Robinson+Cole

KENNETH C. BALDWIN

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

January 10, 2022

Via Electronic Mail

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

Re: **Notice of Exempt Modification – Facility Modification**
150 Lost Acres Road, North Granby, Connecticut

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains an existing wireless telecommunications facility at the above-referenced property address (the "Property"). The facility consists of antennas and remote radio heads attached to a tower and related equipment on the ground, near the base of the tower. The tower was approved by the Town of Granby on February 4, 2008. Cellco's shared use of the tower was approved by the Council on March 17, 2008. A copy of the original tower approval and Cellco's shared use approval are included in Attachment 1.

Cellco now intends to modify its facility by removing six (6) existing antennas and installing three (3) new Samsung MT6407-77A antennas; and six (6) NHH-65B-R2B antennas. Cellco will also remove three (3) existing remote radio heads ("RRHs") and install six (6) new RRHs all on Cellco's existing antenna mounting structure. A set of project plans showing Cellco's proposed facility modifications and specifications for Cellco's new antennas and RRHs are included in Attachment 2.

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

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

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

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

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

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

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

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

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

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

Sincerely,

Kenneth C. Baldwin

Enclosures
Copy to:
Erica Robertson, Granby Town Manager
Abigail Kenyon, Community Development Director
John and Deborah Lindsey, Property Owner
Karla Hanna

ATTACHMENT 1

SITE NAME: NORTH GRANBY SITE ID: CT10017-A

Transaction: Mariner Tower

ZONING/PERMITTING COMPLETION FORM

Address: 150 Lost Acres Road, North Granby,CT

Jurisdiction: Town of Granby (time tower constructed) Zoning District:
Connecticut Siting Council (currently)

Zoning Approval Type: Planning & Zoning Commission approval Case #:

Approval Date: 5/12/98 (original) Approved Height: 150 Tower Build Date: 2002
11/12/02 (rebuild)

If tower is destroyed or drop/swap required, tower can likely be rebuilt? ☐ YES ☐ NO

Conditions of Approval:	Yes	No	N/A
Removal Bond	☐	☒	☐
Site Plan Submittal	☐	☒	☐
Fall Zone	☐	☒	☐
Periodic Inspections	☐	☒	☐
Periodic Reporting	☐	☒	☐
Approval Renewal	☐	☒	☐
Additional Conditions	☐	☒	☐

Cell towers currently fall under complete jurisdiction of Connecticut Siting Council (CSD). Tower build pre-dates CSC & obtained Town of Granby zoning approvals. No CSC Review on this tower & no Cert. of Environmental Compatibility & Public Need issued. Any modifications/collocations must go through CSC Review.

JURISDICTION POC/DEPT.

Planning/Zoning: Fran Armentano (Town of Granby)

Phone: 860-844-5319 Fax:

Bldg./Code Enforcement: Henry Miga

Phone: 860-844-5318 Fax: 860-844-5325

Submitted by: Patches Estes Date: 2/4/08
Zoning Compliance

TO BE COMPLETED BY CORPORATE

	Yes	No	N/A	
Zoning Approval Attached (required)	☒	☐	☐	
Ordinance Attached (required)	☐	☒	☐	
Building Permit Attached (required) 19338	☒	☐	☐	Date Recd 7/20/98
Certificate of Occupancy or Compliance (CO) attached (required)	☒	☐	☐	4/17/07

Zoning Manager Approval: FINAL Diane E. Borchardt, AICP Date 2/4/2008

March 17, 2008

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

RE: **TS-VER-056-080201** – Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 150 Lost Acres, Granby, Connecticut.

Dear Attorney Baldwin:

At a public meeting held February 28, 2008, 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 February 1, 2008, 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
Chairman

DFC/MP

c: Honorable John E. Adams, First Selectman, Town of Granby
William F. Smith, Jr., Town Manager, Town of Granby
Paula H. Johnson, Planning and Zoning Chairman, Town of Granby
SBA Towers II, LLC

ATTACHMENT 2

PROJECT NOTES

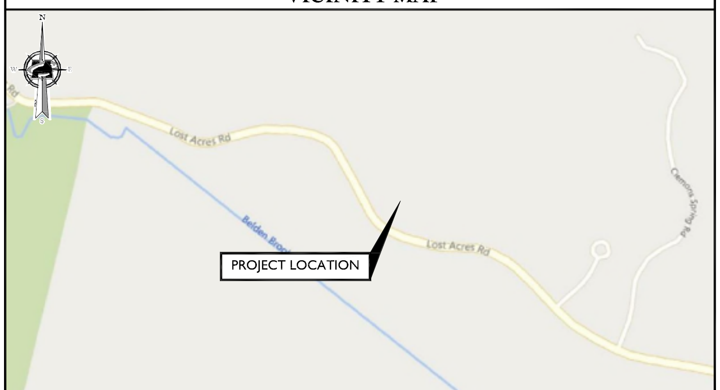
1. SITE INFORMATION OBTAINED FROM THE FOLLOWING:
   A. "NEW/REPLACEMENT ANTENNA MOUNT ANALYSIS REPORT AND PMI REQUIREMENTS" PREPARED MASER CONSULTING CONNECTICUT, P.C. OF MOUNT LAUREL, NJ DATED 10/25/21
   B. LIMITED FIELD OBSERVATION BY MASER CONSULTING CONNECTICUT, P.C. ON 09/14/21.
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
10. THE PROPOSED FACILITY WILL CAUSE AN INSIGNIFICANT OR "DE-MINIMUS" INCREASE IN STORM WATER RUNOFF, THEREFORE, NO DRAINAGE STRUCTURES ARE PROPOSED.
11. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
12. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).
13. THE FACILITY DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
14. CONTRACTOR SHALL VERIFY ANTENNA ELEVATION AND AZIMUTHS WITH RF ENGINEERING PRIOR TO INSTALLATION.
15. ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL.
16. CONTRACTOR MUST FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.
17. CONSTRUCTION SHALL NOT COMMENCE UNTIL COMPLETION OF A PASSING STRUCTURAL ANALYSIS CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. THE STRUCTURAL ANALYSIS IS TO BE PERFORMED BY OTHERS.
18. CONTRACTOR SHALL CONTACT STATE SPECIFIC ONE CALL SYSTEM THREE WORKING DAYS PRIOR TO ANY EARTH MOVING ACTIVITIES.

verizon

SITE NAME: NORTH GRANBY CT
PLSC NUMBER: 467704
FUZE I.D. NUMBER: 16272651

150 LOST ACRES RD
NORTH GRANBY, CT 06035
HARTFORD COUNTY

VICINITY MAP



SOURCE: BING MAPS

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.

1. 2018 CONNECTICUT STATE BUILDING CODE, INCORPORATING THE 2015 IBC
2. 2017 NATIONAL ELECTRICAL CODE - NFPA 70
3. 2015 NFPA 101
4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION 360-10
5. AMERICAN CONCRETE INSTITUTE
6. TIA-222-H
7. TIA 607 FOR GROUNDING
8. INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS 81 IEEE C2 LATEST EDITION
9. TELCORDIA GR-1275
10. ANSI T1.311
11. PROPOSED USE: UNMANNED TELECOM FACILITY
12. HANDICAP REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED.
13. CONSTRUCTION TYPE: IIB
14. USE GROUP: U

PROJECT INFORMATION

SITE INFORMATION

LATITUDE: 42.0096°
LONGITUDE: -72.865989°
GROUND ELEVATION: 641.0'± AMSL
JURISDICTION: TOWN OF GRANBY

APPLICANT

COMPANY: VERIZON WIRELESS
ADDRESS: 118 FLANDERS ROAD, THIRD FLOOR
CITY, STATE, ZIP: WESTBOROUGH, MA 01581

TOWER OWNER

OWNER: SBA TOWERS
ADDRESS: 5900 BROKEN SOUND PARKWAY NW
CITY, STATE, ZIP: BOCA RANTON, FL 33487
SITE ID: CT10017

SITE ACQUISITION

COMPANY: SAI COMMUNICATIONS
ADDRESS: 68 AVALON ROAD
CITY, STATE, ZIP: MILTON, MA 02186

ENGINEERING COMPANY

COMPANY: MASER CONSULTING CONNECTICUT, P.C.
CONTACT: PETE ALBANO, PE
PHONE: (856) 797-0412
E-MAIL: PETER.ALBANO@COLLIERSENGINEERING.COM

CONTRACTOR PMI REQUIREMENT

PMI LOCATION: HTTPS://PMI.VZWSMART.COM
SMART TOOL VENDOR PROJECT #: 10108865
VZW LOCATION CODE (PSLC): 467704
ANALYSIS DATE: 10/25/2021

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

MOUNT REPLACEMENT REQUIRED : YES

REFER TO MOUNT MODIFICATION DRAWINGS PAGE FOR VZW SMART KIT APPROVED VENDORS

PROJECT DESCRIPTION/ SCOPE OF WORK

THE PROPOSED PROJECT SCOPE INCLUDES MODIFYING TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW.

- REMOVE (9) EXISTING ANTENNAS
- INSTALL (9) PROPOSED ANTENNAS
- INSTALL (6) PROPOSED REMOTE RADIO HEADS
- INSTALL (1) OVP 12
- REMOVE (3) DIPLEXERS
- REMOVE (2) COAXIAL CABLES
- INSTALL (1) HYBRID CABLE
- INSTALL MOUNT REPLACEMENT

SHEET INDEX

SHEET	DESCRIPTION
T-1	TITLE SHEET
C-1	COMPOUND LAYOUT AND ELEVATION VIEW
C-2	ANTENNA LAYOUTS
A-1	CONSTRUCTION DETAILS
A-2	CONSTRUCTION DETAILS
G-1	GROUNDING DETAILS

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JOB NUMBER : 21777061A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
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0	01/05/22	ISSUED FOR CONSTRUCTION	AJC	PMA
B	11/10/21	ISSUED FOR REVIEW	DRP	PMA
A	11/03/21	ISSUED FOR REVIEW	DRP	PMA

STATE OF CONNECTICUT
PETER MICHAEL ALBANO
LICENSED
PROFESSIONAL ENGINEER
Peter M. Albano
CONNECTICUT LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 35459
MASER CONSULTING CONNECTICUT
C.T. PEC0000131
01/05/22

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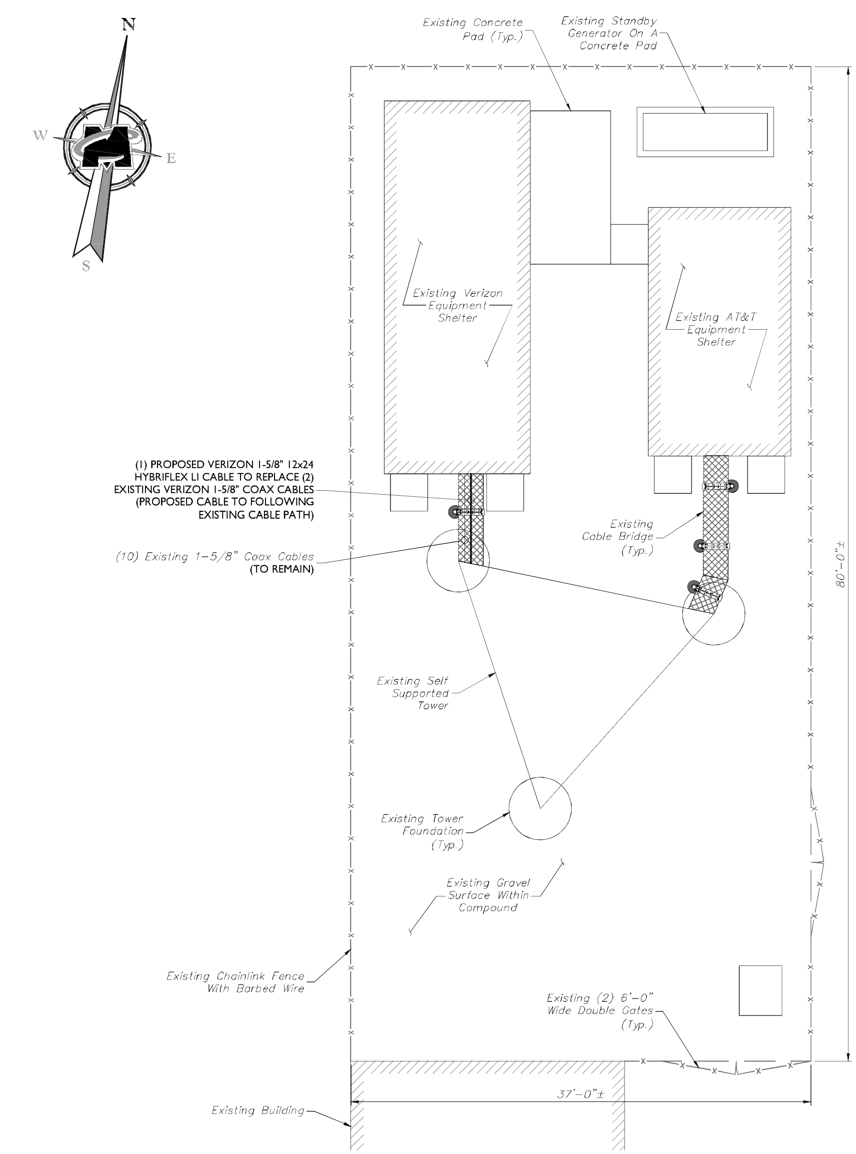
HARTFORD COUNTY

STAMFORD OFFICE
1055 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800

SHEET TITLE : TITLE SHEET

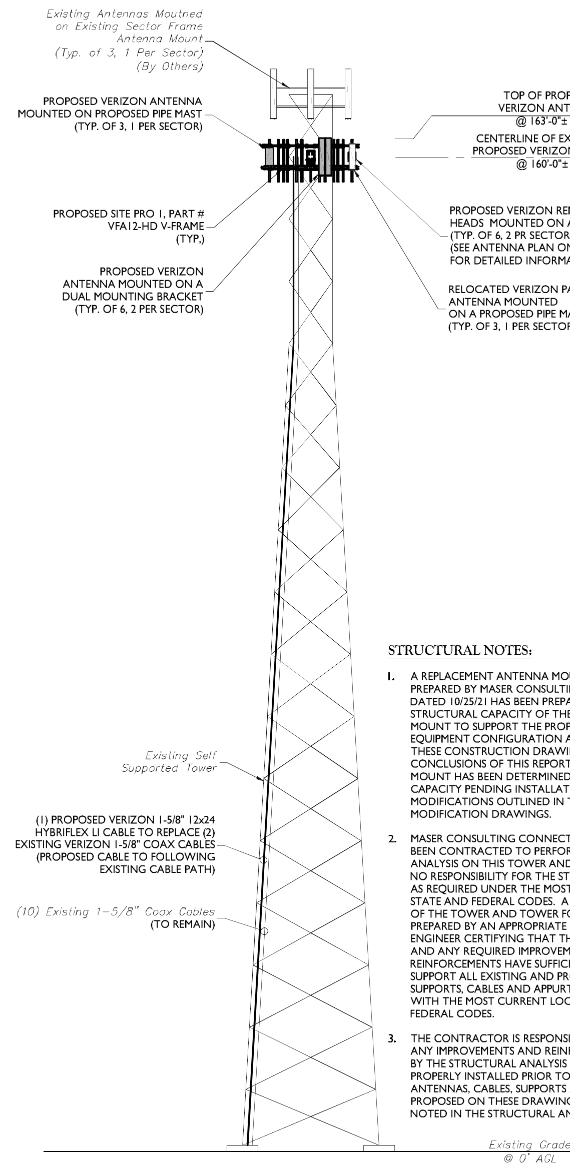
SHEET NUMBER : T-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



COMPOUND LAYOUT

SCALE : 1" = 5' FOR 22"X34"
(SCALE : 1" = 10' FOR 11"X17")



ELEVATION VIEW

SCALE : 1" = 10' FOR 22"X34"
(SCALE : 1" = 20' FOR 11"X17")

STRUCTURAL NOTES:

1. A REPLACEMENT ANTENNA MOUNT ANALYSIS REPORT PREPARED BY MASER CONSULTING CONNECTICUT, P.C., DATED 10/25/21 HAS BEEN PREPARED TO CHECK THE STRUCTURAL CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED ANTENNA AND EQUIPMENT CONFIGURATION AS DEPICTED WITHIN THESE CONSTRUCTION DRAWINGS. BASED ON THE CONCLUSIONS OF THIS REPORT, THE ANTENNA MOUNT HAS BEEN DETERMINED TO HAVE SUFFICIENT CAPACITY PENDING INSTALLATION OF THE MODIFICATIONS OUTLINED IN THE APPROVED MODIFICATION DRAWINGS.
2. MASER CONSULTING CONNECTICUT, P.C. HAS NOT BEEN CONTRACTED TO PERFORM A STRUCTURAL ANALYSIS ON THIS TOWER AND THEREFORE ASSUMES NO RESPONSIBILITY FOR THE STRUCTURAL CAPACITY AS REQUIRED UNDER THE MOST CURRENT LOCAL, STATE AND FEDERAL CODES. A STRUCTURAL ANALYSIS OF THE TOWER AND TOWER FOUNDATION MUST BE PREPARED BY AN APPROPRIATE LICENSED STRUCTURAL ENGINEER CERTIFYING THAT THE EXISTING TOWER AND ANY REQUIRED IMPROVEMENTS AND REINFORCEMENTS HAVE SUFFICIENT CAPACITY TO SUPPORT ALL EXISTING AND PROPOSED ANTENNAS, SUPPORTS, CABLES AND APPURTENANCES COMPLIES WITH THE MOST CURRENT LOCAL, STATE AND FEDERAL CODES.
3. THE CONTRACTOR IS RESPONSIBLE TO CONFIRM THAT ANY IMPROVEMENTS AND REINFORCEMENTS REQUIRED BY THE STRUCTURAL ANALYSIS CERTIFICATION ARE PROPERLY INSTALLED PRIOR TO THE ADDITION OF ANTENNAS, CABLES, SUPPORTS AND APPURTENANCES PROPOSED ON THESE DRAWINGS OR OTHERWISE NOTED IN THE STRUCTURAL ANALYSIS.

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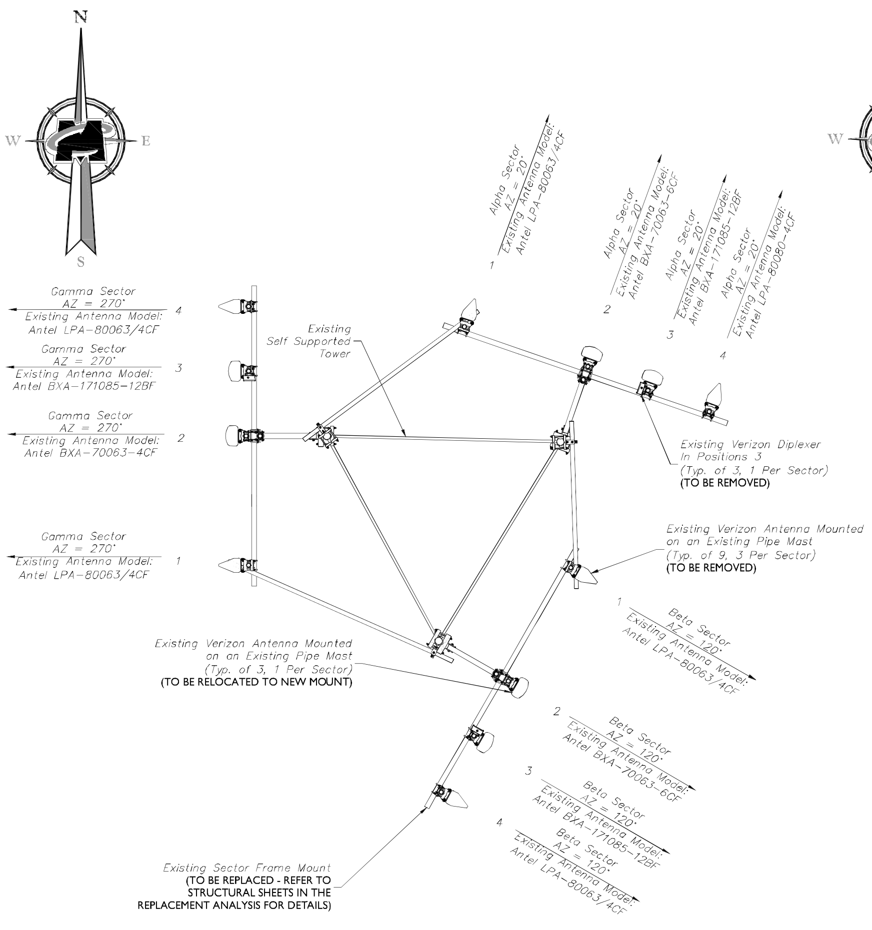
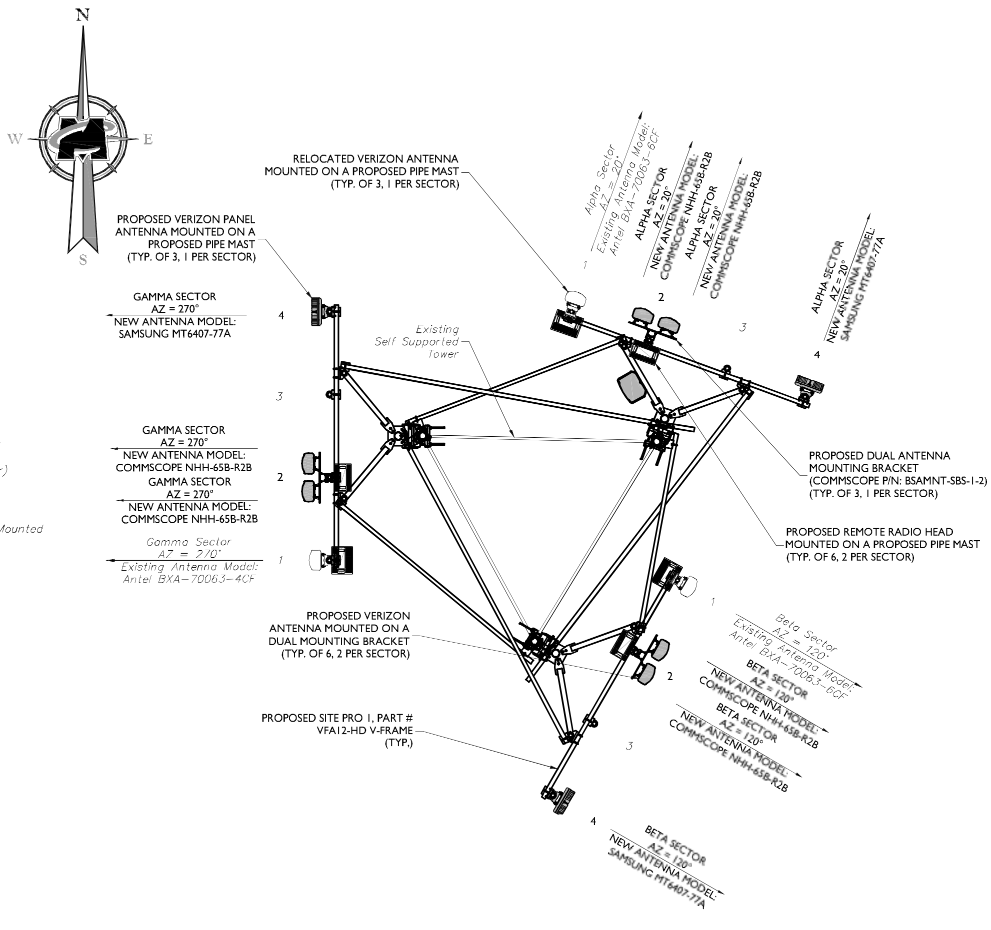
SHEET TITLE : COMPOUND LAYOUT AND ELEVATION VIEW

