
Neglected Depth, **N**:	3.3	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, **gw**:	None	ft

<-- Toggle between Gross and Net

Maser Consulting Connecticut
2000 Midlantic Drive Suite 100
Mt. Laurel, NJ 08054
(215)962-5934
peter.albano@colliersengineering.com

New/Replacement Antenna Mount Analysis Report and PMI Requirements

Mount Analysis-R

SMART Tool Project #: 10143537
Maser Consulting Connecticut Project #: 20777396A

April 12, 2022

Site Information	*Site ID:*	*469060-VZW / Woodbridge North CT*
	Site Name:	*Woodbridge North CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*6 Progress Ave* *Seymour, Connecticut 06483* *New Haven County*
	Latitude:	*41.391528°*
	Longitude:	*-73.053333°*
Structure Information	*Tower Type:*	*250-Ft Self Support*
	Mount Type:	*12.50-Ft Sector Frame*

FUZE ID # 16244103

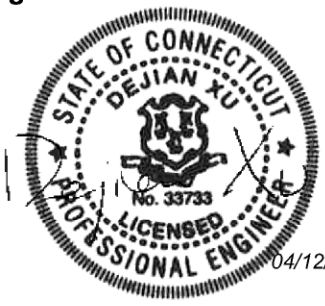
Analysis Results

Sector Frame: **47.3% Pass w/ Mount Replacement***
(3 VFA12-HD)

***Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.**

******Contractor PMI Requirements*:**
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Garrett Smith



04/12/2022

Executive Summary:

The objective of this report is to determine the capacity of the proposed antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. The proposed mount was assumed to be installed properly to the existing tower per the manufacturer's instructions. Maser Consulting Connecticut cannot verify that the proposed mount will fit properly and is not liable for any fit-up issues during installation.

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: 1126653, dated November 17, 2020*
Mount Specification	*Site Pro 1, P/N: VFA12-HD*
Mount Specification	*Site Pro 1, P/N: BCAM-HDLL*
Previous Mount Analysis Report	*Maser Consulting Connecticut, Project #: 20777396A, dated December 3, 2020*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	118 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	B
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.983
Seismic Parameters:	S_S:	0.20 g
	S_1:	0.05 g
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, Lv:	250 lbs.
	Maintenance Live Load, Lm:	500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
140.00	140.00	6	JMA Wireless	MX06FRO660-03	Added
		3	Samsung	nL-Sub 6 Antenna	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		6	Antel	LPA-80063/6CF	Retained
		1	Raycap	RHSDC-3315-PF-48*	

* Equipment is flush mounted directly to the Self Support. It is not mounted on the sector frame mounts and is not included in this mount analysis.

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

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.

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

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

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

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

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

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

Analysis Results:

Component	Utilization %	Pass/Fail
Tieback	*38.6%*	*Pass*
Standoff Vertical	*6.1%*	*Pass*
Antenna Pipe	*40.3%*	*Pass*
Standoff Diagonal	*8.6%*	*Pass*
Standoff Plate	*47.3%*	*Pass*
Standoff Horizontal	*19.1%*	*Pass*
Face Horizontal	*26.7%*	*Pass*
Connection Check	*16.0%*	*Pass*

Structure Rating – *(Controlling Utilization of all Components)*	**47.3%**

Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	14.5	12.4	23.6	21.5
0.5	22.8	20.3	35.8	33.3
1	30.5	27.7	47.3	44.5

Notes:
- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 1 sector(s).
- Ka factors included in (EPA)a calculations

Requirements:

The proposed antenna mounts are **SUFFICIENT** for the final loading configuration (attachment 2) upon completion of the mount replacement (attachment 3) and requirements below.

Contractor shall remove existing mounts and all associated hardware. Contractor shall wire brush clean all damaged mount members and protect with two (2) coats of cold galvanization (zinga or zinc kote).

Contractor shall install new mount such that mount centerline matches desired antenna centerline.

Contractor shall install the proposed mount such that mount azimuth matches the desired equipment azimuths listed in the referenced RFDS.

Contractor to attach mount to tower leg using tower leg adapter (Site Pro 1 Part #: BCAM-HDLL)

Install (4) mount pipes (Part #: VZWSMART-P40-238X096) in each sector. Space at 48" (C-C) and 3" from edge of the mount. Ensure the mount pipes extend 68" above the bottom face horizontal. Contractor shall attach mount pipes to face horizontals using crossover plates (VZWSMART – MSK1).

Contractor shall replace tiebacks in proposed mount with (12) new 96" P2X-STR pipes. Contractor to connect (2) pipes using a 36" long P3 STD sleeve pipe. Pipe to be bolted with a min. of (2) 5/8" dia. A325N bolts at each end. Install tiebacks on top face horizontal members, 39" from each end of the face horizontals on all sectors. Connect other end of tiebacks to adjacent tower legs. tieback shall extend no more than 12" beyond the tower leg. Contractor shall trim as required and protect cut end with two (2) coats of cold galvanization (Zinga or Zinc Kote).

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. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
2. Antenna Placement Diagrams
3. Mount Manufacturer Drawings
4. Existing Mount Photos
5. Analysis Calculations

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – New Mount Passing MA

Electronic pdf version of this can be downloaded at https://pmi.vzwsmart.com
For additional questions and support, please reach out to pmisupport@colliersengineering.com

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PSLC #: 469060 SMART Project #: 10143537 Fuze Project ID: 16244103

Purpose – to provide SMART Tool structural vendor the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

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

Base Requirements:

- If installation will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide "as built mount drawings" showing contractor's name, contact information, preparer's signature, and date. Any deviations from the drawings (Proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo should be time and date stamped.
- Photos should be high resolution.
- 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. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: ***https://pmi.vzwsmart.com***

Photo Requirements:

- *Photos taken at ground level*
  - Photo of Gate Signs showing the tower owner, site name, and number.
  - Overall tower structure after installation.
  - Photos of the mount after installation; if the mounts are at different rad elevations, pictures must be provided for all elevations that equipment was installed.
- *Photos taken at Mount Elevation*
  - Photos showing the safety climb wire rope above and below the mount prior to installation.
  - Photos showing the climbing facility and safety climb if present.
  - Photos showing each individual sector after installation of mounts. Each entire sector shall be in one photo to show the interconnection of members.

        - These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
    - Photos that show the model number of each antenna and piece of equipment installed per sector.
    - Photos of each installed mount; pictures shall also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
    - Photos showing the installed mount elevation.

Antenna & Equipment Placement and Geometry Confirmation:

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.

☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.

OR

☐ The contractor notes that the equipment on the mount is not in accordance with the sketch and has noted the differences below and provided photo documentation of any alterations.

Special Instructions / Validation as required from the MA or any other information the contractor deems necessary to share that was identified:

Issue:

Contractor shall remove existing mounts and all associated hardware. Contractor shall wire brush clean all damaged mount members and protect with two (2) coats of cold galvanization (zinga or zinc kote). Contractor shall install new mount such that mount centerline matches desired antenna centerline. Contractor shall install the proposed mount such that mount azimuth matches the desired equipment azimuths listed in the referenced RFDS. Contractor to attach mount to tower leg using tower leg adapter (Site Pro 1 Part #: BCAM-HDLL) Install (4) mount pipes (Part #: VZWSMART-P40-238X096) in each sector. Space at 48” (C-C) and 3” from edge of the mount. Ensure the mount pipes extend 68” above the bottom face horizontal. Contractor shall attach mount pipes to face horizontals using crossover plates (VZWSMART – MSK1). Contractor shall replace tiebacks in proposed mount with (12) new 96” P2X-STR pipes. Contractor to connect (2) pipes using a 36” long P3 STD sleeve pipe. Pipe to be bolted with a min. of (2) 5/8” dia. A325N bolts at each end. Install tiebacks on top face horizontal members, 39" from each end of the face horizontals on all sectors. Connect other end of tiebacks to adjacent tower legs. tieback shall extend no more than 12" beyond the tower leg. Contractor shall trim as required and protect cut end with two (2) coats of cold galvanization (Zinga or Zinc Kote).

Response:

Special Instruction Confirmation:

☐ The contractor has read and acknowledges the above special instructions.

Contractor certifies that the climbing facility / safety climb was not damaged prior to starting work:

☐ Yes ☐ No

Contractor certifies no new damage created during the current installation:

☐ Yes ☐ No

Contractor to certify the condition of the safety climb and verify no damage when leaving the site:

☐ Safety Climb in Good Condition ☐ Safety Climb Damaged

Comments:

New Mount Certification:

☐ The contractor certifies that the New Mount installed is as specified in the Passing Mount Analysis.

☐ The contractor notes that the New Mount installed is not as specified and engineering approval was received for the New Mount installed.

Certifying Individual:

Company:	
Employee Name:	
Contact Phone:	
Email:	
Date:	

Structure: 469060-VZW - Woodbridge North CT

Sector: **A**

Structure Type: Self Support

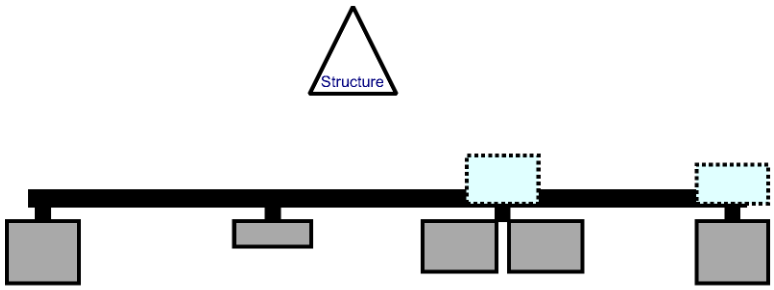
Mount Elev: 140.00

10143537

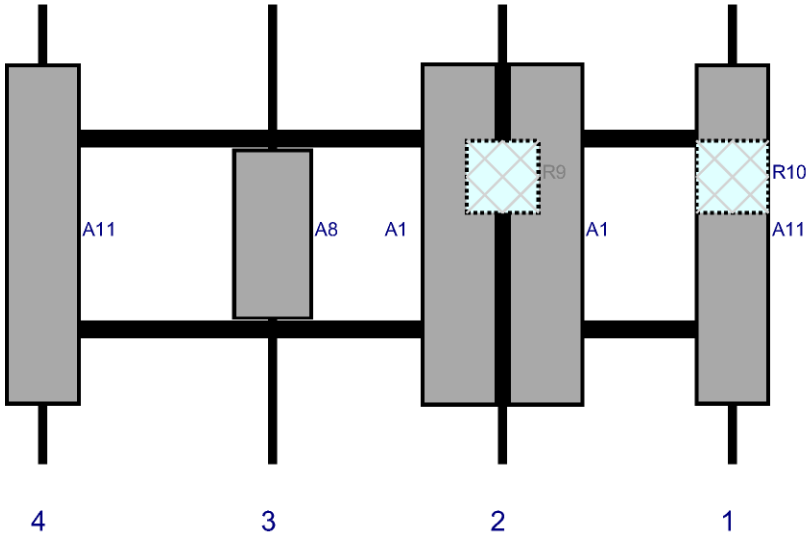
4/11/2022

Page: 1

Plan View



Front View - Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A11	LPA-80063/6CF	70.9	15	147	1	a	Front	48	0	Retained	11/13/2020
R10	B5/B13 RRH-BR04C	15	15	147	1	a	Behind	36	0	Added	
A1	MX06FRO660-03	71.3	15.4	99	2	a	Front	48	9	Added	
A1	MX06FRO660-03	71.3	15.4	99	2	b	Front	48	-9	Added	
R9	B2/B66A RRH-BR049	15	15	99	2	a	Behind	36	0	Added	
A8	nL-Sub 6 Antenna	35.1	16.1	51	3	a	Front	48	0	Added	
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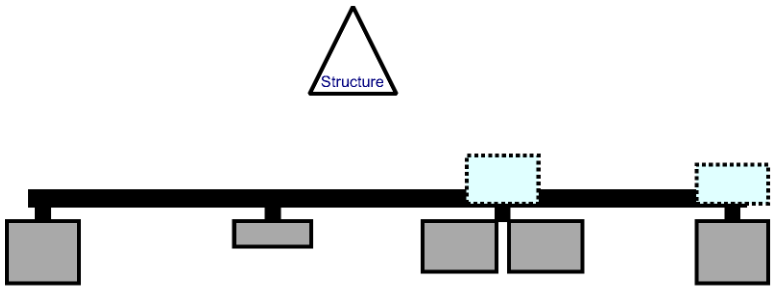
Plan View



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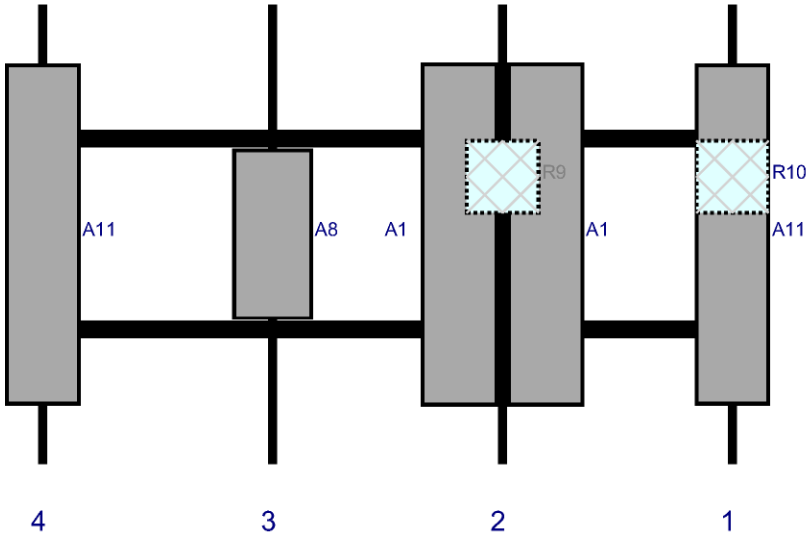

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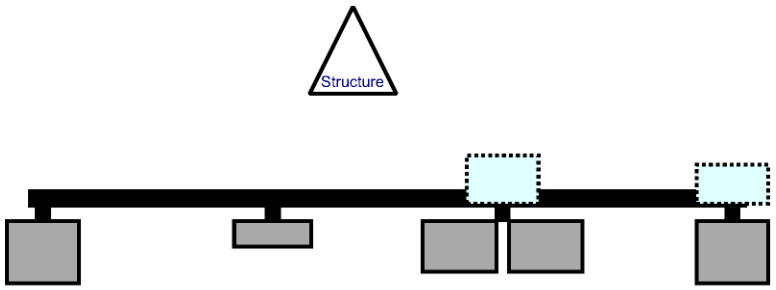

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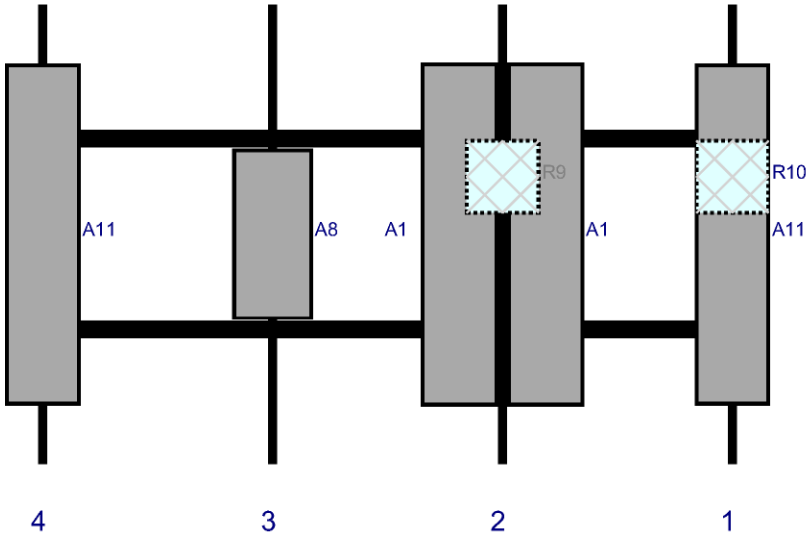

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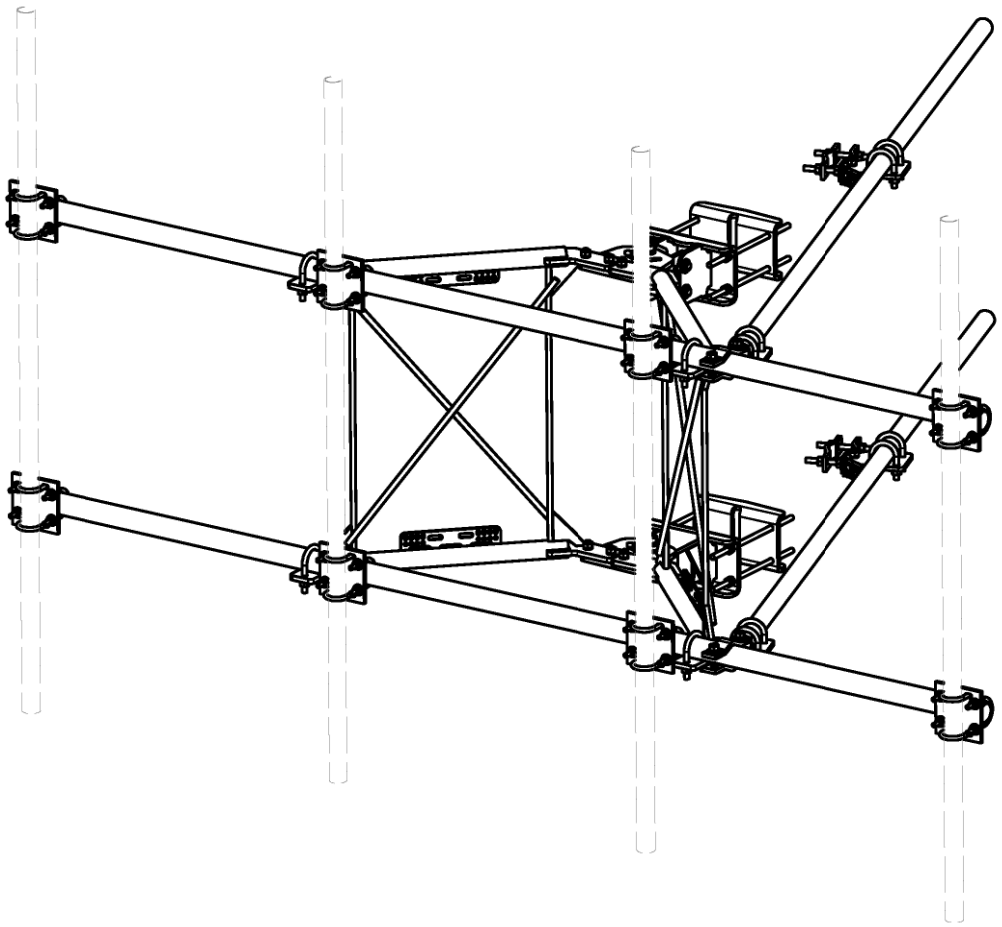


PARTS LIST

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	X-VFAW	SUPPORT ARM		71.41	142.81
2	1	X-HDCAMTBW	CLAMP WELDMENT FOR BCAM-HD		33.86	33.86
3	1	X-MHTPHD	MULTI-HOLE TAPER PLATE WELDMENT		36.24	36.24
4	2	X-VFAPL4	VFA-HD PIVOT PLATE	12 in	15.88	31.77
5	2	X-LCBP4	BENT BACKING PLATE	13 in	19.00	38.01
6	1	X-HDCAMSS	ANGLE ADJUSTMENT WELDMENT FOR BCAM-HD		16.39	16.39
7	4	X-SPTB	SLIDING PIPE TIE BACK PLATE	5 1/2 in	5.87	23.49
8	1	X-HDCAMSP	POSITIONING PLATE WELDMENT FOR BCAM-HD		2.58	2.58
9	4	X-TBCA	TIE BACK CLIP ANGLE		2.01	8.02
10	8	SCX2	CROSSOVER PLATE	7 in	4.80	38.37
11	4	MCP	CLAMP HALF 1/2" THICK, 11-5/8" LONG	12 1/16 in	3.59	14.37
12	8	DCP	1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF	8 1/8 in	2.36	18.90
13	2	P2126	2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE	126 in	40.75	81.50
14	2	P30150	2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE	150 in	76.94	153.87
15	4	A34212	3/4" x 2-1/2" UNC HEX BOLT (A325)	2 1/2 in	0.48	1.92
16	4	G34FW	3/4" HDG USS FLATWASHER		0.06	0.24
17	4	G34LW	3/4" HDG LOCKWASHER		0.04	0.17
18	4	G34NUT	3/4" HDG HEAVY 2H HEX NUT		0.21	0.85
19	8	G58R-18	5/8" x 18" THREADED ROD (HDG.)	18 in	0.40	3.19
20	4	G58R-12	5/8" x 12" THREADED ROD (HDG.)		1.05	4.18
21	4	G58R-8	5/8" x 8" THREADED ROD (HDG.)		0.70	2.79
22	4	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)		1.15	4.60
23	8	X-UB5258	5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)		1.00	8.00
24	2	G5807	5/8" x 7" HDG HEX BOLT GR5 FULL THREAD	7 in	0.70	1.41
25	1	G5806	5/8" x 6" HDG HEX BOLT GR5 FULL THREAD	6 in	0.62	0.62
26	8	G5804	5/8" x 4" HDG HEX BOLT GR5		0.44	3.55
27	4	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	1.08
28	8	A582114	5/8" x 2-1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	2.50
29	25	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	1.76
30	66	G58LW	5/8" HDG LOCKWASHER		0.03	1.72
31	71	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	9.22
32	32	X-UB1300	1/2" X 3" X 5" X 2" GALV U-BOLT		0.74	23.64
33	16	X-UB1212	1/2" X 2" X 3" X 1-1/4" U-BOLT (HDG.)		0.60	9.56
34	64	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	2.18
35	64	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.89
36	64	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	4.58
					TOTAL WT. #	738.06

REVISION HISTORY

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
D	UPDATED BCAM VERSION 1 TO BCAM VERSION 2		CEK	6/29/2018
C	UPDATED PIN LEG CONNECTION TO B-CAM CONNECTION		CEK	12/7/2017
B	CHANGED TIE-BACK BACK CONNECTION		CEK	7/31/2017
A	CHANGED TIE-BACK FRONT CONNECTION		CEK	2/2/2017

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
12' 6" HEAVY DUTY
V-FRAME ASSEMBLY
WITH TWO STIFF ARMS

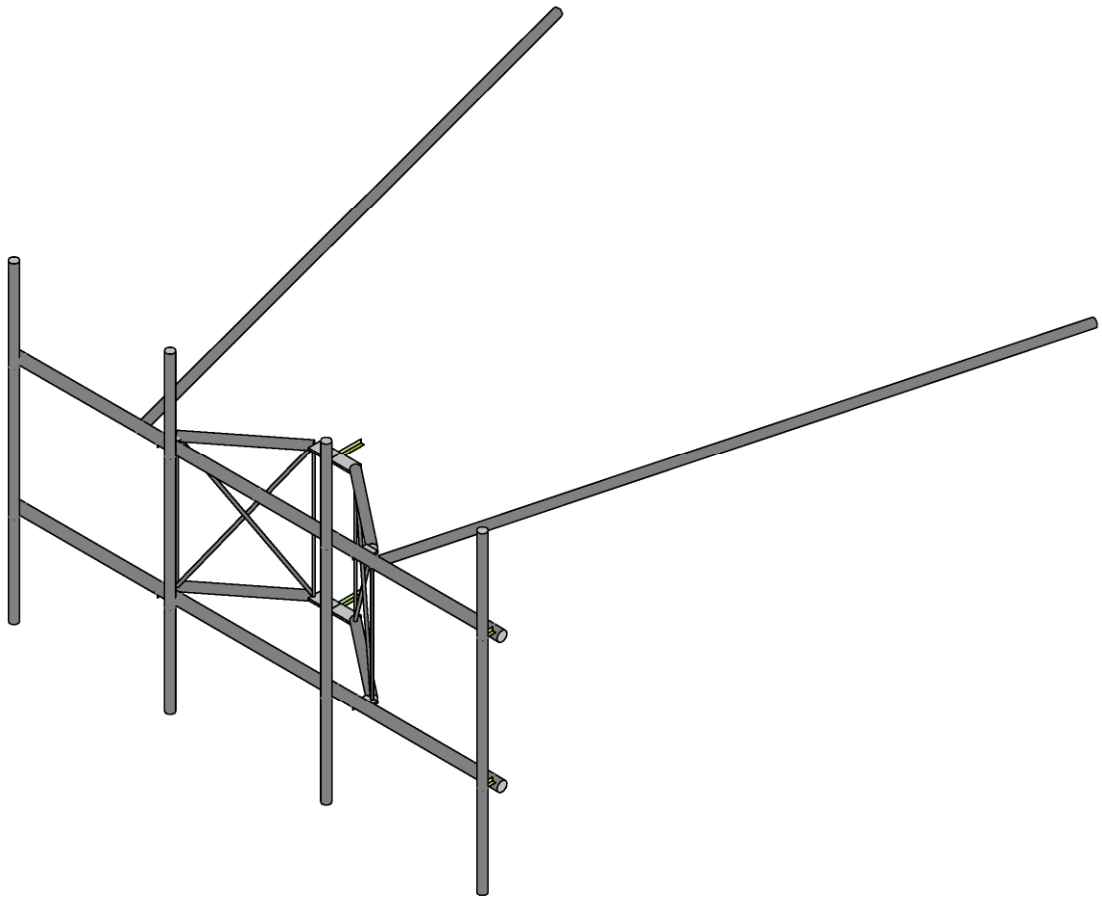
SITE PRO 1
A valmont COMPANY

Engineering Support Team:
1-888-753-7446

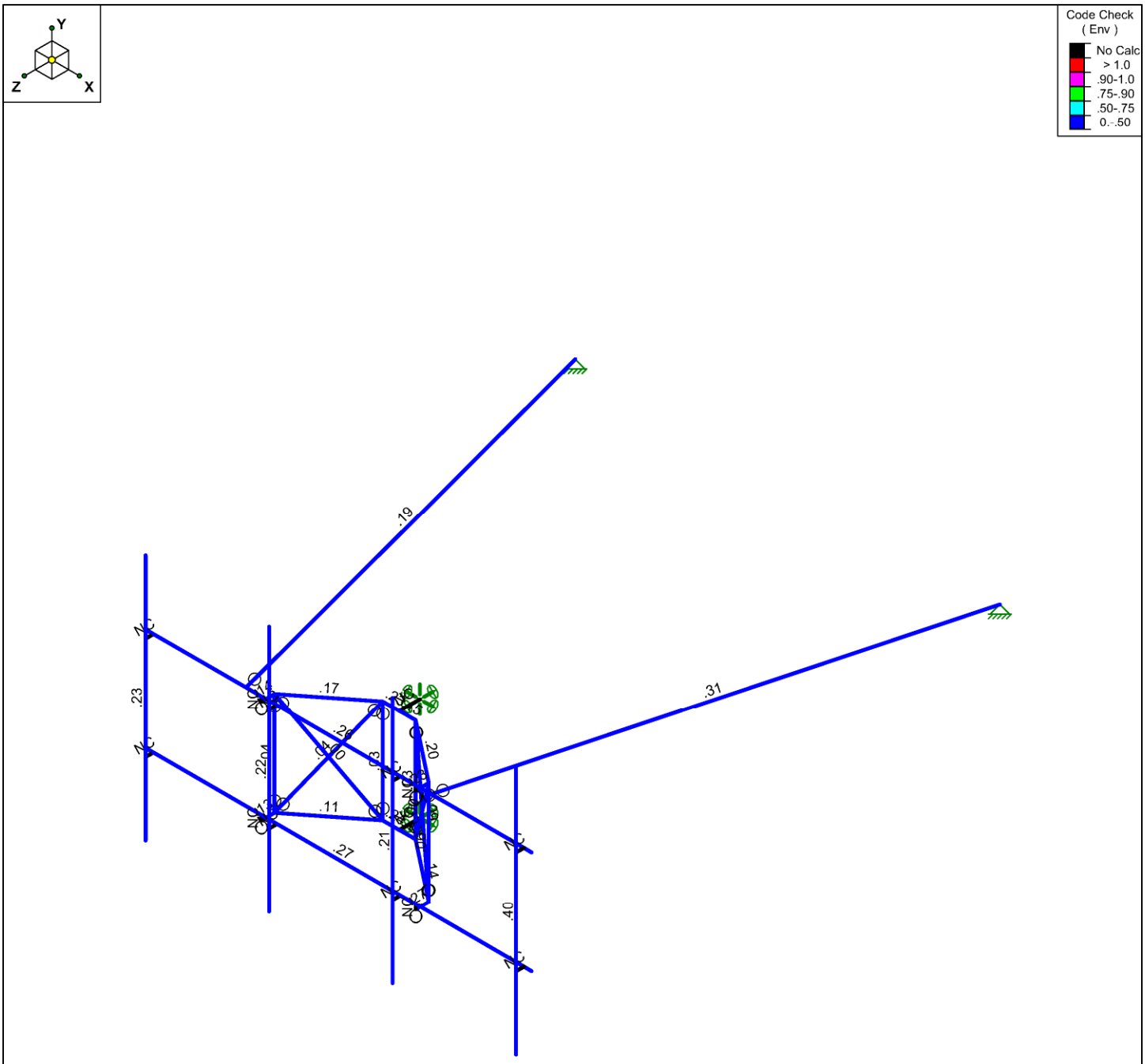
Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
	CEK 1/25/2017		VFA12-HD

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	02	CUSTOMER	BMC 12/13/2017	VFA12-HD

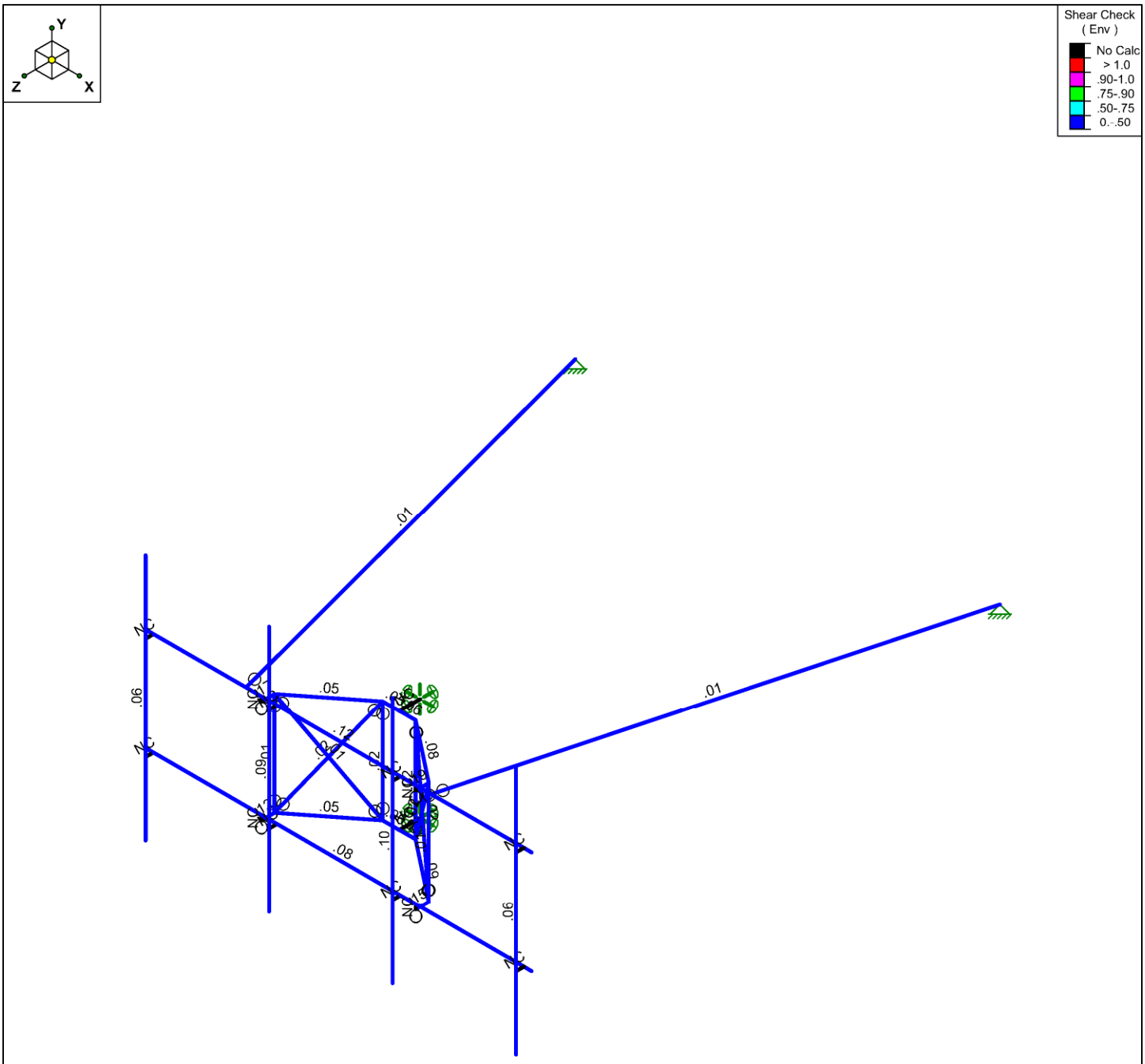


		SK - 1
		Apr 12, 2022 at 10:37 AM
		469060-VZW_MT_LOT_A_H.r3d



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

		SK - 2
		Apr 12, 2022 at 10:37 AM
		469060-VZW_MT_LOT_A_H.r3d



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

		SK - 3
		Apr 12, 2022 at 10:37 AM
		469060-VZW_MT_LOT_A_H.r3d

Basic Load Cases

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

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
57	Structure Wi (120 De...	None						56		
58	Structure Wi (150 De...	None						56		
59	Structure Wi (180 De...	None						56		
60	Structure Wi (210 De...	None						56		
61	Structure Wi (240 De...	None						56		
62	Structure Wi (270 De...	None						56		
63	Structure Wi (300 De...	None						56		
64	Structure Wi (330 De...	None						56		
65	Structure Wm (0 Deg)	None						56		
66	Structure Wm (30 De...	None						56		
67	Structure Wm (60 De...	None						56		
68	Structure Wm (90 De...	None						56		
69	Structure Wm (120 D...	None						56		
70	Structure Wm (150 D...	None						56		
71	Structure Wm (180 D...	None						56		
72	Structure Wm (210 D...	None						56		
73	Structure Wm (240 D...	None						56		
74	Structure Wm (270 D...	None						56		
75	Structure Wm (300 D...	None						56		
76	Structure Wm (330 D...	None						56		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	Antenna Ev	None					36			
82	Antenna Eh (0 Deg)	None					24			
83	Antenna Eh (90 Deg)	None					24			
84	Structure Ev	ELY		-.043						
85	Structure Eh (0 Deg)	ELZ			-.107					
86	Structure Eh (90 Deg)	ELX	.107							

Load Combinations

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

Load Combinations (Continued)

	Description	S...	PDelta	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
23	1.2D + 1.0Di + 1.0Wi (300 Deg)	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0Di + 1.0Wi (330 Deg)	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5Lm1 + 1.0Wm (0 D...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5Lm1 + 1.0Wm (30 ...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1										
27	1.2D + 1.5Lm1 + 1.0Wm (60 ...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 + 1.0Wm (90 ...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1 + 1.0Wm (120 ...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 + 1.0Wm (150 ...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 + 1.0Wm (180 ...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 + 1.0Wm (210 ...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 + 1.0Wm (240 ...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 + 1.0Wm (270 ...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 + 1.0Wm (300 ...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 + 1.0Wm (330 ...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 + 1.0Wm (0 D...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 + 1.0Wm (30 ...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 + 1.0Wm (60 ...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 + 1.0Wm (90 ...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 + 1.0Wm (120 ...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 + 1.0Wm (150 ...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 + 1.0Wm (180 ...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 + 1.0Wm (210 ...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 + 1.0Wm (240 ...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 + 1.0Wm (270 ...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 + 1.0Wm (300 ...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 + 1.0Wm (330 ...	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	1.2D + 1.0Ev + 1.0Eh (0 Deg)	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	1	83		E...	1	E...					
53	1.2D + 1.0Ev + 1.0Eh (30 Deg)	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.866	83	.5	E...	.866	E...	.5				
54	1.2D + 1.0Ev + 1.0Eh (60 Deg)	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.5	83	.866	E...	.5	E...	.866				
55	1.2D + 1.0Ev + 1.0Eh (90 Deg)	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82		83	1	E...		E...	1				
56	1.2D + 1.0Ev + 1.0Eh (120 De...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.5	83	.866	E...	-.5	E...	.866				
57	1.2D + 1.0Ev + 1.0Eh (150 De...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.8...	83	.5	E...	-.8...	E...	.5				
58	1.2D + 1.0Ev + 1.0Eh (180 De...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-1	83		E...	-1	E...					
59	1.2D + 1.0Ev + 1.0Eh (210 De...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.8...	83	-.5	E...	-.8...	E...	-.5				
60	1.2D + 1.0Ev + 1.0Eh (240 De...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.5	83	-.8...	E...	-.5	E...	-.8...				
61	1.2D + 1.0Ev + 1.0Eh (270 De...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82		83	-1	E...		E...	-1				
62	1.2D + 1.0Ev + 1.0Eh (300 De...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.5	83	-.8...	E...	.5	E...	-.8...				
63	1.2D + 1.0Ev + 1.0Eh (330 De...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.866	83	-.5	E...	.866	E...	-.5				
64	0.9D - 1.0Ev + 1.0Eh (0 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	1	83		E...	1	E...					
65	0.9D - 1.0Ev + 1.0Eh (30 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.866	83	.5	E...	.866	E...	.5				
66	0.9D - 1.0Ev + 1.0Eh (60 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.5	83	.866	E...	.5	E...	.866				
67	0.9D - 1.0Ev + 1.0Eh (90 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82		83	1	E...		E...	1				
68	0.9D - 1.0Ev + 1.0Eh (120 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.5	83	.866	E...	-.5	E...	.866				
69	0.9D - 1.0Ev + 1.0Eh (150 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.8...	83	.5	E...	-.8...	E...	.5				
70	0.9D - 1.0Ev + 1.0Eh (180 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-1	83		E...	-1	E...					
71	0.9D - 1.0Ev + 1.0Eh (210 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.8...	83	-.5	E...	-.8...	E...	-.5				
72	0.9D - 1.0Ev + 1.0Eh (240 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.5	83	-.8...	E...	-.5	E...	-.8...				
73	0.9D - 1.0Ev + 1.0Eh (270 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82		83	-1	E...		E...	-1				
74	0.9D - 1.0Ev + 1.0Eh (300 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.5	83	-.8...	E...	.5	E...	-.8...				
75	0.9D - 1.0Ev + 1.0Eh (330 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.866	83	-.5	E...	.866	E...	-.5				

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	3.416667	0.145833	8.083333	0	
2	N2	-9.083333	0.145833	8.083333	0	
3	N3	3.416667	3.479167	8.083333	0	
4	N4	-9.083333	3.479167	8.083333	0	
5	N5	-8.833333	0.145833	8.083333	0	
6	N6	-8.833333	3.479167	8.083333	0	
7	N7	-4.833333	0.145833	8.083333	0	
8	N8	-4.833333	3.479167	8.083333	0	
9	N9	-0.833333	0.145833	8.083333	0	
10	N10	-0.833333	3.479167	8.083333	0	
11	N11	3.166667	0.145833	8.083333	0	
12	N12	3.166667	3.479167	8.083333	0	
13	N13	-8.833333	0.145833	8.333333	0	
14	N14	-8.833333	3.479167	8.333333	0	
15	N15	-4.833333	0.145833	8.333333	0	
16	N16	-4.833333	3.479167	8.333333	0	
17	N17	-0.833333	0.145833	8.333333	0	
18	N18	-0.833333	3.479167	8.333333	0	
19	N19	3.166667	0.145833	8.333333	0	
20	N20	3.166667	3.479167	8.333333	0	
21	N21	-5.333333	0	8.083333	0	
22	N22	-5.333333	3.333333	8.083333	0	
23	N23	-0.333333	0	8.083333	0	
24	N24	-0.333333	3.333333	8.083333	0	
25	N25	-5.333333	0	7.661458	0	
26	N26	-5.333333	3.333333	7.661458	0	
27	N27	-0.333333	0	7.661458	0	
28	N28	-0.333333	3.333333	7.661458	0	
29	N29	-2.833333	0	6.119792	0	
30	N30	-2.833333	3.333333	6.119792	0	
31	N31	-3.364583	0	6.119792	0	
32	N32	-3.364583	3.333333	6.119792	0	
33	N33	-2.302083	0	6.119792	0	
34	N34	-2.302083	3.333333	6.119792	0	
35	N35	-2.833333	0	5.453125	0	
36	N36	-2.833333	3.333333	5.453125	0	
37	N39	-8.833333	5.8125	8.333333	0	
38	N40	-4.833333	5.8125	8.333333	0	
39	N41	-0.833333	5.8125	8.333333	0	
40	N42	3.166667	5.8125	8.333333	0	
41	N43	-8.833333	-2.1875	8.333333	0	
42	N44	-4.833333	-2.1875	8.333333	0	
43	N45	-0.833333	-2.1875	8.333333	0	
44	N46	3.166667	-2.1875	8.333333	0	
45	N58	-5.333333	3.333333	7.708333	0	
46	N76	-2.927083	0	6.119792	0	
47	N77	-3.229167	0	6.119792	0	
48	N78	-2.739583	0	6.119792	0	
49	N79	-2.4375	0	6.119792	0	
50	N80	-2.927083	3.333333	6.119792	0	
51	N81	-3.229167	3.333333	6.119792	0	
52	N82	-2.739583	3.333333	6.119792	0	
53	N83	-2.4375	3.333333	6.119792	0	
54	N58A	-2.833333	3.479167	8.083333	0	
55	N59	-5.333333	0.145833	8.083333	0	
56	N60	-5.333333	3.479167	8.083333	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
57	N61	-0.333333	0.145833	8.083333	0	
58	N62	-0.333333	3.479167	8.083333	0	
59	N59A	-5.833333	3.479167	8.083333	0	
60	N60A	0.166667	3.479167	8.083333	0	
61	N63	-9.708333	3.479167	-6.454724	0	
62	N64	4.041667	3.479167	-6.454724	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE_2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Face Horizontal	PIPE_2.5	Beam	Pipe	Q235	Typical	1.61	1.45	1.45	2.89
3	Standoff Horizontal	PIPE_2.0	Beam	Pipe	Q235	Typical	1.02	.627	.627	1.25
4	Standoff Diagonal	SR_0.75	Beam	BAR	Q235	Typical	.442	.016	.016	.031
5	Tieback	PIPE_2.0X	Beam	Pipe	Q235	Typical	1.4	.827	.827	1.65
6	Standoff Vertical	SR_0.625	Beam	BAR	Q235	Typical	.307	.007	.007	.015
7	Standoff Plate	PL5/8X3.5	Beam	BAR	Q235	Typical	2.188	.071	2.233	.253
8	tower pipe	PIPE_3.0	Column	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...Density[k/ft...		Yield[ksi]	Ry	Fu[ksi]	Rt
1	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A53 Gr. B	29000	11154	.3	.65	.49	35	1.5	60	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
5	A500 Gr. B 42	29000	11154	.3	.65	.49	42	1.4	58	1.3
6	A500 Gr. B 46	29000	11154	.3	.65	.49	46	1.4	58	1.3
7	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	FACE	N2	N1			Face Horizontal	Beam	Pipe	Q235	Typical
2	M2	N4	N3			Face Horizontal	Beam	Pipe	Q235	Typical
3	M3	N5	N13			RIGID	None	None	RIGID	Typical
4	M4	N6	N14			RIGID	None	None	RIGID	Typical
5	M5	N8	N16			RIGID	None	None	RIGID	Typical
6	M6	N7	N15			RIGID	None	None	RIGID	Typical
7	M9	N10	N18			RIGID	None	None	RIGID	Typical
8	LIVE1	N9	N17			RIGID	None	None	RIGID	Typical
9	M11	N12	N20			RIGID	None	None	RIGID	Typical
10	LIVE2	N11	N19			RIGID	None	None	RIGID	Typical
11	M13	N22	N26		90	Standoff Plate	Beam	BAR	Q235	Typical
12	M14	N21	N25		90	Standoff Plate	Beam	BAR	Q235	Typical
13	M15	N23	N27		90	Standoff Plate	Beam	BAR	Q235	Typical
14	M16	N24	N28		90	Standoff Plate	Beam	BAR	Q235	Typical
15	M17	N26	N32			Standoff Horiz...	Beam	Pipe	Q235	Typical
16	M18	N25	N31			Standoff Horiz...	Beam	Pipe	Q235	Typical
17	M19	N27	N33			Standoff Horiz...	Beam	Pipe	Q235	Typical
18	M20	N28	N34			Standoff Horiz...	Beam	Pipe	Q235	Typical
19	M21	N32	N30		90	Standoff Plate	Beam	BAR	Q235	Typical
20	M22	N34	N30		90	Standoff Plate	Beam	BAR	Q235	Typical
21	M23	N31	N29		90	Standoff Plate	Beam	BAR	Q235	Typical
22	M24	N33	N29		90	Standoff Plate	Beam	BAR	Q235	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
23	M25	N31	N26			Standoff Diago...	Beam	BAR	Q235	Typical
24	M26	N32	N25			Standoff Diago...	Beam	BAR	Q235	Typical
25	M27	N33	N28			Standoff Diago...	Beam	BAR	Q235	Typical
26	M28	N27	N34			Standoff Diago...	Beam	BAR	Q235	Typical
27	M29	N29	N35			RIGID	None	None	RIGID	Typical
28	M30	N30	N36			RIGID	None	None	RIGID	Typical
29	MP4A	N39	N43			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
30	MP3A	N40	N44			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
31	MP2A	N41	N45			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
32	MP1A	N42	N46			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
33	M44	N25	N26			Standoff Vertical	Beam	BAR	Q235	Typical
34	M45	N31	N32			Standoff Vertical	Beam	BAR	Q235	Typical
35	M46	N33	N34			Standoff Vertical	Beam	BAR	Q235	Typical
36	M47	N27	N28			Standoff Vertical	Beam	BAR	Q235	Typical
37	M47B	N22	N60			RIGID	None	None	RIGID	Typical
38	M48A	N21	N59			RIGID	None	None	RIGID	Typical
39	M49A	N24	N62			RIGID	None	None	RIGID	Typical
40	M50A	N23	N61			RIGID	None	None	RIGID	Typical
41	M51A	N30	N36			RIGID	None	None	RIGID	Typical
42	M52A	N29	N35			RIGID	None	None	RIGID	Typical
43	M43	N59A	N63			Tieback	Beam	Pipe	Q235	Typical
44	M44A	N60A	N64			Tieback	Beam	Pipe	Q235	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	FACE						Yes				None
2	M2						Yes				None
3	M3						Yes	** NA **			None
4	M4						Yes	** NA **			None
5	M5						Yes	** NA **			None
6	M6						Yes	** NA **			None
7	M9						Yes	** NA **			None
8	LIVE1						Yes	** NA **			None
9	M11						Yes	** NA **			None
10	LIVE2						Yes	** NA **			None
11	M13						Yes	Default			None
12	M14						Yes	Default			None
13	M15						Yes				None
14	M16						Yes				None
15	M17						Yes	Default			None
16	M18						Yes				None
17	M19						Yes				None
18	M20						Yes	Default			None
19	M21						Yes	Default			None
20	M22						Yes				None
21	M23						Yes				None
22	M24						Yes				None
23	M25	BenPIN	BenPIN			Euler Buc..	Yes	Default			None
24	M26	BenPIN	BenPIN			Euler Buc..	Yes	Default			None
25	M27	BenPIN	BenPIN			Euler Buc..	Yes				None
26	M28	BenPIN	BenPIN			Euler Buc..	Yes				None
27	M29						Yes	** NA **		Inactive	None
28	M30						Yes	** NA **		Inactive	None
29	MP4A						Yes				None
30	MP3A						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...
31	MP2A						Yes				None
32	MP1A						Yes				None
33	M44	BenPIN	BenPIN				Yes				None
34	M45	BenPIN	BenPIN				Yes				None
35	M46	BenPIN	BenPIN				Yes				None
36	M47	BenPIN	BenPIN				Yes	Default			None
37	M47B		OOOXOO				Yes	** NA **			None
38	M48A		OOOXOO				Yes	** NA **			None
39	M49A		OOOXOO				Yes	** NA **			None
40	M50A		OOOXOO				Yes	** NA **			None
41	M51A						Yes	** NA **			None
42	M52A						Yes	** NA **			None
43	M43	BenPIN					Yes	Default			None
44	M44A	BenPIN					Yes	Default			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-23	2
2	MP2A	My	-.011	2
3	MP2A	Mz	.017	2
4	MP2A	Y	-23	6
5	MP2A	My	-.011	6
6	MP2A	Mz	.017	6
7	MP2A	Y	-23	2
8	MP2A	My	-.011	2
9	MP2A	Mz	-.017	2
10	MP2A	Y	-23	6
11	MP2A	My	-.011	6
12	MP2A	Mz	-.017	6
13	MP3A	Y	-43.55	3
14	MP3A	My	-.022	3
15	MP3A	Mz	0	3
16	MP3A	Y	-43.55	5
17	MP3A	My	-.022	5
18	MP3A	Mz	0	5
19	MP2A	Y	-84.4	3
20	MP2A	My	.042	3
21	MP2A	Mz	0	3
22	MP1A	Y	-70.3	3
23	MP1A	My	.035	3
24	MP1A	Mz	0	3
25	MP1A	Y	-13.5	2
26	MP1A	My	-.007	2
27	MP1A	Mz	0	2
28	MP1A	Y	-13.5	6
29	MP1A	My	-.007	6
30	MP1A	Mz	0	6
31	MP4A	Y	-13.5	2
32	MP4A	My	-.007	2
33	MP4A	Mz	0	2
34	MP4A	Y	-13.5	6
35	MP4A	My	-.007	6
36	MP4A	Mz	0	6