SHEET NUMBER : C-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



EXISTING ANTENNA LAYOUT
NOT TO SCALE



PROPOSED ANTENNA LAYOUT
NOT TO SCALE

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

Issue:

1. Contractor to install (4) 96" long P2 STD mount pipes per sector, evenly spaced along the face horizontal with the top of the mount pipes extended 28" above the top face horizontal.
2. Contractor shall install the proposed mounts such that the mount azimuths match the proposed antenna azimuths listed in the referenced RFDS.
3. Contractor shall connect (2) tie-backs per sector. The first mount pipe shall be installed 3" left of the upper left standoff horizontal (considered from behind panels). The second shall be installed 3" right of the upper right standoff horizontal (considered from behind panels
4. Contractor shall install the proposed OVP on a new 72" long P2 STD pipe, connected to the brackets on the upper and lower standoff horizontals with new 1/2" dia. U-bolts.
5. Contractor shall install new safety climb wire rope guides (VZWSMART-MSK9) along the tower legs to prevent interference with the proposed mounts.

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SCALE:	JOB NUMBER:
AS SHOWN	21777061A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
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Peter M. Albano
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SHEET TITLE:
ANTENNA LAYOUTS

SHEET NUMBER:
C-2

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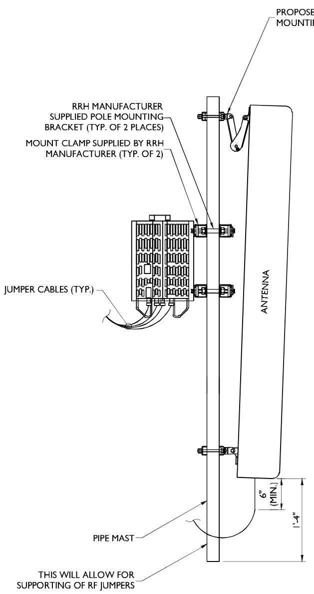
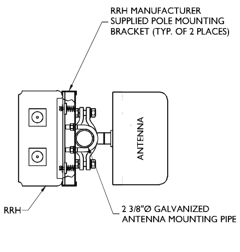


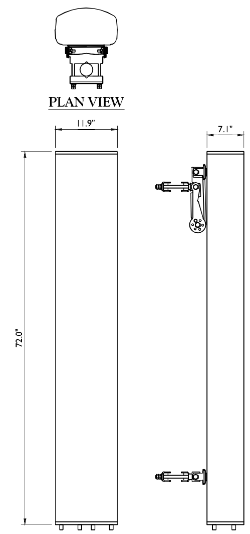
ELEVATION VIEW



PLAN VIEW

ANTENNA MOUNTING DETAIL

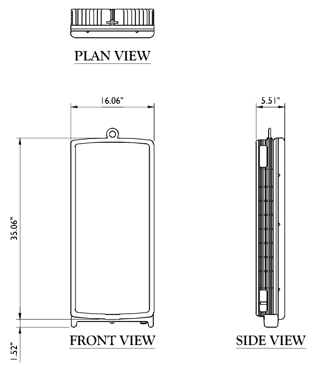
NOT TO SCALE



WEIGHT = 43.7 LBS
WITH WITH BRACKETS = 57.0 LBS

COMMSCOPE NHH-65B-R2B

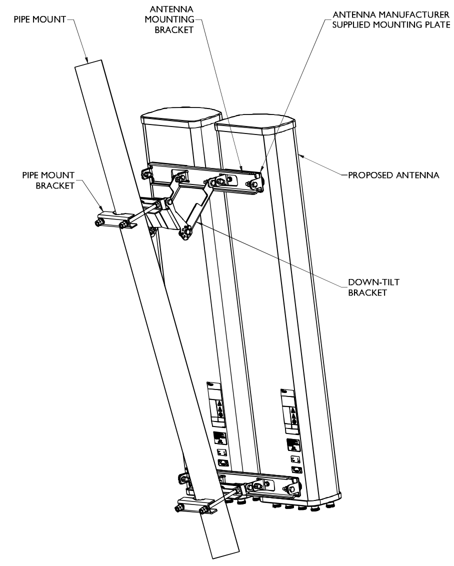
NOT TO SCALE



WEIGHT = 81.57 LBS

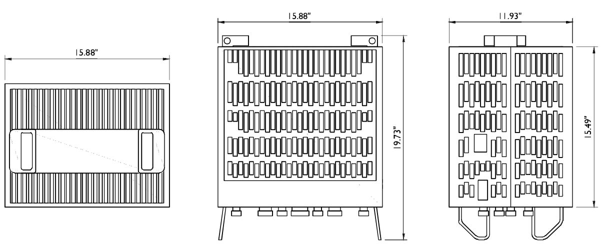
SAMSUNG MT6407-77A

NOT TO SCALE



COMMSCOPE BSAMNT-SBS-1-2

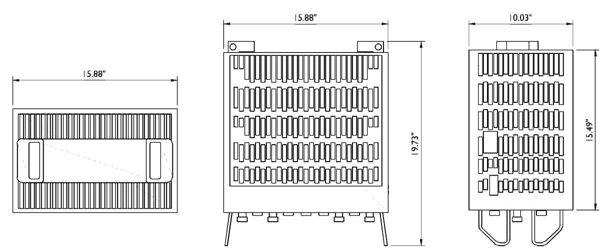
NOT TO SCALE



WEIGHT = 84.4 LBS

SAMSUNG RF4439D-25A (AWS/PCS) RRH WITH FINGER GUARD DETAIL

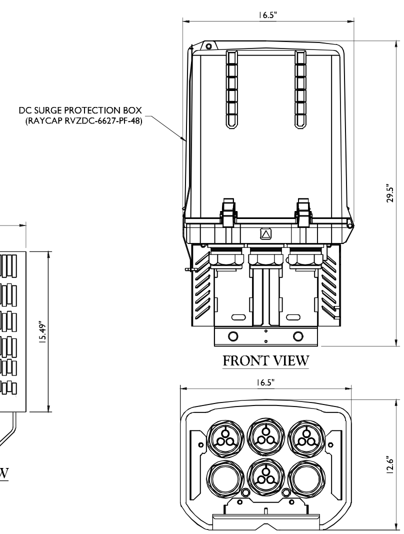
NOT TO SCALE



WEIGHT = 70.3 LBS

SAMSUNG RF4440D-13A (700/850) RRH WITH FINGER GUARD DETAIL

NOT TO SCALE



WEIGHT = 32.0 LBS

RAYCAP RVZDC-6627-PF-48 SURGE PROTECTION

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SCALE :	JOB NUMBER :
AS SHOWN	2177061A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
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0	01/05/22	ISSUED FOR CONSTRUCTION	AJC	PMA
B	11/10/21	ISSUED FOR REVIEW	DRP	PMA
A	11/03/21	ISSUED FOR REVIEW	DRP	PMA

STATE OF CONNECTICUT · PETER MICHAEL ALBANO · LICENSED PROFESSIONAL ENGINEER
Peter M. Albano
CONNECTICUT LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 35459
MASER CONSULTING CONNECTICUT
C.T. PEC.0000131
01/05/22

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SITE NAME:
NORTH GRANBY CT

150 LOST ACRES RD
NORTH GRANBY, CT 06035
HARTFORD COUNTY

STAMFORD OFFICE
1055 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800

SHEET TITLE :
CONSTRUCTION DETAILS

SHEET NUMBER :
A-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

Antenna Summary

Added

700	850	1900	AWS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
LTE	LTE 5G	LTE	LTE		COMMSCOPE	NHH-65B-R2B	160	163	20(01) 120(02) 270(03)	true	true	PHYSICAL	6	NHH-65B-R2B
				5G	Samsung	MT6407-77A	160	161.5	20(0265) 120(0266) 270(0267)	false	false	PHYSICAL	3	

Removed

700	850	1900	AWS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
	CDMA				ANTEL	LPA-80063/4CF	160	162	120(D2) 270(D3)	false	false	PHYSICAL	4	
	CDMA				ANTEL	LPA-80080/6CF	160	163	20(D1)	false	false	PHYSICAL	2	
					ANTEL	BXA-171085-12BF	160	163	20(01) 120(02) 270(03)	false	false	SPARE	3	

Retained

700	850	1900	AWS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
	CDMA				AMPHENOL	BXA-70063-6CF-2 (REUSED FROM 700)	160	163	20(D1) 120(D2)	false	false	PHYSICAL	2	
	CDMA				ANTEL	BXA-70063-4CF (REUSED FROM 700)	160	162	270(D3)	false	false	PHYSICAL	1	

Added: 9 | Removed: 9 | Retained: 3

Equipment Summary

Added

Equipment Type	Location	700	850	1900	AWS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
Mount	Tower						COMMSCOPE	BSAMNT-SBS-1-2			PHYSICAL	3	
Hybrid Cable	Tower	LTE	LTE 5G	LTE	LTE	5G	N/A	12x24 Hybriflex LI		1 5/8"	PHYSICAL	1	
OVP Box	Tower	LTE	LTE 5G	LTE	LTE	5G	Raycap	OVP-12			PHYSICAL	1	
RRU	Tower					5G	Samsung	MT6407-77A			PHYSICAL	3	
RRU	Tower			LTE	LTE		Samsung	RF4439d-25A			PHYSICAL	3	
RRU	Tower	LTE	LTE 5G				Samsung	RF4440d-13A			PHYSICAL	3	

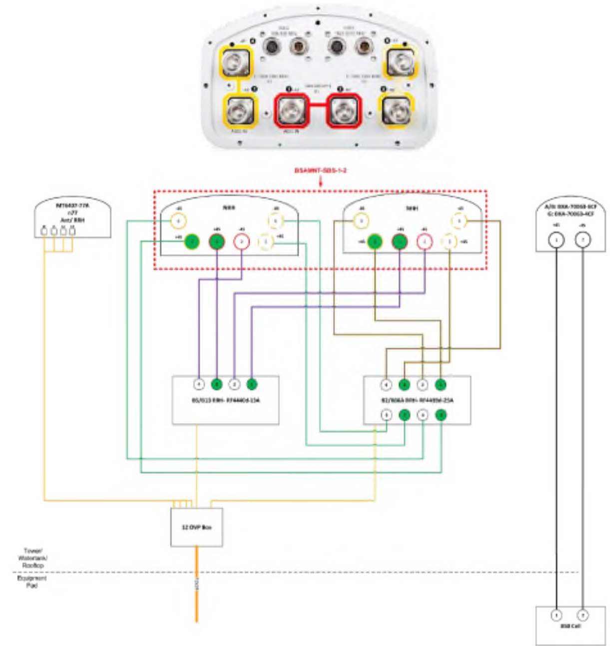
Removed

Equipment Type	Location	700	850	1900	AWS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
Coaxial Cables	Tower						N/A	1-5/8" Coax		1 5/8"	PHYSICAL	2	
RRU	Tower	LTE					Nokia	UHBA B13 RRH 4x30			PHYSICAL	3	
TMA	Tower						RFS	FD9R6004/2C-3L			PHYSICAL	3	

Retained

Equipment Type	Location	700	850	1900	AWS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
Coaxial Cables	Tower		CDMA				N/A	1-5/8" Coax		1 5/8"	PHYSICAL	6	
Coaxial Cables	Tower						N/A	1-5/8" Coax		1 5/8"	SPARE	4	

ANTENNA SCHEDULE



Comments:

Diagram shows antenna port configuration as viewed from below antennas.

Antenna positions are indicated as viewed from IN FRONT of antennas.

Cap and weatherproof unused antenna ports.

All plumbing diagram colors are irrelevant except for AISG & Hybriflex cable. (For the coax colors follow Coax Colors guide above)

RF PLUMBING DIAGRAMS

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0	01/05/22	ISSUED FOR CONSTRUCTION	AJC	PMA
B	11/10/21	ISSUED FOR REVIEW	DRP	PMA
A	11/03/21	ISSUED FOR REVIEW	DRP	PMA

STATE OF CONNECTICUT PETER MICHAEL ALBANO PROFESSIONAL ENGINEER
Peter M. Albano
CONNECTICUT LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 35469
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Phone: 203.324.0800

SHEET TITLE: CONSTRUCTION DETAILS

SHEET NUMBER: A-2

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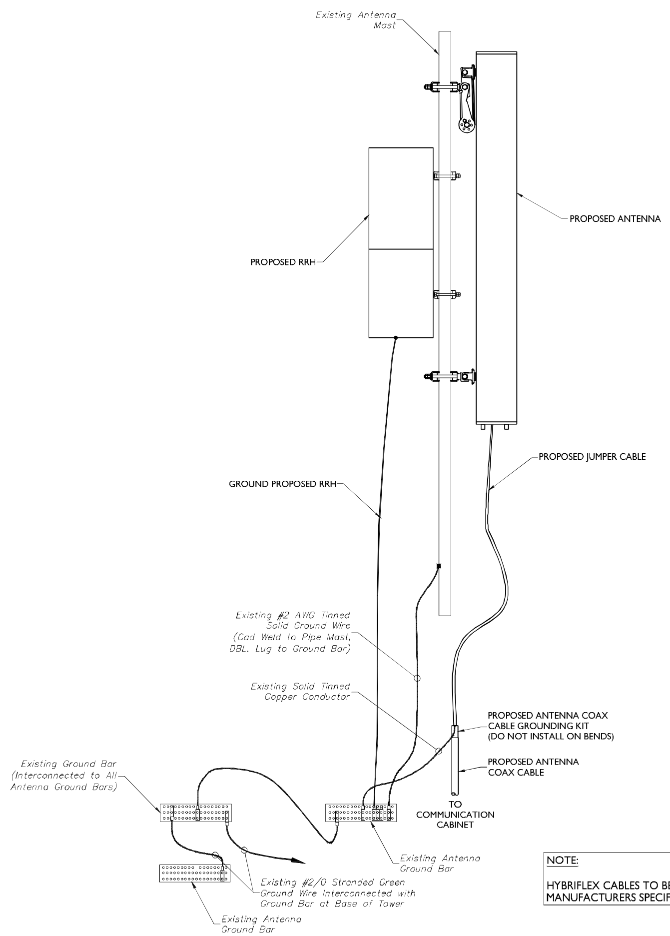

NOTE:

HYBRIFLEX CABLES TO BE GROUNDED PER MANUFACTURERS SPECIFICATIONS.

ANTENNA GROUNDING SCHEMATIC

NOT TO SCALE

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0	01/05/22	ISSUED FOR CONSTRUCTION	AJC	PMA
B	11/10/21	ISSUED FOR REVIEW	DRP	PMA
A	11/03/21	ISSUED FOR REVIEW	DRP	PMA

STATE OF CONNECTICUT PETER MICHAEL ALBANO LICENSED PROFESSIONAL ENGINEER

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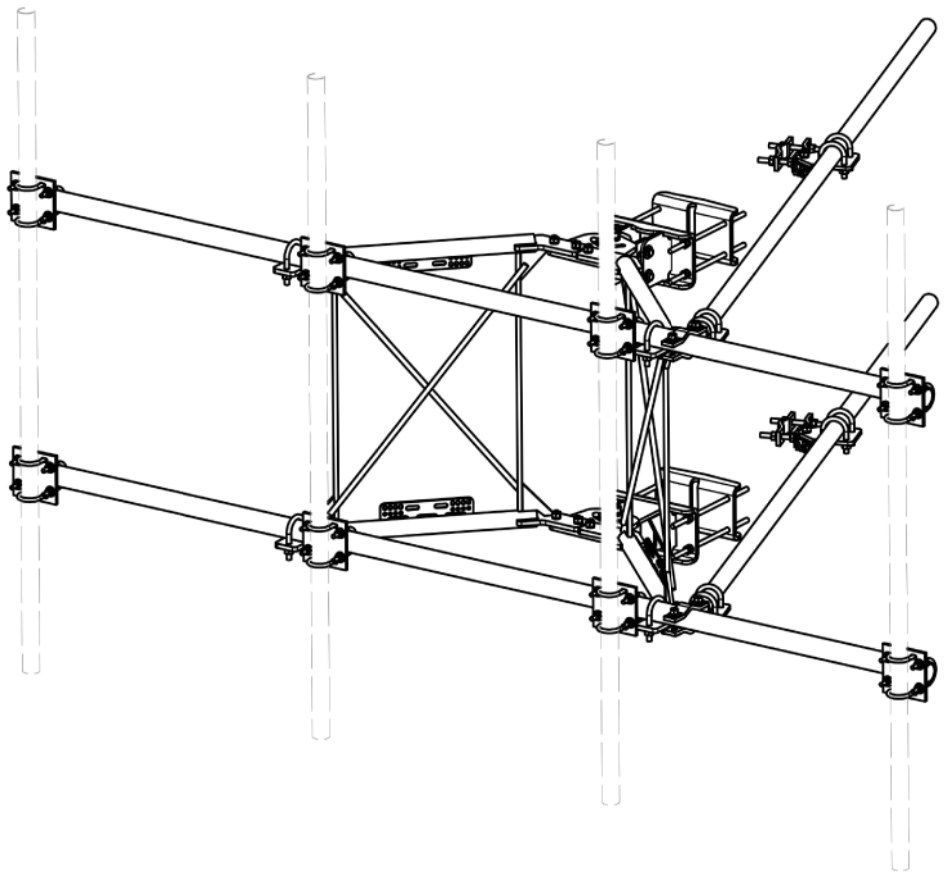
Stamford, CT 06901

Phone: 203.324.0800

SHEET TITLE : GROUNDING DETAILS

SHEET NUMBER : G-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



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

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

REVISION HISTORY

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:
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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

SAMSUNG

700/850MHZ MACRO RADIO

DUAL-BAND AND HIGH POWER FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This 700/850MHz 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code	RF4440d-13A

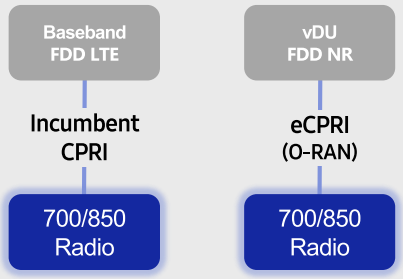
Homepage
samsungnetworks.com

Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

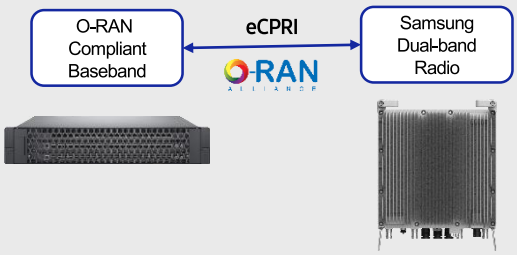
Samsung's 700/850MHz macro radio can support each incumbent CPRI interface as well as an advanced eCPRI interface. This feature provides installable options for both legacy LTE networks and added NR networks.



O-RAN Compliant

A standardized O-RAN radio can help when implementing cost-effective networks because it is capable of sending more data without compromising additional investments.

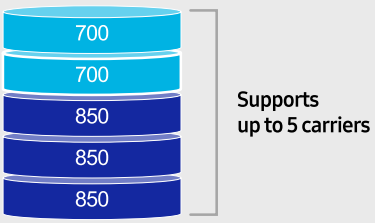
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

The number of required carriers varies according to site (region). The ability to support many carriers is essential for using all frequencies that the operator has available.