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-82.579	2
2	MP2A	My	-.041	2
3	MP2A	Mz	.062	2
4	MP2A	Y	-82.579	6
5	MP2A	My	-.041	6
6	MP2A	Mz	.062	6
7	MP2A	Y	-82.579	2
8	MP2A	My	-.041	2
9	MP2A	Mz	-.062	2
10	MP2A	Y	-82.579	6
11	MP2A	My	-.041	6
12	MP2A	Mz	-.062	6
13	MP3A	Y	-35.664	3
14	MP3A	My	-.018	3
15	MP3A	Mz	0	3
16	MP3A	Y	-35.664	5
17	MP3A	My	-.018	5
18	MP3A	Mz	0	5
19	MP2A	Y	-44.965	3
20	MP2A	My	.022	3
21	MP2A	Mz	0	3
22	MP1A	Y	-40.438	3
23	MP1A	My	.02	3
24	MP1A	Mz	0	3
25	MP1A	Y	-88.795	2
26	MP1A	My	-.044	2
27	MP1A	Mz	0	2
28	MP1A	Y	-88.795	6
29	MP1A	My	-.044	6
30	MP1A	Mz	0	6
31	MP4A	Y	-88.795	2
32	MP4A	My	-.044	2
33	MP4A	Mz	0	2
34	MP4A	Y	-88.795	6
35	MP4A	My	-.044	6
36	MP4A	Mz	0	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	2
2	MP2A	Z	-160.848	2
3	MP2A	Mx	-.121	2
4	MP2A	X	0	6
5	MP2A	Z	-160.848	6
6	MP2A	Mx	-.121	6
7	MP2A	X	0	2
8	MP2A	Z	-160.848	2
9	MP2A	Mx	.121	2
10	MP2A	X	0	6
11	MP2A	Z	-160.848	6
12	MP2A	Mx	.121	6
13	MP3A	X	0	3
14	MP3A	Z	-76.594	3
15	MP3A	Mx	0	3
16	MP3A	X	0	5
17	MP3A	Z	-76.594	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP3A	Mx	0	5
19	MP2A	X	0	3
20	MP2A	Z	-50.52	3
21	MP2A	Mx	0	3
22	MP1A	X	0	3
23	MP1A	Z	-50.52	3
24	MP1A	Mx	0	3
25	MP1A	X	0	2
26	MP1A	Z	-156.448	2
27	MP1A	Mx	0	2
28	MP1A	X	0	6
29	MP1A	Z	-156.448	6
30	MP1A	Mx	0	6
31	MP4A	X	0	2
32	MP4A	Z	-156.448	2
33	MP4A	Mx	0	2
34	MP4A	X	0	6
35	MP4A	Z	-156.448	6
36	MP4A	Mx	0	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	75.266	2
2	MP2A	Z	-130.364	2
3	MP2A	Mx	-.135	2
4	MP2A	X	75.266	6
5	MP2A	Z	-130.364	6
6	MP2A	Mx	-.135	6
7	MP2A	X	75.266	2
8	MP2A	Z	-130.364	2
9	MP2A	Mx	.06	2
10	MP2A	X	75.266	6
11	MP2A	Z	-130.364	6
12	MP2A	Mx	.06	6
13	MP3A	X	32.471	3
14	MP3A	Z	-56.242	3
15	MP3A	Mx	-.016	3
16	MP3A	X	32.471	5
17	MP3A	Z	-56.242	5
18	MP3A	Mx	-.016	5
19	MP2A	X	23.182	3
20	MP2A	Z	-40.152	3
21	MP2A	Mx	.012	3
22	MP1A	X	22.408	3
23	MP1A	Z	-38.812	3
24	MP1A	Mx	.011	3
25	MP1A	X	76.135	2
26	MP1A	Z	-131.87	2
27	MP1A	Mx	-.038	2
28	MP1A	X	76.135	6
29	MP1A	Z	-131.87	6
30	MP1A	Mx	-.038	6
31	MP4A	X	76.135	2
32	MP4A	Z	-131.87	2
33	MP4A	Mx	-.038	2
34	MP4A	X	76.135	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP4A	Z	-131.87	6
36	MP4A	Mx	-.038	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	112.497	2
2	MP2A	Z	-64.95	2
3	MP2A	Mx	-.105	2
4	MP2A	X	112.497	6
5	MP2A	Z	-64.95	6
6	MP2A	Mx	-.105	6
7	MP2A	X	112.497	2
8	MP2A	Z	-64.95	2
9	MP2A	Mx	-.008	2
10	MP2A	X	112.497	6
11	MP2A	Z	-64.95	6
12	MP2A	Mx	-.008	6
13	MP3A	X	36.06	3
14	MP3A	Z	-20.819	3
15	MP3A	Mx	-.018	3
16	MP3A	X	36.06	5
17	MP3A	Z	-20.819	5
18	MP3A	Mx	-.018	5
19	MP2A	X	32.955	3
20	MP2A	Z	-19.026	3
21	MP2A	Mx	.016	3
22	MP1A	X	28.932	3
23	MP1A	Z	-16.704	3
24	MP1A	Mx	.014	3
25	MP1A	X	124.635	2
26	MP1A	Z	-71.958	2
27	MP1A	Mx	-.062	2
28	MP1A	X	124.635	6
29	MP1A	Z	-71.958	6
30	MP1A	Mx	-.062	6
31	MP4A	X	124.635	2
32	MP4A	Z	-71.958	2
33	MP4A	Mx	-.062	2
34	MP4A	X	124.635	6
35	MP4A	Z	-71.958	6
36	MP4A	Mx	-.062	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	119.584	2
2	MP2A	Z	0	2
3	MP2A	Mx	-.06	2
4	MP2A	X	119.584	6
5	MP2A	Z	0	6
6	MP2A	Mx	-.06	6
7	MP2A	X	119.584	2
8	MP2A	Z	0	2
9	MP2A	Mx	-.06	2
10	MP2A	X	119.584	6
11	MP2A	Z	0	6
12	MP2A	Mx	-.06	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP3A	X	29.986	3
14	MP3A	Z	0	3
15	MP3A	Mx	-.015	3
16	MP3A	X	29.986	5
17	MP3A	Z	0	5
18	MP3A	Mx	-.015	5
19	MP2A	X	33.897	3
20	MP2A	Z	0	3
21	MP2A	Mx	.017	3
22	MP1A	X	27.704	3
23	MP1A	Z	0	3
24	MP1A	Mx	.014	3
25	MP1A	X	139.739	2
26	MP1A	Z	0	2
27	MP1A	Mx	-.07	2
28	MP1A	X	139.739	6
29	MP1A	Z	0	6
30	MP1A	Mx	-.07	6
31	MP4A	X	139.739	2
32	MP4A	Z	0	2
33	MP4A	Mx	-.07	2
34	MP4A	X	139.739	6
35	MP4A	Z	0	6
36	MP4A	Mx	-.07	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	112.497	2
2	MP2A	Z	64.95	2
3	MP2A	Mx	-.008	2
4	MP2A	X	112.497	6
5	MP2A	Z	64.95	6
6	MP2A	Mx	-.008	6
7	MP2A	X	112.497	2
8	MP2A	Z	64.95	2
9	MP2A	Mx	-.105	2
10	MP2A	X	112.497	6
11	MP2A	Z	64.95	6
12	MP2A	Mx	-.105	6
13	MP3A	X	36.06	3
14	MP3A	Z	20.819	3
15	MP3A	Mx	-.018	3
16	MP3A	X	36.06	5
17	MP3A	Z	20.819	5
18	MP3A	Mx	-.018	5
19	MP2A	X	32.955	3
20	MP2A	Z	19.026	3
21	MP2A	Mx	.016	3
22	MP1A	X	28.932	3
23	MP1A	Z	16.704	3
24	MP1A	Mx	.014	3
25	MP1A	X	124.635	2
26	MP1A	Z	71.958	2
27	MP1A	Mx	-.062	2
28	MP1A	X	124.635	6
29	MP1A	Z	71.958	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP1A	Mx	-.062	6
31	MP4A	X	124.635	2
32	MP4A	Z	71.958	2
33	MP4A	Mx	-.062	2
34	MP4A	X	124.635	6
35	MP4A	Z	71.958	6
36	MP4A	Mx	-.062	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	75.266	2
2	MP2A	Z	130.364	2
3	MP2A	Mx	.06	2
4	MP2A	X	75.266	6
5	MP2A	Z	130.364	6
6	MP2A	Mx	.06	6
7	MP2A	X	75.266	2
8	MP2A	Z	130.364	2
9	MP2A	Mx	-.135	2
10	MP2A	X	75.266	6
11	MP2A	Z	130.364	6
12	MP2A	Mx	-.135	6
13	MP3A	X	32.471	3
14	MP3A	Z	56.242	3
15	MP3A	Mx	-.016	3
16	MP3A	X	32.471	5
17	MP3A	Z	56.242	5
18	MP3A	Mx	-.016	5
19	MP2A	X	23.182	3
20	MP2A	Z	40.152	3
21	MP2A	Mx	.012	3
22	MP1A	X	22.408	3
23	MP1A	Z	38.812	3
24	MP1A	Mx	.011	3
25	MP1A	X	76.135	2
26	MP1A	Z	131.87	2
27	MP1A	Mx	-.038	2
28	MP1A	X	76.135	6
29	MP1A	Z	131.87	6
30	MP1A	Mx	-.038	6
31	MP4A	X	76.135	2
32	MP4A	Z	131.87	2
33	MP4A	Mx	-.038	2
34	MP4A	X	76.135	6
35	MP4A	Z	131.87	6
36	MP4A	Mx	-.038	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	2
2	MP2A	Z	160.848	2
3	MP2A	Mx	.121	2
4	MP2A	X	0	6
5	MP2A	Z	160.848	6
6	MP2A	Mx	.121	6
7	MP2A	X	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP2A	Z	160.848	2
9	MP2A	Mx	-.121	2
10	MP2A	X	0	6
11	MP2A	Z	160.848	6
12	MP2A	Mx	-.121	6
13	MP3A	X	0	3
14	MP3A	Z	76.594	3
15	MP3A	Mx	0	3
16	MP3A	X	0	5
17	MP3A	Z	76.594	5
18	MP3A	Mx	0	5
19	MP2A	X	0	3
20	MP2A	Z	50.52	3
21	MP2A	Mx	0	3
22	MP1A	X	0	3
23	MP1A	Z	50.52	3
24	MP1A	Mx	0	3
25	MP1A	X	0	2
26	MP1A	Z	156.448	2
27	MP1A	Mx	0	2
28	MP1A	X	0	6
29	MP1A	Z	156.448	6
30	MP1A	Mx	0	6
31	MP4A	X	0	2
32	MP4A	Z	156.448	2
33	MP4A	Mx	0	2
34	MP4A	X	0	6
35	MP4A	Z	156.448	6
36	MP4A	Mx	0	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-75.266	2
2	MP2A	Z	130.364	2
3	MP2A	Mx	.135	2
4	MP2A	X	-75.266	6
5	MP2A	Z	130.364	6
6	MP2A	Mx	.135	6
7	MP2A	X	-75.266	2
8	MP2A	Z	130.364	2
9	MP2A	Mx	-.06	2
10	MP2A	X	-75.266	6
11	MP2A	Z	130.364	6
12	MP2A	Mx	-.06	6
13	MP3A	X	-32.471	3
14	MP3A	Z	56.242	3
15	MP3A	Mx	.016	3
16	MP3A	X	-32.471	5
17	MP3A	Z	56.242	5
18	MP3A	Mx	.016	5
19	MP2A	X	-23.182	3
20	MP2A	Z	40.152	3
21	MP2A	Mx	-.012	3
22	MP1A	X	-22.408	3
23	MP1A	Z	38.812	3
24	MP1A	Mx	-.011	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP1A	X	-76.135	2
26	MP1A	Z	131.87	2
27	MP1A	Mx	.038	2
28	MP1A	X	-76.135	6
29	MP1A	Z	131.87	6
30	MP1A	Mx	.038	6
31	MP4A	X	-76.135	2
32	MP4A	Z	131.87	2
33	MP4A	Mx	.038	2
34	MP4A	X	-76.135	6
35	MP4A	Z	131.87	6
36	MP4A	Mx	.038	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-112.497	2
2	MP2A	Z	64.95	2
3	MP2A	Mx	.105	2
4	MP2A	X	-112.497	6
5	MP2A	Z	64.95	6
6	MP2A	Mx	.105	6
7	MP2A	X	-112.497	2
8	MP2A	Z	64.95	2
9	MP2A	Mx	.008	2
10	MP2A	X	-112.497	6
11	MP2A	Z	64.95	6
12	MP2A	Mx	.008	6
13	MP3A	X	-36.06	3
14	MP3A	Z	20.819	3
15	MP3A	Mx	.018	3
16	MP3A	X	-36.06	5
17	MP3A	Z	20.819	5
18	MP3A	Mx	.018	5
19	MP2A	X	-32.955	3
20	MP2A	Z	19.026	3
21	MP2A	Mx	-.016	3
22	MP1A	X	-28.932	3
23	MP1A	Z	16.704	3
24	MP1A	Mx	-.014	3
25	MP1A	X	-124.635	2
26	MP1A	Z	71.958	2
27	MP1A	Mx	.062	2
28	MP1A	X	-124.635	6
29	MP1A	Z	71.958	6
30	MP1A	Mx	.062	6
31	MP4A	X	-124.635	2
32	MP4A	Z	71.958	2
33	MP4A	Mx	.062	2
34	MP4A	X	-124.635	6
35	MP4A	Z	71.958	6
36	MP4A	Mx	.062	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-119.584	2
2	MP2A	Z	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP2A	Mx	.06	2
4	MP2A	X	-119.584	6
5	MP2A	Z	0	6
6	MP2A	Mx	.06	6
7	MP2A	X	-119.584	2
8	MP2A	Z	0	2
9	MP2A	Mx	.06	2
10	MP2A	X	-119.584	6
11	MP2A	Z	0	6
12	MP2A	Mx	.06	6
13	MP3A	X	-29.986	3
14	MP3A	Z	0	3
15	MP3A	Mx	.015	3
16	MP3A	X	-29.986	5
17	MP3A	Z	0	5
18	MP3A	Mx	.015	5
19	MP2A	X	-33.897	3
20	MP2A	Z	0	3
21	MP2A	Mx	-.017	3
22	MP1A	X	-27.704	3
23	MP1A	Z	0	3
24	MP1A	Mx	-.014	3
25	MP1A	X	-139.739	2
26	MP1A	Z	0	2
27	MP1A	Mx	.07	2
28	MP1A	X	-139.739	6
29	MP1A	Z	0	6
30	MP1A	Mx	.07	6
31	MP4A	X	-139.739	2
32	MP4A	Z	0	2
33	MP4A	Mx	.07	2
34	MP4A	X	-139.739	6
35	MP4A	Z	0	6
36	MP4A	Mx	.07	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-112.497	2
2	MP2A	Z	-64.95	2
3	MP2A	Mx	.008	2
4	MP2A	X	-112.497	6
5	MP2A	Z	-64.95	6
6	MP2A	Mx	.008	6
7	MP2A	X	-112.497	2
8	MP2A	Z	-64.95	2
9	MP2A	Mx	.105	2
10	MP2A	X	-112.497	6
11	MP2A	Z	-64.95	6
12	MP2A	Mx	.105	6
13	MP3A	X	-36.06	3
14	MP3A	Z	-20.819	3
15	MP3A	Mx	.018	3
16	MP3A	X	-36.06	5
17	MP3A	Z	-20.819	5
18	MP3A	Mx	.018	5
19	MP2A	X	-32.955	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP2A	Z	-19.026	3
21	MP2A	Mx	-.016	3
22	MP1A	X	-28.932	3
23	MP1A	Z	-16.704	3
24	MP1A	Mx	-.014	3
25	MP1A	X	-124.635	2
26	MP1A	Z	-71.958	2
27	MP1A	Mx	.062	2
28	MP1A	X	-124.635	6
29	MP1A	Z	-71.958	6
30	MP1A	Mx	.062	6
31	MP4A	X	-124.635	2
32	MP4A	Z	-71.958	2
33	MP4A	Mx	.062	2
34	MP4A	X	-124.635	6
35	MP4A	Z	-71.958	6
36	MP4A	Mx	.062	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-75.266	2
2	MP2A	Z	-130.364	2
3	MP2A	Mx	-.06	2
4	MP2A	X	-75.266	6
5	MP2A	Z	-130.364	6
6	MP2A	Mx	-.06	6
7	MP2A	X	-75.266	2
8	MP2A	Z	-130.364	2
9	MP2A	Mx	.135	2
10	MP2A	X	-75.266	6
11	MP2A	Z	-130.364	6
12	MP2A	Mx	.135	6
13	MP3A	X	-32.471	3
14	MP3A	Z	-56.242	3
15	MP3A	Mx	.016	3
16	MP3A	X	-32.471	5
17	MP3A	Z	-56.242	5
18	MP3A	Mx	.016	5
19	MP2A	X	-23.182	3
20	MP2A	Z	-40.152	3
21	MP2A	Mx	-.012	3
22	MP1A	X	-22.408	3
23	MP1A	Z	-38.812	3
24	MP1A	Mx	-.011	3
25	MP1A	X	-76.135	2
26	MP1A	Z	-131.87	2
27	MP1A	Mx	.038	2
28	MP1A	X	-76.135	6
29	MP1A	Z	-131.87	6
30	MP1A	Mx	.038	6
31	MP4A	X	-76.135	2
32	MP4A	Z	-131.87	2
33	MP4A	Mx	.038	2
34	MP4A	X	-76.135	6
35	MP4A	Z	-131.87	6
36	MP4A	Mx	.038	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	2
2	MP2A	Z	-31.495	2
3	MP2A	Mx	-.024	2
4	MP2A	X	0	6
5	MP2A	Z	-31.495	6
6	MP2A	Mx	-.024	6
7	MP2A	X	0	2
8	MP2A	Z	-31.495	2
9	MP2A	Mx	.024	2
10	MP2A	X	0	6
11	MP2A	Z	-31.495	6
12	MP2A	Mx	.024	6
13	MP3A	X	0	3
14	MP3A	Z	-15.538	3
15	MP3A	Mx	0	3
16	MP3A	X	0	5
17	MP3A	Z	-15.538	5
18	MP3A	Mx	0	5
19	MP2A	X	0	3
20	MP2A	Z	-13.097	3
21	MP2A	Mx	0	3
22	MP1A	X	0	3
23	MP1A	Z	-13.097	3
24	MP1A	Mx	0	3
25	MP1A	X	0	2
26	MP1A	Z	-30.651	2
27	MP1A	Mx	0	2
28	MP1A	X	0	6
29	MP1A	Z	-30.651	6
30	MP1A	Mx	0	6
31	MP4A	X	0	2
32	MP4A	Z	-30.651	2
33	MP4A	Mx	0	2
34	MP4A	X	0	6
35	MP4A	Z	-30.651	6
36	MP4A	Mx	0	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	14.789	2
2	MP2A	Z	-25.615	2
3	MP2A	Mx	-.027	2
4	MP2A	X	14.789	6
5	MP2A	Z	-25.615	6
6	MP2A	Mx	-.027	6
7	MP2A	X	14.789	2
8	MP2A	Z	-25.615	2
9	MP2A	Mx	.012	2
10	MP2A	X	14.789	6
11	MP2A	Z	-25.615	6
12	MP2A	Mx	.012	6
13	MP3A	X	6.654	3
14	MP3A	Z	-11.525	3
15	MP3A	Mx	-.003	3
16	MP3A	X	6.654	5
17	MP3A	Z	-11.525	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP3A	Mx	-.003	5
19	MP2A	X	6.05	3
20	MP2A	Z	-10.479	3
21	MP2A	Mx	.003	3
22	MP1A	X	5.861	3
23	MP1A	Z	-10.151	3
24	MP1A	Mx	.003	3
25	MP1A	X	14.941	2
26	MP1A	Z	-25.878	2
27	MP1A	Mx	-.007	2
28	MP1A	X	14.941	6
29	MP1A	Z	-25.878	6
30	MP1A	Mx	-.007	6
31	MP4A	X	14.941	2
32	MP4A	Z	-25.878	2
33	MP4A	Mx	-.007	2
34	MP4A	X	14.941	6
35	MP4A	Z	-25.878	6
36	MP4A	Mx	-.007	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	22.295	2
2	MP2A	Z	-12.872	2
3	MP2A	Mx	-.021	2
4	MP2A	X	22.295	6
5	MP2A	Z	-12.872	6
6	MP2A	Mx	-.021	6
7	MP2A	X	22.295	2
8	MP2A	Z	-12.872	2
9	MP2A	Mx	-.001	2
10	MP2A	X	22.295	6
11	MP2A	Z	-12.872	6
12	MP2A	Mx	-.001	6
13	MP3A	X	7.664	3
14	MP3A	Z	-4.425	3
15	MP3A	Mx	-.004	3
16	MP3A	X	7.664	5
17	MP3A	Z	-4.425	5
18	MP3A	Mx	-.004	5
19	MP2A	X	8.753	3
20	MP2A	Z	-5.053	3
21	MP2A	Mx	.004	3
22	MP1A	X	7.769	3
23	MP1A	Z	-4.485	3
24	MP1A	Mx	.004	3
25	MP1A	X	24.546	2
26	MP1A	Z	-14.172	2
27	MP1A	Mx	-.012	2
28	MP1A	X	24.546	6
29	MP1A	Z	-14.172	6
30	MP1A	Mx	-.012	6
31	MP4A	X	24.546	2
32	MP4A	Z	-14.172	2
33	MP4A	Mx	-.012	2
34	MP4A	X	24.546	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP4A	Z	-14.172	6
36	MP4A	Mx	-.012	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	23.827	2
2	MP2A	Z	0	2
3	MP2A	Mx	-.012	2
4	MP2A	X	23.827	6
5	MP2A	Z	0	6
6	MP2A	Mx	-.012	6
7	MP2A	X	23.827	2
8	MP2A	Z	0	2
9	MP2A	Mx	-.012	2
10	MP2A	X	23.827	6
11	MP2A	Z	0	6
12	MP2A	Mx	-.012	6
13	MP3A	X	6.619	3
14	MP3A	Z	0	3
15	MP3A	Mx	-.003	3
16	MP3A	X	6.619	5
17	MP3A	Z	0	5
18	MP3A	Mx	-.003	5
19	MP2A	X	9.11	3
20	MP2A	Z	0	3
21	MP2A	Mx	.005	3
22	MP1A	X	7.596	3
23	MP1A	Z	0	3
24	MP1A	Mx	.004	3
25	MP1A	X	27.574	2
26	MP1A	Z	0	2
27	MP1A	Mx	-.014	2
28	MP1A	X	27.574	6
29	MP1A	Z	0	6
30	MP1A	Mx	-.014	6
31	MP4A	X	27.574	2
32	MP4A	Z	0	2
33	MP4A	Mx	-.014	2
34	MP4A	X	27.574	6
35	MP4A	Z	0	6
36	MP4A	Mx	-.014	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	22.295	2
2	MP2A	Z	12.872	2
3	MP2A	Mx	-.001	2
4	MP2A	X	22.295	6
5	MP2A	Z	12.872	6
6	MP2A	Mx	-.001	6
7	MP2A	X	22.295	2
8	MP2A	Z	12.872	2
9	MP2A	Mx	-.021	2
10	MP2A	X	22.295	6
11	MP2A	Z	12.872	6
12	MP2A	Mx	-.021	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP3A	X	7.664	3
14	MP3A	Z	4.425	3
15	MP3A	Mx	-.004	3
16	MP3A	X	7.664	5
17	MP3A	Z	4.425	5
18	MP3A	Mx	-.004	5
19	MP2A	X	8.753	3
20	MP2A	Z	5.053	3
21	MP2A	Mx	.004	3
22	MP1A	X	7.769	3
23	MP1A	Z	4.485	3
24	MP1A	Mx	.004	3
25	MP1A	X	24.546	2
26	MP1A	Z	14.172	2
27	MP1A	Mx	-.012	2
28	MP1A	X	24.546	6
29	MP1A	Z	14.172	6
30	MP1A	Mx	-.012	6
31	MP4A	X	24.546	2
32	MP4A	Z	14.172	2
33	MP4A	Mx	-.012	2
34	MP4A	X	24.546	6
35	MP4A	Z	14.172	6
36	MP4A	Mx	-.012	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	14.789	2
2	MP2A	Z	25.615	2
3	MP2A	Mx	.012	2
4	MP2A	X	14.789	6
5	MP2A	Z	25.615	6
6	MP2A	Mx	.012	6
7	MP2A	X	14.789	2
8	MP2A	Z	25.615	2
9	MP2A	Mx	-.027	2
10	MP2A	X	14.789	6
11	MP2A	Z	25.615	6
12	MP2A	Mx	-.027	6
13	MP3A	X	6.654	3
14	MP3A	Z	11.525	3
15	MP3A	Mx	-.003	3
16	MP3A	X	6.654	5
17	MP3A	Z	11.525	5
18	MP3A	Mx	-.003	5
19	MP2A	X	6.05	3
20	MP2A	Z	10.479	3
21	MP2A	Mx	.003	3
22	MP1A	X	5.861	3
23	MP1A	Z	10.151	3
24	MP1A	Mx	.003	3
25	MP1A	X	14.941	2
26	MP1A	Z	25.878	2
27	MP1A	Mx	-.007	2
28	MP1A	X	14.941	6
29	MP1A	Z	25.878	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP1A	Mx	-.007	6
31	MP4A	X	14.941	2
32	MP4A	Z	25.878	2
33	MP4A	Mx	-.007	2
34	MP4A	X	14.941	6
35	MP4A	Z	25.878	6
36	MP4A	Mx	-.007	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	2
2	MP2A	Z	31.495	2
3	MP2A	Mx	.024	2
4	MP2A	X	0	6
5	MP2A	Z	31.495	6
6	MP2A	Mx	.024	6
7	MP2A	X	0	2
8	MP2A	Z	31.495	2
9	MP2A	Mx	-.024	2
10	MP2A	X	0	6
11	MP2A	Z	31.495	6
12	MP2A	Mx	-.024	6
13	MP3A	X	0	3
14	MP3A	Z	15.538	3
15	MP3A	Mx	0	3
16	MP3A	X	0	5
17	MP3A	Z	15.538	5
18	MP3A	Mx	0	5
19	MP2A	X	0	3
20	MP2A	Z	13.097	3
21	MP2A	Mx	0	3
22	MP1A	X	0	3
23	MP1A	Z	13.097	3
24	MP1A	Mx	0	3
25	MP1A	X	0	2
26	MP1A	Z	30.651	2
27	MP1A	Mx	0	2
28	MP1A	X	0	6
29	MP1A	Z	30.651	6
30	MP1A	Mx	0	6
31	MP4A	X	0	2
32	MP4A	Z	30.651	2
33	MP4A	Mx	0	2
34	MP4A	X	0	6
35	MP4A	Z	30.651	6
36	MP4A	Mx	0	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-14.789	2
2	MP2A	Z	25.615	2
3	MP2A	Mx	.027	2
4	MP2A	X	-14.789	6
5	MP2A	Z	25.615	6
6	MP2A	Mx	.027	6
7	MP2A	X	-14.789	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP2A	Z	25.615	2
9	MP2A	Mx	-.012	2
10	MP2A	X	-14.789	6
11	MP2A	Z	25.615	6
12	MP2A	Mx	-.012	6
13	MP3A	X	-6.654	3
14	MP3A	Z	11.525	3
15	MP3A	Mx	.003	3
16	MP3A	X	-6.654	5
17	MP3A	Z	11.525	5
18	MP3A	Mx	.003	5
19	MP2A	X	-6.05	3
20	MP2A	Z	10.479	3
21	MP2A	Mx	-.003	3
22	MP1A	X	-5.861	3
23	MP1A	Z	10.151	3
24	MP1A	Mx	-.003	3
25	MP1A	X	-14.941	2
26	MP1A	Z	25.878	2
27	MP1A	Mx	.007	2
28	MP1A	X	-14.941	6
29	MP1A	Z	25.878	6
30	MP1A	Mx	.007	6
31	MP4A	X	-14.941	2
32	MP4A	Z	25.878	2
33	MP4A	Mx	.007	2
34	MP4A	X	-14.941	6
35	MP4A	Z	25.878	6
36	MP4A	Mx	.007	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-22.295	2
2	MP2A	Z	12.872	2
3	MP2A	Mx	.021	2
4	MP2A	X	-22.295	6
5	MP2A	Z	12.872	6
6	MP2A	Mx	.021	6
7	MP2A	X	-22.295	2
8	MP2A	Z	12.872	2
9	MP2A	Mx	.001	2
10	MP2A	X	-22.295	6
11	MP2A	Z	12.872	6
12	MP2A	Mx	.001	6
13	MP3A	X	-7.664	3
14	MP3A	Z	4.425	3
15	MP3A	Mx	.004	3
16	MP3A	X	-7.664	5
17	MP3A	Z	4.425	5
18	MP3A	Mx	.004	5
19	MP2A	X	-8.753	3
20	MP2A	Z	5.053	3
21	MP2A	Mx	-.004	3
22	MP1A	X	-7.769	3
23	MP1A	Z	4.485	3
24	MP1A	Mx	-.004	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP1A	X	-24.546	2
26	MP1A	Z	14.172	2
27	MP1A	Mx	.012	2
28	MP1A	X	-24.546	6
29	MP1A	Z	14.172	6
30	MP1A	Mx	.012	6
31	MP4A	X	-24.546	2
32	MP4A	Z	14.172	2
33	MP4A	Mx	.012	2
34	MP4A	X	-24.546	6
35	MP4A	Z	14.172	6
36	MP4A	Mx	.012	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-23.827	2
2	MP2A	Z	0	2
3	MP2A	Mx	.012	2
4	MP2A	X	-23.827	6
5	MP2A	Z	0	6
6	MP2A	Mx	.012	6
7	MP2A	X	-23.827	2
8	MP2A	Z	0	2
9	MP2A	Mx	.012	2
10	MP2A	X	-23.827	6
11	MP2A	Z	0	6
12	MP2A	Mx	.012	6
13	MP3A	X	-6.619	3
14	MP3A	Z	0	3
15	MP3A	Mx	.003	3
16	MP3A	X	-6.619	5
17	MP3A	Z	0	5
18	MP3A	Mx	.003	5
19	MP2A	X	-9.11	3
20	MP2A	Z	0	3
21	MP2A	Mx	-.005	3
22	MP1A	X	-7.596	3
23	MP1A	Z	0	3
24	MP1A	Mx	-.004	3
25	MP1A	X	-27.574	2
26	MP1A	Z	0	2
27	MP1A	Mx	.014	2
28	MP1A	X	-27.574	6
29	MP1A	Z	0	6
30	MP1A	Mx	.014	6
31	MP4A	X	-27.574	2
32	MP4A	Z	0	2
33	MP4A	Mx	.014	2
34	MP4A	X	-27.574	6
35	MP4A	Z	0	6
36	MP4A	Mx	.014	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-22.295	2
2	MP2A	Z	-12.872	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP2A	Mx	.001	2
4	MP2A	X	-22.295	6
5	MP2A	Z	-12.872	6
6	MP2A	Mx	.001	6
7	MP2A	X	-22.295	2
8	MP2A	Z	-12.872	2
9	MP2A	Mx	.021	2
10	MP2A	X	-22.295	6
11	MP2A	Z	-12.872	6
12	MP2A	Mx	.021	6
13	MP3A	X	-7.664	3
14	MP3A	Z	-4.425	3
15	MP3A	Mx	.004	3
16	MP3A	X	-7.664	5
17	MP3A	Z	-4.425	5
18	MP3A	Mx	.004	5
19	MP2A	X	-8.753	3
20	MP2A	Z	-5.053	3
21	MP2A	Mx	-.004	3
22	MP1A	X	-7.769	3
23	MP1A	Z	-4.485	3
24	MP1A	Mx	-.004	3
25	MP1A	X	-24.546	2
26	MP1A	Z	-14.172	2
27	MP1A	Mx	.012	2
28	MP1A	X	-24.546	6
29	MP1A	Z	-14.172	6
30	MP1A	Mx	.012	6
31	MP4A	X	-24.546	2
32	MP4A	Z	-14.172	2
33	MP4A	Mx	.012	2
34	MP4A	X	-24.546	6
35	MP4A	Z	-14.172	6
36	MP4A	Mx	.012	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-14.789	2
2	MP2A	Z	-25.615	2
3	MP2A	Mx	-.012	2
4	MP2A	X	-14.789	6
5	MP2A	Z	-25.615	6
6	MP2A	Mx	-.012	6
7	MP2A	X	-14.789	2
8	MP2A	Z	-25.615	2
9	MP2A	Mx	.027	2
10	MP2A	X	-14.789	6
11	MP2A	Z	-25.615	6
12	MP2A	Mx	.027	6
13	MP3A	X	-6.654	3
14	MP3A	Z	-11.525	3
15	MP3A	Mx	.003	3
16	MP3A	X	-6.654	5
17	MP3A	Z	-11.525	5
18	MP3A	Mx	.003	5
19	MP2A	X	-6.05	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP2A	Z	-10.479	3
21	MP2A	Mx	-.003	3
22	MP1A	X	-5.861	3
23	MP1A	Z	-10.151	3
24	MP1A	Mx	-.003	3
25	MP1A	X	-14.941	2
26	MP1A	Z	-25.878	2
27	MP1A	Mx	.007	2
28	MP1A	X	-14.941	6
29	MP1A	Z	-25.878	6
30	MP1A	Mx	.007	6
31	MP4A	X	-14.941	2
32	MP4A	Z	-25.878	2
33	MP4A	Mx	.007	2
34	MP4A	X	-14.941	6
35	MP4A	Z	-25.878	6
36	MP4A	Mx	.007	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	2
2	MP2A	Z	-10.397	2
3	MP2A	Mx	-.008	2
4	MP2A	X	0	6
5	MP2A	Z	-10.397	6
6	MP2A	Mx	-.008	6
7	MP2A	X	0	2
8	MP2A	Z	-10.397	2
9	MP2A	Mx	.008	2
10	MP2A	X	0	6
11	MP2A	Z	-10.397	6
12	MP2A	Mx	.008	6
13	MP3A	X	0	3
14	MP3A	Z	-4.951	3
15	MP3A	Mx	0	3
16	MP3A	X	0	5
17	MP3A	Z	-4.951	5
18	MP3A	Mx	0	5
19	MP2A	X	0	3
20	MP2A	Z	-3.265	3
21	MP2A	Mx	0	3
22	MP1A	X	0	3
23	MP1A	Z	-3.265	3
24	MP1A	Mx	0	3
25	MP1A	X	0	2
26	MP1A	Z	-10.112	2
27	MP1A	Mx	0	2
28	MP1A	X	0	6
29	MP1A	Z	-10.112	6
30	MP1A	Mx	0	6
31	MP4A	X	0	2
32	MP4A	Z	-10.112	2
33	MP4A	Mx	0	2
34	MP4A	X	0	6
35	MP4A	Z	-10.112	6
36	MP4A	Mx	0	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	4.865	2
2	MP2A	Z	-8.426	2
3	MP2A	Mx	-.009	2
4	MP2A	X	4.865	6
5	MP2A	Z	-8.426	6
6	MP2A	Mx	-.009	6
7	MP2A	X	4.865	2
8	MP2A	Z	-8.426	2
9	MP2A	Mx	.004	2
10	MP2A	X	4.865	6
11	MP2A	Z	-8.426	6
12	MP2A	Mx	.004	6
13	MP3A	X	2.099	3
14	MP3A	Z	-3.635	3
15	MP3A	Mx	-.001	3
16	MP3A	X	2.099	5
17	MP3A	Z	-3.635	5
18	MP3A	Mx	-.001	5
19	MP2A	X	1.498	3
20	MP2A	Z	-2.595	3
21	MP2A	Mx	.000749	3
22	MP1A	X	1.448	3
23	MP1A	Z	-2.509	3
24	MP1A	Mx	.000724	3
25	MP1A	X	4.921	2
26	MP1A	Z	-8.524	2
27	MP1A	Mx	-.002	2
28	MP1A	X	4.921	6
29	MP1A	Z	-8.524	6
30	MP1A	Mx	-.002	6
31	MP4A	X	4.921	2
32	MP4A	Z	-8.524	2
33	MP4A	Mx	-.002	2
34	MP4A	X	4.921	6
35	MP4A	Z	-8.524	6
36	MP4A	Mx	-.002	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	7.271	2
2	MP2A	Z	-4.198	2
3	MP2A	Mx	-.007	2
4	MP2A	X	7.271	6
5	MP2A	Z	-4.198	6
6	MP2A	Mx	-.007	6
7	MP2A	X	7.271	2
8	MP2A	Z	-4.198	2
9	MP2A	Mx	-.000487	2
10	MP2A	X	7.271	6
11	MP2A	Z	-4.198	6
12	MP2A	Mx	-.000487	6
13	MP3A	X	2.331	3
14	MP3A	Z	-1.346	3
15	MP3A	Mx	-.001	3
16	MP3A	X	2.331	5
17	MP3A	Z	-1.346	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP3A	Mx	-.001	5
19	MP2A	X	2.13	3
20	MP2A	Z	-1.23	3
21	MP2A	Mx	.001	3
22	MP1A	X	1.87	3
23	MP1A	Z	-1.08	3
24	MP1A	Mx	.000935	3
25	MP1A	X	8.056	2
26	MP1A	Z	-4.651	2
27	MP1A	Mx	-.004	2
28	MP1A	X	8.056	6
29	MP1A	Z	-4.651	6
30	MP1A	Mx	-.004	6
31	MP4A	X	8.056	2
32	MP4A	Z	-4.651	2
33	MP4A	Mx	-.004	2
34	MP4A	X	8.056	6
35	MP4A	Z	-4.651	6
36	MP4A	Mx	-.004	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	7.729	2
2	MP2A	Z	0	2
3	MP2A	Mx	-.004	2
4	MP2A	X	7.729	6
5	MP2A	Z	0	6
6	MP2A	Mx	-.004	6
7	MP2A	X	7.729	2
8	MP2A	Z	0	2
9	MP2A	Mx	-.004	2
10	MP2A	X	7.729	6
11	MP2A	Z	0	6
12	MP2A	Mx	-.004	6
13	MP3A	X	1.938	3
14	MP3A	Z	0	3
15	MP3A	Mx	-.000969	3
16	MP3A	X	1.938	5
17	MP3A	Z	0	5
18	MP3A	Mx	-.000969	5
19	MP2A	X	2.191	3
20	MP2A	Z	0	3
21	MP2A	Mx	.001	3
22	MP1A	X	1.791	3
23	MP1A	Z	0	3
24	MP1A	Mx	.000895	3
25	MP1A	X	9.032	2
26	MP1A	Z	0	2
27	MP1A	Mx	-.005	2
28	MP1A	X	9.032	6
29	MP1A	Z	0	6
30	MP1A	Mx	-.005	6
31	MP4A	X	9.032	2
32	MP4A	Z	0	2
33	MP4A	Mx	-.005	2
34	MP4A	X	9.032	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP4A	Z	0	6
36	MP4A	Mx	-.005	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	7.271	2
2	MP2A	Z	4.198	2
3	MP2A	Mx	-.000487	2
4	MP2A	X	7.271	6
5	MP2A	Z	4.198	6
6	MP2A	Mx	-.000487	6
7	MP2A	X	7.271	2
8	MP2A	Z	4.198	2
9	MP2A	Mx	-.007	2
10	MP2A	X	7.271	6
11	MP2A	Z	4.198	6
12	MP2A	Mx	-.007	6
13	MP3A	X	2.331	3
14	MP3A	Z	1.346	3
15	MP3A	Mx	-.001	3
16	MP3A	X	2.331	5
17	MP3A	Z	1.346	5
18	MP3A	Mx	-.001	5
19	MP2A	X	2.13	3
20	MP2A	Z	1.23	3
21	MP2A	Mx	.001	3
22	MP1A	X	1.87	3
23	MP1A	Z	1.08	3
24	MP1A	Mx	.000935	3
25	MP1A	X	8.056	2
26	MP1A	Z	4.651	2
27	MP1A	Mx	-.004	2
28	MP1A	X	8.056	6
29	MP1A	Z	4.651	6
30	MP1A	Mx	-.004	6
31	MP4A	X	8.056	2
32	MP4A	Z	4.651	2
33	MP4A	Mx	-.004	2
34	MP4A	X	8.056	6
35	MP4A	Z	4.651	6
36	MP4A	Mx	-.004	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	4.865	2
2	MP2A	Z	8.426	2
3	MP2A	Mx	.004	2
4	MP2A	X	4.865	6
5	MP2A	Z	8.426	6
6	MP2A	Mx	.004	6
7	MP2A	X	4.865	2
8	MP2A	Z	8.426	2
9	MP2A	Mx	-.009	2
10	MP2A	X	4.865	6
11	MP2A	Z	8.426	6
12	MP2A	Mx	-.009	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP3A	X	2.099	3
14	MP3A	Z	3.635	3
15	MP3A	Mx	-.001	3
16	MP3A	X	2.099	5
17	MP3A	Z	3.635	5
18	MP3A	Mx	-.001	5
19	MP2A	X	1.498	3
20	MP2A	Z	2.595	3
21	MP2A	Mx	.000749	3
22	MP1A	X	1.448	3
23	MP1A	Z	2.509	3
24	MP1A	Mx	.000724	3
25	MP1A	X	4.921	2
26	MP1A	Z	8.524	2
27	MP1A	Mx	-.002	2
28	MP1A	X	4.921	6
29	MP1A	Z	8.524	6
30	MP1A	Mx	-.002	6
31	MP4A	X	4.921	2
32	MP4A	Z	8.524	2
33	MP4A	Mx	-.002	2
34	MP4A	X	4.921	6
35	MP4A	Z	8.524	6
36	MP4A	Mx	-.002	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	2
2	MP2A	Z	10.397	2
3	MP2A	Mx	.008	2
4	MP2A	X	0	6
5	MP2A	Z	10.397	6
6	MP2A	Mx	.008	6
7	MP2A	X	0	2
8	MP2A	Z	10.397	2
9	MP2A	Mx	-.008	2
10	MP2A	X	0	6
11	MP2A	Z	10.397	6
12	MP2A	Mx	-.008	6
13	MP3A	X	0	3
14	MP3A	Z	4.951	3
15	MP3A	Mx	0	3
16	MP3A	X	0	5
17	MP3A	Z	4.951	5
18	MP3A	Mx	0	5
19	MP2A	X	0	3
20	MP2A	Z	3.265	3
21	MP2A	Mx	0	3
22	MP1A	X	0	3
23	MP1A	Z	3.265	3
24	MP1A	Mx	0	3
25	MP1A	X	0	2
26	MP1A	Z	10.112	2
27	MP1A	Mx	0	2
28	MP1A	X	0	6
29	MP1A	Z	10.112	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP1A	Mx	0	6
31	MP4A	X	0	2
32	MP4A	Z	10.112	2
33	MP4A	Mx	0	2
34	MP4A	X	0	6
35	MP4A	Z	10.112	6
36	MP4A	Mx	0	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-4.865	2
2	MP2A	Z	8.426	2
3	MP2A	Mx	.009	2
4	MP2A	X	-4.865	6
5	MP2A	Z	8.426	6
6	MP2A	Mx	.009	6
7	MP2A	X	-4.865	2
8	MP2A	Z	8.426	2
9	MP2A	Mx	-.004	2
10	MP2A	X	-4.865	6
11	MP2A	Z	8.426	6
12	MP2A	Mx	-.004	6
13	MP3A	X	-2.099	3
14	MP3A	Z	3.635	3
15	MP3A	Mx	.001	3
16	MP3A	X	-2.099	5
17	MP3A	Z	3.635	5
18	MP3A	Mx	.001	5
19	MP2A	X	-1.498	3
20	MP2A	Z	2.595	3
21	MP2A	Mx	-.000749	3
22	MP1A	X	-1.448	3
23	MP1A	Z	2.509	3
24	MP1A	Mx	-.000724	3
25	MP1A	X	-4.921	2
26	MP1A	Z	8.524	2
27	MP1A	Mx	.002	2
28	MP1A	X	-4.921	6
29	MP1A	Z	8.524	6
30	MP1A	Mx	.002	6
31	MP4A	X	-4.921	2
32	MP4A	Z	8.524	2
33	MP4A	Mx	.002	2
34	MP4A	X	-4.921	6
35	MP4A	Z	8.524	6
36	MP4A	Mx	.002	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-7.271	2
2	MP2A	Z	4.198	2
3	MP2A	Mx	.007	2
4	MP2A	X	-7.271	6
5	MP2A	Z	4.198	6
6	MP2A	Mx	.007	6
7	MP2A	X	-7.271	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP2A	Z	4.198	2
9	MP2A	Mx	.000487	2
10	MP2A	X	-7.271	6
11	MP2A	Z	4.198	6
12	MP2A	Mx	.000487	6
13	MP3A	X	-2.331	3
14	MP3A	Z	1.346	3
15	MP3A	Mx	.001	3
16	MP3A	X	-2.331	5
17	MP3A	Z	1.346	5
18	MP3A	Mx	.001	5
19	MP2A	X	-2.13	3
20	MP2A	Z	1.23	3
21	MP2A	Mx	-.001	3
22	MP1A	X	-1.87	3
23	MP1A	Z	1.08	3
24	MP1A	Mx	-.000935	3
25	MP1A	X	-8.056	2
26	MP1A	Z	4.651	2
27	MP1A	Mx	.004	2
28	MP1A	X	-8.056	6
29	MP1A	Z	4.651	6
30	MP1A	Mx	.004	6
31	MP4A	X	-8.056	2
32	MP4A	Z	4.651	2
33	MP4A	Mx	.004	2
34	MP4A	X	-8.056	6
35	MP4A	Z	4.651	6
36	MP4A	Mx	.004	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-7.729	2
2	MP2A	Z	0	2
3	MP2A	Mx	.004	2
4	MP2A	X	-7.729	6
5	MP2A	Z	0	6
6	MP2A	Mx	.004	6
7	MP2A	X	-7.729	2
8	MP2A	Z	0	2
9	MP2A	Mx	.004	2
10	MP2A	X	-7.729	6
11	MP2A	Z	0	6
12	MP2A	Mx	.004	6
13	MP3A	X	-1.938	3
14	MP3A	Z	0	3
15	MP3A	Mx	.000969	3
16	MP3A	X	-1.938	5
17	MP3A	Z	0	5
18	MP3A	Mx	.000969	5
19	MP2A	X	-2.191	3
20	MP2A	Z	0	3
21	MP2A	Mx	-.001	3
22	MP1A	X	-1.791	3
23	MP1A	Z	0	3
24	MP1A	Mx	-.000895	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP1A	X	-9.032	2
26	MP1A	Z	0	2
27	MP1A	Mx	.005	2
28	MP1A	X	-9.032	6
29	MP1A	Z	0	6
30	MP1A	Mx	.005	6
31	MP4A	X	-9.032	2
32	MP4A	Z	0	2
33	MP4A	Mx	.005	2
34	MP4A	X	-9.032	6
35	MP4A	Z	0	6
36	MP4A	Mx	.005	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-7.271	2
2	MP2A	Z	-4.198	2
3	MP2A	Mx	.000487	2
4	MP2A	X	-7.271	6
5	MP2A	Z	-4.198	6
6	MP2A	Mx	.000487	6
7	MP2A	X	-7.271	2
8	MP2A	Z	-4.198	2
9	MP2A	Mx	.007	2
10	MP2A	X	-7.271	6
11	MP2A	Z	-4.198	6
12	MP2A	Mx	.007	6
13	MP3A	X	-2.331	3
14	MP3A	Z	-1.346	3
15	MP3A	Mx	.001	3
16	MP3A	X	-2.331	5
17	MP3A	Z	-1.346	5
18	MP3A	Mx	.001	5
19	MP2A	X	-2.13	3
20	MP2A	Z	-1.23	3
21	MP2A	Mx	-.001	3
22	MP1A	X	-1.87	3
23	MP1A	Z	-1.08	3
24	MP1A	Mx	-.000935	3
25	MP1A	X	-8.056	2
26	MP1A	Z	-4.651	2
27	MP1A	Mx	.004	2
28	MP1A	X	-8.056	6
29	MP1A	Z	-4.651	6
30	MP1A	Mx	.004	6
31	MP4A	X	-8.056	2
32	MP4A	Z	-4.651	2
33	MP4A	Mx	.004	2
34	MP4A	X	-8.056	6
35	MP4A	Z	-4.651	6
36	MP4A	Mx	.004	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-4.865	2
2	MP2A	Z	-8.426	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP2A	Mx	-.004	2
4	MP2A	X	-4.865	6
5	MP2A	Z	-8.426	6
6	MP2A	Mx	-.004	6
7	MP2A	X	-4.865	2
8	MP2A	Z	-8.426	2
9	MP2A	Mx	.009	2
10	MP2A	X	-4.865	6
11	MP2A	Z	-8.426	6
12	MP2A	Mx	.009	6
13	MP3A	X	-2.099	3
14	MP3A	Z	-3.635	3
15	MP3A	Mx	.001	3
16	MP3A	X	-2.099	5
17	MP3A	Z	-3.635	5
18	MP3A	Mx	.001	5
19	MP2A	X	-1.498	3
20	MP2A	Z	-2.595	3
21	MP2A	Mx	-.000749	3
22	MP1A	X	-1.448	3
23	MP1A	Z	-2.509	3
24	MP1A	Mx	-.000724	3
25	MP1A	X	-4.921	2
26	MP1A	Z	-8.524	2
27	MP1A	Mx	.002	2
28	MP1A	X	-4.921	6
29	MP1A	Z	-8.524	6
30	MP1A	Mx	.002	6
31	MP4A	X	-4.921	2
32	MP4A	Z	-8.524	2
33	MP4A	Mx	.002	2
34	MP4A	X	-4.921	6
35	MP4A	Z	-8.524	6
36	MP4A	Mx	.002	6