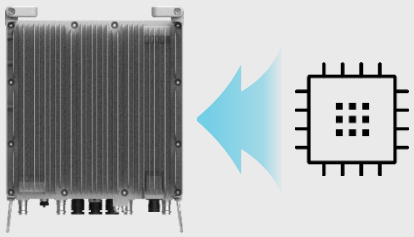
The new 700/850MHz dual-band radio can support up to 2 carriers in the B13 (700MHz) band and 3 carriers in the B5 (850MHz) band, respectively.



Secured Integrity

Access to sensitive data is allowed only to authorized software.

The Samsung radio's CPU can protect root of trust, which is credential information to verify SW integrity, and secure storage provides access control to sensitive data by using dedicated hardware (TPM).



Technical Specifications

Item	Specification
Tech	LTE / NR
Brand	B13(700MHz), B5(850MHz)
Frequency Band	DL: 746 – 756MHz, UL: 777 – 787MHz DL: 869 – 894MHz, UL: 824 – 849MHz
RF Power	(B13) 4 × 40W or 2 × 60W (B5) 4 × 40W or 2 × 60W
IBW/OBW	(B13) 10MHz / 10MHz (B5) 25MHz / 25MHz
Installation	Pole, Wall
Size/ Weight	14.96 x 14.96 x 9.05inch (33.2L) / 70.33 lb

SAMSUNG

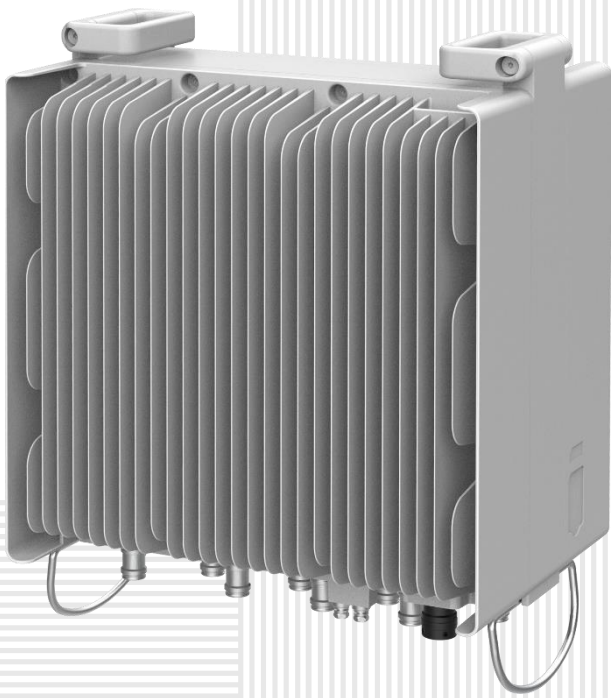
AWS/PCS MACRO RADIO

DUAL-BAND AND HIGH POWER FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This AWS/PCS 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

57196

Model Code	RF4439d-25A



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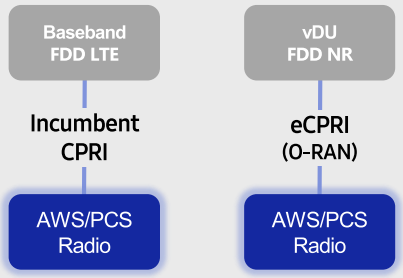

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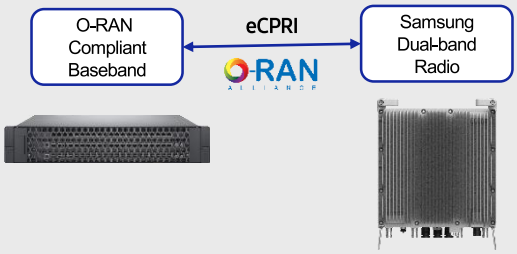
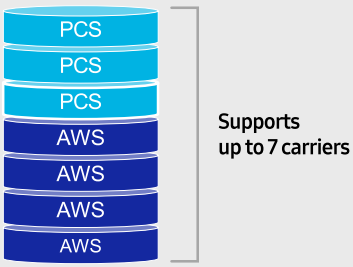


Optimum Spectrum Utilization

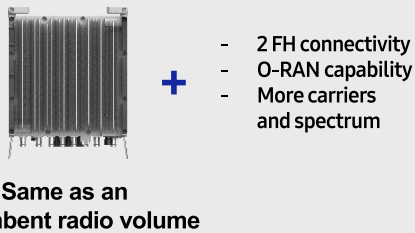
The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

The new AWS/PCS dual-band radio can support up to 3 carriers in the PCS (1.9GHz) band and 4 carriers in the AWS (2.1GHz) band, respectively.



Brand New Features in a Compact Size

Samsung's AWS/PCS macro radio offers several features, such as dual connectivity for baseband for both CDU and vDU, O-RAN capability, more carriers and an enlarged PCS spectrum, combined into an incumbent radio volume of 36.8L.



Technical Specifications

Item	Specification
Tech	LTE / NR
Brand	B25(PCS), B66(AWS)
Frequency Band	DL: 1930 – 1995MHz, UL: 1850 – 1915MHz DL: 2110 – 2200MHz, UL: 1710 – 1780MHz
RF Power	(B25) 4 × 40W or 2 × 60W (B66) 4 × 60W or 2 × 80W
IBW/OBW	(B25) 65MHz / 30MHz (B66) DL 90MHz, UL 70MHz / 60MHz
Installation	Pole, Wall
Size/ Weight	14.96 x 14.96 x 10.04inch (36.8L) / 74.7lb

SAMSUNG

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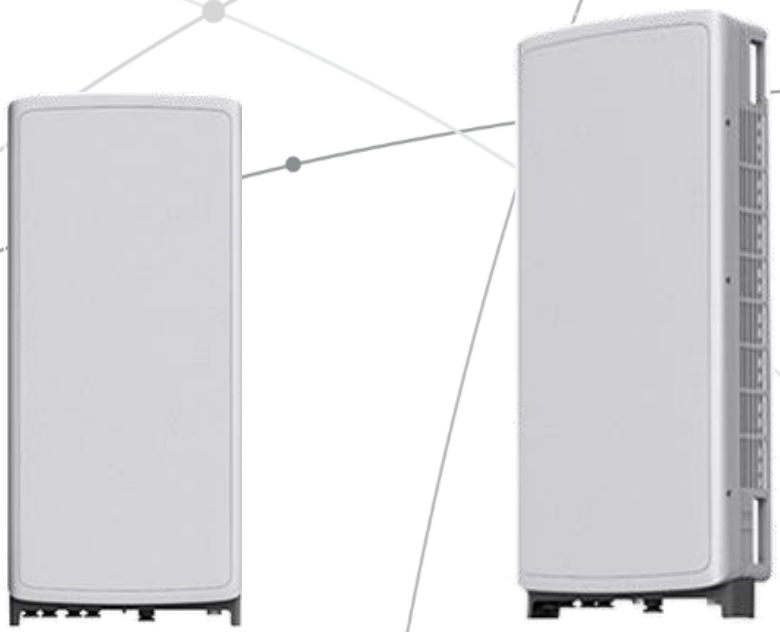
C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

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

Model Code : MT6407-77A

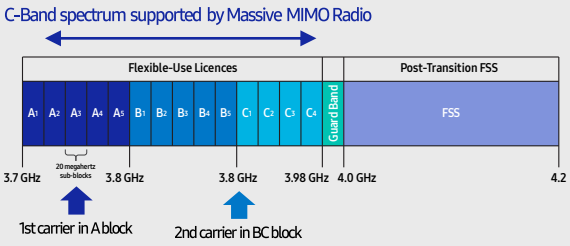


Points of Differentiation

Wide Bandwidth

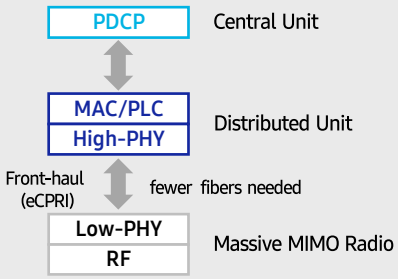
With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

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



Future Proof Product

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



Enhanced Performance

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

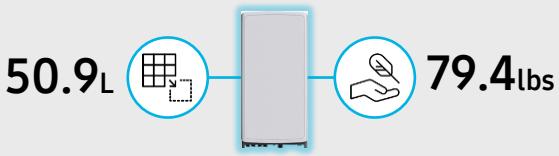
This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

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

Well Matched Design

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

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



Technical Specifications

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

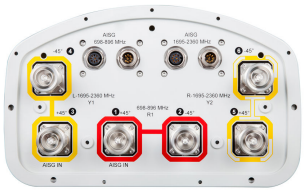
SAMSUNG

About Samsung Electronics Co., Ltd.

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

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

NHH-65B-R2B



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

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

General Specifications

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

Remote Electrical Tilt (RET) Information, General

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

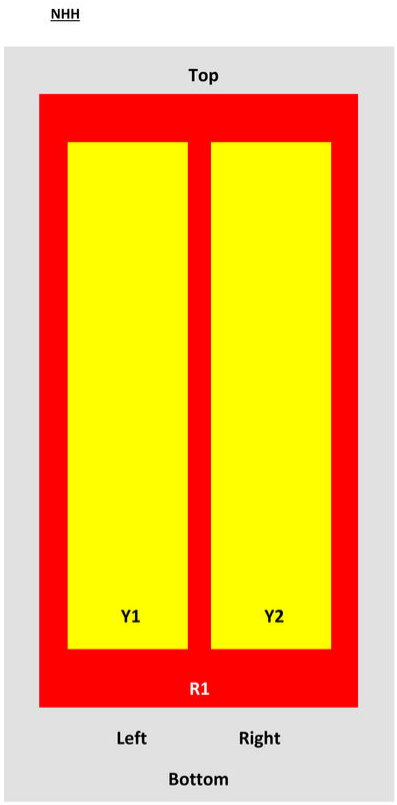
Dimensions

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

NHH-65B-R2B

Depth	180 mm | 7.087 in

Array Layout



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

View from the front of the antenna

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

Electrical Specifications

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

Remote Electrical Tilt (RET) Information, Electrical

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

NHH-65B-R2B

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

Electrical Specifications

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

Electrical Specifications, BASTA

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

NHH-65B-R2B

CPR at Sector, dB	10	7	16	13	11	4

Mechanical Specifications

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

Packaging and Weights

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

Regulatory Compliance/Certifications

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

Included Products

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

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance

ATTACHMENT 3

	General	Power	Density					
Site Name: North Granby								
Tower Height: Verizon @ 160ft								
CARRIER	**# OF CHAN.**	**WATTS ERP**	**HEIGHT**	**FREQ.**	**CALC. POWER DENS**	**MAX. PERMISS.EXP.**	**FRACTION MPE**	**Total**
*AT&T	1	235	170	850	0.00314213	0.566666667	0.06%	
*AT&T	1	1000	170	850	0.013370767	0.566666667	0.24%	
*AT&T	1	1000	170	850	0.013370767	0.566666667	0.24%	
*AT&T	1	1476	170	700	0.019735252	0.466666667	0.42%	
*AT&T	2	3664	170	1900	0.097980982	1	0.98%	
*AT&T	1	3837	170	2100	0.051303634	1	0.51%	
VZW 700	**4**	**751**	**160**	**751**	**0.0039**	**0.5007**	**0.77%**	
VZW CDMA	**2**	**869**	**160**	**869**	**0.0011**	**0.5793**	**0.19%**	
VZW Cellular	**4**	**869**	**160**	**869**	**0.0039**	**0.5793**	**0.68%**	
VZW PCS	**4**	**1980**	**160**	**1980**	**0.0084**	**1.0000**	**0.84%**	
VZW AWS	**4**	**2125**	**160**	**2125**	**0.0093**	**1.0000**	**0.93%**	
VZW CBAND	**4**	**3730**	**160**	**3730**	**0.0367**	**1.0000**	**3.67%**	
VZW CBRS	**4**	**3625**	**160**	**3625**	**0.0001**	**1.0000**	**0.01%**	
								9.53%
* Source: Siting Council								

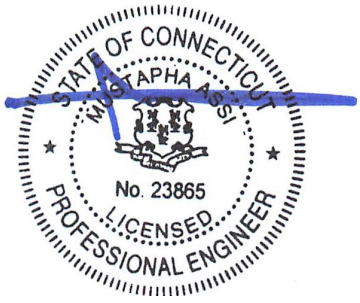
ATTACHMENT 4

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

Structural Analysis Report

Existing 170 ft Rohn Self Supporting Tower
Customer Name: SBA Communications Corp
Customer Site Number: CT10017-A
Customer Site Name: North Granby
Carrier Name: Verizon (App#: 175513-1)
Carrier Site ID / Name: 16272651 / NORTH GRANBY CT
Site Location: 150 Lost Acres Road
North Granby, Connecticut
Hartford County
Latitude: 42.009600
Longitude: -72.866544

Exp. 01/31/2022



12/02/2021

Analysis Result:

Max Structural Usage: 98.7% [Pass]
Max Foundation Usage: 73.4% [Pass]
Additional Usage Caused by New Mount: +1.0%

Report Prepared By: Mohammed Al Rubaye

Tower Engineering Solutions
Phone (972) 483-0607, Fax (972) 975-9615
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Analysis Result:

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Report Prepared By: Mohammed Al Rubaye

Introduction

The purpose of this report is to summarize the analysis results on the 170 ft Rohn Self Supporting Tower to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Tower Drawings	Roh, Eng File # 37696Mp Dated 08/03/1998
Foundation Drawing	N/A
Geotechnical Report	N/A
Modification Drawings	Extension Drawings by FDH, Project # 09-07094E S2 Dated 10/23/2009 PCI by FDH, Project # 09-07094E S2 Dated 01/06/2010
Mount Analysis	Maser Consulting Project #: 21777061A (Rev. 1), dated October 25, 2021

Analysis Criteria

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

Wind Speed Used in the Analysis:	Ultimate Design Wind Speed V_{ult} = 120.0 mph (3-Sec. Gust)/ Nominal Design Wind Speed V_{asd} = 93.0 mph (3-Sec. Gust)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 1" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-G-2 / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Structure Class:	II
Topographic Category:	1
Crest Height:	0 ft
Seismic Parameters:	S_S = 0.176, S_1 = 0.065

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

Existing Antennas, Mounts and Transmission Lines

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

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	170.0	3	Cci DMP65R-BU8DA Panel	(3) T-Frames w/Modifications	(7) 1 5/8" (3) 3/8" RET (1) 3" Conduit Housing (2) 3/4" DC and (1) 7/16" Fiber (2) 3" Conduit Housing (3) 1" DC and (1) 7/16" Fiber	AT&T
2		3	Powerwave 7770 Panel			
3		3	Cci OPA65R-BU8DA Panel			
4		6	Powerwave TT08-19DB111-001 TMA			
5		3	Ericsson 4449 B5/B12 RRU			
6		3	Ericsson RRUS 8843 B2 B66A RRU			
7		1	Raycap DC6-48-60-18-8F - OVP			
8		1	Raycap DC9-48-60-24-8C-EV - OVP			
9		3	Andrew ABT-DF-DMADBH Bias-T			
-	160.0	1	Antel BXA-70063-4CF Panel	(3) T-Frames	(12) 1 5/8" (1) 1/2"	Verizon
-		3	Antel BXA-171085-12BF Panel			
-		2	Antel BXA-70063-6CF Panel			
-		4	Antel LPA-80063/4CF Panel			
-		2	Antel LPA-80080/6CF Panel			
-		1	GPS			
-		6	RFS FD9R6004/2C-3L Diplexer			
19	150.0	3	RFS - APX16DWV-16DWVS-E-A20 - Panel	(3) Sitepro VFA12-HD	(3) 1.9" Fiber	T-Mobile
20		3	RFS - APXVAALL24_43-U-NA20 - Panel			
21		3	Ericsson - AIR6449 B41 - Panel			
22		3	Ericsson 4460 B25 + B66			
23		3	Ericsson 4480 B71 + B85			
24	140.0	3	JMA Wireless MX08FRO665-21 - Panel	(3) Platform w/HRK Commscope MTC3975083	(1) 1.6" Hybrid	Dish Wireless
25		3	Fujitsu TA08025-B604 - RRU			
26		3	Fujitsu TA08025-B605 - RRU			
27		1	Raycap RDIDC-9181-PF-48 - OVP			

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

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

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
10	160.0	1	Antel - BXA-70063-4CF - Panel	(3) V- Frames SitePro 1 VFA12-HD w/ (3) Commscope BSAMT-SBS-1-2	(10) 1 5/8" (1) 1 5/8" Hybrid (1) 1/2"	Verizon
11		3	Samsung - MT6407-77A - Panel			
12		2	Antel - BXA-70063-6CF-2 - Panel			
13		6	Commscope - NHH-65B-R2B - Panel			
14		6	RFS - FD9R6004/2C-3L - Diplexer			
15		3	Samsung - RF4439d-25A - RRU			
16		3	Samsung - RF440d-13A - RRU			
17		1	Raycap - RVZDC-6627-PF-48 - OVP			
18		1	GPS			

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

Analysis Results

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

Tower Component	Legs	Diagonals	Horizontals
Max. Usage:	**98.7%**	**76.1%**	**23.7%**
Pass/Fail	**Pass**	**Pass**	**Pass**

Foundations

	Compression (Kips)	Uplift (Kips)	Shear (Kips)
Original Design Reactions	240.1	214.2	28.5
Analysis Reactions	238.1	200.8	23.7
Factored Reactions*	324.1	289.2	38.5
% of Design Reactions	73.4%	69.5%	61.7%

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

No foundation drawing or geotechnical report is available for the analysis of the existing foundation. Since the reactions calculated from the current analysis are less than those indicated on the original structural design drawing, the foundations are assumed to be adequate to resist the reactions from the current analysis.

Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 0.3359 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

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

Standard Conditions

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

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

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

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

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

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

Structure: CT10017-A-SBA

Site Name:	North Granby			**Code:**	EIA/TIA-222-G	11/29/2021
Type:	Self Support	**Base Shape:**	Triangle	**Basic WS:**	93.00	
Height:	170.00 (ft)	**Base Width:**	20.96	**Basic Ice WS:**	50.00	
Base Elev:	0.00 (ft)	**Top Width:**	6.58	**Operational WS:**	60.00	Page: 1

Tower Engineering Solutions

Section Properties

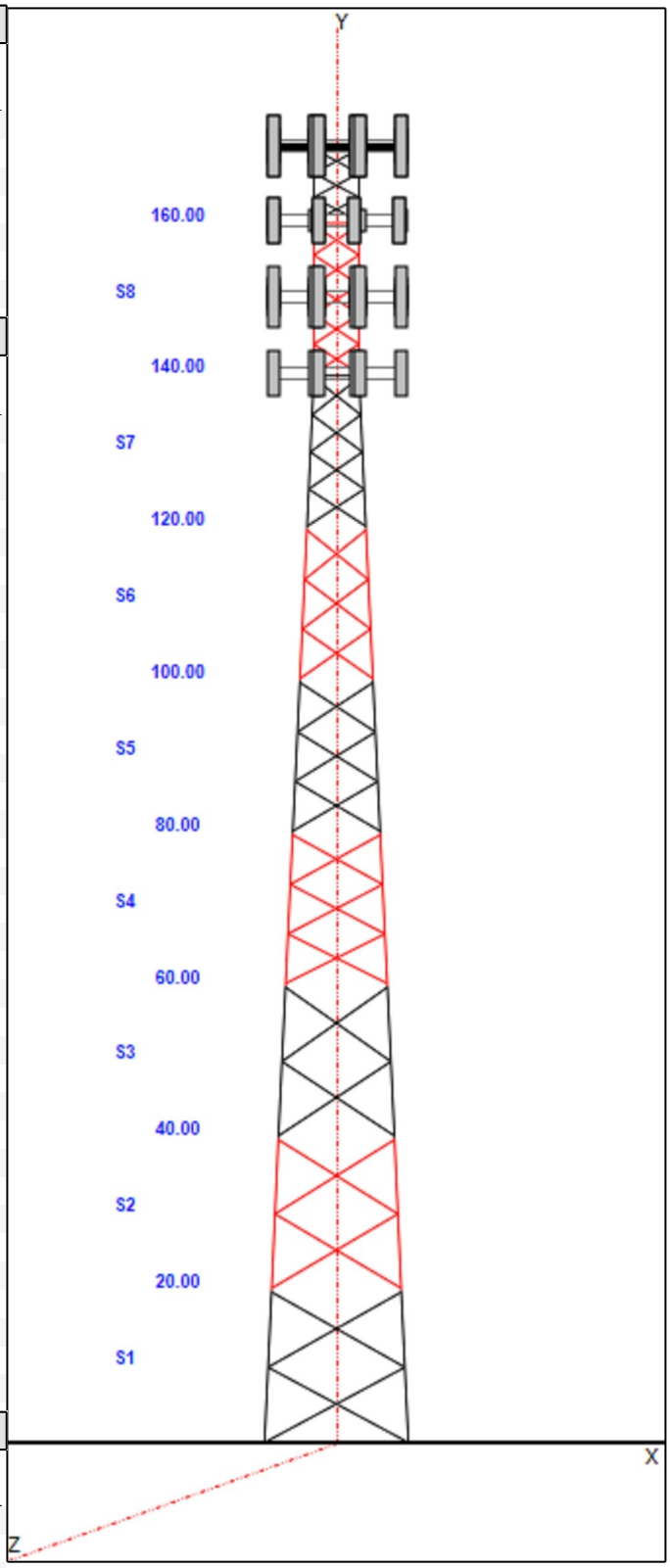
Sect	Leg Members	Diagonal Members	Horizontal Members
1-2	PX 6" DIA PIPE	SAE 3.5X3.5X0.25	
3	PSP ROHN 6 EHS	SAE 3.5X3.5X0.25	
4	PX 5" DIA PIPE	SAE 3X3X0.25	
5	PX 4" DIA PIPE	SAE 2.5X2.5X0.1875	
6	PX 3-1/2" DIA PIPE	SAE 2.5X2.5X0.1875	
7	PST 3" DIA PIPE	SAE 2X2X0.1875	SAE 2X2X0.1875
8-9	PST 2-1/2" DIA PIPE	SAE 1.75X1.75X0.1875	SAE 1.75X1.75X0.1875

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description
170.00	170.00	1	6' Lightning rod
170.00	170.00	1	Beacon
170.00	170.00	3	DMP65R-BU8DA
170.00	170.00	3	7770.00
170.00	170.00	3	OPA65R-BU8DA
170.00	170.00	6	TT08-19DB111-001
170.00	170.00	3	4449 B5/B12
170.00	170.00	3	B2 B66A 8843
170.00	170.00	1	DC6-48-60-18-8F
170.00	170.00	1	DC9-48-60-24-8C-EV
170.00	170.00	3	ABT-DMDF-ADBH
170.00	170.00	3	T-Frames
170.00	170.00	1	(3) 12.5' - 2" Horizontal Pipe
170.00	170.00	2	(3) Stabilizer Kit (12' FW)
160.00	160.00	1	BXA-70063-4CF-EDIN-10
160.00	160.00	3	MT6407-77A
160.00	160.00	2	BXA-70063-6CF-2
160.00	160.00	6	NHH-65B-R2B
160.00	160.00	1	(3) VFA12-HD
160.00	160.00	6	FD9R6004/2C-3L Diplexer
160.00	160.00	3	RF4439d-25
160.00	160.00	3	RF440d-13A
160.00	160.00	1	RVZDC-6627-PF-48
160.00	160.00	1	GPS
150.00	150.00	3	APX16DWV-16DWVS-E-A20
150.00	150.00	3	APXVAALL24_43-U-NA20
150.00	150.00	3	AIR6449 B41
150.00	150.00	3	4460 B25 + B66
150.00	150.00	3	4480 B71 + B85
150.00	150.00	1	(3) VFA12-HD
140.00	140.00	3	JMA Wireless MX08FRO665-21
140.00	140.00	3	Fujitsu TA08025-B604
140.00	140.00	3	Fujitsu TA08025-B605
140.00	140.00	1	Raycap RDIDC-9181-PF-48
140.00	140.00	1	(3) Commscope MTC3975083

Linear Appurtenances

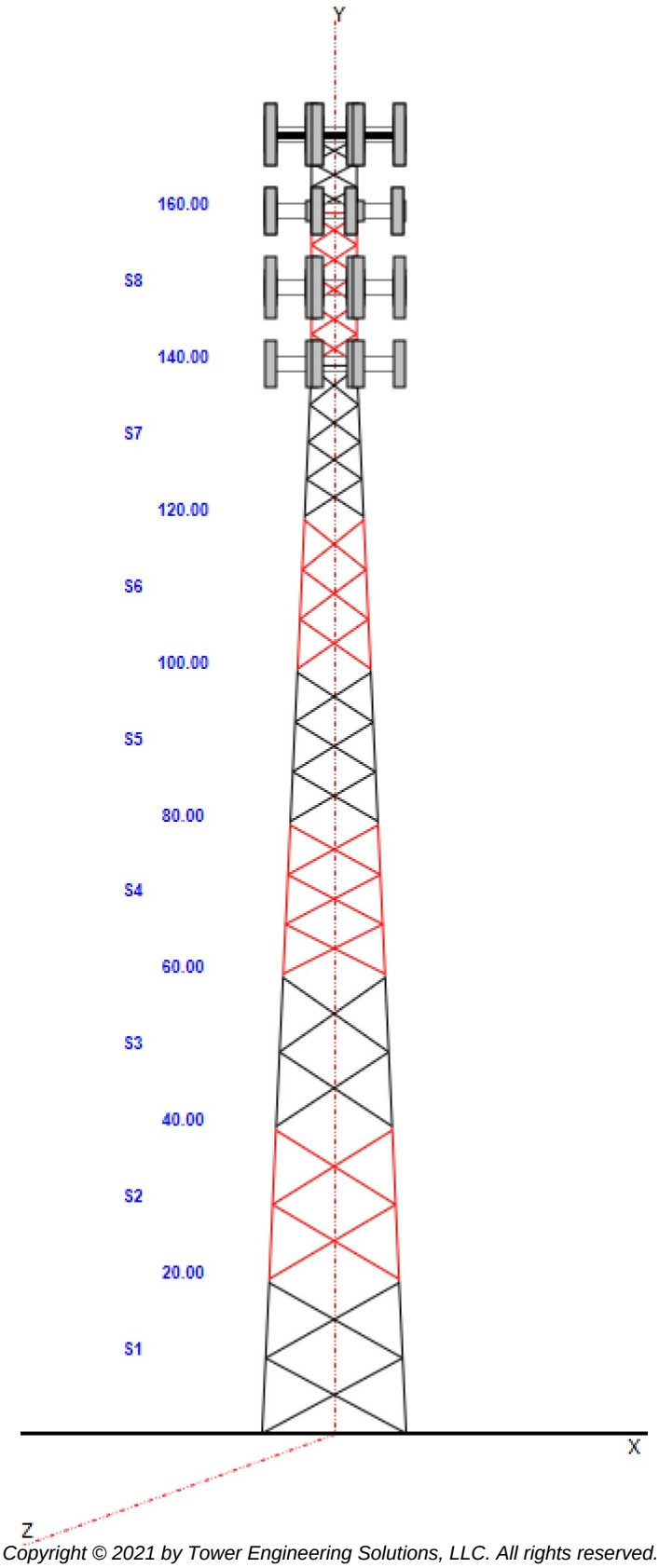
Elev From (ft)	Elev To (ft)	Qty	Description
0.00	170.00	7	1 5/8" Coax
0.00	170.00	3	1" DC
0.00	170.00	3	3" Conduit
0.00	170.00	2	3/4" DC



0.00	170.00	3	3/8" RET
0.00	170.00	2	7/16" Fiber
0.00	170.00	1	W/G Ladder
0.00	160.00	10	1 5/8" Coax
0.00	160.00	1	1 5/8" Hybrid
0.00	160.00	1	1/2" Coax
0.00	160.00	1	W/G Ladder
0.00	150.00	3	1.9" Fiber
0.00	140.00	1	1.6" Hybrid
0.00	140.00	1	W/G Ladder

Base Reactions

Leg			Overturning		
Max Uplift:	-200.84	(kips	Moment:	4031.16	(ft-kips)
Max Down:	238.06	(kips	Total Down:	47.94	(kips)
Max Shear:	23.74	(kips	Total Shear:	37.94	(kips)

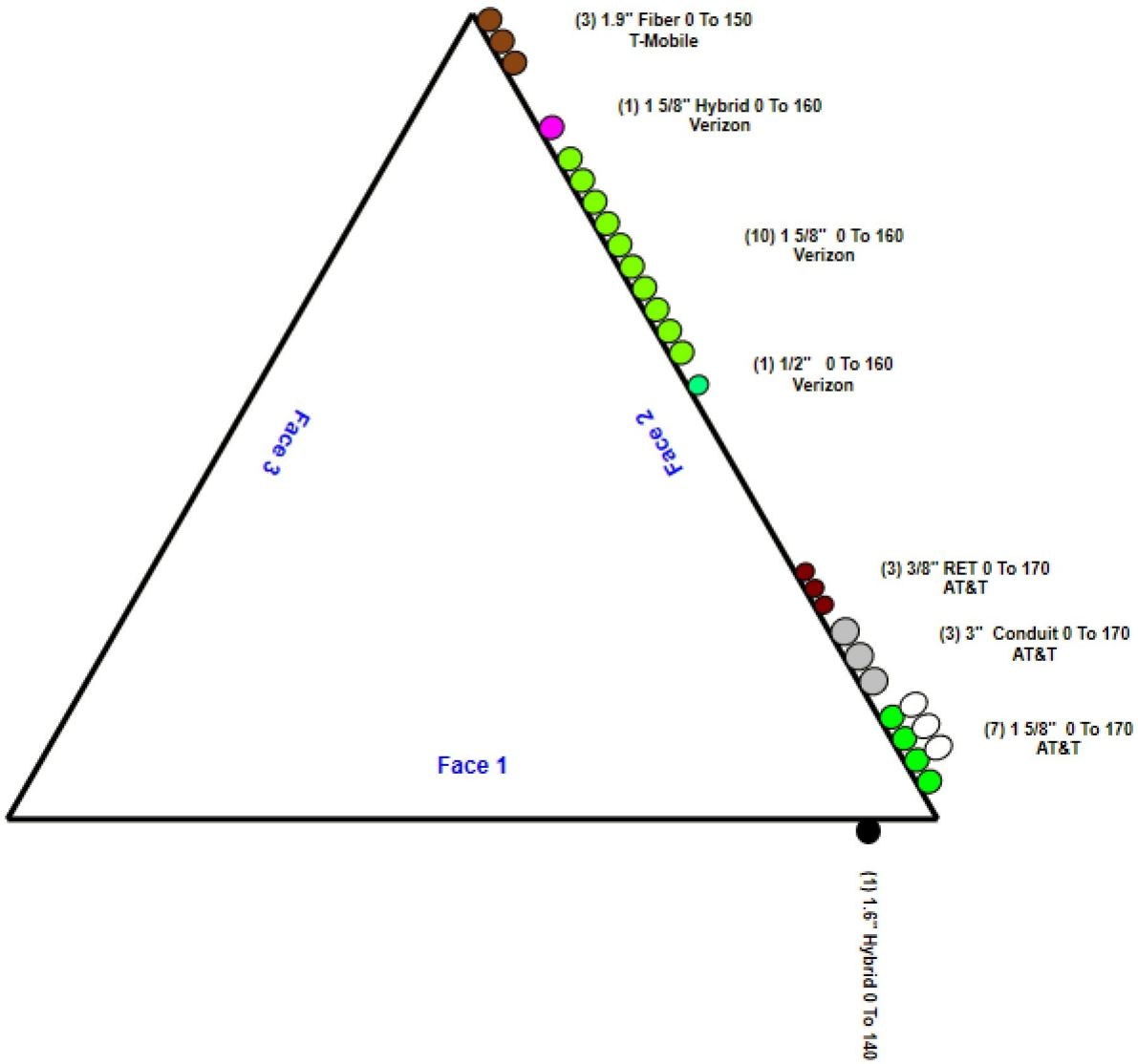


Structure: CT10017-A-SBA - Coax Line Placement

Type: Self Support
Site Name: North Granby
Height: 170.00 (ft)

11/29/2021

Tower Engineering Solutions



Loading Summary

Structure:	CT10017-A-SBA		**Code:**	EIA/TIA-222-G	11/29/2021
Site Name:	North Granby		**Exposure:**	B	
Height:	170.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	0.85	**Topography:** 1	**Struct Class:**	II	Page: 5

Tower Engineering Solutions

Discrete Appurtenances Properties

Attach Elev (ft)	Description	Qty	No Ice Weight (lb)	No Ice CaAa (sf)	Ice Weight (lb)	Ice CaAa (sf)	Len (in)	Width (in)	Depth (in)	Ka	Orientation Factor	Vert Ecc (ft)
170.00	6' Lightning rod	1	6.50	0.380	55.36	1.844	72.000	0.600	0.600	1.00	1.00	0.000
170.00	Beacon	1	36.00	2.720	215.29	3.998	28.000	17.500	17.500	1.00	1.00	0.000
170.00	DMP65R-BU8DA	3	95.70	17.870	714.95	20.288	96.000	20.700	7.700	0.80	0.72	0.000
170.00	7770.00	3	35.00	5.500	231.52	6.966	55.000	11.000	5.000	0.80	0.30	0.000
170.00	OPA65R-BU8DA	3	76.50	17.870	571.51	20.288	96.000	21.000	7.800	0.80	0.72	0.000
170.00	TT08-19DB111-001	6	22.00	0.920	57.83	1.915	14.200	6.700	5.400	0.80	0.75	0.000
170.00	4449 B5/B12	3	71.00	1.970	142.86	2.707	17.900	13.200	9.400	0.80	0.50	0.000
170.00	B2 B66A 8843	3	70.00	1.640	131.90	2.335	15.000	13.200	9.300	0.80	0.50	0.000
170.00	DC6-48-60-18-8F	1	31.80	0.920	115.02	1.510	24.000	11.000	11.000	0.80	1.00	0.000
170.00	DC9-48-60-24-8C-EV	1	26.20	1.140	168.87	3.276	31.400	10.200	18.200	0.80	1.00	0.000
170.00	ABT-DMDF-ADBH	3	1.10	0.050	4.10	0.309	1.700	1.600	3.200	0.80	0.98	0.000
170.00	T-Frames	3	525.00	16.000	1265.01	44.066	0.000	0.000	0.000	0.75	0.75	0.000
170.00	(3) 12.5' - 2" Horizontal Pipe	1	137.25	5.938	317.81	15.980	0.000	0.000	0.000	0.75	1.00	0.000
170.00	(3) Stabilizer Kit (12' FW)	2	180.00	6.100	484.46	14.698	0.000	0.000	0.000	0.75	1.00	0.000
160.00	BXA-70063-4CF-EDIN-10	1	9.90	4.720	145.70	7.185	47.400	11.200	5.200	0.80	0.73	0.000
160.00	MT6407-77A	3	79.40	4.690	250.17	5.973	35.100	16.100	5.500	0.80	0.70	0.000
160.00	BXA-70063-6CF-2	2	17.00	7.570	214.73	11.255	71.000	11.200	5.200	0.80	0.73	0.000
160.00	NHH-65B-R2B	6	43.70	8.080	329.91	9.842	72.000	11.900	7.100	0.80	0.83	0.000
160.00	(3) VFA12-HD	1	2322.0	50.700	5347.78	135.64	0.000	0.000	0.000	0.75	1.00	0.000
160.00	FD9R6004/2C-3L Diplexer	6	3.10	0.370	13.80	0.978	5.800	6.500	1.500	0.80	0.62	0.000
160.00	RF4439d-25	3	84.40	1.880	152.75	2.615	15.000	15.000	10.000	0.80	0.50	0.000
160.00	RF440d-13A	3	70.30	1.880	135.15	2.615	15.000	15.000	8.100	0.80	0.50	0.000
160.00	RVZDC-6627-PF-48	1	32.00	4.060	183.90	5.156	29.500	16.500	12.600	0.80	1.00	0.000
160.00	GPS	1	10.00	1.000	49.09	1.949	12.000	9.000	6.000	0.80	1.00	0.000
150.00	APX16DWV-16DWVS-E-A20	3	40.70	6.610	196.78	9.514	55.900	13.300	3.100	0.80	0.62	0.000
150.00	APXVAALL24_43-U-NA20	3	128.00	20.240	709.08	22.805	95.900	24.000	7.800	0.80	0.70	0.000
150.00	AIR6449 B41	3	103.00	5.650	285.82	6.917	33.100	20.500	8.300	0.80	0.71	0.000
150.00	4460 B25 + B66	3	109.00	2.850	204.88	3.749	21.800	15.700	7.500	0.80	0.50	0.000
150.00	4480 B71 + B85	3	93.00	2.850	188.91	3.749	21.800	15.700	7.500	0.80	0.50	0.000
150.00	(3) VFA12-HD	1	2322.0	50.700	5347.78	135.64	0.000	0.000	0.000	0.75	0.75	0.000
140.00	JMA Wireless MX08FRO665-21	3	64.50	12.490	446.82	14.415	72.000	20.000	8.000	0.80	0.74	0.000
140.00	Fujitsu TA08025-B604	3	63.90	1.960	130.45	2.697	15.800	15.000	7.900	0.80	0.67	0.000
140.00	Fujitsu TA08025-B605	3	75.00	1.960	143.75	2.697	15.800	15.000	9.100	0.80	0.67	0.000
140.00	Raycap RDIDC-9181-PF-48	1	21.90	2.010	91.89	2.757	16.600	14.600	8.500	1.00	1.00	0.000
140.00	(3) Commscope MTC3975083	1	1242.0	28.050	2837.45	74.377	0.000	0.000	0.000	0.75	1.00	0.000
	Totals:	**88**	**12,360.85**		**36,402.73**						**Number of Appurtenances :**	**35**

Loading Summary

Structure:	CT10017-A-SBA		**Code:**	EIA/TIA-222-G	11/29/2021
Site Name:	North Granby		**Exposure:**	B	
Height:	170.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	0.85	**Topography:** 1	**Struct Class:**	II	Page: 6

Tower Engineering Solutions

Linear Appurtenances Properties

Elev. From (ft)	Elev. To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	Pct In Block	Spread On Faces	Bundling Arrangement	Cluster Dia (in)	Out of Zone	Spacing (in)	Orientation Factor	Ka Override
0.00	170.00	1 5/8" Coax	7	1.98	1.04	50.00	2	Block		N	0.50	1.00	
0.00	170.00	1" DC	3	0.00	1.00	100.00	2	Individual NR		N	1.00	1.00	0
0.00	170.00	3" Conduit	3	3.00	1.78	100.00	2	Individual NR		N	1.00	1.00	
0.00	170.00	3/4" DC	2	0.00	0.40	100.00	2	Individual NR		N	1.00	1.00	0
0.00	170.00	3/8" RET	3	0.38	0.06	100.00	2	Individual NR		N	1.00	1.00	
0.00	170.00	7/16" Fiber	2	0.00	0.08	100.00	2	Individual NR		N	1.00	1.00	0
0.00	170.00	W/G Ladder	1	1.00	6.00	100.00	2	Individual NR		N	1.00	1.00	
0.00	160.00	1 5/8" Coax	10	1.98	1.04	100.00	2	Individual IR		N	1.00	1.00	
0.00	160.00	1 5/8" Hybrid	1	2.00	1.10	100.00	2	Individual IR		N	1.00	1.00	
0.00	160.00	1/2" Coax	1	0.65	0.16	100.00	2	Individual NR		N	1.00	1.00	
0.00	160.00	W/G Ladder	1	1.00	6.00	100.00	2	Individual NR		N	1.00	1.00	
0.00	150.00	1.9" Fiber	3	1.90	6.00	100.00	2	Individual NR		N	1.00	1.00	
0.00	140.00	1.6" Hybrid	1	1.60	1.82	100.00	1	Individual NR		N	1.00	1.00	
0.00	140.00	W/G Ladder	1	2.00	6.00	100.00	1	Individual NR		N	1.00	1.00	

Section Forces

Structure:	CT10017-A-SBA	**Code:**	EIA/TIA-222-G	11/29/2021	
Site Name:	North Granby	**Exposure:**	B		
Height:	170.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 7	

Tower Engineering Solutions

Load Case: 1.2D + 1.6W Normal Wind — 1.2D + 1.6W 93 mph Wind at Normal To Face

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

Dead Load Factor: 1.20

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

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	13.17	25.312	22.12	0.00	0.12	2.90	1.00	1.00	0.00	36.58	88.82	0.00	5,508.7	0.0	1901.26	1253.82	3,155.08
2	30.0	13.19	23.140	22.12	0.00	0.12	2.87	1.00	1.00	0.00	34.43	88.82	0.00	5,352.8	0.0	1774.87	1254.88	3,029.75
3	50.0	15.26	21.096	22.12	0.00	0.13	2.84	1.00	1.00	0.00	32.08	88.82	0.00	4,793.6	0.0	1890.70	1452.07	3,342.77
4	70.0	16.80	22.170	18.58	0.00	0.14	2.80	1.00	1.00	0.00	31.93	88.82	0.00	4,702.0	0.0	2040.60	1598.60	3,639.19
5	90.0	18.05	16.261	15.03	0.00	0.13	2.85	1.00	1.00	0.00	24.60	88.82	0.00	3,557.8	0.0	1719.88	1717.60	3,437.48
6	110.0	19.11	14.103	13.36	0.00	0.14	2.82	1.00	1.00	0.00	21.67	88.82	0.00	3,261.6	0.0	1586.24	1818.96	3,405.20
7	130.0	20.05	12.689	11.69	0.00	0.15	2.75	1.00	1.00	0.00	19.33	88.82	0.00	2,828.3	0.0	1451.25	1907.88	3,359.13
8	150.0	20.88	11.730	9.58	0.00	0.16	2.75	1.00	1.00	0.00	17.18	78.08	0.00	2,236.9	0.0	1340.74	1722.24	3,062.98
9	165.0	21.46	7.105	4.79	0.00	0.17	2.68	1.00	1.00	0.00	9.84	17.12	0.00	866.2	0.0	770.52	412.68	1,183.20
														33,107.8	**0.0**			**27,614.78**