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	LIVE1	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	LIVE2	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

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

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-.981	2

Member Point Loads (BLC 81 : Antenna Ev) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
2	MP2A	My	-.000491	2
3	MP2A	Mz	.000736	2
4	MP2A	Y	-.981	6
5	MP2A	My	-.000491	6
6	MP2A	Mz	.000736	6
7	MP2A	Y	-.981	2
8	MP2A	My	-.000491	2
9	MP2A	Mz	-.000736	2
10	MP2A	Y	-.981	6
11	MP2A	My	-.000491	6
12	MP2A	Mz	-.000736	6
13	MP3A	Y	-1.858	3
14	MP3A	My	-.000929	3
15	MP3A	Mz	0	3
16	MP3A	Y	-1.858	5
17	MP3A	My	-.000929	5
18	MP3A	Mz	0	5
19	MP2A	Y	-3.601	3
20	MP2A	My	.002	3
21	MP2A	Mz	0	3
22	MP1A	Y	-2.999	3
23	MP1A	My	.002	3
24	MP1A	Mz	0	3
25	MP1A	Y	-.576	2
26	MP1A	My	-.000288	2
27	MP1A	Mz	0	2
28	MP1A	Y	-.576	6
29	MP1A	My	-.000288	6
30	MP1A	Mz	0	6
31	MP4A	Y	-.576	2
32	MP4A	My	-.000288	2
33	MP4A	Mz	0	2
34	MP4A	Y	-.576	6
35	MP4A	My	-.000288	6
36	MP4A	Mz	0	6

Member Point Loads (BLC 82 : Antenna Eh (0 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Z	-2.453	2
2	MP2A	Mx	-.002	2
3	MP2A	Z	-2.453	6
4	MP2A	Mx	-.002	6
5	MP2A	Z	-2.453	2
6	MP2A	Mx	.002	2
7	MP2A	Z	-2.453	6
8	MP2A	Mx	.002	6
9	MP3A	Z	-4.645	3
10	MP3A	Mx	0	3
11	MP3A	Z	-4.645	5
12	MP3A	Mx	0	5
13	MP2A	Z	-9.003	3
14	MP2A	Mx	0	3
15	MP1A	Z	-7.499	3
16	MP1A	Mx	0	3
17	MP1A	Z	-1.44	2
18	MP1A	Mx	0	2

Member Point Loads (BLC 82 : Antenna Eh (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	MP1A	Z	-1.44	6
20	MP1A	Mx	0	6
21	MP4A	Z	-1.44	2
22	MP4A	Mx	0	2
23	MP4A	Z	-1.44	6
24	MP4A	Mx	0	6

Member Point Loads (BLC 83 : Antenna Eh (90 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.453	2
2	MP2A	Mx	-.001	2
3	MP2A	X	2.453	6
4	MP2A	Mx	-.001	6
5	MP2A	X	2.453	2
6	MP2A	Mx	-.001	2
7	MP2A	X	2.453	6
8	MP2A	Mx	-.001	6
9	MP3A	X	4.645	3
10	MP3A	Mx	-.002	3
11	MP3A	X	4.645	5
12	MP3A	Mx	-.002	5
13	MP2A	X	9.003	3
14	MP2A	Mx	.005	3
15	MP1A	X	7.499	3
16	MP1A	Mx	.004	3
17	MP1A	X	1.44	2
18	MP1A	Mx	-.00072	2
19	MP1A	X	1.44	6
20	MP1A	Mx	-.00072	6
21	MP4A	X	1.44	2
22	MP4A	Mx	-.00072	2
23	MP4A	X	1.44	6
24	MP4A	Mx	-.00072	6

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	Y	-5.69	-5.69	0	%100
2	M2	Y	-5.69	-5.69	0	%100
3	M13	Y	-6.65	-6.65	0	%100
4	M14	Y	-6.65	-6.65	0	%100
5	M15	Y	-6.65	-6.65	0	%100
6	M16	Y	-6.65	-6.65	0	%100
7	M17	Y	-4.984	-4.984	0	%100
8	M18	Y	-4.984	-4.984	0	%100
9	M19	Y	-4.984	-4.984	0	%100
10	M20	Y	-4.984	-4.984	0	%100
11	M21	Y	-6.65	-6.65	0	%100
12	M22	Y	-6.65	-6.65	0	%100
13	M23	Y	-6.65	-6.65	0	%100
14	M24	Y	-6.65	-6.65	0	%100
15	M25	Y	-2.69	-2.69	0	%100
16	M26	Y	-2.69	-2.69	0	%100
17	M27	Y	-2.69	-2.69	0	%100
18	M28	Y	-2.69	-2.69	0	%100
19	MP4A	Y	-4.984	-4.984	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
20	MP3A	Y	-4.984	-4.984	0	%100
21	MP2A	Y	-4.984	-4.984	0	%100
22	MP1A	Y	-4.984	-4.984	0	%100
23	M44	Y	-2.513	-2.513	0	%100
24	M45	Y	-2.513	-2.513	0	%100
25	M46	Y	-2.513	-2.513	0	%100
26	M47	Y	-2.513	-2.513	0	%100
27	M43	Y	-4.984	-4.984	0	%100
28	M44A	Y	-4.984	-4.984	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	-9.371	-9.371	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-9.371	-9.371	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-3.7	-3.7	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-3.7	-3.7	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-3.7	-3.7	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	-3.7	-3.7	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-2.037	-2.037	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-2.037	-2.037	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-2.037	-2.037	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-2.037	-2.037	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-2.11	-2.11	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-2.11	-2.11	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-2.11	-2.11	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-2.11	-2.11	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-7.741	-7.741	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-7.741	-7.741	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-7.741	-7.741	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-7.741	-7.741	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
45	M44	X	0	0	0	%100
46	M44	Z	-2.037	-2.037	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-2.037	-2.037	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	-2.037	-2.037	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-2.037	-2.037	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	-.513	-.513	0	%100
55	M44A	X	0	0	0	%100
56	M44A	Z	-.513	-.513	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	3.514	3.514	0	%100
2	FACE	Z	-6.086	-6.086	0	%100
3	M2	X	3.514	3.514	0	%100
4	M2	Z	-6.086	-6.086	0	%100
5	M13	X	.255	.255	0	%100
6	M13	Z	-.441	-.441	0	%100
7	M14	X	.255	.255	0	%100
8	M14	Z	-.441	-.441	0	%100
9	M15	X	.255	.255	0	%100
10	M15	Z	-.441	-.441	0	%100
11	M16	X	.255	.255	0	%100
12	M16	Z	-.441	-.441	0	%100
13	M17	X	.416	.416	0	%100
14	M17	Z	-.721	-.721	0	%100
15	M18	X	.416	.416	0	%100
16	M18	Z	-.721	-.721	0	%100
17	M19	X	2.925	2.925	0	%100
18	M19	Z	-5.067	-5.067	0	%100
19	M20	X	2.925	2.925	0	%100
20	M20	Z	-5.067	-5.067	0	%100
21	M21	X	.764	.764	0	%100
22	M21	Z	-1.323	-1.323	0	%100
23	M22	X	.764	.764	0	%100
24	M22	Z	-1.323	-1.323	0	%100
25	M23	X	.764	.764	0	%100
26	M23	Z	-1.323	-1.323	0	%100
27	M24	X	.764	.764	0	%100
28	M24	Z	-1.323	-1.323	0	%100
29	M25	X	.844	.844	0	%100
30	M25	Z	-1.461	-1.461	0	%100
31	M26	X	.844	.844	0	%100
32	M26	Z	-1.461	-1.461	0	%100
33	M27	X	1.214	1.214	0	%100
34	M27	Z	-2.102	-2.102	0	%100
35	M28	X	1.214	1.214	0	%100
36	M28	Z	-2.102	-2.102	0	%100
37	MP4A	X	3.87	3.87	0	%100
38	MP4A	Z	-6.704	-6.704	0	%100
39	MP3A	X	3.87	3.87	0	%100
40	MP3A	Z	-6.704	-6.704	0	%100
41	MP2A	X	3.87	3.87	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
42	MP2A	Z	-6.704	-6.704	0	%100
43	MP1A	X	3.87	3.87	0	%100
44	MP1A	Z	-6.704	-6.704	0	%100
45	M44	X	1.019	1.019	0	%100
46	M44	Z	-1.764	-1.764	0	%100
47	M45	X	1.019	1.019	0	%100
48	M45	Z	-1.764	-1.764	0	%100
49	M46	X	1.019	1.019	0	%100
50	M46	Z	-1.764	-1.764	0	%100
51	M47	X	1.019	1.019	0	%100
52	M47	Z	-1.764	-1.764	0	%100
53	M43	X	1.93	1.93	0	%100
54	M43	Z	-3.343	-3.343	0	%100
55	M44A	X	.262	.262	0	%100
56	M44A	Z	-.453	-.453	0	%100

Member Distributed Loads (BLC 43 : Structure Wo (60 Deg))

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	2.029	2.029	0	%100
2	FACE	Z	-1.171	-1.171	0	%100
3	M2	X	2.029	2.029	0	%100
4	M2	Z	-1.171	-1.171	0	%100
5	M13	X	1.323	1.323	0	%100
6	M13	Z	-.764	-.764	0	%100
7	M14	X	1.323	1.323	0	%100
8	M14	Z	-.764	-.764	0	%100
9	M15	X	1.323	1.323	0	%100
10	M15	Z	-.764	-.764	0	%100
11	M16	X	1.323	1.323	0	%100
12	M16	Z	-.764	-.764	0	%100
13	M17	X	.102	.102	0	%100
14	M17	Z	-.059	-.059	0	%100
15	M18	X	.102	.102	0	%100
16	M18	Z	-.059	-.059	0	%100
17	M19	X	4.447	4.447	0	%100
18	M19	Z	-2.568	-2.568	0	%100
19	M20	X	4.447	4.447	0	%100
20	M20	Z	-2.568	-2.568	0	%100
21	M21	X	.441	.441	0	%100
22	M21	Z	-.255	-.255	0	%100
23	M22	X	.441	.441	0	%100
24	M22	Z	-.255	-.255	0	%100
25	M23	X	.441	.441	0	%100
26	M23	Z	-.255	-.255	0	%100
27	M24	X	.441	.441	0	%100
28	M24	Z	-.255	-.255	0	%100
29	M25	X	1.37	1.37	0	%100
30	M25	Z	-.791	-.791	0	%100
31	M26	X	1.37	1.37	0	%100
32	M26	Z	-.791	-.791	0	%100
33	M27	X	2.011	2.011	0	%100
34	M27	Z	-1.161	-1.161	0	%100
35	M28	X	2.011	2.011	0	%100
36	M28	Z	-1.161	-1.161	0	%100
37	MP4A	X	6.704	6.704	0	%100
38	MP4A	Z	-3.87	-3.87	0	%100