Load Case: 1.2D + 1.6W 60° Wind — 1.2D + 1.6W 93 mph Wind at 60° From Face

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

Dead Load Factor: 1.20

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

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	13.17	25.312	22.12	0.00	0.12	2.90	0.80	1.00	0.00	31.51	88.82	0.00	5,508.7	0.0	1638.12	1253.82	2,891.94
2	30.0	13.19	23.140	22.12	0.00	0.12	2.87	0.80	1.00	0.00	29.80	88.82	0.00	5,352.8	0.0	1536.30	1254.88	2,791.18
3	50.0	15.26	21.096	22.12	0.00	0.13	2.84	0.80	1.00	0.00	27.86	88.82	0.00	4,793.6	0.0	1642.01	1452.07	3,094.08
4	70.0	16.80	22.170	18.58	0.00	0.14	2.80	0.80	1.00	0.00	27.50	88.82	0.00	4,702.0	0.0	1757.24	1598.60	3,355.84
5	90.0	18.05	16.261	15.03	0.00	0.13	2.85	0.80	1.00	0.00	21.35	88.82	0.00	3,557.8	0.0	1492.54	1717.60	3,210.15
6	110.0	19.11	14.103	13.36	0.00	0.14	2.82	0.80	1.00	0.00	18.85	88.82	0.00	3,261.6	0.0	1379.76	1818.96	3,198.72
7	130.0	20.05	12.689	11.69	0.00	0.15	2.75	0.80	1.00	0.00	16.79	88.82	0.00	2,828.3	0.0	1260.69	1907.88	3,168.57
8	150.0	20.88	11.730	9.58	0.00	0.16	2.75	0.80	1.00	0.00	14.83	78.08	0.00	2,236.9	0.0	1157.61	1722.24	2,879.85
9	165.0	21.46	7.105	4.79	0.00	0.17	2.68	0.80	1.00	0.00	8.42	17.12	0.00	866.2	0.0	659.24	412.68	1,071.91
														33,107.8	**0.0**			**25,662.24**

Section Forces

Structure:	CT10017-A-SBA	**Code:**	EIA/TIA-222-G	11/29/2021	
Site Name:	North Granby	**Exposure:**	B		
Height:	170.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 8	

Tower Engineering Solutions

Load Case: 1.2D + 1.6W 90° Wind — 1.2D + 1.6W 93 mph Wind at 90° From Face

Wind Load Factor: 1.60
Dead Load Factor: 1.20
Ice Dead Load Factor: 0.00
Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	13.17	25.312	22.12	0.00	0.12	2.90	0.85	1.00	0.00	32.78	88.82	0.00	5,508.7	0.0	1703.90	1253.82	2,957.72
2	30.0	13.19	23.140	22.12	0.00	0.12	2.87	0.85	1.00	0.00	30.96	88.82	0.00	5,352.8	0.0	1595.94	1254.88	2,850.82
3	50.0	15.26	21.096	22.12	0.00	0.13	2.84	0.85	1.00	0.00	28.91	88.82	0.00	4,793.6	0.0	1704.18	1452.07	3,156.25
4	70.0	16.80	22.170	18.58	0.00	0.14	2.80	0.85	1.00	0.00	28.61	88.82	0.00	4,702.0	0.0	1828.08	1598.60	3,426.68
5	90.0	18.05	16.261	15.03	0.00	0.13	2.85	0.85	1.00	0.00	22.17	88.82	0.00	3,557.8	0.0	1549.38	1717.60	3,266.98
6	110.0	19.11	14.103	13.36	0.00	0.14	2.82	0.85	1.00	0.00	19.55	88.82	0.00	3,261.6	0.0	1431.38	1818.96	3,250.34
7	130.0	20.05	12.689	11.69	0.00	0.15	2.75	0.85	1.00	0.00	17.42	88.82	0.00	2,828.3	0.0	1308.33	1907.88	3,216.21
8	150.0	20.88	11.730	9.58	0.00	0.16	2.75	0.85	1.00	0.00	15.42	78.08	0.00	2,236.9	0.0	1203.39	1722.24	2,925.63
9	165.0	21.46	7.105	4.79	0.00	0.17	2.68	0.85	1.00	0.00	8.77	17.12	0.00	866.2	0.0	687.06	412.68	1,099.74
														33,107.8	**0.0**			**26,150.37**

Load Case: 0.9D + 1.6W Normal Wind — 0.9D + 1.6W 93 mph Wind at Normal To Face

Wind Load Factor: 1.60
Dead Load Factor: 0.90
Ice Dead Load Factor: 0.00
Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	13.17	25.312	22.12	0.00	0.12	2.90	1.00	1.00	0.00	36.58	88.82	0.00	4,131.5	0.0	1901.26	1253.82	3,155.08
2	30.0	13.19	23.140	22.12	0.00	0.12	2.87	1.00	1.00	0.00	34.43	88.82	0.00	4,014.6	0.0	1774.87	1254.88	3,029.75
3	50.0	15.26	21.096	22.12	0.00	0.13	2.84	1.00	1.00	0.00	32.08	88.82	0.00	3,595.2	0.0	1890.70	1452.07	3,342.77
4	70.0	16.80	22.170	18.58	0.00	0.14	2.80	1.00	1.00	0.00	31.93	88.82	0.00	3,526.5	0.0	2040.60	1598.60	3,639.19
5	90.0	18.05	16.261	15.03	0.00	0.13	2.85	1.00	1.00	0.00	24.60	88.82	0.00	2,668.4	0.0	1719.88	1717.60	3,437.48
6	110.0	19.11	14.103	13.36	0.00	0.14	2.82	1.00	1.00	0.00	21.67	88.82	0.00	2,446.2	0.0	1586.24	1818.96	3,405.20
7	130.0	20.05	12.689	11.69	0.00	0.15	2.75	1.00	1.00	0.00	19.33	88.82	0.00	2,121.2	0.0	1451.25	1907.88	3,359.13
8	150.0	20.88	11.730	9.58	0.00	0.16	2.75	1.00	1.00	0.00	17.18	78.08	0.00	1,677.7	0.0	1340.74	1722.24	3,062.98
9	165.0	21.46	7.105	4.79	0.00	0.17	2.68	1.00	1.00	0.00	9.84	17.12	0.00	649.6	0.0	770.52	412.68	1,183.20
														24,830.9	**0.0**			**27,614.78**

Section Forces

Structure:	CT10017-A-SBA	**Code:**	EIA/TIA-222-G	11/29/2021	
Site Name:	North Granby	**Exposure:**	B		
Height:	170.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 9	

Tower Engineering Solutions

Load Case: 0.9D + 1.6W 60° Wind — 0.9D + 1.6W 93 mph Wind at 60° From Face

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

Dead Load Factor: 0.90

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

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	13.17	25.312	22.12	0.00	0.12	2.90	0.80	1.00	0.00	31.51	88.82	0.00	4,131.5	0.0	1638.12	1253.82	2,891.94
2	30.0	13.19	23.140	22.12	0.00	0.12	2.87	0.80	1.00	0.00	29.80	88.82	0.00	4,014.6	0.0	1536.30	1254.88	2,791.18
3	50.0	15.26	21.096	22.12	0.00	0.13	2.84	0.80	1.00	0.00	27.86	88.82	0.00	3,595.2	0.0	1642.01	1452.07	3,094.08
4	70.0	16.80	22.170	18.58	0.00	0.14	2.80	0.80	1.00	0.00	27.50	88.82	0.00	3,526.5	0.0	1757.24	1598.60	3,355.84
5	90.0	18.05	16.261	15.03	0.00	0.13	2.85	0.80	1.00	0.00	21.35	88.82	0.00	2,668.4	0.0	1492.54	1717.60	3,210.15
6	110.0	19.11	14.103	13.36	0.00	0.14	2.82	0.80	1.00	0.00	18.85	88.82	0.00	2,446.2	0.0	1379.76	1818.96	3,198.72
7	130.0	20.05	12.689	11.69	0.00	0.15	2.75	0.80	1.00	0.00	16.79	88.82	0.00	2,121.2	0.0	1260.69	1907.88	3,168.57
8	150.0	20.88	11.730	9.58	0.00	0.16	2.75	0.80	1.00	0.00	14.83	78.08	0.00	1,677.7	0.0	1157.61	1722.24	2,879.85
9	165.0	21.46	7.105	4.79	0.00	0.17	2.68	0.80	1.00	0.00	8.42	17.12	0.00	649.6	0.0	659.24	412.68	1,071.91
														24,830.9	**0.0**			**25,662.24**

Load Case: 0.9D + 1.6W 90° Wind — 0.9D + 1.6W 93 mph Wind at 90° From Face

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

Dead Load Factor: 0.90

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

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	13.17	25.312	22.12	0.00	0.12	2.90	0.85	1.00	0.00	32.78	88.82	0.00	4,131.5	0.0	1703.90	1253.82	2,957.72
2	30.0	13.19	23.140	22.12	0.00	0.12	2.87	0.85	1.00	0.00	30.96	88.82	0.00	4,014.6	0.0	1595.94	1254.88	2,850.82
3	50.0	15.26	21.096	22.12	0.00	0.13	2.84	0.85	1.00	0.00	28.91	88.82	0.00	3,595.2	0.0	1704.18	1452.07	3,156.25
4	70.0	16.80	22.170	18.58	0.00	0.14	2.80	0.85	1.00	0.00	28.61	88.82	0.00	3,526.5	0.0	1828.08	1598.60	3,426.68
5	90.0	18.05	16.261	15.03	0.00	0.13	2.85	0.85	1.00	0.00	22.17	88.82	0.00	2,668.4	0.0	1549.38	1717.60	3,266.98
6	110.0	19.11	14.103	13.36	0.00	0.14	2.82	0.85	1.00	0.00	19.55	88.82	0.00	2,446.2	0.0	1431.38	1818.96	3,250.34
7	130.0	20.05	12.689	11.69	0.00	0.15	2.75	0.85	1.00	0.00	17.42	88.82	0.00	2,121.2	0.0	1308.33	1907.88	3,216.21
8	150.0	20.88	11.730	9.58	0.00	0.16	2.75	0.85	1.00	0.00	15.42	78.08	0.00	1,677.7	0.0	1203.39	1722.24	2,925.63
9	165.0	21.46	7.105	4.79	0.00	0.17	2.68	0.85	1.00	0.00	8.77	17.12	0.00	649.6	0.0	687.06	412.68	1,099.74
														24,830.9	**0.0**			**26,150.37**

Section Forces

Structure:	CT10017-A-SBA	**Code:**	EIA/TIA-222-G	11/29/2021	
Site Name:	North Granby	**Exposure:**	B		
Height:	170.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 10	

Tower Engineering Solutions

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

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

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	3.81	25.312	60.30	38.18	0.21	2.58	1.00	1.00	1.77	60.02	118.41	165.6	14,645.	9136.7	500.39	764.12	1,264.52
2	30.0	3.81	23.140	62.27	40.15	0.23	2.51	1.00	1.00	1.98	59.24	121.84	184.9	15,692.	10339.5	481.18	804.83	1,286.01
3	50.0	4.41	21.096	61.95	39.82	0.25	2.44	1.00	1.00	2.08	57.30	123.57	194.5	15,600.	10807.3	525.14	944.72	1,469.86
4	70.0	4.86	22.170	65.85	47.27	0.30	2.29	1.00	1.00	2.16	61.63	117.57	208.4	16,195.	11493.2	583.13	1004.41	1,587.54
5	90.0	5.22	16.261	59.39	44.36	0.30	2.29	1.00	1.00	2.21	51.91	118.31	213.7	14,418.	10860.8	525.95	1094.42	1,620.36
6	110.0	5.52	14.103	54.63	41.27	0.33	2.21	1.00	1.00	2.26	47.41	118.90	218.0	13,964.	10702.4	492.62	1137.73	1,630.36
7	130.0	5.79	12.689	57.12	45.43	0.42	2.02	1.00	1.00	2.29	49.60	119.41	221.7	13,651.	10823.0	493.75	1072.01	1,565.76
8	150.0	6.04	11.730	57.31	47.73	0.48	1.93	1.00	1.00	2.33	50.35	101.34	205.5	12,283.	10046.5	498.30	872.78	1,371.09
9	165.0	6.20	7.105	32.35	27.56	0.55	1.85	1.00	1.00	2.35	30.13	24.95	50.90	4,477.9	3611.7	293.26	158.02	451.28
														120,929.1	**87821.2**			**12,246.77**

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

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

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	3.81	25.312	60.30	38.18	0.21	2.58	0.80	1.00	1.77	54.96	118.41	165.6	14,645.	9136.7	458.19	764.12	1,222.31
2	30.0	3.81	23.140	62.27	40.15	0.23	2.51	0.80	1.00	1.98	54.62	121.84	184.9	15,692.	10339.5	443.59	804.83	1,248.43
3	50.0	4.41	21.096	61.95	39.82	0.25	2.44	0.80	1.00	2.08	53.08	123.57	194.5	15,600.	10807.3	486.47	944.72	1,431.19
4	70.0	4.86	22.170	65.85	47.27	0.30	2.29	0.80	1.00	2.16	57.20	117.57	208.4	16,195.	11493.2	541.18	1004.41	1,545.59
5	90.0	5.22	16.261	59.39	44.36	0.30	2.29	0.80	1.00	2.21	48.65	118.31	213.7	14,418.	10860.8	492.99	1094.42	1,587.41
6	110.0	5.52	14.103	54.63	41.27	0.33	2.21	0.80	1.00	2.26	44.59	118.90	218.0	13,964.	10702.4	463.32	1137.73	1,601.05
7	130.0	5.79	12.689	57.12	45.43	0.42	2.02	0.80	1.00	2.29	47.07	119.41	221.7	13,651.	10823.0	468.49	1072.01	1,540.50
8	150.0	6.04	11.730	57.31	47.73	0.48	1.93	0.80	1.00	2.33	48.01	101.34	205.5	12,283.	10046.5	475.09	872.78	1,347.87
9	165.0	6.20	7.105	32.35	27.56	0.55	1.85	0.80	1.00	2.35	28.71	24.95	50.90	4,477.9	3611.7	279.43	158.02	437.45
														120,929.1	**87821.2**			**11,961.78**

Section Forces

Structure:	CT10017-A-SBA	**Code:**	EIA/TIA-222-G	11/29/2021	
Site Name:	North Granby	**Exposure:**	B		
Height:	170.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 11	

TES Tower Engineering Solutions

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

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

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	3.81	25.312	60.30	38.18	0.21	2.58	0.85	1.00	1.77	56.22	118.41	165.6	14,645.	9136.7	468.74	764.12	1,232.86
2	30.0	3.81	23.140	62.27	40.15	0.23	2.51	0.85	1.00	1.98	55.77	121.84	184.9	15,692.	10339.5	452.99	804.83	1,257.82
3	50.0	4.41	21.096	61.95	39.82	0.25	2.44	0.85	1.00	2.08	54.13	123.57	194.5	15,600.	10807.3	496.14	944.72	1,440.86
4	70.0	4.86	22.170	65.85	47.27	0.30	2.29	0.85	1.00	2.16	58.31	117.57	208.4	16,195.	11493.2	551.67	1004.41	1,556.08
5	90.0	5.22	16.261	59.39	44.36	0.30	2.29	0.85	1.00	2.21	49.47	118.31	213.7	14,418.	10860.8	501.23	1094.42	1,595.65
6	110.0	5.52	14.103	54.63	41.27	0.33	2.21	0.85	1.00	2.26	45.30	118.90	218.0	13,964.	10702.4	470.65	1137.73	1,608.38
7	130.0	5.79	12.689	57.12	45.43	0.42	2.02	0.85	1.00	2.29	47.70	119.41	221.7	13,651.	10823.0	474.81	1072.01	1,546.81
8	150.0	6.04	11.730	57.31	47.73	0.48	1.93	0.85	1.00	2.33	48.59	101.34	205.5	12,283.	10046.5	480.89	872.78	1,353.68
9	165.0	6.20	7.105	32.35	27.56	0.55	1.85	0.85	1.00	2.35	29.06	24.95	50.90	4,477.9	3611.7	282.88	158.02	440.90
														120,929.1	**87821.2**			**12,033.03**

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

Wind Load Factor: 1.00
Dead Load Factor: 1.00
Ice Dead Load Factor: 0.00
Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	5.48	25.312	22.12	0.00	0.12	2.90	1.00	1.00	0.00	37.81	88.82	0.00	4,590.6	0.0	511.28	326.18	837.45
2	30.0	5.49	23.140	22.12	0.00	0.12	2.87	1.00	1.00	0.00	35.64	88.82	0.00	4,460.6	0.0	478.00	326.45	804.45
3	50.0	6.35	21.096	22.12	0.00	0.13	2.84	1.00	1.00	0.00	33.62	88.82	0.00	3,994.6	0.0	515.44	377.75	893.19
4	70.0	6.99	22.170	18.58	0.00	0.14	2.80	1.00	1.00	0.00	32.70	88.82	0.00	3,918.4	0.0	543.63	415.87	959.50
5	90.0	7.51	16.261	15.03	0.00	0.13	2.85	1.00	1.00	0.00	24.76	88.82	0.00	2,964.8	0.0	450.31	446.83	897.13
6	110.0	7.96	14.103	13.36	0.00	0.14	2.82	1.00	1.00	0.00	21.67	88.82	0.00	2,718.0	0.0	412.65	473.19	885.85
7	130.0	8.34	12.689	11.69	0.00	0.15	2.75	1.00	1.00	0.00	19.33	88.82	0.00	2,356.9	0.0	377.54	496.33	873.86
8	150.0	8.69	11.730	9.58	0.00	0.16	2.75	1.00	1.00	0.00	17.18	78.08	0.00	1,864.1	0.0	348.79	448.03	796.82
9	165.0	8.93	7.105	4.79	0.00	0.17	2.68	1.00	1.00	0.00	9.84	17.12	0.00	721.8	0.0	200.45	107.36	307.80
														27,589.9	**0.0**			**7,256.07**

Section Forces

Structure:	CT10017-A-SBA	**Code:**	EIA/TIA-222-G	11/29/2021	
Site Name:	North Granby	**Exposure:**	B		
Height:	170.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 12	

TES Tower Engineering Solutions

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

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

Dead Load Factor: 1.00

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

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	5.48	25.312	22.12	0.00	0.12	2.90	0.80	1.00	0.00	32.75	88.82	0.00	4,590.6	0.0	442.82	326.18	769.00
2	30.0	5.49	23.140	22.12	0.00	0.12	2.87	0.80	1.00	0.00	31.02	88.82	0.00	4,460.6	0.0	415.94	326.45	742.39
3	50.0	6.35	21.096	22.12	0.00	0.13	2.84	0.80	1.00	0.00	29.40	88.82	0.00	3,994.6	0.0	450.75	377.75	828.50
4	70.0	6.99	22.170	18.58	0.00	0.14	2.80	0.80	1.00	0.00	28.27	88.82	0.00	3,918.4	0.0	469.92	415.87	885.79
5	90.0	7.51	16.261	15.03	0.00	0.13	2.85	0.80	1.00	0.00	21.51	88.82	0.00	2,964.8	0.0	391.17	446.83	837.99
6	110.0	7.96	14.103	13.36	0.00	0.14	2.82	0.80	1.00	0.00	18.85	88.82	0.00	2,718.0	0.0	358.94	473.19	832.13
7	130.0	8.34	12.689	11.69	0.00	0.15	2.75	0.80	1.00	0.00	16.79	88.82	0.00	2,356.9	0.0	327.96	496.33	824.29
8	150.0	8.69	11.730	9.58	0.00	0.16	2.75	0.80	1.00	0.00	14.83	78.08	0.00	1,864.1	0.0	301.15	448.03	749.18
9	165.0	8.93	7.105	4.79	0.00	0.17	2.68	0.80	1.00	0.00	8.42	17.12	0.00	721.8	0.0	171.50	107.36	278.85
														27,589.9	**0.0**			**6,748.13**

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

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

Dead Load Factor: 1.00

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

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	5.48	25.312	22.12	0.00	0.12	2.90	0.85	1.00	0.00	34.01	88.82	0.00	4,590.6	0.0	459.94	326.18	786.11
2	30.0	5.49	23.140	22.12	0.00	0.12	2.87	0.85	1.00	0.00	32.17	88.82	0.00	4,460.6	0.0	431.46	326.45	757.91
3	50.0	6.35	21.096	22.12	0.00	0.13	2.84	0.85	1.00	0.00	30.45	88.82	0.00	3,994.6	0.0	466.92	377.75	844.67
4	70.0	6.99	22.170	18.58	0.00	0.14	2.80	0.85	1.00	0.00	29.38	88.82	0.00	3,918.4	0.0	488.35	415.87	904.22
5	90.0	7.51	16.261	15.03	0.00	0.13	2.85	0.85	1.00	0.00	22.32	88.82	0.00	2,964.8	0.0	405.95	446.83	852.78
6	110.0	7.96	14.103	13.36	0.00	0.14	2.82	0.85	1.00	0.00	19.55	88.82	0.00	2,718.0	0.0	372.37	473.19	845.56
7	130.0	8.34	12.689	11.69	0.00	0.15	2.75	0.85	1.00	0.00	17.42	88.82	0.00	2,356.9	0.0	340.36	496.33	836.68
8	150.0	8.69	11.730	9.58	0.00	0.16	2.75	0.85	1.00	0.00	15.42	78.08	0.00	1,864.1	0.0	313.06	448.03	761.09
9	165.0	8.93	7.105	4.79	0.00	0.17	2.68	0.85	1.00	0.00	8.77	17.12	0.00	721.8	0.0	178.74	107.36	286.09
														27,589.9	**0.0**			**6,875.11**

Force/Stress Compression Summary

Structure:	CT10017-A-SBA	**Code:**	EIA/TIA-222-G	11/29/2021	
Site Name:	North Granby	**Exposure:**	B		
Height:	170.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 13	