Member Distributed Loads (BLC 43 : Structure Wo (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
39	MP3A	X	6.704	6.704	0	%100
40	MP3A	Z	-3.87	-3.87	0	%100
41	MP2A	X	6.704	6.704	0	%100
42	MP2A	Z	-3.87	-3.87	0	%100
43	MP1A	X	6.704	6.704	0	%100
44	MP1A	Z	-3.87	-3.87	0	%100
45	M44	X	1.764	1.764	0	%100
46	M44	Z	-1.019	-1.019	0	%100
47	M45	X	1.764	1.764	0	%100
48	M45	Z	-1.019	-1.019	0	%100
49	M46	X	1.764	1.764	0	%100
50	M46	Z	-1.019	-1.019	0	%100
51	M47	X	1.764	1.764	0	%100
52	M47	Z	-1.019	-1.019	0	%100
53	M43	X	6.25	6.25	0	%100
54	M43	Z	-3.609	-3.609	0	%100
55	M44A	X	3.361	3.361	0	%100
56	M44A	Z	-1.94	-1.94	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	2.037	2.037	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	2.037	2.037	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	2.037	2.037	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	2.037	2.037	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	2.269	2.269	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	2.269	2.269	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	2.269	2.269	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	2.269	2.269	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	1.899	1.899	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	1.899	1.899	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	1.899	1.899	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	1.899	1.899	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
36	M28	Z	0	0	0	%100
37	MP4A	X	7.741	7.741	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	7.741	7.741	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	7.741	7.741	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	7.741	7.741	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	2.037	2.037	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	2.037	2.037	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	2.037	2.037	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	2.037	2.037	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	7.227	7.227	0	%100
54	M43	Z	0	0	0	%100
55	M44A	X	7.227	7.227	0	%100
56	M44A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	2.029	2.029	0	%100
2	FACE	Z	1.171	1.171	0	%100
3	M2	X	2.029	2.029	0	%100
4	M2	Z	1.171	1.171	0	%100
5	M13	X	1.323	1.323	0	%100
6	M13	Z	.764	.764	0	%100
7	M14	X	1.323	1.323	0	%100
8	M14	Z	.764	.764	0	%100
9	M15	X	1.323	1.323	0	%100
10	M15	Z	.764	.764	0	%100
11	M16	X	1.323	1.323	0	%100
12	M16	Z	.764	.764	0	%100
13	M17	X	4.447	4.447	0	%100
14	M17	Z	2.568	2.568	0	%100
15	M18	X	4.447	4.447	0	%100
16	M18	Z	2.568	2.568	0	%100
17	M19	X	.102	.102	0	%100
18	M19	Z	.059	.059	0	%100
19	M20	X	.102	.102	0	%100
20	M20	Z	.059	.059	0	%100
21	M21	X	.441	.441	0	%100
22	M21	Z	.255	.255	0	%100
23	M22	X	.441	.441	0	%100
24	M22	Z	.255	.255	0	%100
25	M23	X	.441	.441	0	%100
26	M23	Z	.255	.255	0	%100
27	M24	X	.441	.441	0	%100
28	M24	Z	.255	.255	0	%100
29	M25	X	2.011	2.011	0	%100
30	M25	Z	1.161	1.161	0	%100
31	M26	X	2.011	2.011	0	%100
32	M26	Z	1.161	1.161	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
33	M27	X	1.37	1.37	0	%100
34	M27	Z	.791	.791	0	%100
35	M28	X	1.37	1.37	0	%100
36	M28	Z	.791	.791	0	%100
37	MP4A	X	6.704	6.704	0	%100
38	MP4A	Z	3.87	3.87	0	%100
39	MP3A	X	6.704	6.704	0	%100
40	MP3A	Z	3.87	3.87	0	%100
41	MP2A	X	6.704	6.704	0	%100
42	MP2A	Z	3.87	3.87	0	%100
43	MP1A	X	6.704	6.704	0	%100
44	MP1A	Z	3.87	3.87	0	%100
45	M44	X	1.764	1.764	0	%100
46	M44	Z	1.019	1.019	0	%100
47	M45	X	1.764	1.764	0	%100
48	M45	Z	1.019	1.019	0	%100
49	M46	X	1.764	1.764	0	%100
50	M46	Z	1.019	1.019	0	%100
51	M47	X	1.764	1.764	0	%100
52	M47	Z	1.019	1.019	0	%100
53	M43	X	3.361	3.361	0	%100
54	M43	Z	1.94	1.94	0	%100
55	M44A	X	6.25	6.25	0	%100
56	M44A	Z	3.609	3.609	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	3.514	3.514	0	%100
2	FACE	Z	6.086	6.086	0	%100
3	M2	X	3.514	3.514	0	%100
4	M2	Z	6.086	6.086	0	%100
5	M13	X	.255	.255	0	%100
6	M13	Z	.441	.441	0	%100
7	M14	X	.255	.255	0	%100
8	M14	Z	.441	.441	0	%100
9	M15	X	.255	.255	0	%100
10	M15	Z	.441	.441	0	%100
11	M16	X	.255	.255	0	%100
12	M16	Z	.441	.441	0	%100
13	M17	X	2.925	2.925	0	%100
14	M17	Z	5.067	5.067	0	%100
15	M18	X	2.925	2.925	0	%100
16	M18	Z	5.067	5.067	0	%100
17	M19	X	.416	.416	0	%100
18	M19	Z	.721	.721	0	%100
19	M20	X	.416	.416	0	%100
20	M20	Z	.721	.721	0	%100
21	M21	X	.764	.764	0	%100
22	M21	Z	1.323	1.323	0	%100
23	M22	X	.764	.764	0	%100
24	M22	Z	1.323	1.323	0	%100
25	M23	X	.764	.764	0	%100
26	M23	Z	1.323	1.323	0	%100
27	M24	X	.764	.764	0	%100
28	M24	Z	1.323	1.323	0	%100
29	M25	X	1.214	1.214	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
30	M25	Z	2.102	2.102	0	%100
31	M26	X	1.214	1.214	0	%100
32	M26	Z	2.102	2.102	0	%100
33	M27	X	.844	.844	0	%100
34	M27	Z	1.461	1.461	0	%100
35	M28	X	.844	.844	0	%100
36	M28	Z	1.461	1.461	0	%100
37	MP4A	X	3.87	3.87	0	%100
38	MP4A	Z	6.704	6.704	0	%100
39	MP3A	X	3.87	3.87	0	%100
40	MP3A	Z	6.704	6.704	0	%100
41	MP2A	X	3.87	3.87	0	%100
42	MP2A	Z	6.704	6.704	0	%100
43	MP1A	X	3.87	3.87	0	%100
44	MP1A	Z	6.704	6.704	0	%100
45	M44	X	1.019	1.019	0	%100
46	M44	Z	1.764	1.764	0	%100
47	M45	X	1.019	1.019	0	%100
48	M45	Z	1.764	1.764	0	%100
49	M46	X	1.019	1.019	0	%100
50	M46	Z	1.764	1.764	0	%100
51	M47	X	1.019	1.019	0	%100
52	M47	Z	1.764	1.764	0	%100
53	M43	X	.262	.262	0	%100
54	M43	Z	.453	.453	0	%100
55	M44A	X	1.93	1.93	0	%100
56	M44A	Z	3.343	3.343	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	9.371	9.371	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	9.371	9.371	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	3.7	3.7	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	3.7	3.7	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	3.7	3.7	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	3.7	3.7	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	2.037	2.037	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	2.037	2.037	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	2.037	2.037	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
27	M24	X	0	0	0	%100
28	M24	Z	2.037	2.037	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	2.11	2.11	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	2.11	2.11	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	2.11	2.11	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	2.11	2.11	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	7.741	7.741	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	7.741	7.741	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	7.741	7.741	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	7.741	7.741	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	2.037	2.037	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	2.037	2.037	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	2.037	2.037	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	2.037	2.037	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	.513	.513	0	%100
55	M44A	X	0	0	0	%100
56	M44A	Z	.513	.513	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-3.514	-3.514	0	%100
2	FACE	Z	6.086	6.086	0	%100
3	M2	X	-3.514	-3.514	0	%100
4	M2	Z	6.086	6.086	0	%100
5	M13	X	-.255	-.255	0	%100
6	M13	Z	.441	.441	0	%100
7	M14	X	-.255	-.255	0	%100
8	M14	Z	.441	.441	0	%100
9	M15	X	-.255	-.255	0	%100
10	M15	Z	.441	.441	0	%100
11	M16	X	-.255	-.255	0	%100
12	M16	Z	.441	.441	0	%100
13	M17	X	-.416	-.416	0	%100
14	M17	Z	.721	.721	0	%100
15	M18	X	-.416	-.416	0	%100
16	M18	Z	.721	.721	0	%100
17	M19	X	-2.925	-2.925	0	%100
18	M19	Z	5.067	5.067	0	%100
19	M20	X	-2.925	-2.925	0	%100
20	M20	Z	5.067	5.067	0	%100
21	M21	X	-.764	-.764	0	%100
22	M21	Z	1.323	1.323	0	%100
23	M22	X	-.764	-.764	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
24	M22	Z	1.323	1.323	0	%100
25	M23	X	-.764	-.764	0	%100
26	M23	Z	1.323	1.323	0	%100
27	M24	X	-.764	-.764	0	%100
28	M24	Z	1.323	1.323	0	%100
29	M25	X	-.844	-.844	0	%100
30	M25	Z	1.461	1.461	0	%100
31	M26	X	-.844	-.844	0	%100
32	M26	Z	1.461	1.461	0	%100
33	M27	X	-1.214	-1.214	0	%100
34	M27	Z	2.102	2.102	0	%100
35	M28	X	-1.214	-1.214	0	%100
36	M28	Z	2.102	2.102	0	%100
37	MP4A	X	-3.87	-3.87	0	%100
38	MP4A	Z	6.704	6.704	0	%100
39	MP3A	X	-3.87	-3.87	0	%100
40	MP3A	Z	6.704	6.704	0	%100
41	MP2A	X	-3.87	-3.87	0	%100
42	MP2A	Z	6.704	6.704	0	%100
43	MP1A	X	-3.87	-3.87	0	%100
44	MP1A	Z	6.704	6.704	0	%100
45	M44	X	-1.019	-1.019	0	%100
46	M44	Z	1.764	1.764	0	%100
47	M45	X	-1.019	-1.019	0	%100
48	M45	Z	1.764	1.764	0	%100
49	M46	X	-1.019	-1.019	0	%100
50	M46	Z	1.764	1.764	0	%100
51	M47	X	-1.019	-1.019	0	%100
52	M47	Z	1.764	1.764	0	%100
53	M43	X	-1.93	-1.93	0	%100
54	M43	Z	3.343	3.343	0	%100
55	M44A	X	-.262	-.262	0	%100
56	M44A	Z	.453	.453	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-2.029	-2.029	0	%100
2	FACE	Z	1.171	1.171	0	%100
3	M2	X	-2.029	-2.029	0	%100
4	M2	Z	1.171	1.171	0	%100
5	M13	X	-1.323	-1.323	0	%100
6	M13	Z	.764	.764	0	%100
7	M14	X	-1.323	-1.323	0	%100
8	M14	Z	.764	.764	0	%100
9	M15	X	-1.323	-1.323	0	%100
10	M15	Z	.764	.764	0	%100
11	M16	X	-1.323	-1.323	0	%100
12	M16	Z	.764	.764	0	%100
13	M17	X	-.102	-.102	0	%100
14	M17	Z	.059	.059	0	%100
15	M18	X	-.102	-.102	0	%100
16	M18	Z	.059	.059	0	%100
17	M19	X	-4.447	-4.447	0	%100
18	M19	Z	2.568	2.568	0	%100
19	M20	X	-4.447	-4.447	0	%100
20	M20	Z	2.568	2.568	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
21	M21	X	-.441	-.441	0	%100
22	M21	Z	.255	.255	0	%100
23	M22	X	-.441	-.441	0	%100
24	M22	Z	.255	.255	0	%100
25	M23	X	-.441	-.441	0	%100
26	M23	Z	.255	.255	0	%100
27	M24	X	-.441	-.441	0	%100
28	M24	Z	.255	.255	0	%100
29	M25	X	-1.37	-1.37	0	%100
30	M25	Z	.791	.791	0	%100
31	M26	X	-1.37	-1.37	0	%100
32	M26	Z	.791	.791	0	%100
33	M27	X	-2.011	-2.011	0	%100
34	M27	Z	1.161	1.161	0	%100
35	M28	X	-2.011	-2.011	0	%100
36	M28	Z	1.161	1.161	0	%100
37	MP4A	X	-6.704	-6.704	0	%100
38	MP4A	Z	3.87	3.87	0	%100
39	MP3A	X	-6.704	-6.704	0	%100
40	MP3A	Z	3.87	3.87	0	%100
41	MP2A	X	-6.704	-6.704	0	%100
42	MP2A	Z	3.87	3.87	0	%100
43	MP1A	X	-6.704	-6.704	0	%100
44	MP1A	Z	3.87	3.87	0	%100
45	M44	X	-1.764	-1.764	0	%100
46	M44	Z	1.019	1.019	0	%100
47	M45	X	-1.764	-1.764	0	%100
48	M45	Z	1.019	1.019	0	%100
49	M46	X	-1.764	-1.764	0	%100
50	M46	Z	1.019	1.019	0	%100
51	M47	X	-1.764	-1.764	0	%100
52	M47	Z	1.019	1.019	0	%100
53	M43	X	-6.25	-6.25	0	%100
54	M43	Z	3.609	3.609	0	%100
55	M44A	X	-3.361	-3.361	0	%100
56	M44A	Z	1.94	1.94	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-2.037	-2.037	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-2.037	-2.037	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-2.037	-2.037	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-2.037	-2.037	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-2.269	-2.269	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-2.269	-2.269	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-2.269	-2.269	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
18	M19	Z	0	0	0	%100
19	M20	X	-2.269	-2.269	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-1.899	-1.899	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-1.899	-1.899	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-1.899	-1.899	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-1.899	-1.899	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	-7.741	-7.741	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-7.741	-7.741	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	-7.741	-7.741	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	-7.741	-7.741	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	-2.037	-2.037	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	-2.037	-2.037	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	-2.037	-2.037	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	-2.037	-2.037	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	-7.227	-7.227	0	%100
54	M43	Z	0	0	0	%100
55	M44A	X	-7.227	-7.227	0	%100
56	M44A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-2.029	-2.029	0	%100
2	FACE	Z	-1.171	-1.171	0	%100
3	M2	X	-2.029	-2.029	0	%100
4	M2	Z	-1.171	-1.171	0	%100
5	M13	X	-1.323	-1.323	0	%100
6	M13	Z	-.764	-.764	0	%100
7	M14	X	-1.323	-1.323	0	%100
8	M14	Z	-.764	-.764	0	%100
9	M15	X	-1.323	-1.323	0	%100
10	M15	Z	-.764	-.764	0	%100
11	M16	X	-1.323	-1.323	0	%100
12	M16	Z	-.764	-.764	0	%100
13	M17	X	-4.447	-4.447	0	%100
14	M17	Z	-2.568	-2.568	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
15	M18	X	-4.447	-4.447	0	%100
16	M18	Z	-2.568	-2.568	0	%100
17	M19	X	-.102	-.102	0	%100
18	M19	Z	-.059	-.059	0	%100
19	M20	X	-.102	-.102	0	%100
20	M20	Z	-.059	-.059	0	%100
21	M21	X	-.441	-.441	0	%100
22	M21	Z	-.255	-.255	0	%100
23	M22	X	-.441	-.441	0	%100
24	M22	Z	-.255	-.255	0	%100
25	M23	X	-.441	-.441	0	%100
26	M23	Z	-.255	-.255	0	%100
27	M24	X	-.441	-.441	0	%100
28	M24	Z	-.255	-.255	0	%100
29	M25	X	-2.011	-2.011	0	%100
30	M25	Z	-1.161	-1.161	0	%100
31	M26	X	-2.011	-2.011	0	%100
32	M26	Z	-1.161	-1.161	0	%100
33	M27	X	-1.37	-1.37	0	%100
34	M27	Z	-.791	-.791	0	%100
35	M28	X	-1.37	-1.37	0	%100
36	M28	Z	-.791	-.791	0	%100
37	MP4A	X	-6.704	-6.704	0	%100
38	MP4A	Z	-3.87	-3.87	0	%100
39	MP3A	X	-6.704	-6.704	0	%100
40	MP3A	Z	-3.87	-3.87	0	%100
41	MP2A	X	-6.704	-6.704	0	%100
42	MP2A	Z	-3.87	-3.87	0	%100
43	MP1A	X	-6.704	-6.704	0	%100
44	MP1A	Z	-3.87	-3.87	0	%100
45	M44	X	-1.764	-1.764	0	%100
46	M44	Z	-1.019	-1.019	0	%100
47	M45	X	-1.764	-1.764	0	%100
48	M45	Z	-1.019	-1.019	0	%100
49	M46	X	-1.764	-1.764	0	%100
50	M46	Z	-1.019	-1.019	0	%100
51	M47	X	-1.764	-1.764	0	%100
52	M47	Z	-1.019	-1.019	0	%100
53	M43	X	-3.361	-3.361	0	%100
54	M43	Z	-1.94	-1.94	0	%100
55	M44A	X	-6.25	-6.25	0	%100
56	M44A	Z	-3.609	-3.609	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-3.514	-3.514	0	%100
2	FACE	Z	-6.086	-6.086	0	%100
3	M2	X	-3.514	-3.514	0	%100
4	M2	Z	-6.086	-6.086	0	%100
5	M13	X	-.255	-.255	0	%100
6	M13	Z	-.441	-.441	0	%100
7	M14	X	-.255	-.255	0	%100
8	M14	Z	-.441	-.441	0	%100
9	M15	X	-.255	-.255	0	%100
10	M15	Z	-.441	-.441	0	%100
11	M16	X	-.255	-.255	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
12	M16	Z	-.441	-.441	0	%100
13	M17	X	-2.925	-2.925	0	%100
14	M17	Z	-5.067	-5.067	0	%100
15	M18	X	-2.925	-2.925	0	%100
16	M18	Z	-5.067	-5.067	0	%100
17	M19	X	-.416	-.416	0	%100
18	M19	Z	-.721	-.721	0	%100
19	M20	X	-.416	-.416	0	%100
20	M20	Z	-.721	-.721	0	%100
21	M21	X	-.764	-.764	0	%100
22	M21	Z	-1.323	-1.323	0	%100
23	M22	X	-.764	-.764	0	%100
24	M22	Z	-1.323	-1.323	0	%100
25	M23	X	-.764	-.764	0	%100
26	M23	Z	-1.323	-1.323	0	%100
27	M24	X	-.764	-.764	0	%100
28	M24	Z	-1.323	-1.323	0	%100
29	M25	X	-1.214	-1.214	0	%100
30	M25	Z	-2.102	-2.102	0	%100
31	M26	X	-1.214	-1.214	0	%100
32	M26	Z	-2.102	-2.102	0	%100
33	M27	X	-.844	-.844	0	%100
34	M27	Z	-1.461	-1.461	0	%100
35	M28	X	-.844	-.844	0	%100
36	M28	Z	-1.461	-1.461	0	%100
37	MP4A	X	-3.87	-3.87	0	%100
38	MP4A	Z	-6.704	-6.704	0	%100
39	MP3A	X	-3.87	-3.87	0	%100
40	MP3A	Z	-6.704	-6.704	0	%100
41	MP2A	X	-3.87	-3.87	0	%100
42	MP2A	Z	-6.704	-6.704	0	%100
43	MP1A	X	-3.87	-3.87	0	%100
44	MP1A	Z	-6.704	-6.704	0	%100
45	M44	X	-1.019	-1.019	0	%100
46	M44	Z	-1.764	-1.764	0	%100
47	M45	X	-1.019	-1.019	0	%100
48	M45	Z	-1.764	-1.764	0	%100
49	M46	X	-1.019	-1.019	0	%100
50	M46	Z	-1.764	-1.764	0	%100
51	M47	X	-1.019	-1.019	0	%100
52	M47	Z	-1.764	-1.764	0	%100
53	M43	X	-.262	-.262	0	%100
54	M43	Z	-.453	-.453	0	%100
55	M44A	X	-1.93	-1.93	0	%100
56	M44A	Z	-3.343	-3.343	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	-3.035	-3.035	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-3.035	-3.035	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-1.316	-1.316	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-1.316	-1.316	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-1.316	-1.316	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	-1.316	-1.316	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-1.161	-1.161	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-1.161	-1.161	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-1.161	-1.161	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-1.161	-1.161	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-1.473	-1.473	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-1.473	-1.473	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-1.473	-1.473	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-1.473	-1.473	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-2.742	-2.742	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-2.742	-2.742	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-2.742	-2.742	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-2.742	-2.742	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	-1.526	-1.526	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-1.526	-1.526	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	-1.526	-1.526	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-1.526	-1.526	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	-.182	-.182	0	%100
55	M44A	X	0	0	0	%100
56	M44A	Z	-.182	-.182	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	1.138	1.138	0	%100
2	FACE	Z	-1.971	-1.971	0	%100
3	M2	X	1.138	1.138	0	%100
4	M2	Z	-1.971	-1.971	0	%100
5	M13	X	.144	.144	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
6	M13	Z	-.25	-.25	0	%100
7	M14	X	.144	.144	0	%100
8	M14	Z	-.25	-.25	0	%100
9	M15	X	.144	.144	0	%100
10	M15	Z	-.25	-.25	0	%100
11	M16	X	.144	.144	0	%100
12	M16	Z	-.25	-.25	0	%100
13	M17	X	.148	.148	0	%100
14	M17	Z	-.257	-.257	0	%100
15	M18	X	.148	.148	0	%100
16	M18	Z	-.257	-.257	0	%100
17	M19	X	1.041	1.041	0	%100
18	M19	Z	-1.802	-1.802	0	%100
19	M20	X	1.041	1.041	0	%100
20	M20	Z	-1.802	-1.802	0	%100
21	M21	X	.435	.435	0	%100
22	M21	Z	-.754	-.754	0	%100
23	M22	X	.435	.435	0	%100
24	M22	Z	-.754	-.754	0	%100
25	M23	X	.435	.435	0	%100
26	M23	Z	-.754	-.754	0	%100
27	M24	X	.435	.435	0	%100
28	M24	Z	-.754	-.754	0	%100
29	M25	X	.589	.589	0	%100
30	M25	Z	-1.02	-1.02	0	%100
31	M26	X	.589	.589	0	%100
32	M26	Z	-1.02	-1.02	0	%100
33	M27	X	.847	.847	0	%100
34	M27	Z	-1.468	-1.468	0	%100
35	M28	X	.847	.847	0	%100
36	M28	Z	-1.468	-1.468	0	%100
37	MP4A	X	1.371	1.371	0	%100
38	MP4A	Z	-2.375	-2.375	0	%100
39	MP3A	X	1.371	1.371	0	%100
40	MP3A	Z	-2.375	-2.375	0	%100
41	MP2A	X	1.371	1.371	0	%100
42	MP2A	Z	-2.375	-2.375	0	%100
43	MP1A	X	1.371	1.371	0	%100
44	MP1A	Z	-2.375	-2.375	0	%100
45	M44	X	.763	.763	0	%100
46	M44	Z	-1.321	-1.321	0	%100
47	M45	X	.763	.763	0	%100
48	M45	Z	-1.321	-1.321	0	%100
49	M46	X	.763	.763	0	%100
50	M46	Z	-1.321	-1.321	0	%100
51	M47	X	.763	.763	0	%100
52	M47	Z	-1.321	-1.321	0	%100
53	M43	X	.684	.684	0	%100
54	M43	Z	-1.184	-1.184	0	%100
55	M44A	X	.093	.093	0	%100
56	M44A	Z	-.161	-.161	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	.657	.657	0	%100
2	FACE	Z	-.379	-.379	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
3	M2	X	.657	.657	0	%100
4	M2	Z	-.379	-.379	0	%100
5	M13	X	.75	.75	0	%100
6	M13	Z	-.433	-.433	0	%100
7	M14	X	.75	.75	0	%100
8	M14	Z	-.433	-.433	0	%100
9	M15	X	.75	.75	0	%100
10	M15	Z	-.433	-.433	0	%100
11	M16	X	.75	.75	0	%100
12	M16	Z	-.433	-.433	0	%100
13	M17	X	.036	.036	0	%100
14	M17	Z	-.021	-.021	0	%100
15	M18	X	.036	.036	0	%100
16	M18	Z	-.021	-.021	0	%100
17	M19	X	1.582	1.582	0	%100
18	M19	Z	-.913	-.913	0	%100
19	M20	X	1.582	1.582	0	%100
20	M20	Z	-.913	-.913	0	%100
21	M21	X	.251	.251	0	%100
22	M21	Z	-.145	-.145	0	%100
23	M22	X	.251	.251	0	%100
24	M22	Z	-.145	-.145	0	%100
25	M23	X	.251	.251	0	%100
26	M23	Z	-.145	-.145	0	%100
27	M24	X	.251	.251	0	%100
28	M24	Z	-.145	-.145	0	%100
29	M25	X	.956	.956	0	%100
30	M25	Z	-.552	-.552	0	%100
31	M26	X	.956	.956	0	%100
32	M26	Z	-.552	-.552	0	%100
33	M27	X	1.404	1.404	0	%100
34	M27	Z	-.811	-.811	0	%100
35	M28	X	1.404	1.404	0	%100
36	M28	Z	-.811	-.811	0	%100
37	MP4A	X	2.375	2.375	0	%100
38	MP4A	Z	-1.371	-1.371	0	%100
39	MP3A	X	2.375	2.375	0	%100
40	MP3A	Z	-1.371	-1.371	0	%100
41	MP2A	X	2.375	2.375	0	%100
42	MP2A	Z	-1.371	-1.371	0	%100
43	MP1A	X	2.375	2.375	0	%100
44	MP1A	Z	-1.371	-1.371	0	%100
45	M44	X	1.321	1.321	0	%100
46	M44	Z	-.763	-.763	0	%100
47	M45	X	1.321	1.321	0	%100
48	M45	Z	-.763	-.763	0	%100
49	M46	X	1.321	1.321	0	%100
50	M46	Z	-.763	-.763	0	%100
51	M47	X	1.321	1.321	0	%100
52	M47	Z	-.763	-.763	0	%100
53	M43	X	2.214	2.214	0	%100
54	M43	Z	-1.278	-1.278	0	%100
55	M44A	X	1.191	1.191	0	%100
56	M44A	Z	-.687	-.687	0	%100