TES Tower Engineering Solutions

LEG MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	Fy (ksi)	Mem Cap (kips)	Leg Use %	Controls
1	20	PX - 6" DIA PIPE	-232.83	1.2D + 1.6W Normal Wind	9.89	100	100	100	54.21	50.00	304.92	76.4	Member X
2	40	PX - 6" DIA PIPE	-209.87	1.2D + 1.6W Normal Wind	9.77	100	100	100	53.51	50.00	306.60	68.5	Member X
3	60	PSP - ROHN 6 EHS	-185.71	1.2D + 1.6W Normal Wind	9.77	100	100	100	52.68	50.00	246.61	75.3	Member X
4	80	PX - 5" DIA PIPE	-163.26	1.2D + 1.6W Normal Wind	6.51	100	100	100	42.47	50.00	240.98	67.7	Member X
5	100	PX - 4" DIA PIPE	-137.86	1.2D + 1.6W Normal Wind	6.51	100	100	100	52.80	50.00	161.86	85.2	Member X
6	120	PX - 3-1/2" DIA PIPE	-111.00	1.2D + 1.6W Normal Wind	6.51	100	100	100	59.65	50.00	127.67	86.9	Member X
7	140	PST - 3" DIA PIPE	-82.16	1.2D + 1.6W Normal Wind	4.88	100	100	100	50.52	50.00	83.27	98.7	Member X
8	160	PST - 2-1/2" DIA PIPE	-44.57	1.2D + 1.6W Normal Wind	3.90	100	100	100	49.42	50.00	64.14	69.5	Member X
9	170	PST - 2-1/2" DIA PIPE	-9.23	1.2D + 1.6W Normal Wind	0.25	100	100	100	3.17	50.00	76.62	12.0	Member X

Splices

Sect	Top Elev	Top Splice Load Case	Top Force (kips)	Top Cap (kips)	Top Use %	Top Bolt Type	Top Num Bolts	Bottom Splice Load Case	Bottom Force (kips)	Bottom Cap (kips)	Bottom Use %	Bottom Bolt Type	Bottom Num Bolts
1	20	1.2D + 1.6W Normal Wind	217.15	0.00	0.0			1.2D + 1.6W Normal Wind	238.58	0.00			
2	40	1.2D + 1.6W Normal Wind	192.51	0.00	0.0			1.2D + 1.6W Normal Wind	217.15	0.00		1 A325	6
3	60	1.2D + 1.6W Normal Wind	168.30	0.00	0.0			1.2D + 1.6W Normal Wind	192.51	0.00		1 A325	6
4	80	1.2D + 1.6W Normal Wind	142.95	0.00	0.0			1.2D + 1.6W Normal Wind	168.30	0.00		1 A325	6
5	100	1.2D + 1.6W Normal Wind	116.52	0.00	0.0			1.2D + 1.6W Normal Wind	142.95	0.00		1 A325	6
6	120	1.2D + 1.6W Normal Wind	86.76	0.00	0.0			1.2D + 1.6W Normal Wind	116.52	0.00		7/8 A325	4
7	140	1.2D + 1.6W Normal Wind	50.80	0.00	0.0			1.2D + 1.6W Normal Wind	86.76	0.00		7/8 A325	4
8	160	1.2D + 1.0Di + 1.0Wi Normal Wi	11.51	0.00	0.0			1.2D + 1.6W Normal Wind	50.80	0.00		3/4 A325	4
9	170	1.2D + 1.0Di + 1.0Wi 90° Wind	3.88	0.00	0.0			1.2D + 1.0Di + 1.0Wi Normal Wi	11.51	0.00		5/8 A325	4

HORIZONTAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	Use %	Controls
1	20										0.00	0	0				
2	40										0.00	0	0				
3	60										0.00	0	0				
4	80										0.00	0	0				
5	100										0.00	0	0				
6	120										0.00	0	0				
7	140	SAE - 2X2X0.1875	-0.49	1.2D + 1.6W 60° Wind	6.58	100	100	100	200.41	36.00	3.99	1	1	12.43	7.84	12	Member Z
8	160	SAE - 1.75X1.75X0.1875	-0.27	0.9D + 1.6W 60° Wind	6.58	100	100	100	230.20	36.00	2.64	1	1	12.43	7.84	10	Member Z
9	170	SAE - 1.75X1.75X0.1875	-0.63	0.9D + 1.6W 60° Wind	6.58	100	100	100	230.20	36.00	2.64	1	1	12.43	11.09	24	Member Z

DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	Use %	Controls
1	20	SAE - 3.5X3.5X0.25	-6.26	1.2D + 1.6W 90° Wind	22.71	49	49	49	192.40	50.00	10.31	1	1	17.89	14.1	61	Member Z
2	40	SAE - 3.5X3.5X0.25	-6.61	1.2D + 1.6W 90° Wind	20.81	49	49	49	176.28	50.00	12.29	1	1	17.89	14.1	54	Member Z
3	60	SAE - 3.5X3.5X0.25	-6.11	1.2D + 1.6W 90° Wind	18.20	49	49	49	154.20	50.00	16.06	1	1	17.89	14.1	43	Bolt Bear
4	80	SAE - 3X3X0.25	-5.40	1.2D + 1.6W 90° Wind	14.63	49	49	49	145.32	50.00	15.41	1	1	12.43	11.7	46	Bolt Bear
5	100	SAE - 2.5X2.5X0.1875	-5.12	1.2D + 1.6W 90° Wind	12.79	49	49	49	151.95	36.00	8.83	1	1	12.43	7.84	65	Bolt Bear
6	120	SAE - 2.5X2.5X0.1875	-5.21	1.2D + 1.6W 90° Wind	11.06	49	49	49	131.42	36.00	11.77	1	1	12.43	7.84	66	Bolt Bear
7	140	SAE - 2X2X0.1875	-5.21	1.2D + 1.6W 90° Wind	8.41	48	48	48	122.93	36.00	10.38	1	1	12.43	7.84	67	Bolt Bear
8	160	SAE - 1.75X1.75X0.1875	-5.33	1.2D + 1.6W 90° Wind	7.65	46	46	46	123.10	36.00	9.05	1	1	12.43	7.84	68	Bolt Bear
9	170	SAE - 1.75X1.75X0.1875	-1.93	1.2D + 1.6W 90° Wind	7.30	46	46	46	118.14	36.00	9.63	1	1	12.43	11.0	20	Member Z

Force/Stress Compression Summary

Structure:	CT10017-A-SBA	**Code:**	EIA/TIA-222-G	11/29/2021	
Site Name:	North Granby	**Exposure:**	B		
Height:	170.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 14	

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DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	Use %	Controls

Force/Stress Tension Summary

Structure:	CT10017-A-SBA	**Code:**	EIA/TIA-222-G	11/29/2021	
Site Name:	North Granby	**Exposure:**	B		
Height:	170.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 15	

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LEG MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Leg Use %	Controls
1	20	PX - 6" DIA PIPE	196.85	0.9D + 1.6W 60° Wind	50	378.00	52.1	Member
2	40	PX - 6" DIA PIPE	183.89	0.9D + 1.6W 60° Wind	50	378.00	48.6	Member
3	60	PSP - ROHN 6 EHS	163.79	0.9D + 1.6W 60° Wind	50	302.09	54.2	Member
4	80	PX - 5" DIA PIPE	143.64	0.9D + 1.6W 60° Wind	50	274.95	52.2	Member
5	100	PX - 4" DIA PIPE	122.33	0.9D + 1.6W 60° Wind	50	198.45	61.6	Member
6	120	PX - 3-1/2" DIA PIPE	99.17	0.9D + 1.6W 60° Wind	50	165.60	59.9	Member
7	140	PST - 3" DIA PIPE	72.42	0.9D + 1.6W 60° Wind	50	100.35	72.2	Member
8	160	PST - 2-1/2" DIA PIPE	39.43	0.9D + 1.6W 60° Wind	50	76.68	51.4	Member
9	170	PST - 2-1/2" DIA PIPE	6.29	0.9D + 1.6W 60° Wind	50	76.68	8.2	Member

Splices

		Top Splice					Bottom Splice				
Sect	Top Elev	Load Case	Force (kips)	Cap (kips)	Use %	Bolt Type	Num Bolts	Load Case	Force (kips)	Cap (kips)	Use %	Bolt Type	Num Bolts
1	20	0.9D + 1.6W 60° Wind	183.58	0.00	0.0			0.9D + 1.6W 60° Wind	202.0	0.00			
2	40	0.9D + 1.6W 60° Wind	163.44	0.00	0.0			0.9D + 1.6W 60° Wind	183.5	318.06	57.7	1 A325	6
3	60	0.9D + 1.6W 60° Wind	143.36	0.00	0.0			0.9D + 1.6W 60° Wind	163.4	318.06	51.4	1 A325	6
4	80	0.9D + 1.6W 60° Wind	122.11	0.00	0.0			0.9D + 1.6W 60° Wind	143.3	318.06	45.1	1 A325	6
5	100	0.9D + 1.6W 60° Wind	99.01	0.00	0.0			0.9D + 1.6W 60° Wind	122.1	318.06	38.4	1 A325	6
6	120	0.9D + 1.6W 60° Wind	72.28	0.00	0.0			0.9D + 1.6W 60° Wind	99.01	166.24	59.6	7/8 A325	4
7	140	0.9D + 1.6W 60° Wind	39.14	0.00	0.0			0.9D + 1.6W 60° Wind	72.28	166.24	43.5	7/8 A325	4
8	160	0.9D + 1.6W 60° Wind	5.22	0.00	0.0			0.9D + 1.6W 60° Wind	39.14	120.40	32.5	3/4 A325	4
9	170		0.00	0.00	0.0			0.9D + 1.6W 60° Wind	5.22	82.80	6.3	5/8 A325	4

HORIZONTAL MEMBERS

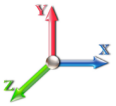
Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	B.S. Cap (kips)	Use %	Controls
1	20	-			50	0.00	0	0					
2	40	-			50	0.00	0	0					
3	60	-			50	0.00	0	0					
4	80	-			50	0.00	0	0					
5	100	-			36	0.00	0	0					
6	120	-			36	0.00	0	0					
7	140	SAE - 2X2X0.1875	0.34	0.9D + 1.6W Normal Wi	36	18.58	1	1	12.43	7.84	7.85	4.3	Bolt Bear
8	160	SAE - 1.75X1.75X0.1875	0.39	1.2D + 1.6W Normal Wi	36	15.64	1	1	12.43	7.84	6.83	5.8	Blck Shear
9	170	SAE - 1.75X1.75X0.1875	0.66	1.2D + 1.6W Normal Wi	36	15.64	1	1	12.43	11.09	6.86	9.6	Blck Shear

DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	B.S. Cap (kips)	Use %	Controls
1	20	SAE - 3.5X3.5X0.25	6.43	0.9D + 1.6W 90° Wind	50	53.79	1	1	17.89	14.14	24.07	45.5	Bolt Bear
2	40	SAE - 3.5X3.5X0.25	6.53	0.9D + 1.6W 90° Wind	50	53.79	1	1	17.89	14.14	24.07	46.2	Bolt Bear
3	60	SAE - 3.5X3.5X0.25	5.88	0.9D + 1.6W 90° Wind	50	53.79	1	1	17.89	14.14	24.07	41.6	Bolt Bear
4	80	SAE - 3X3X0.25	5.25	0.9D + 1.6W 90° Wind	50	45.79	1	1	12.43	11.71	17.83	44.8	Bolt Bear
5	100	SAE - 2.5X2.5X0.1875	4.99	1.2D + 1.6W 90° Wind	36	24.84	1	1	12.43	7.84	9.89	63.7	Bolt Bear
6	120	SAE - 2.5X2.5X0.1875	4.99	1.2D + 1.6W 90° Wind	36	24.84	1	1	12.43	7.84	9.89	63.7	Bolt Bear
7	140	SAE - 2X2X0.1875	4.90	0.9D + 1.6W 90° Wind	36	18.58	1	1	12.43	7.84	7.85	62.5	Bolt Bear
8	160	SAE - 1.75X1.75X0.1875	5.20	1.2D + 1.6W 90° Wind	36	15.64	1	1	12.43	7.84	6.83	76.1	Blck Shear
9	170	SAE - 1.75X1.75X0.1875	1.89	1.2D + 1.6W 90° Wind	36	15.64	1	1	12.43	11.09	6.86	27.6	Blck Shear

Seismic Section Forces

Structure:	CT10017-A-SBA	**Code:**	EIA/TIA-222-G	11/29/2021	
Site Name:	North Granby	**Exposure:**	B		
Height:	170.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	0.85 **Topography:** 1	**Struct Class:**	II	Page: 16	



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Load Case: 1.2D + 1.0E

Dead Load Factor	1.20	**Sds**	0.187	**Ss**	0.1760	**Fa**	1.6000	**Ke**	0.0000
Seismic Load Factor	1.00	**Sd1**	0.104	**S1**	0.0650	**Fv**	2.4000	**Kg**	0.0000
Seismic Importance Factor	1.00	**SA**	0.187	**R**	3.0000	**Vs**	2.9907	**f1**	1.7986

Sect #	Elev (ft)	Wz (lb)	a	b	c	Lateral Fsz (lb)
1	10.00	4590.5	0.01	0.05	0.03	15.67
2	30.00	4460.6	0.06	0.07	0.04	35.69
3	50.00	3994.6	0.16	0.07	0.03	56.69
4	70.00	3918.3	0.32	0.04	0.01	87.83
5	90.00	2964.8	0.53	-0.03	0.01	92.54
6	110.00	2718.0	0.79	-0.11	0.05	112.47
7	130.00	4230.9	1.11	-0.07	0.19	250.95
8	150.00	8998.2	1.47	0.43	0.51	870.59
9	165.00	4074.4	1.78	1.45	0.94	590.01

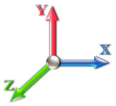
Load Case: 0.9D + 1.0E

Dead Load Factor	0.90	**Sds**	0.187	**Ss**	0.1760	**Fa**	1.6000	**Ke**	0.0000
Seismic Load Factor	1.00	**Sd1**	0.104	**S1**	0.0650	**Fv**	2.4000	**Kg**	0.0000
Seismic Importance Factor	1.00	**SA**	0.187	**R**	3.0000	**Vs**	2.9907	**f1**	1.7986

Sect #	Elev (ft)	Wz (lb)	a	b	c	Lateral Fsz (lb)
1	10.00	4590.5	0.01	0.05	0.03	15.67
2	30.00	4460.6	0.06	0.07	0.04	35.69
3	50.00	3994.6	0.16	0.07	0.03	56.69
4	70.00	3918.3	0.32	0.04	0.01	87.83
5	90.00	2964.8	0.53	-0.03	0.01	92.54
6	110.00	2718.0	0.79	-0.11	0.05	112.47
7	130.00	4230.9	1.11	-0.07	0.19	250.95
8	150.00	8998.2	1.47	0.43	0.51	870.59
9	165.00	4074.4	1.78	1.45	0.94	590.01

Support Forces Summary

Structure:	CT10017-A-SBA		**Code:**	EIA/TIA-222-G	11/29/2021
Site Name:	North Granby		**Exposure:**	B	
Height:	170.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	0.85	**Topography:** 1	**Struct Class:**	II	Page: 17



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Load Case	Node	FX (kips)	FY (kips)	FZ (kips)	(-) = Uplift (+) = Down
1.2D + 1.6W Normal Wind	1	0.00	238.06	-23.74	
	1a	7.95	-95.06	-7.10	
	1b	-7.95	-95.06	-7.10	
1.2D + 1.6W 60° Wind	1	-2.03	122.60	-11.79	
	1a	-11.22	122.60	4.14	
	1b	-17.92	-197.26	-10.35	
1.2D + 1.6W 90° Wind	1	-2.38	15.98	-0.95	
	1a	-17.89	202.56	8.94	
	1b	-16.21	-170.61	-7.99	
0.9D + 1.6W Normal Wind	1	0.00	233.64	-23.48	
	1a	8.17	-98.84	-7.23	
	1b	-8.17	-98.84	-7.23	
0.9D + 1.6W 60° Wind	1	-2.03	118.40	-11.53	
	1a	-11.00	118.40	4.00	
	1b	-18.14	-200.84	-10.47	
0.9D + 1.6W 90° Wind	1	-2.39	11.99	-0.69	
	1a	-17.66	198.21	8.81	
	1b	-16.43	-174.24	-8.12	
1.2D + 1.0Di + 1.0Wi Normal Wind	1	0.00	141.69	-10.83	
	1a	2.27	7.34	-2.36	
	1b	-2.27	7.34	-2.36	
1.2D + 1.0Di + 1.0Wi 60° Wind	1	-0.88	96.29	-6.09	
	1a	-5.71	96.29	2.28	
	1b	-6.61	-36.19	-3.82	
1.2D + 1.0Di + 1.0Wi 90° Wind	1	-1.03	52.13	-1.51	
	1a	-8.46	128.88	4.29	
	1b	-5.84	-24.63	-2.78	
1.2D + 1.0E	1	0.00	32.13	1.65	
	1a	3.16	7.90	-1.87	
	1b	-3.16	7.90	-1.87	
0.9D + 1.0E	1	0.00	28.11	1.92	
	1a	3.38	3.92	-2.00	
	1b	-3.38	3.92	-2.00	
1.0D + 1.0W Normal Wind	1	0.00	71.16	-6.81	
	1a	1.56	-15.61	-1.56	
	1b	-1.56	-15.61	-1.56	
1.0D + 1.0W 60° Wind	1	-0.54	41.07	-3.68	
	1a	-3.46	41.07	1.38	
	1b	-4.17	-42.19	-2.41	
1.0D + 1.0W 90° Wind	1	-0.63	13.32	-0.85	
	1a	-5.20	61.92	2.64	
	1b	-3.73	-35.29	-1.79	

[Max Reactions]

Leg			Overturning		
Max Uplift:	-200.84	(kips)	Moment:	4031.16	(ft-kips)
Max Down:	238.06	(kips)	Total Down:	47.94	(kips)
Max Shear:	23.74	(kips)	Total Shear:	37.94	(kips)

Max Reactions

Leg			Overturning		
Max Uplift:	-200.84	(kips)	Moment:	4031.16	(ft-kips)
Max Down:	238.06	(kips)	Total Down:	47.94	(kips)
Max Shear:	23.74	(kips)	Total Shear:	37.94	(kips)

Anchor Bolts

Bolt Size (in.):	1.00	Number Bolts:	8
Yield Strength (Ksi):	109.00	Tensile Strength (Ksi):	125.00
Detail Type:	C		

Interaction Ratio: 0.50

Max Usages

Max Leg: 98.7% (1.2D + 1.6W Normal Wind - Sect 7)
Max Diag: 76.1% (1.2D + 1.6W 90° Wind - Sect 8)
Max Horiz: 23.7% (0.9D + 1.6W 60° Wind - Sect 9)

Max Deflection, Twist and Sway

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)
0.9D + 1.0E - Normal To Face	140.00	0.0836	0.0021	0.1163
	148.05	0.0971	0.0019	0.1011
	160.00	0.1185	0.0016	0.1191
	170.00	0.1366	0.0016	0.1051
0.9D + 1.6W 93 mph Wind at 60° From Face	140.00	0.9595	-0.0483	1.2197
	148.05	1.1039	-0.0474	1.0661
	160.00	1.3306	-0.0481	1.2617
	170.00	1.5243	-0.0476	1.1876
0.9D + 1.6W 93 mph Wind at 90° From Face	140.00	0.9672	-0.0543	1.2034
	148.05	1.1125	-0.0543	1.0744
	160.00	1.3407	-0.0543	1.2488
	170.00	1.5356	-0.0542	1.1868
0.9D + 1.6W 93 mph Wind at Normal To Face	140.00	0.9909	0.0485	1.2620
	148.05	1.1391	0.0493	1.0957
	160.00	1.3719	0.0485	1.2935
	170.00	1.5707	0.0489	1.2147
1.0D + 1.0W 60 mph Wind at 60° From Face	140.00	0.2497	-0.0102	0.3202
	148.05	0.2872	-0.0096	0.2789
	160.00	0.3462	-0.0089	0.3293
	170.00	0.3966	-0.0086	0.3100
1.0D + 1.0W 60 mph Wind at 90° From Face	140.00	0.2519	-0.0121	0.3141
	148.05	0.2897	-0.0116	0.2809
	160.00	0.3492	-0.0109	0.3262
	170.00	0.4000	-0.0107	0.3101

1.0D + 1.0W 60 mph Wind at Normal To Face	140.00	0.2582	-0.0110	0.3259
	148.05	0.2968	-0.0106	0.2863
	160.00	0.3575	-0.0099	0.3359
	170.00	0.4093	-0.0097	0.3155
1.2D + 1.0Di + 1.0Wi 50 mph Wind at 60° From Face	140.00	0.3875	-0.0174	0.4839
	148.05	0.4436	-0.0170	0.4213
	160.00	0.5319	-0.0167	0.4894
	170.00	0.6069	-0.0166	0.4604
1.2D + 1.0Di + 1.0Wi 50 mph Wind at 90° From Face	140.00	0.3885	-0.0204	0.4722
	148.05	0.4448	-0.0202	0.4216
	160.00	0.5332	-0.0200	0.4824
	170.00	0.6084	-0.0199	0.4582
1.2D + 1.0Di + 1.0Wi 50 mph Wind at Normal From Face	140.00	0.3915	0.0182	0.4760
	148.05	0.4482	0.0181	0.4227
	160.00	0.5372	0.0177	0.4854
	170.00	0.6130	0.0177	0.4551
1.2D + 1.0E - Normal To Face	140.00	0.0839	-0.0021	0.1162
	148.05	0.0974	-0.0019	0.1017
	160.00	0.1189	-0.0017	0.1192
	170.00	0.1371	-0.0016	0.1053
1.2D + 1.6W 93 mph Wind at 60° From Face	140.00	0.9625	-0.0485	1.2258
	148.05	1.1074	-0.0476	1.0705
	160.00	1.3352	-0.0483	1.2676
	170.00	1.5296	-0.0479	1.1931
1.2D + 1.6W 93 mph Wind at 90° From Face	140.00	0.9702	-0.0546	1.2082
	148.05	1.1161	-0.0545	1.0788
	160.00	1.3452	-0.0545	1.2546
	170.00	1.5409	-0.0545	1.1923
1.2D + 1.6W 93 mph Wind at Normal To Face	140.00	0.9940	0.0487	1.2671
	148.05	1.1427	0.0496	1.1006
	160.00	1.3765	0.0487	1.2989
	170.00	1.5762	0.0491	1.2195

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

Replacement Antenna Mount Analysis Report and PMI Requirements

Mount Analysis-R

SMART Tool Project #: 10108865
Maser Consulting Project #: 21777061A (Rev. 1)

October 25, 2021

Site Information	*Site ID:*	*467704-VZW / NORTH GRANBY CT*
	Site Name:	*NORTH GRANBY CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*150 Lost Acres h* *North Grandby, Connecticut 06035* *Hartford County*
	Latitude:	*42.009600°*
	Longitude:	*-72.865989°*
Structure Information	*Tower Type:*	*Self-Support*
	Mount Type:	*12.50-Ft Sector Frame*

FUZE ID # 16272651

Analysis Results

Sector Frame: **51.0% Pass**

******Contractor PMI Requirements*:**
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
Contractor - Please Review Specific Site PMI Requirements Upon Award
Requirements may also be Noted on A & E drawings
For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Cody Sherman

Digitally signed by Justin Linette
Date: 2021.10.25 21:18:31-04'00'

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 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: 674995, dated October 7, 2021*
Mount Mapping Report	*RKS Design & Engineering LLC, Site ID, SBA: CT10017, VZW:467704, dated March 22, 2021*
Previous Mount Analysis	*Maser Consulting, Project #: 21777061A Rev. 1, dated October 12, 2021*
Mount Specification	*Site Pro 1, P/N # VFA12-HD*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	115 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.50 in
	Risk Category:	II
	Exposure Category:	B
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.977
Seismic Parameters:	S_S:	0.167
	S_1:	0.054
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, Lv:	250 lbs.
	Maintenance Live Load, Lm:	500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
160.00	160.00	6	Commscope	NHH-65B-R2B	Added
		3	Samsung	MT6407-77A	
		1	Raycap	RVZDC-6627-PF-48	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4440d-13A	
		2	Amphenol Antel	BXA-70063-6CF-2	Retained
		1	Antel	BXA-70063-4CF	

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-B1-12AB-0Z	6	OVP-6
RVZDC-6627-PF-48	12	OVP-12

BASELINE mount weight per SBA agreement: 597.79 lbs

Increase in mount weight due to Verizon loading change per SBA agreement: No Change

The weights listed above include 1 sector(s).

Standard Conditions:

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

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

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
Face Horizontal	*27.0%*	*Pass*
Standoff Plate	*51.0%*	*Pass*
Standoff Horizontal	*20.0%*	*Pass*
Standoff Diagonal	*9.0%*	*Pass*
Mount Pipe	*39.0%*	*Pass*
Standoff Vertical	*4.0%*	*Pass*
Tieback	*8.0%*	*Pass*
Mount Connection	*12.0%*	*Pass*

Structure Rating – *(Controlling Utilization of all Components)*	**51.0%**

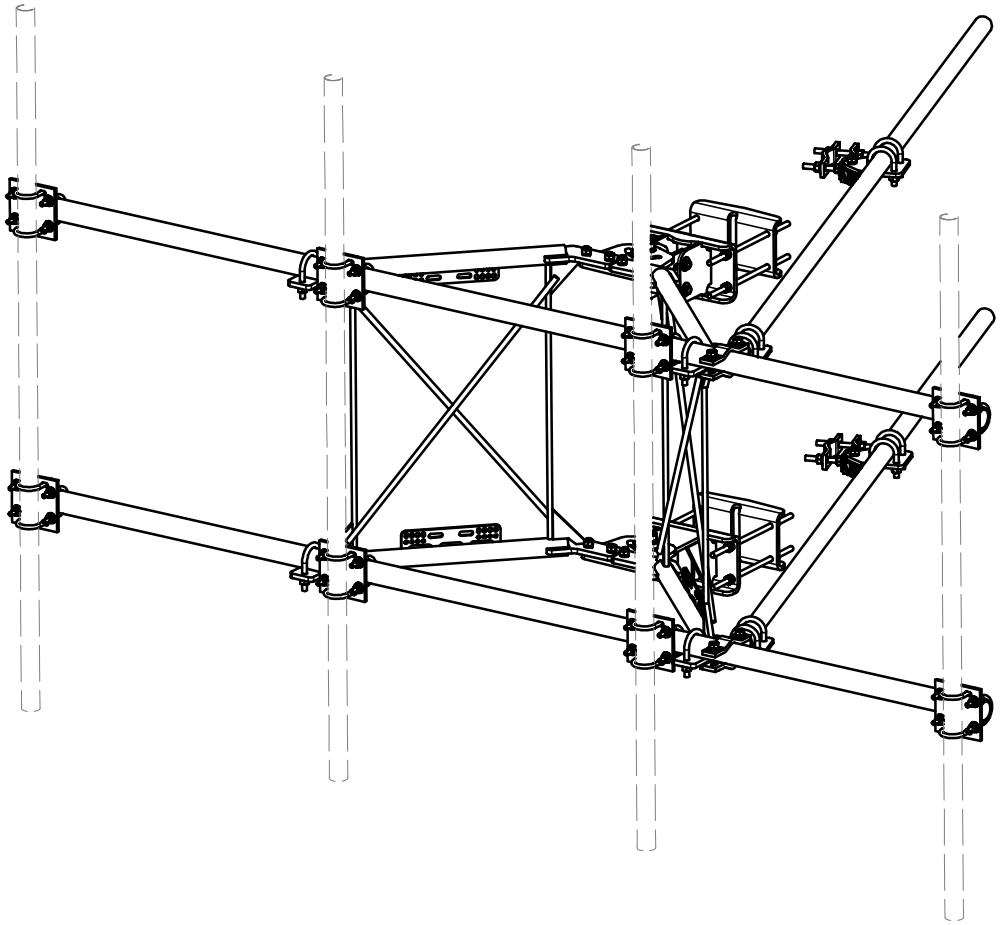
Recommendation:

The proposed antenna mounts are **SUFFICIENT** for the final loading configuration and do not require modifications.

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

Attachments:

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



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

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

REVISION HISTORY

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES *(± 0.030")*
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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:
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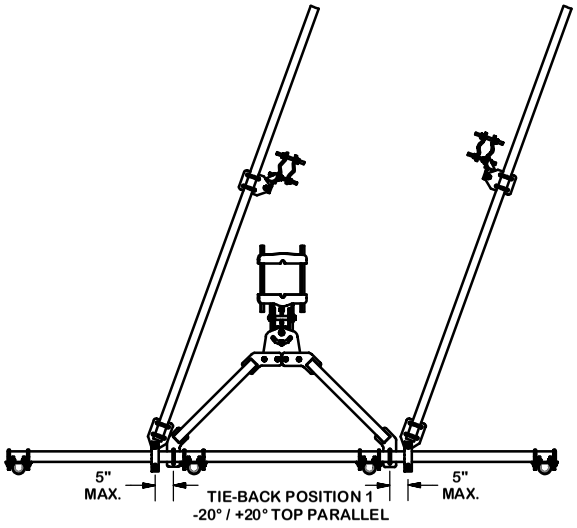
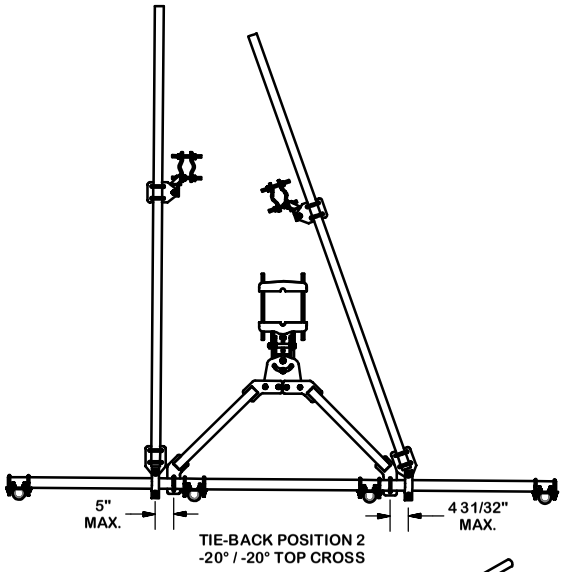
	CEK 1/25/2017		VFA12-HD

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

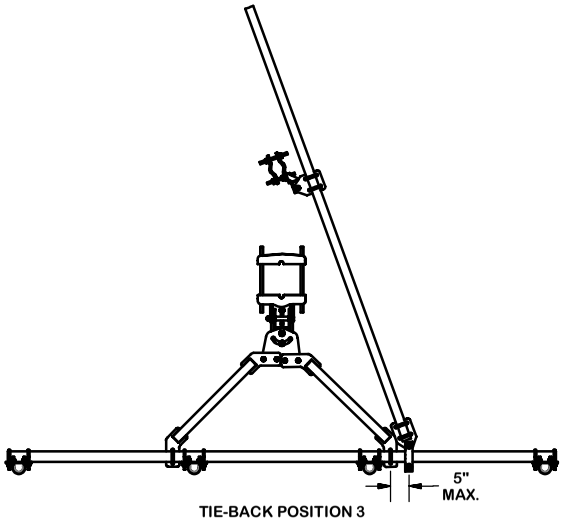
TIE-BACK POSITIONS



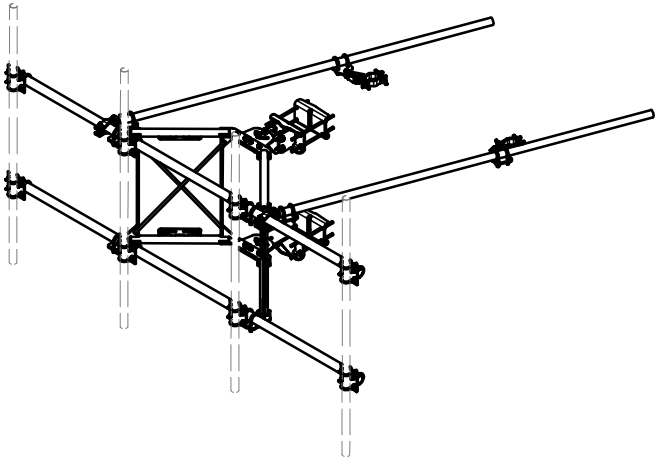
TIE-BACK POSITION 1
-20° / +20° TOP PARALLEL

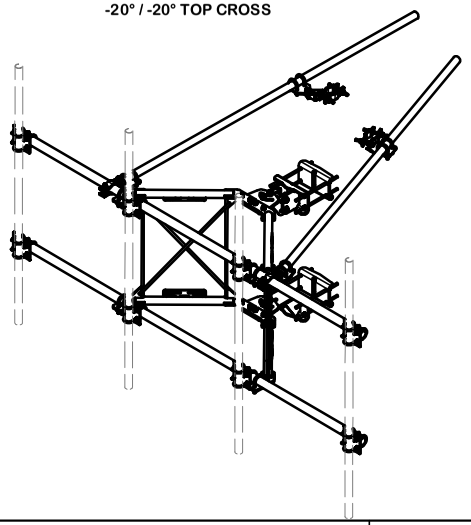


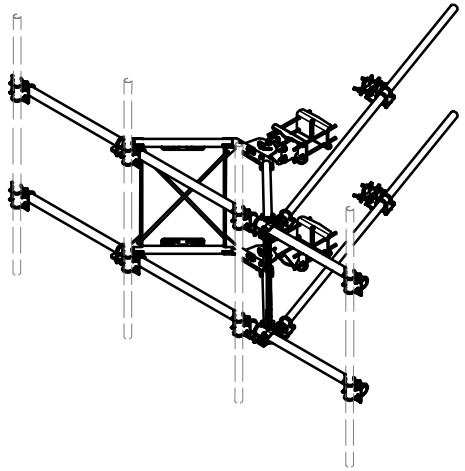
TIE-BACK POSITION 2
-20° / -20° TOP CROSS



TIE-BACK POSITION 3
-20° SAME SIDE STACKED







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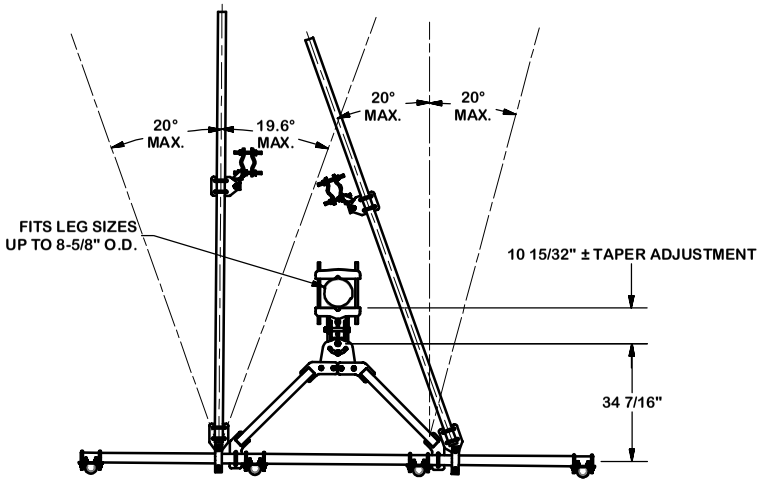
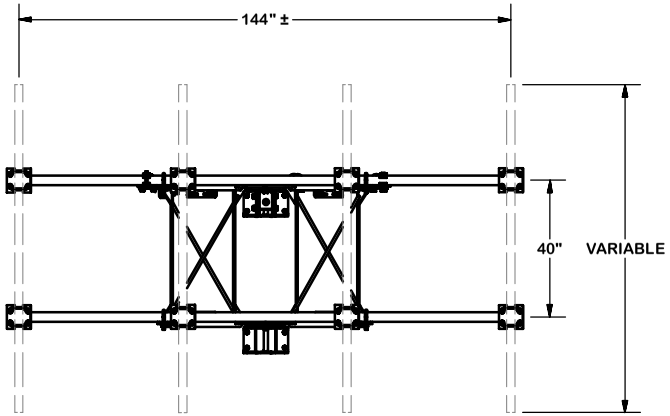
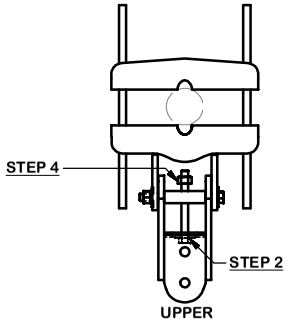
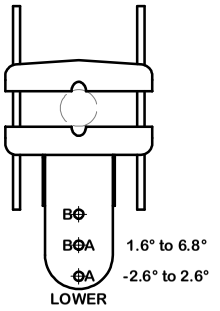


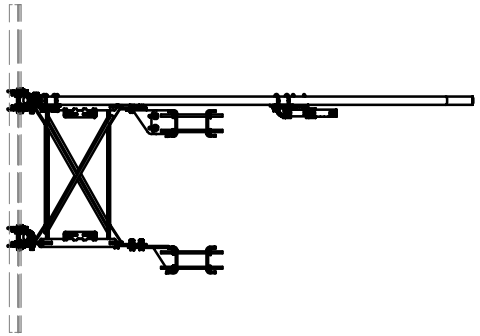


ANGLE CALIBRATING PROCEDURE:

1. MEASURE TOWER TAPER AND PICK LOWER BRACKET HOLE:
   HOLE A = -2.6° TO 2.6°
   HOLE B = 1.6° TO 6.8°
2. USE CALIBRATING BOLT TO ADJUST FRAME TO DESIRED TAPER
3. TORQUE LOCKING BOLTS TO 100 ft.-lbs.
4. ADVANCE LOCKING NUT TO POSITIONING PLATE, THEN TIGHTEN.







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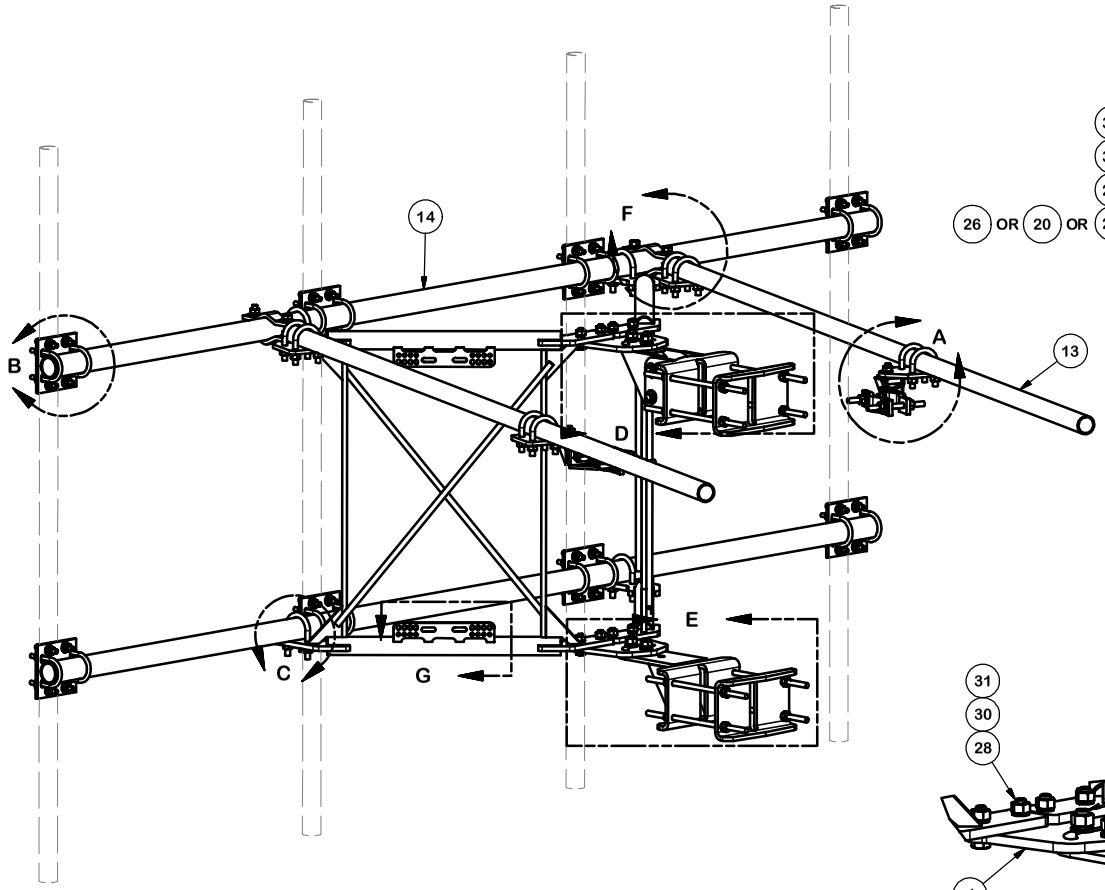
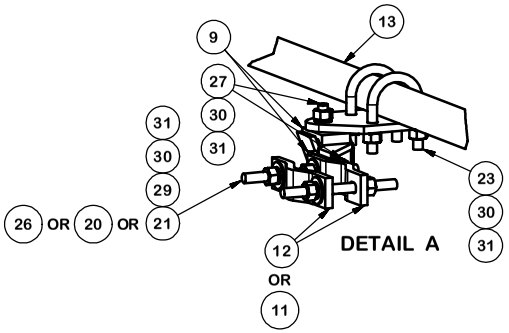
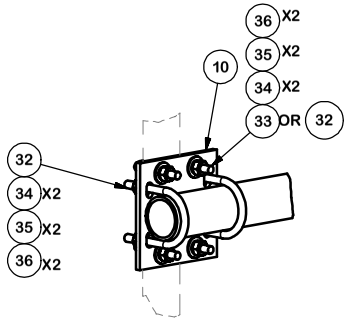
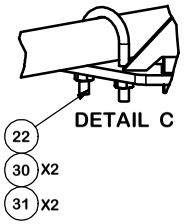
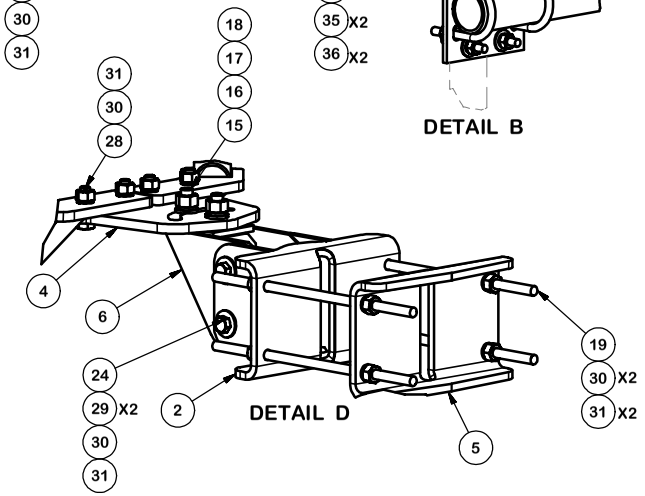
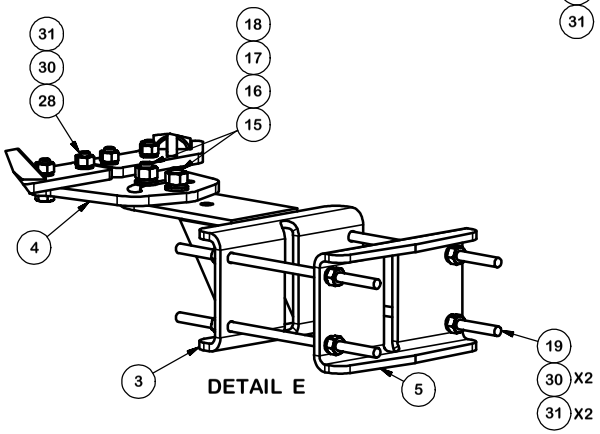