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

Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	1.155	1.155	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	1.155	1.155	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	1.155	1.155	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	1.155	1.155	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	.807	.807	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	.807	.807	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	.807	.807	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	.807	.807	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	1.326	1.326	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	1.326	1.326	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	1.326	1.326	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	1.326	1.326	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	2.742	2.742	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	2.742	2.742	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	2.742	2.742	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	2.742	2.742	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	1.526	1.526	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	1.526	1.526	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	1.526	1.526	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	1.526	1.526	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	2.56	2.56	0	%100
54	M43	Z	0	0	0	%100
55	M44A	X	2.56	2.56	0	%100
56	M44A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	.657	.657	0	%100
2	FACE	Z	.379	.379	0	%100
3	M2	X	.657	.657	0	%100
4	M2	Z	.379	.379	0	%100
5	M13	X	.75	.75	0	%100
6	M13	Z	.433	.433	0	%100
7	M14	X	.75	.75	0	%100
8	M14	Z	.433	.433	0	%100
9	M15	X	.75	.75	0	%100
10	M15	Z	.433	.433	0	%100
11	M16	X	.75	.75	0	%100
12	M16	Z	.433	.433	0	%100
13	M17	X	1.582	1.582	0	%100
14	M17	Z	.913	.913	0	%100
15	M18	X	1.582	1.582	0	%100
16	M18	Z	.913	.913	0	%100
17	M19	X	.036	.036	0	%100
18	M19	Z	.021	.021	0	%100
19	M20	X	.036	.036	0	%100
20	M20	Z	.021	.021	0	%100
21	M21	X	.251	.251	0	%100
22	M21	Z	.145	.145	0	%100
23	M22	X	.251	.251	0	%100
24	M22	Z	.145	.145	0	%100
25	M23	X	.251	.251	0	%100
26	M23	Z	.145	.145	0	%100
27	M24	X	.251	.251	0	%100
28	M24	Z	.145	.145	0	%100
29	M25	X	1.404	1.404	0	%100
30	M25	Z	.811	.811	0	%100
31	M26	X	1.404	1.404	0	%100
32	M26	Z	.811	.811	0	%100
33	M27	X	.956	.956	0	%100
34	M27	Z	.552	.552	0	%100
35	M28	X	.956	.956	0	%100
36	M28	Z	.552	.552	0	%100
37	MP4A	X	2.375	2.375	0	%100
38	MP4A	Z	1.371	1.371	0	%100
39	MP3A	X	2.375	2.375	0	%100
40	MP3A	Z	1.371	1.371	0	%100
41	MP2A	X	2.375	2.375	0	%100
42	MP2A	Z	1.371	1.371	0	%100
43	MP1A	X	2.375	2.375	0	%100
44	MP1A	Z	1.371	1.371	0	%100
45	M44	X	1.321	1.321	0	%100
46	M44	Z	.763	.763	0	%100
47	M45	X	1.321	1.321	0	%100
48	M45	Z	.763	.763	0	%100
49	M46	X	1.321	1.321	0	%100
50	M46	Z	.763	.763	0	%100
51	M47	X	1.321	1.321	0	%100
52	M47	Z	.763	.763	0	%100
53	M43	X	1.191	1.191	0	%100
54	M43	Z	.687	.687	0	%100
55	M44A	X	2.214	2.214	0	%100
56	M44A	Z	1.278	1.278	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	1.138	1.138	0	%100
2	FACE	Z	1.971	1.971	0	%100
3	M2	X	1.138	1.138	0	%100
4	M2	Z	1.971	1.971	0	%100
5	M13	X	.144	.144	0	%100
6	M13	Z	.25	.25	0	%100
7	M14	X	.144	.144	0	%100
8	M14	Z	.25	.25	0	%100
9	M15	X	.144	.144	0	%100
10	M15	Z	.25	.25	0	%100
11	M16	X	.144	.144	0	%100
12	M16	Z	.25	.25	0	%100
13	M17	X	1.041	1.041	0	%100
14	M17	Z	1.802	1.802	0	%100
15	M18	X	1.041	1.041	0	%100
16	M18	Z	1.802	1.802	0	%100
17	M19	X	.148	.148	0	%100
18	M19	Z	.257	.257	0	%100
19	M20	X	.148	.148	0	%100
20	M20	Z	.257	.257	0	%100
21	M21	X	.435	.435	0	%100
22	M21	Z	.754	.754	0	%100
23	M22	X	.435	.435	0	%100
24	M22	Z	.754	.754	0	%100
25	M23	X	.435	.435	0	%100
26	M23	Z	.754	.754	0	%100
27	M24	X	.435	.435	0	%100
28	M24	Z	.754	.754	0	%100
29	M25	X	.847	.847	0	%100
30	M25	Z	1.468	1.468	0	%100
31	M26	X	.847	.847	0	%100
32	M26	Z	1.468	1.468	0	%100
33	M27	X	.589	.589	0	%100
34	M27	Z	1.02	1.02	0	%100
35	M28	X	.589	.589	0	%100
36	M28	Z	1.02	1.02	0	%100
37	MP4A	X	1.371	1.371	0	%100
38	MP4A	Z	2.375	2.375	0	%100
39	MP3A	X	1.371	1.371	0	%100
40	MP3A	Z	2.375	2.375	0	%100
41	MP2A	X	1.371	1.371	0	%100
42	MP2A	Z	2.375	2.375	0	%100
43	MP1A	X	1.371	1.371	0	%100
44	MP1A	Z	2.375	2.375	0	%100
45	M44	X	.763	.763	0	%100
46	M44	Z	1.321	1.321	0	%100
47	M45	X	.763	.763	0	%100
48	M45	Z	1.321	1.321	0	%100
49	M46	X	.763	.763	0	%100
50	M46	Z	1.321	1.321	0	%100
51	M47	X	.763	.763	0	%100
52	M47	Z	1.321	1.321	0	%100
53	M43	X	.093	.093	0	%100
54	M43	Z	.161	.161	0	%100
55	M44A	X	.684	.684	0	%100
56	M44A	Z	1.184	1.184	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	3.035	3.035	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	3.035	3.035	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	1.316	1.316	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	1.316	1.316	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	1.316	1.316	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	1.316	1.316	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	1.161	1.161	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	1.161	1.161	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	1.161	1.161	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	1.161	1.161	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	1.473	1.473	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	1.473	1.473	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	1.473	1.473	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	1.473	1.473	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	2.742	2.742	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	2.742	2.742	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	2.742	2.742	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	2.742	2.742	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	1.526	1.526	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	1.526	1.526	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	1.526	1.526	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	1.526	1.526	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	.182	.182	0	%100
55	M44A	X	0	0	0	%100
56	M44A	Z	.182	.182	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-1.138	-1.138	0	%100
2	FACE	Z	1.971	1.971	0	%100
3	M2	X	-1.138	-1.138	0	%100
4	M2	Z	1.971	1.971	0	%100
5	M13	X	-.144	-.144	0	%100
6	M13	Z	.25	.25	0	%100
7	M14	X	-.144	-.144	0	%100
8	M14	Z	.25	.25	0	%100
9	M15	X	-.144	-.144	0	%100
10	M15	Z	.25	.25	0	%100
11	M16	X	-.144	-.144	0	%100
12	M16	Z	.25	.25	0	%100
13	M17	X	-.148	-.148	0	%100
14	M17	Z	.257	.257	0	%100
15	M18	X	-.148	-.148	0	%100
16	M18	Z	.257	.257	0	%100
17	M19	X	-1.041	-1.041	0	%100
18	M19	Z	1.802	1.802	0	%100
19	M20	X	-1.041	-1.041	0	%100
20	M20	Z	1.802	1.802	0	%100
21	M21	X	-.435	-.435	0	%100
22	M21	Z	.754	.754	0	%100
23	M22	X	-.435	-.435	0	%100
24	M22	Z	.754	.754	0	%100
25	M23	X	-.435	-.435	0	%100
26	M23	Z	.754	.754	0	%100
27	M24	X	-.435	-.435	0	%100
28	M24	Z	.754	.754	0	%100
29	M25	X	-.589	-.589	0	%100
30	M25	Z	1.02	1.02	0	%100
31	M26	X	-.589	-.589	0	%100
32	M26	Z	1.02	1.02	0	%100
33	M27	X	-.847	-.847	0	%100
34	M27	Z	1.468	1.468	0	%100
35	M28	X	-.847	-.847	0	%100
36	M28	Z	1.468	1.468	0	%100
37	MP4A	X	-1.371	-1.371	0	%100
38	MP4A	Z	2.375	2.375	0	%100
39	MP3A	X	-1.371	-1.371	0	%100
40	MP3A	Z	2.375	2.375	0	%100
41	MP2A	X	-1.371	-1.371	0	%100
42	MP2A	Z	2.375	2.375	0	%100
43	MP1A	X	-1.371	-1.371	0	%100
44	MP1A	Z	2.375	2.375	0	%100
45	M44	X	-.763	-.763	0	%100
46	M44	Z	1.321	1.321	0	%100
47	M45	X	-.763	-.763	0	%100
48	M45	Z	1.321	1.321	0	%100
49	M46	X	-.763	-.763	0	%100
50	M46	Z	1.321	1.321	0	%100
51	M47	X	-.763	-.763	0	%100
52	M47	Z	1.321	1.321	0	%100
53	M43	X	-.684	-.684	0	%100
54	M43	Z	1.184	1.184	0	%100
55	M44A	X	-.093	-.093	0	%100
56	M44A	Z	.161	.161	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-.657	-.657	0	%100
2	FACE	Z	.379	.379	0	%100
3	M2	X	-.657	-.657	0	%100
4	M2	Z	.379	.379	0	%100
5	M13	X	-.75	-.75	0	%100
6	M13	Z	.433	.433	0	%100
7	M14	X	-.75	-.75	0	%100
8	M14	Z	.433	.433	0	%100
9	M15	X	-.75	-.75	0	%100
10	M15	Z	.433	.433	0	%100
11	M16	X	-.75	-.75	0	%100
12	M16	Z	.433	.433	0	%100
13	M17	X	-.036	-.036	0	%100
14	M17	Z	.021	.021	0	%100
15	M18	X	-.036	-.036	0	%100
16	M18	Z	.021	.021	0	%100
17	M19	X	-1.582	-1.582	0	%100
18	M19	Z	.913	.913	0	%100
19	M20	X	-1.582	-1.582	0	%100
20	M20	Z	.913	.913	0	%100
21	M21	X	-.251	-.251	0	%100
22	M21	Z	.145	.145	0	%100
23	M22	X	-.251	-.251	0	%100
24	M22	Z	.145	.145	0	%100
25	M23	X	-.251	-.251	0	%100
26	M23	Z	.145	.145	0	%100
27	M24	X	-.251	-.251	0	%100
28	M24	Z	.145	.145	0	%100
29	M25	X	-.956	-.956	0	%100
30	M25	Z	.552	.552	0	%100
31	M26	X	-.956	-.956	0	%100
32	M26	Z	.552	.552	0	%100
33	M27	X	-1.404	-1.404	0	%100
34	M27	Z	.811	.811	0	%100
35	M28	X	-1.404	-1.404	0	%100
36	M28	Z	.811	.811	0	%100
37	MP4A	X	-2.375	-2.375	0	%100
38	MP4A	Z	1.371	1.371	0	%100
39	MP3A	X	-2.375	-2.375	0	%100
40	MP3A	Z	1.371	1.371	0	%100
41	MP2A	X	-2.375	-2.375	0	%100
42	MP2A	Z	1.371	1.371	0	%100
43	MP1A	X	-2.375	-2.375	0	%100
44	MP1A	Z	1.371	1.371	0	%100
45	M44	X	-1.321	-1.321	0	%100
46	M44	Z	.763	.763	0	%100
47	M45	X	-1.321	-1.321	0	%100
48	M45	Z	.763	.763	0	%100
49	M46	X	-1.321	-1.321	0	%100
50	M46	Z	.763	.763	0	%100
51	M47	X	-1.321	-1.321	0	%100
52	M47	Z	.763	.763	0	%100
53	M43	X	-2.214	-2.214	0	%100
54	M43	Z	1.278	1.278	0	%100
55	M44A	X	-1.191	-1.191	0	%100
56	M44A	Z	.687	.687	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-1.155	-1.155	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-1.155	-1.155	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-1.155	-1.155	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-1.155	-1.155	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-.807	-.807	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-.807	-.807	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-.807	-.807	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	-.807	-.807	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-1.326	-1.326	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-1.326	-1.326	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-1.326	-1.326	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-1.326	-1.326	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	-2.742	-2.742	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-2.742	-2.742	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	-2.742	-2.742	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	-2.742	-2.742	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	-1.526	-1.526	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	-1.526	-1.526	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	-1.526	-1.526	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	-1.526	-1.526	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	-2.56	-2.56	0	%100
54	M43	Z	0	0	0	%100
55	M44A	X	-2.56	-2.56	0	%100
56	M44A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-.657	-.657	0	%100
2	FACE	Z	-.379	-.379	0	%100
3	M2	X	-.657	-.657	0	%100
4	M2	Z	-.379	-.379	0	%100
5	M13	X	-.75	-.75	0	%100
6	M13	Z	-.433	-.433	0	%100
7	M14	X	-.75	-.75	0	%100
8	M14	Z	-.433	-.433	0	%100
9	M15	X	-.75	-.75	0	%100
10	M15	Z	-.433	-.433	0	%100
11	M16	X	-.75	-.75	0	%100
12	M16	Z	-.433	-.433	0	%100
13	M17	X	-1.582	-1.582	0	%100
14	M17	Z	-.913	-.913	0	%100
15	M18	X	-1.582	-1.582	0	%100
16	M18	Z	-.913	-.913	0	%100
17	M19	X	-.036	-.036	0	%100
18	M19	Z	-.021	-.021	0	%100
19	M20	X	-.036	-.036	0	%100
20	M20	Z	-.021	-.021	0	%100
21	M21	X	-.251	-.251	0	%100
22	M21	Z	-.145	-.145	0	%100
23	M22	X	-.251	-.251	0	%100
24	M22	Z	-.145	-.145	0	%100
25	M23	X	-.251	-.251	0	%100
26	M23	Z	-.145	-.145	0	%100
27	M24	X	-.251	-.251	0	%100
28	M24	Z	-.145	-.145	0	%100
29	M25	X	-1.404	-1.404	0	%100
30	M25	Z	-.811	-.811	0	%100
31	M26	X	-1.404	-1.404	0	%100
32	M26	Z	-.811	-.811	0	%100
33	M27	X	-.956	-.956	0	%100
34	M27	Z	-.552	-.552	0	%100
35	M28	X	-.956	-.956	0	%100
36	M28	Z	-.552	-.552	0	%100
37	MP4A	X	-2.375	-2.375	0	%100
38	MP4A	Z	-1.371	-1.371	0	%100
39	MP3A	X	-2.375	-2.375	0	%100
40	MP3A	Z	-1.371	-1.371	0	%100
41	MP2A	X	-2.375	-2.375	0	%100
42	MP2A	Z	-1.371	-1.371	0	%100
43	MP1A	X	-2.375	-2.375	0	%100
44	MP1A	Z	-1.371	-1.371	0	%100
45	M44	X	-1.321	-1.321	0	%100
46	M44	Z	-.763	-.763	0	%100
47	M45	X	-1.321	-1.321	0	%100
48	M45	Z	-.763	-.763	0	%100
49	M46	X	-1.321	-1.321	0	%100
50	M46	Z	-.763	-.763	0	%100
51	M47	X	-1.321	-1.321	0	%100
52	M47	Z	-.763	-.763	0	%100
53	M43	X	-1.191	-1.191	0	%100
54	M43	Z	-.687	-.687	0	%100
55	M44A	X	-2.214	-2.214	0	%100
56	M44A	Z	-1.278	-1.278	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-1.138	-1.138	0	%100
2	FACE	Z	-1.971	-1.971	0	%100
3	M2	X	-1.138	-1.138	0	%100
4	M2	Z	-1.971	-1.971	0	%100
5	M13	X	-.144	-.144	0	%100
6	M13	Z	-.25	-.25	0	%100
7	M14	X	-.144	-.144	0	%100
8	M14	Z	-.25	-.25	0	%100
9	M15	X	-.144	-.144	0	%100
10	M15	Z	-.25	-.25	0	%100
11	M16	X	-.144	-.144	0	%100
12	M16	Z	-.25	-.25	0	%100
13	M17	X	-1.041	-1.041	0	%100
14	M17	Z	-1.802	-1.802	0	%100
15	M18	X	-1.041	-1.041	0	%100
16	M18	Z	-1.802	-1.802	0	%100
17	M19	X	-.148	-.148	0	%100
18	M19	Z	-.257	-.257	0	%100
19	M20	X	-.148	-.148	0	%100
20	M20	Z	-.257	-.257	0	%100
21	M21	X	-.435	-.435	0	%100
22	M21	Z	-.754	-.754	0	%100
23	M22	X	-.435	-.435	0	%100
24	M22	Z	-.754	-.754	0	%100
25	M23	X	-.435	-.435	0	%100
26	M23	Z	-.754	-.754	0	%100
27	M24	X	-.435	-.435	0	%100
28	M24	Z	-.754	-.754	0	%100
29	M25	X	-.847	-.847	0	%100
30	M25	Z	-1.468	-1.468	0	%100
31	M26	X	-.847	-.847	0	%100
32	M26	Z	-1.468	-1.468	0	%100
33	M27	X	-.589	-.589	0	%100
34	M27	Z	-1.02	-1.02	0	%100
35	M28	X	-.589	-.589	0	%100
36	M28	Z	-1.02	-1.02	0	%100
37	MP4A	X	-1.371	-1.371	0	%100
38	MP4A	Z	-2.375	-2.375	0	%100
39	MP3A	X	-1.371	-1.371	0	%100
40	MP3A	Z	-2.375	-2.375	0	%100
41	MP2A	X	-1.371	-1.371	0	%100
42	MP2A	Z	-2.375	-2.375	0	%100
43	MP1A	X	-1.371	-1.371	0	%100
44	MP1A	Z	-2.375	-2.375	0	%100
45	M44	X	-.763	-.763	0	%100
46	M44	Z	-1.321	-1.321	0	%100
47	M45	X	-.763	-.763	0	%100
48	M45	Z	-1.321	-1.321	0	%100
49	M46	X	-.763	-.763	0	%100
50	M46	Z	-1.321	-1.321	0	%100
51	M47	X	-.763	-.763	0	%100
52	M47	Z	-1.321	-1.321	0	%100
53	M43	X	-.093	-.093	0	%100
54	M43	Z	-.161	-.161	0	%100
55	M44A	X	-.684	-.684	0	%100
56	M44A	Z	-1.184	-1.184	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	-.606	-.606	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.606	-.606	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-.239	-.239	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-.239	-.239	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-.239	-.239	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	-.239	-.239	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-.132	-.132	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-.132	-.132	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-.132	-.132	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-.132	-.132	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-.136	-.136	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-.136	-.136	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-.136	-.136	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-.136	-.136	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-.5	-.5	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-.5	-.5	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-.5	-.5	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-.5	-.5	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	-.132	-.132	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-.132	-.132	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	-.132	-.132	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-.132	-.132	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	-.033	-.033	0	%100
55	M44A	X	0	0	0	%100
56	M44A	Z	-.033	-.033	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	.227	.227	0	%100
2	FACE	Z	-.393	-.393	0	%100
3	M2	X	.227	.227	0	%100
4	M2	Z	-.393	-.393	0	%100
5	M13	X	.016	.016	0	%100
6	M13	Z	-.029	-.029	0	%100
7	M14	X	.016	.016	0	%100
8	M14	Z	-.029	-.029	0	%100
9	M15	X	.016	.016	0	%100
10	M15	Z	-.029	-.029	0	%100
11	M16	X	.016	.016	0	%100
12	M16	Z	-.029	-.029	0	%100
13	M17	X	.027	.027	0	%100
14	M17	Z	-.047	-.047	0	%100
15	M18	X	.027	.027	0	%100
16	M18	Z	-.047	-.047	0	%100
17	M19	X	.189	.189	0	%100
18	M19	Z	-.328	-.328	0	%100
19	M20	X	.189	.189	0	%100
20	M20	Z	-.328	-.328	0	%100
21	M21	X	.049	.049	0	%100
22	M21	Z	-.086	-.086	0	%100
23	M22	X	.049	.049	0	%100
24	M22	Z	-.086	-.086	0	%100
25	M23	X	.049	.049	0	%100
26	M23	Z	-.086	-.086	0	%100
27	M24	X	.049	.049	0	%100
28	M24	Z	-.086	-.086	0	%100
29	M25	X	.055	.055	0	%100
30	M25	Z	-.094	-.094	0	%100
31	M26	X	.055	.055	0	%100
32	M26	Z	-.094	-.094	0	%100
33	M27	X	.078	.078	0	%100
34	M27	Z	-.136	-.136	0	%100
35	M28	X	.078	.078	0	%100
36	M28	Z	-.136	-.136	0	%100
37	MP4A	X	.25	.25	0	%100
38	MP4A	Z	-.433	-.433	0	%100
39	MP3A	X	.25	.25	0	%100
40	MP3A	Z	-.433	-.433	0	%100
41	MP2A	X	.25	.25	0	%100
42	MP2A	Z	-.433	-.433	0	%100
43	MP1A	X	.25	.25	0	%100
44	MP1A	Z	-.433	-.433	0	%100
45	M44	X	.066	.066	0	%100
46	M44	Z	-.114	-.114	0	%100
47	M45	X	.066	.066	0	%100
48	M45	Z	-.114	-.114	0	%100
49	M46	X	.066	.066	0	%100
50	M46	Z	-.114	-.114	0	%100
51	M47	X	.066	.066	0	%100
52	M47	Z	-.114	-.114	0	%100
53	M43	X	.125	.125	0	%100
54	M43	Z	-.216	-.216	0	%100
55	M44A	X	.017	.017	0	%100
56	M44A	Z	-.029	-.029	0	%100

Member Distributed Loads (BLC 67 : Structure Wm (60 Deg))

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	.131	.131	0	%100
2	FACE	Z	-.076	-.076	0	%100
3	M2	X	.131	.131	0	%100
4	M2	Z	-.076	-.076	0	%100
5	M13	X	.086	.086	0	%100
6	M13	Z	-.049	-.049	0	%100
7	M14	X	.086	.086	0	%100
8	M14	Z	-.049	-.049	0	%100
9	M15	X	.086	.086	0	%100
10	M15	Z	-.049	-.049	0	%100
11	M16	X	.086	.086	0	%100
12	M16	Z	-.049	-.049	0	%100
13	M17	X	.007	.007	0	%100
14	M17	Z	-.004	-.004	0	%100
15	M18	X	.007	.007	0	%100
16	M18	Z	-.004	-.004	0	%100
17	M19	X	.287	.287	0	%100
18	M19	Z	-.166	-.166	0	%100
19	M20	X	.287	.287	0	%100
20	M20	Z	-.166	-.166	0	%100
21	M21	X	.029	.029	0	%100
22	M21	Z	-.016	-.016	0	%100
23	M22	X	.029	.029	0	%100
24	M22	Z	-.016	-.016	0	%100
25	M23	X	.029	.029	0	%100
26	M23	Z	-.016	-.016	0	%100
27	M24	X	.029	.029	0	%100
28	M24	Z	-.016	-.016	0	%100
29	M25	X	.089	.089	0	%100
30	M25	Z	-.051	-.051	0	%100
31	M26	X	.089	.089	0	%100
32	M26	Z	-.051	-.051	0	%100
33	M27	X	.13	.13	0	%100
34	M27	Z	-.075	-.075	0	%100
35	M28	X	.13	.13	0	%100
36	M28	Z	-.075	-.075	0	%100
37	MP4A	X	.433	.433	0	%100
38	MP4A	Z	-.25	-.25	0	%100
39	MP3A	X	.433	.433	0	%100
40	MP3A	Z	-.25	-.25	0	%100
41	MP2A	X	.433	.433	0	%100
42	MP2A	Z	-.25	-.25	0	%100
43	MP1A	X	.433	.433	0	%100
44	MP1A	Z	-.25	-.25	0	%100
45	M44	X	.114	.114	0	%100
46	M44	Z	-.066	-.066	0	%100
47	M45	X	.114	.114	0	%100
48	M45	Z	-.066	-.066	0	%100
49	M46	X	.114	.114	0	%100
50	M46	Z	-.066	-.066	0	%100
51	M47	X	.114	.114	0	%100
52	M47	Z	-.066	-.066	0	%100
53	M43	X	.404	.404	0	%100
54	M43	Z	-.233	-.233	0	%100
55	M44A	X	.217	.217	0	%100
56	M44A	Z	-.125	-.125	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	.132	.132	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	.132	.132	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	.132	.132	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	.132	.132	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	.147	.147	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	.147	.147	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	.147	.147	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	.147	.147	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	.123	.123	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	.123	.123	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	.123	.123	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	.123	.123	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	.5	.5	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	.5	.5	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	.5	.5	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	.5	.5	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	.132	.132	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	.132	.132	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	.132	.132	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	.132	.132	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	.467	.467	0	%100
54	M43	Z	0	0	0	%100
55	M44A	X	.467	.467	0	%100
56	M44A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	.131	.131	0	%100
2	FACE	Z	.076	.076	0	%100
3	M2	X	.131	.131	0	%100
4	M2	Z	.076	.076	0	%100
5	M13	X	.086	.086	0	%100
6	M13	Z	.049	.049	0	%100
7	M14	X	.086	.086	0	%100
8	M14	Z	.049	.049	0	%100
9	M15	X	.086	.086	0	%100
10	M15	Z	.049	.049	0	%100
11	M16	X	.086	.086	0	%100
12	M16	Z	.049	.049	0	%100
13	M17	X	.287	.287	0	%100
14	M17	Z	.166	.166	0	%100
15	M18	X	.287	.287	0	%100
16	M18	Z	.166	.166	0	%100
17	M19	X	.007	.007	0	%100
18	M19	Z	.004	.004	0	%100
19	M20	X	.007	.007	0	%100
20	M20	Z	.004	.004	0	%100
21	M21	X	.029	.029	0	%100
22	M21	Z	.016	.016	0	%100
23	M22	X	.029	.029	0	%100
24	M22	Z	.016	.016	0	%100
25	M23	X	.029	.029	0	%100
26	M23	Z	.016	.016	0	%100
27	M24	X	.029	.029	0	%100
28	M24	Z	.016	.016	0	%100
29	M25	X	.13	.13	0	%100
30	M25	Z	.075	.075	0	%100
31	M26	X	.13	.13	0	%100
32	M26	Z	.075	.075	0	%100
33	M27	X	.089	.089	0	%100
34	M27	Z	.051	.051	0	%100
35	M28	X	.089	.089	0	%100
36	M28	Z	.051	.051	0	%100
37	MP4A	X	.433	.433	0	%100
38	MP4A	Z	.25	.25	0	%100
39	MP3A	X	.433	.433	0	%100
40	MP3A	Z	.25	.25	0	%100
41	MP2A	X	.433	.433	0	%100
42	MP2A	Z	.25	.25	0	%100
43	MP1A	X	.433	.433	0	%100
44	MP1A	Z	.25	.25	0	%100
45	M44	X	.114	.114	0	%100
46	M44	Z	.066	.066	0	%100
47	M45	X	.114	.114	0	%100
48	M45	Z	.066	.066	0	%100
49	M46	X	.114	.114	0	%100
50	M46	Z	.066	.066	0	%100
51	M47	X	.114	.114	0	%100
52	M47	Z	.066	.066	0	%100
53	M43	X	.217	.217	0	%100
54	M43	Z	.125	.125	0	%100
55	M44A	X	.404	.404	0	%100
56	M44A	Z	.233	.233	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	.227	.227	0	%100
2	FACE	Z	.393	.393	0	%100
3	M2	X	.227	.227	0	%100
4	M2	Z	.393	.393	0	%100
5	M13	X	.016	.016	0	%100
6	M13	Z	.029	.029	0	%100
7	M14	X	.016	.016	0	%100
8	M14	Z	.029	.029	0	%100
9	M15	X	.016	.016	0	%100
10	M15	Z	.029	.029	0	%100
11	M16	X	.016	.016	0	%100
12	M16	Z	.029	.029	0	%100
13	M17	X	.189	.189	0	%100
14	M17	Z	.328	.328	0	%100
15	M18	X	.189	.189	0	%100
16	M18	Z	.328	.328	0	%100
17	M19	X	.027	.027	0	%100
18	M19	Z	.047	.047	0	%100
19	M20	X	.027	.027	0	%100
20	M20	Z	.047	.047	0	%100
21	M21	X	.049	.049	0	%100
22	M21	Z	.086	.086	0	%100
23	M22	X	.049	.049	0	%100
24	M22	Z	.086	.086	0	%100
25	M23	X	.049	.049	0	%100
26	M23	Z	.086	.086	0	%100
27	M24	X	.049	.049	0	%100
28	M24	Z	.086	.086	0	%100
29	M25	X	.078	.078	0	%100
30	M25	Z	.136	.136	0	%100
31	M26	X	.078	.078	0	%100
32	M26	Z	.136	.136	0	%100
33	M27	X	.055	.055	0	%100
34	M27	Z	.094	.094	0	%100
35	M28	X	.055	.055	0	%100
36	M28	Z	.094	.094	0	%100
37	MP4A	X	.25	.25	0	%100
38	MP4A	Z	.433	.433	0	%100
39	MP3A	X	.25	.25	0	%100
40	MP3A	Z	.433	.433	0	%100
41	MP2A	X	.25	.25	0	%100
42	MP2A	Z	.433	.433	0	%100
43	MP1A	X	.25	.25	0	%100
44	MP1A	Z	.433	.433	0	%100
45	M44	X	.066	.066	0	%100
46	M44	Z	.114	.114	0	%100
47	M45	X	.066	.066	0	%100
48	M45	Z	.114	.114	0	%100
49	M46	X	.066	.066	0	%100
50	M46	Z	.114	.114	0	%100
51	M47	X	.066	.066	0	%100
52	M47	Z	.114	.114	0	%100
53	M43	X	.017	.017	0	%100
54	M43	Z	.029	.029	0	%100
55	M44A	X	.125	.125	0	%100
56	M44A	Z	.216	.216	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	.606	.606	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.606	.606	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	.239	.239	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	.239	.239	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	.239	.239	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	.239	.239	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	.132	.132	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	.132	.132	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	.132	.132	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	.132	.132	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	.136	.136	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	.136	.136	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	.136	.136	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	.136	.136	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	.5	.5	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	.5	.5	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	.5	.5	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	.5	.5	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	.132	.132	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	.132	.132	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	.132	.132	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	.132	.132	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	.033	.033	0	%100
55	M44A	X	0	0	0	%100
56	M44A	Z	.033	.033	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-.227	-.227	0	%100
2	FACE	Z	.393	.393	0	%100
3	M2	X	-.227	-.227	0	%100
4	M2	Z	.393	.393	0	%100
5	M13	X	-.016	-.016	0	%100
6	M13	Z	.029	.029	0	%100
7	M14	X	-.016	-.016	0	%100
8	M14	Z	.029	.029	0	%100
9	M15	X	-.016	-.016	0	%100
10	M15	Z	.029	.029	0	%100
11	M16	X	-.016	-.016	0	%100
12	M16	Z	.029	.029	0	%100
13	M17	X	-.027	-.027	0	%100
14	M17	Z	.047	.047	0	%100
15	M18	X	-.027	-.027	0	%100
16	M18	Z	.047	.047	0	%100
17	M19	X	-.189	-.189	0	%100
18	M19	Z	.328	.328	0	%100
19	M20	X	-.189	-.189	0	%100
20	M20	Z	.328	.328	0	%100
21	M21	X	-.049	-.049	0	%100
22	M21	Z	.086	.086	0	%100
23	M22	X	-.049	-.049	0	%100
24	M22	Z	.086	.086	0	%100
25	M23	X	-.049	-.049	0	%100
26	M23	Z	.086	.086	0	%100
27	M24	X	-.049	-.049	0	%100
28	M24	Z	.086	.086	0	%100
29	M25	X	-.055	-.055	0	%100
30	M25	Z	.094	.094	0	%100
31	M26	X	-.055	-.055	0	%100
32	M26	Z	.094	.094	0	%100
33	M27	X	-.078	-.078	0	%100
34	M27	Z	.136	.136	0	%100
35	M28	X	-.078	-.078	0	%100
36	M28	Z	.136	.136	0	%100
37	MP4A	X	-.25	-.25	0	%100
38	MP4A	Z	.433	.433	0	%100
39	MP3A	X	-.25	-.25	0	%100
40	MP3A	Z	.433	.433	0	%100
41	MP2A	X	-.25	-.25	0	%100
42	MP2A	Z	.433	.433	0	%100
43	MP1A	X	-.25	-.25	0	%100
44	MP1A	Z	.433	.433	0	%100
45	M44	X	-.066	-.066	0	%100
46	M44	Z	.114	.114	0	%100
47	M45	X	-.066	-.066	0	%100
48	M45	Z	.114	.114	0	%100
49	M46	X	-.066	-.066	0	%100
50	M46	Z	.114	.114	0	%100
51	M47	X	-.066	-.066	0	%100
52	M47	Z	.114	.114	0	%100
53	M43	X	-.125	-.125	0	%100
54	M43	Z	.216	.216	0	%100
55	M44A	X	-.017	-.017	0	%100
56	M44A	Z	.029	.029	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-.131	-.131	0	%100
2	FACE	Z	.076	.076	0	%100
3	M2	X	-.131	-.131	0	%100
4	M2	Z	.076	.076	0	%100
5	M13	X	-.086	-.086	0	%100
6	M13	Z	.049	.049	0	%100
7	M14	X	-.086	-.086	0	%100
8	M14	Z	.049	.049	0	%100
9	M15	X	-.086	-.086	0	%100
10	M15	Z	.049	.049	0	%100
11	M16	X	-.086	-.086	0	%100
12	M16	Z	.049	.049	0	%100
13	M17	X	-.007	-.007	0	%100
14	M17	Z	.004	.004	0	%100
15	M18	X	-.007	-.007	0	%100
16	M18	Z	.004	.004	0	%100
17	M19	X	-.287	-.287	0	%100
18	M19	Z	.166	.166	0	%100
19	M20	X	-.287	-.287	0	%100
20	M20	Z	.166	.166	0	%100
21	M21	X	-.029	-.029	0	%100
22	M21	Z	.016	.016	0	%100
23	M22	X	-.029	-.029	0	%100
24	M22	Z	.016	.016	0	%100
25	M23	X	-.029	-.029	0	%100
26	M23	Z	.016	.016	0	%100
27	M24	X	-.029	-.029	0	%100
28	M24	Z	.016	.016	0	%100
29	M25	X	-.089	-.089	0	%100
30	M25	Z	.051	.051	0	%100
31	M26	X	-.089	-.089	0	%100
32	M26	Z	.051	.051	0	%100
33	M27	X	-.13	-.13	0	%100
34	M27	Z	.075	.075	0	%100
35	M28	X	-.13	-.13	0	%100
36	M28	Z	.075	.075	0	%100
37	MP4A	X	-.433	-.433	0	%100
38	MP4A	Z	.25	.25	0	%100
39	MP3A	X	-.433	-.433	0	%100
40	MP3A	Z	.25	.25	0	%100
41	MP2A	X	-.433	-.433	0	%100
42	MP2A	Z	.25	.25	0	%100
43	MP1A	X	-.433	-.433	0	%100
44	MP1A	Z	.25	.25	0	%100
45	M44	X	-.114	-.114	0	%100
46	M44	Z	.066	.066	0	%100
47	M45	X	-.114	-.114	0	%100
48	M45	Z	.066	.066	0	%100
49	M46	X	-.114	-.114	0	%100
50	M46	Z	.066	.066	0	%100
51	M47	X	-.114	-.114	0	%100
52	M47	Z	.066	.066	0	%100
53	M43	X	-.404	-.404	0	%100
54	M43	Z	.233	.233	0	%100
55	M44A	X	-.217	-.217	0	%100
56	M44A	Z	.125	.125	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-.132	-.132	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-.132	-.132	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-.132	-.132	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-.132	-.132	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-.147	-.147	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-.147	-.147	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-.147	-.147	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	-.147	-.147	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-.123	-.123	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-.123	-.123	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-.123	-.123	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-.123	-.123	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	-.5	-.5	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-.5	-.5	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	-.5	-.5	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	-.5	-.5	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	-.132	-.132	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	-.132	-.132	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	-.132	-.132	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	-.132	-.132	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	-.467	-.467	0	%100
54	M43	Z	0	0	0	%100
55	M44A	X	-.467	-.467	0	%100
56	M44A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-.131	-.131	0	%100
2	FACE	Z	-.076	-.076	0	%100
3	M2	X	-.131	-.131	0	%100
4	M2	Z	-.076	-.076	0	%100
5	M13	X	-.086	-.086	0	%100
6	M13	Z	-.049	-.049	0	%100
7	M14	X	-.086	-.086	0	%100
8	M14	Z	-.049	-.049	0	%100
9	M15	X	-.086	-.086	0	%100
10	M15	Z	-.049	-.049	0	%100
11	M16	X	-.086	-.086	0	%100
12	M16	Z	-.049	-.049	0	%100
13	M17	X	-.287	-.287	0	%100
14	M17	Z	-.166	-.166	0	%100
15	M18	X	-.287	-.287	0	%100
16	M18	Z	-.166	-.166	0	%100
17	M19	X	-.007	-.007	0	%100
18	M19	Z	-.004	-.004	0	%100
19	M20	X	-.007	-.007	0	%100
20	M20	Z	-.004	-.004	0	%100
21	M21	X	-.029	-.029	0	%100
22	M21	Z	-.016	-.016	0	%100
23	M22	X	-.029	-.029	0	%100
24	M22	Z	-.016	-.016	0	%100
25	M23	X	-.029	-.029	0	%100
26	M23	Z	-.016	-.016	0	%100
27	M24	X	-.029	-.029	0	%100
28	M24	Z	-.016	-.016	0	%100
29	M25	X	-.13	-.13	0	%100
30	M25	Z	-.075	-.075	0	%100
31	M26	X	-.13	-.13	0	%100
32	M26	Z	-.075	-.075	0	%100
33	M27	X	-.089	-.089	0	%100
34	M27	Z	-.051	-.051	0	%100
35	M28	X	-.089	-.089	0	%100
36	M28	Z	-.051	-.051	0	%100
37	MP4A	X	-.433	-.433	0	%100
38	MP4A	Z	-.25	-.25	0	%100
39	MP3A	X	-.433	-.433	0	%100
40	MP3A	Z	-.25	-.25	0	%100
41	MP2A	X	-.433	-.433	0	%100
42	MP2A	Z	-.25	-.25	0	%100
43	MP1A	X	-.433	-.433	0	%100
44	MP1A	Z	-.25	-.25	0	%100
45	M44	X	-.114	-.114	0	%100
46	M44	Z	-.066	-.066	0	%100
47	M45	X	-.114	-.114	0	%100
48	M45	Z	-.066	-.066	0	%100
49	M46	X	-.114	-.114	0	%100
50	M46	Z	-.066	-.066	0	%100
51	M47	X	-.114	-.114	0	%100
52	M47	Z	-.066	-.066	0	%100
53	M43	X	-.217	-.217	0	%100
54	M43	Z	-.125	-.125	0	%100
55	M44A	X	-.404	-.404	0	%100
56	M44A	Z	-.233	-.233	0	%100

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

	Member Label	Direction	Start Magnitude[l...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-.227	-.227	0	%100
2	FACE	Z	-.393	-.393	0	%100
3	M2	X	-.227	-.227	0	%100
4	M2	Z	-.393	-.393	0	%100
5	M13	X	-.016	-.016	0	%100
6	M13	Z	-.029	-.029	0	%100
7	M14	X	-.016	-.016	0	%100
8	M14	Z	-.029	-.029	0	%100
9	M15	X	-.016	-.016	0	%100
10	M15	Z	-.029	-.029	0	%100
11	M16	X	-.016	-.016	0	%100
12	M16	Z	-.029	-.029	0	%100
13	M17	X	-.189	-.189	0	%100
14	M17	Z	-.328	-.328	0	%100
15	M18	X	-.189	-.189	0	%100
16	M18	Z	-.328	-.328	0	%100
17	M19	X	-.027	-.027	0	%100
18	M19	Z	-.047	-.047	0	%100
19	M20	X	-.027	-.027	0	%100
20	M20	Z	-.047	-.047	0	%100
21	M21	X	-.049	-.049	0	%100
22	M21	Z	-.086	-.086	0	%100
23	M22	X	-.049	-.049	0	%100
24	M22	Z	-.086	-.086	0	%100
25	M23	X	-.049	-.049	0	%100
26	M23	Z	-.086	-.086	0	%100
27	M24	X	-.049	-.049	0	%100
28	M24	Z	-.086	-.086	0	%100
29	M25	X	-.078	-.078	0	%100
30	M25	Z	-.136	-.136	0	%100
31	M26	X	-.078	-.078	0	%100
32	M26	Z	-.136	-.136	0	%100
33	M27	X	-.055	-.055	0	%100
34	M27	Z	-.094	-.094	0	%100
35	M28	X	-.055	-.055	0	%100
36	M28	Z	-.094	-.094	0	%100
37	MP4A	X	-.25	-.25	0	%100
38	MP4A	Z	-.433	-.433	0	%100
39	MP3A	X	-.25	-.25	0	%100
40	MP3A	Z	-.433	-.433	0	%100
41	MP2A	X	-.25	-.25	0	%100
42	MP2A	Z	-.433	-.433	0	%100
43	MP1A	X	-.25	-.25	0	%100
44	MP1A	Z	-.433	-.433	0	%100
45	M44	X	-.066	-.066	0	%100
46	M44	Z	-.114	-.114	0	%100
47	M45	X	-.066	-.066	0	%100
48	M45	Z	-.114	-.114	0	%100
49	M46	X	-.066	-.066	0	%100
50	M46	Z	-.114	-.114	0	%100
51	M47	X	-.066	-.066	0	%100
52	M47	Z	-.114	-.114	0	%100
53	M43	X	-.017	-.017	0	%100
54	M43	Z	-.029	-.029	0	%100
55	M44A	X	-.125	-.125	0	%100
56	M44A	Z	-.216	-.216	0	%100

Member Area Loads

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

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N35	max	1427.222	46	1186.15	13	1744.88	13	-.232	70	0	75	.305	45
2		min	-434.864	49	344.254	70	-438.371	7	-.829	13	0	1	-.088	49
3	N36	max	440.071	10	1182.809	19	503.978	7	-.234	64	0	75	.299	45
4		min	-1428.879	40	346.239	64	-1457.417	1	-.809	19	0	1	-.085	49
5	N63	max	279.195	12	80.575	18	1043.625	12	0	75	0	75	0	75
6		min	-307.537	6	30.725	74	-1149.655	6	0	1	0	1	0	1
7	N64	max	407.522	8	80.665	20	1418.566	2	0	75	0	75	0	75
8		min	-379.094	2	30.724	65	-1524.708	8	0	1	0	1	0	1
9	Totals:	max	1708.998	10	2504.975	21	2124.503	1						
10		min	-1708.997	4	755.524	66	-2124.507	7						

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear Ch...	Loc[ft]	Dir	LC	phi*Pnc ...	phi*Pnt [...	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	M24	PL5/8X3.5	.476	.531	47	.084	.437	y	1	67591.76	68906.25	.897	5.024	1...	H1-1b
2	M22	PL5/8X3.5	.454	.531	48	.059	.443	y	39	67591.76	68906.25	.897	5.024	1...	H1-1b
3	MP1A	PIPE_2.0	.404	2.333	41	.059	2.333		4	14916.0...	32130	1.872	1.872	4...	H1-1b
4	M44A	PIPE_2.0X	.312	7.523	2	.006	15.046		22	5731.424	44100	2.531	2.531	1...	H1-1a
5	M15	PL5/8X3.5	.271	0	45	.148	0	y	1	66184.77	68906.25	.897	5.024	1...	H1-1b
6	FACE	PIPE_2.5	.268	8.724	47	.081	8.854		44	14558.7...	50715	3.596	3.596	2...	H1-1b
7	M2	PIPE_2.5	.263	9.245	8	.119	9.245		8	14558.7...	50715	3.596	3.596	2...	H1-1b
8	M23	PL5/8X3.5	.242	.531	14	.065	.531	y	1	67591.76	68906.25	.897	5.024	1...	H1-1b
9	M16	PL5/8X3.5	.228	0	45	.190	.422	y	2	66184.77	68906.25	.897	5.024	1...	H1-1b
10	MP4A	PIPE_2.0	.227	5.667	49	.058	2.333		10	14916.0...	32130	1.872	1.872	4...	H1-1b
11	M21	PL5/8X3.5	.227	.531	49	.052	0	y	12	67591.76	68906.25	.897	5.024	1...	H1-1b
12	MP3A	PIPE_2.0	.219	2.333	9	.090	2.333		11	14916.0...	32130	1.872	1.872	4...	H1-1b
13	MP2A	PIPE_2.0	.206	2.333	3	.105	5.667		8	14916.0...	32130	1.872	1.872	4...	H1-1b
14	M20	PIPE_2.0	.199	0	2	.079	0		21	31128.25	32130	1.872	1.872	2...	H1-1b
15	M43	PIPE_2.0X	.188	15.046	12	.006	15.046		22	5731.425	44100	2.531	2.531	1...	H1-1b*
16	M17	PIPE_2.0	.170	0	12	.054	0		17	31128.25	32130	1.872	1.872	2...	H1-1b
17	M19	PIPE_2.0	.144	0	1	.087	0		48	31128.25	32130	1.872	1.872	1...	H1-1b
18	M13	PL5/8X3.5	.138	.422	12	.166	.374	y	6	66184.77	68906.25	.897	5.024	1...	H1-1b
19	M14	PL5/8X3.5	.130	0	49	.115	.422	y	2	66184.77	68906.25	.897	5.024	1...	H1-1b
20	M18	PIPE_2.0	.112	0	2	.055	0		14	31128.25	32130	1.872	1.872	1...	H1-1b
21	M28	SR_0.75	.087	4.167	45	.020	0		47	2863.854	13916.2...	.174	.174	1...	H1-1b*
22	M47	SR_0.625	.063	0	2	.012	0		11	2158.31	9664.079	.101	.101	1...	H1-1b*
23	M26	SR_0.75	.045	0	49	.017	4.167		3	2863.854	13916.2...	.174	.174	1...	H1-1b*
24	M44	SR_0.625	.040	1.667	11	.014	0		8	2158.31	9664.079	.101	.101	1...	H1-1b
25	M46	SR_0.625	.035	1.667	6	.024	0		9	2158.31	9664.079	.101	.101	1...	H1-1b
26	M45	SR_0.625	.033	1.667	10	.023	0		10	2158.31	9664.079	.101	.101	1...	H1-1b
27	M25	SR_0.75	.003	4.167	45	.011	0		4	2863.854	13916.2...	.174	.174	1...	H1-1b*
28	M27	SR_0.75	.000	0	75	.017	0		45	2863.854	13916.2...	.174	.174	1...	H1-1a

VzW SMART Tool© Vendor

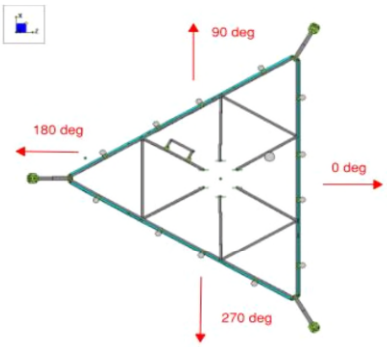
Client:	Verizon Wireless	Date:	4/12/2022
Site Name:	CHARLESTON		
PSLC #:	141185		
Fuze ID #:	16475894	Page:	1

Version 1.0

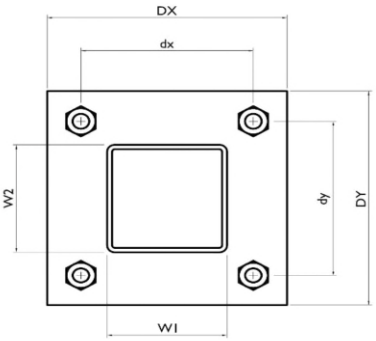
I. Mount-to-Tower Connection Check

Custom Orientation Required	Yes

Nodes (labeled per Risa)	Orientation (per graphic of typical platform)
N36	0
N35	0



Tower Connection Bolt Checks	Yes
Bolt Orientation	Parallel
Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)* :	9.5
d_y (in) *(Delta Y of typ. bolt config. sketch)* :	3.5
Bolt Type:	A307
Bolt Diameter (in):	0.625
Required Tensile Strength / bolt (kips):	1.7
Required Shear Strength / bolt (kips):	0.3
Tensile Capacity / bolt (kips):	10.4
Shear Capacity / bolt (kips):	6.2
Bolt Overall Utilization:	**16.0%**



Tower Connection Baseplate Checks	No

Maser Consulting Connecticut

Subject	TIA-222-H Adoption and Wind Speed Usage
Site Information	Site ID: 469060-VZW / Woodbridge North CT Site Name: Woodbridge North CT Carrier Name: Verizon Wireless Address: 6 Progress Ave Seymour, Connecticut 06483 New Haven County Latitude: 41.391528° Longitude: -73.053333°
Structure Information	Tower Type: 250-Ft Self Support Mount Type: 12.50-Ft Sector Frame

To Whom It May Concern,

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

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

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

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

Sincerely,

Dejian Xu

Dejian Xu, PE
Technical Specialist

MASER CONSULTING
— CONNECTICUT —

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

March 29, 2021

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

Re: Verizon Wireless antenna Model Clarification for CT Siting Council

Dear Mr. Leone,

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

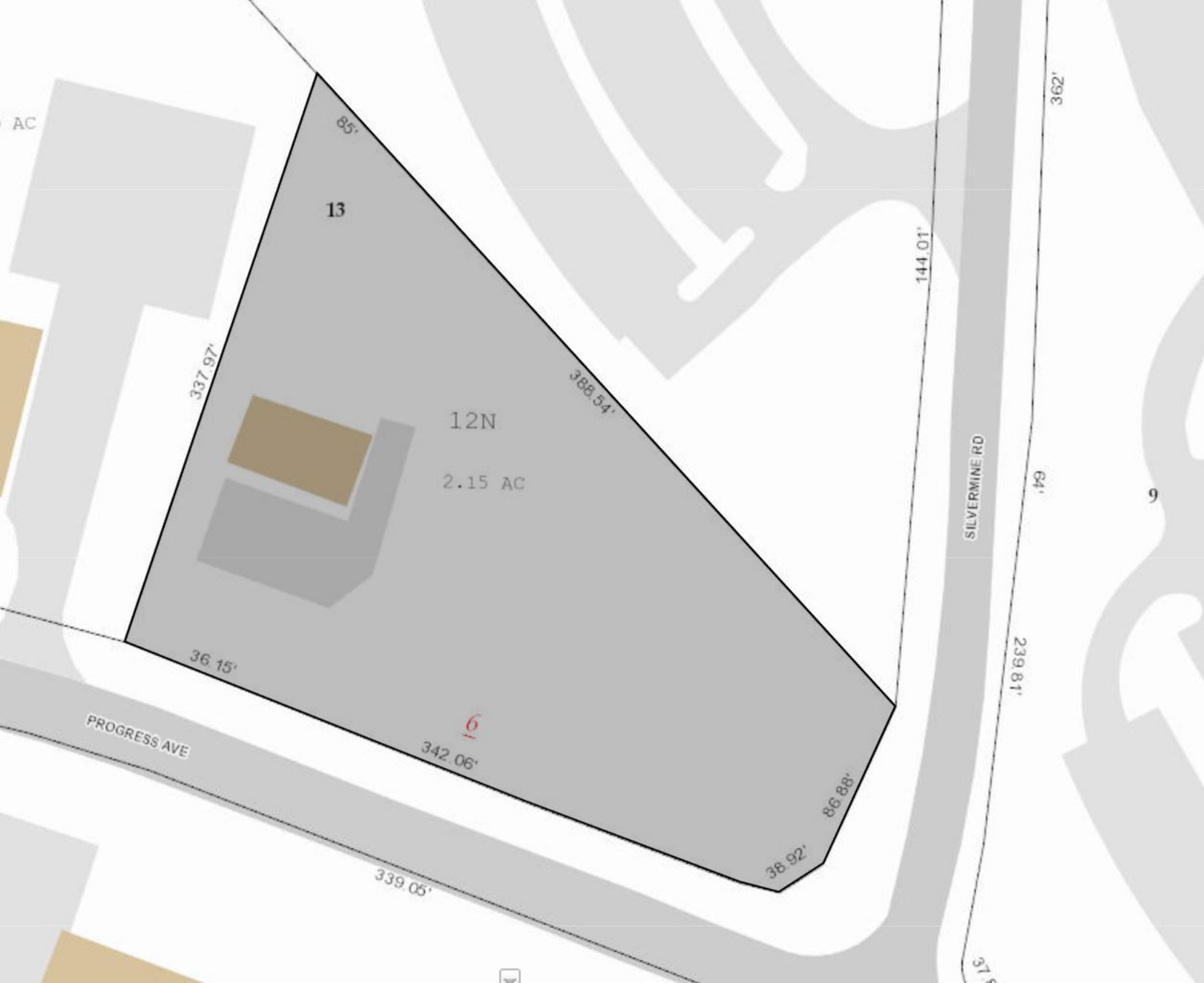
The antenna naming convention "Licensed Sub-6, L-Sub6, nL-Sub6, VZS01" and any other slight variants refer to the 64T64RMMU antenna manufactured by Samsung Electronics. These names are interchangeable and are used in various documents, including but not limited to the "Antenna Mount Analysis".

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

Very truly yours,
MASER CONSULTING CONNECTICUT

Petros Toukalas
Connecticut Professional Engineer
License Number: 32577

ATTACHMENT 5


AC
85'
13
337.97'
388.54'
12N
2.15 AC
144.01'
SILVERMINE RD
362'
64'
239.81'
9
36.15'
PROGRESS AVE
6
342.06'
86.88'
38.92'
339.05'

Town of Seymour, CT

Property Listing Report

Map Block Lot	1-05-12N-0	Building #	1	PID	43	Account	015124

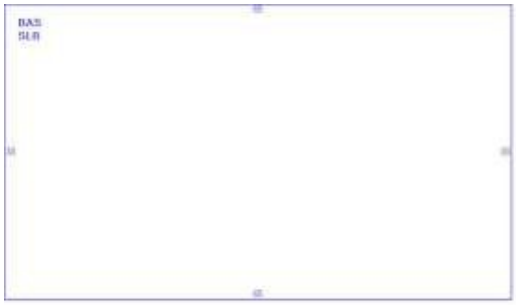
Property Information

Property Location	6 PROGRESS AVE
Owner	EDMAC LLC
Co-Owner	
Mailing Address	2702 FOREST VIEW LANE KISSIMMEE FL 34744
Land Use	4330 RAD/TV TR
Land Class	I
Zoning Code	GI-2
Census Tract	

Neighborhood	D
Acreage	2.15
Utilities	
Lot Setting/Desc	Level
Book / Page	285/679
Additional Info	

Photo

Sketch



Primary Construction Details

Year Built	2001
Building Desc.	RAD/TV TR
Building Style	Com Garage
Building Grade	Average
Stories	1
Occupancy	1.00
Exterior Walls	Concr/Cinder
Exterior Walls 2	NA
Roof Style	Flat
Roof Cover	Rolled Compos
Interior Walls	Minim/Masonry
Interior Walls 2	NA
Interior Floors 1	Precast Concr
Interior Floors 2	NA

Heating Fuel	Gas
Heating Type	Hot Air-no Duc
AC Type	Central
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	
Bath Style	NA
Kitchen Style	NA
Rec Rm Area	NA
Rec Rm Quality	NA
Bsmt Gar	NA
Fireplaces	NA

(*Industrial / Commercial Details)

Building Use	Comm/Ind
Building Condition	A
Sprinkler %	NA
Heat / AC	Heat /AC Split
Frame Type	Masonry
Baths / Plumbing	None
Ceiling / Wall	None
Rooms / Prtns	Light
Wall Height	16.00
First Floor Use	4330
Foundation	NA

Report Created On 4/19/2021

Town of Seymour, CT

Property Listing Report

Map Block Lot	1-05-12N-0	Building #	1	PID	43	Account	015124

Valuation Summary

(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	61100	42770
Extras	0	0
Improvements		
Outbuildings	7000	4900
Land	163200	114240
Total	231300	161910

Outbuilding and Extra Features

Type	Description
Paving Asph.	7000 S.F.
Fence 8 Ft	215 L.F.

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
First Floor	2470	2470
Slab	2470	0
Total Area	4940	2470

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
EDMAC LLC	285/679	2001-09-25	0
MACCONNIE EDWARD H	269/272	2000-06-28	0
EMAC COMMUNICATIONS CO INC	266/50	2000-02-11	110000
HUBBELL REALTY DEVELOPMENT	150/777		0

Report Created On 4/19/2021

ATTACHMENT 6

UNITED STATES POSTAL SERVICE®

WOODBRIDGE NORTH

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	neopost 05/25/2022 US POSTAGE $002.99⁰ ZIP 06103 041L12203937
	Postmaster, per *(name of receiving employee)* NO		

USPS® Tracking Number / Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Annmarie Drugonis, First Selectwoman Town of Seymour 1 First Street Seymour, CT 06483				
2.	Keith Rosenfeld, Town Planner Town of Seymour 1 First Street Seymour, CT 06483				
3.	EMAC LLC Attn: Edward MacConnie 2702 Forest View Lane Kissimmee, FL 34744				
4.					
5.					
6.					

OLD STATE HOUSE STATION 06103 MAY 25 2022 USPS