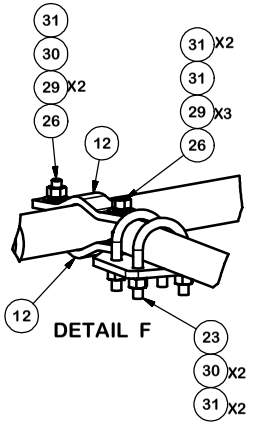


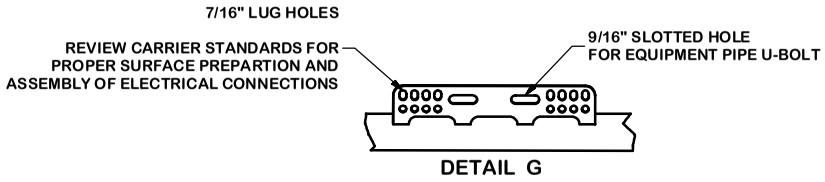












REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
D	UPDATED BCAM VERSION 1 TO BCAM VERSION 2		CEK	6/29/2018
C	UPDATED PIN LEG CONNECTION TO B-CAM CONNECTION		CEK	12/7/2017
B	CHANGED TIE-BACK BACK CONNECTION		CEK	7/31/2017
A	CHANGED TIE-BACK FRONT CONNECTION		CEK	2/2/2017

REVISION HISTORY

TOLERANCE NOTES

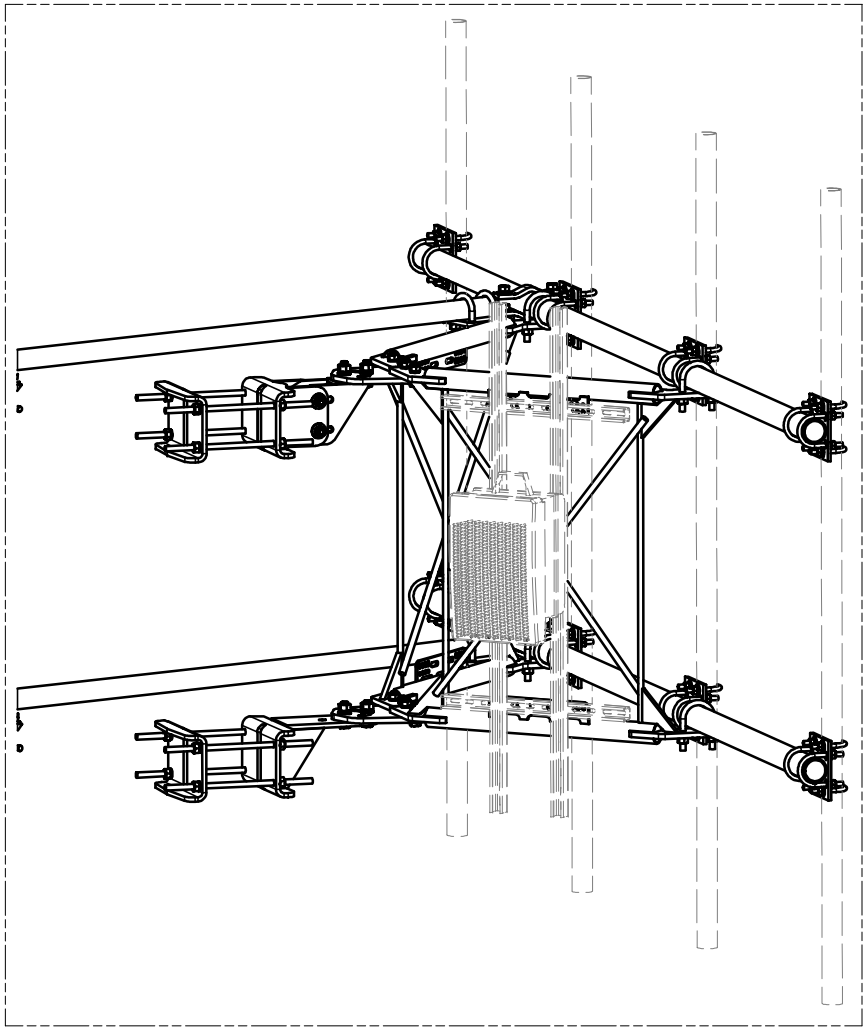
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES *(± 0.030")*
DRILLED AND GAS CUT HOLES *(± 0.030")* - NO CONING OF HOLES
LASER CUT EDGES AND HOLES *(± 0.010")* - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING *(± 0.030")*
ALL OTHER ASSEMBLY *(± 0.060")*

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

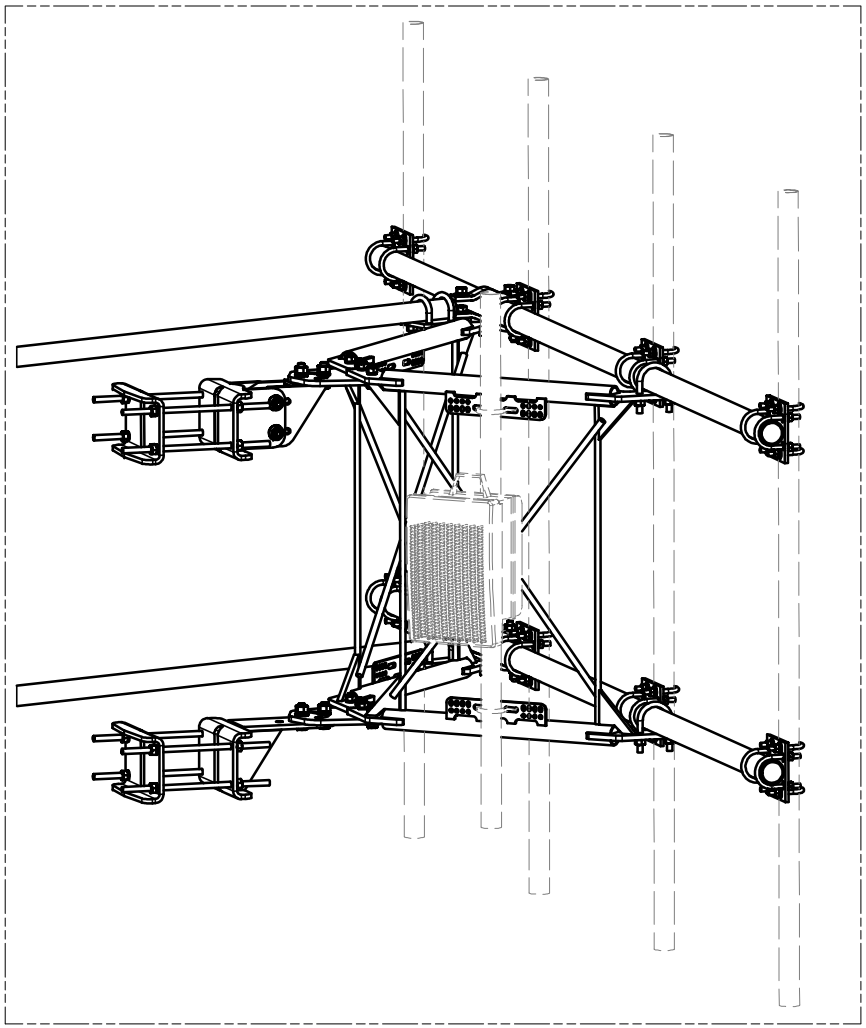
CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
	CEK 1/25/2017		VFA12-HD

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



UNISTRUT AND HARDWARE
SOLD SEPARATELY.

REQUIRES 3/8" HARDWARE



EQUIPMENT PIPE AND HARDWARE
SOLD SEPARATELY.

REQUIRES 1/2" HARDWARE
AND 2-3/8" TO 4-1/2" O.D. PIPE

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

REVISION HISTORY

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")*

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12' 6" HEAVY DUTY
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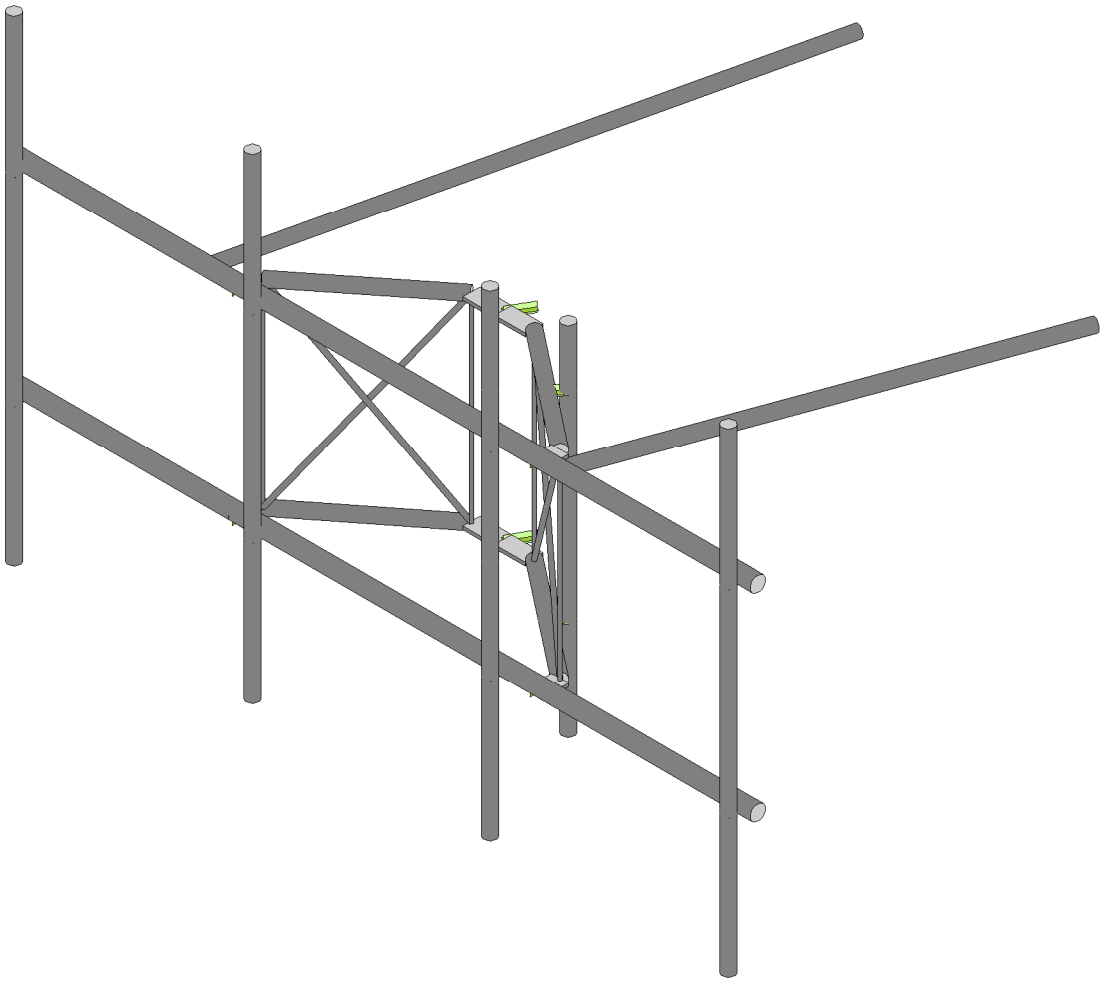
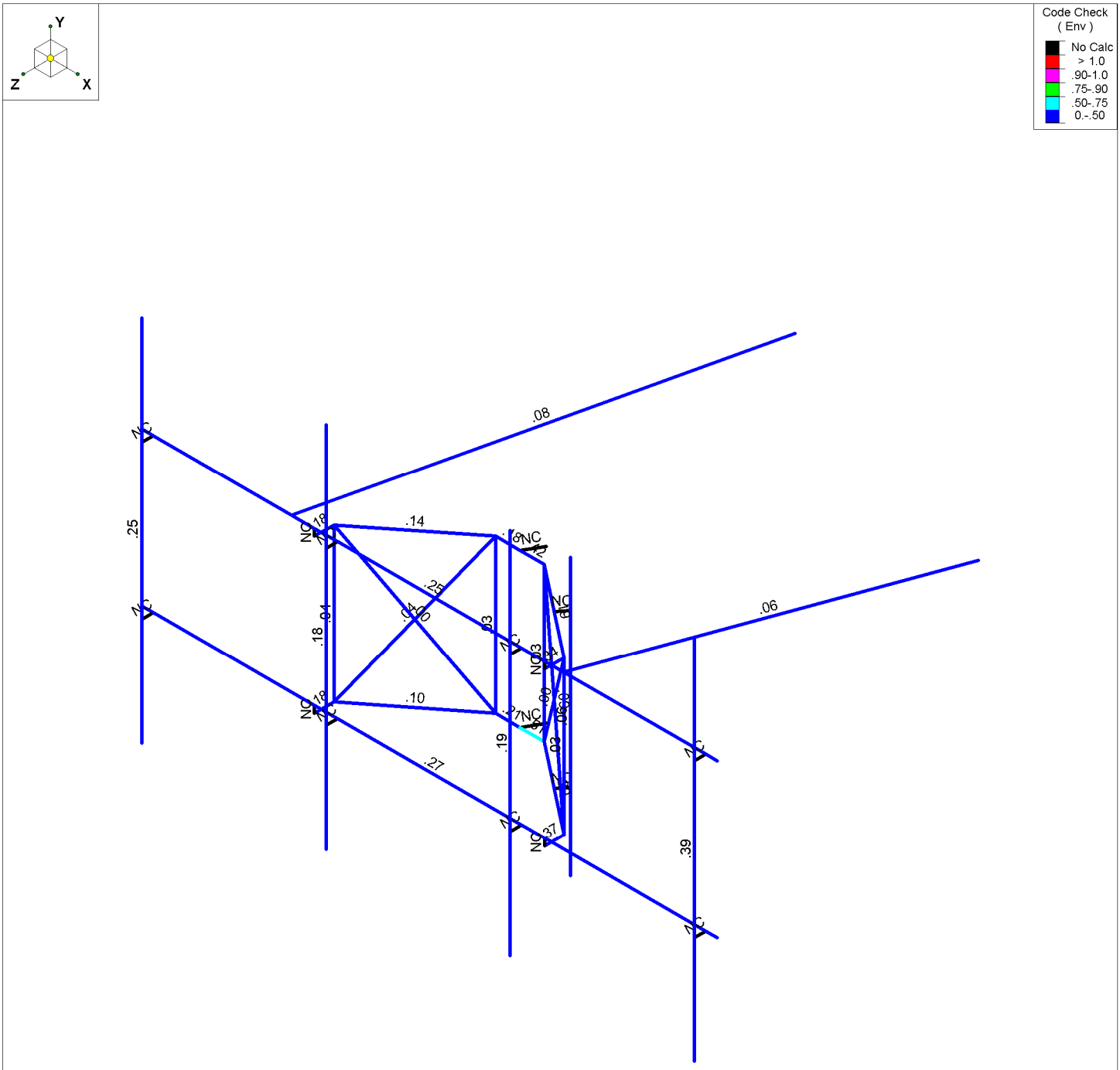
CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
	CEK 1/25/2017		VFA12-HD

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

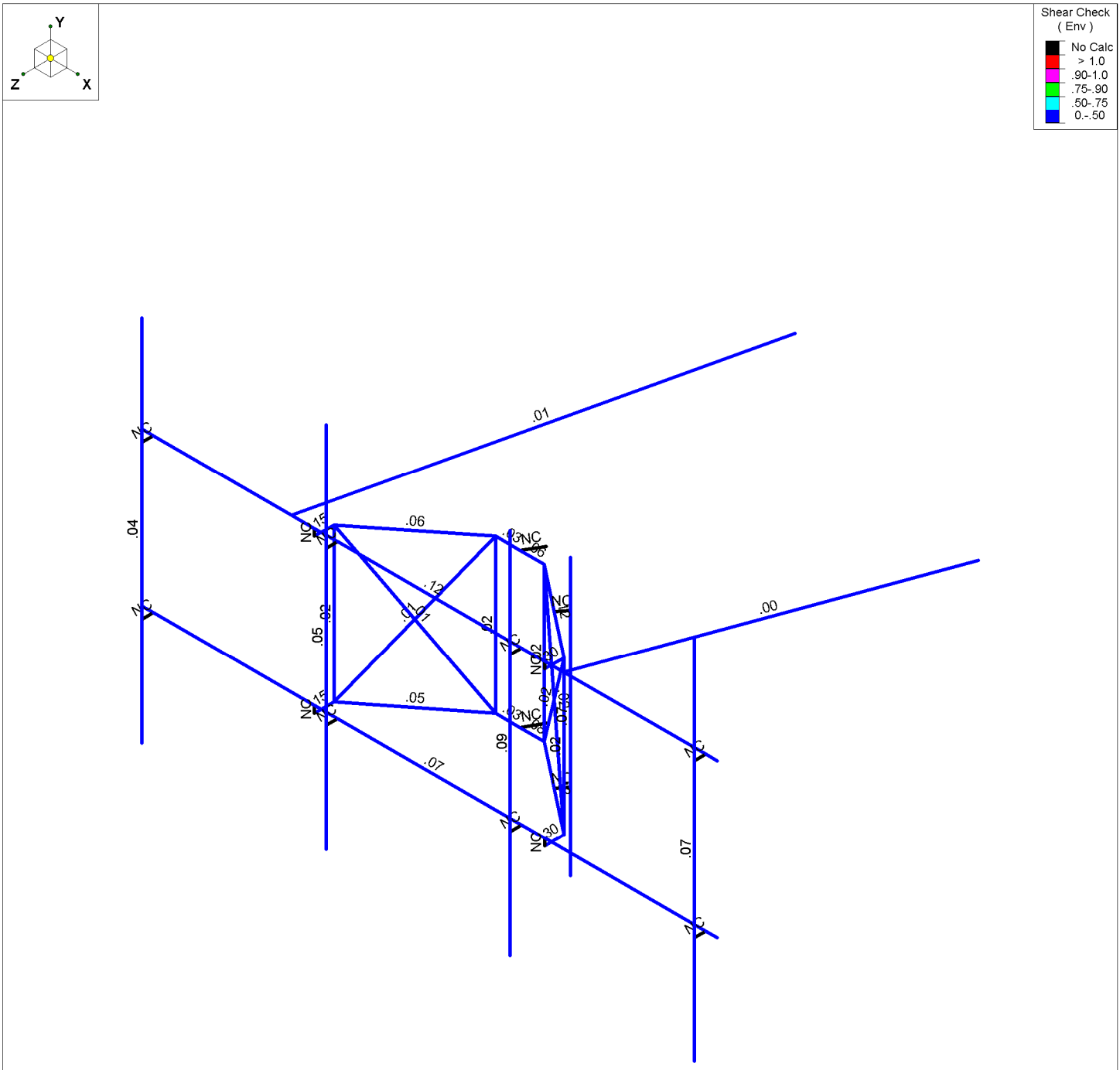


Maser Consulting	467704-VZW_MT_LOT_SectorB_H	SK - 1
		Oct 22, 2021 at 3:27 PM
Project No. 10108865		467704-VZW_MT_LOT_B_H.r3d



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	467704-VZW_MT_LOT_SectorB_H	SK - 2
		Oct 22, 2021 at 3:28 PM
Project No. 10108865		467704-VZW_MT_LOT_B_H.r3d



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	467704-VZW_MT_LOT_SectorB_H	SK - 3
		Oct 22, 2021 at 3:29 PM
Project No. 10108865		467704-VZW_MT_LOT_B_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					33			
2	Antenna Di	None					33			
3	Antenna Wo (0 Deg)	None					33			
4	Antenna Wo (30 Deg)	None					33			
5	Antenna Wo (60 Deg)	None					33			
6	Antenna Wo (90 Deg)	None					33			
7	Antenna Wo (120 Deg)	None					33			
8	Antenna Wo (150 Deg)	None					33			
9	Antenna Wo (180 Deg)	None					33			
10	Antenna Wo (210 Deg)	None					33			
11	Antenna Wo (240 Deg)	None					33			
12	Antenna Wo (270 Deg)	None					33			
13	Antenna Wo (300 Deg)	None					33			
14	Antenna Wo (330 Deg)	None					33			
15	Antenna Wi (0 Deg)	None					33			
16	Antenna Wi (30 Deg)	None					33			
17	Antenna Wi (60 Deg)	None					33			
18	Antenna Wi (90 Deg)	None					33			
19	Antenna Wi (120 Deg)	None					33			
20	Antenna Wi (150 Deg)	None					33			
21	Antenna Wi (180 Deg)	None					33			
22	Antenna Wi (210 Deg)	None					33			
23	Antenna Wi (240 Deg)	None					33			
24	Antenna Wi (270 Deg)	None					33			
25	Antenna Wi (300 Deg)	None					33			
26	Antenna Wi (330 Deg)	None					33			
27	Antenna Wm (0 Deg)	None					33			
28	Antenna Wm (30 Deg)	None					33			
29	Antenna Wm (60 Deg)	None					33			
30	Antenna Wm (90 Deg)	None					33			
31	Antenna Wm (120 Deg)	None					33			
32	Antenna Wm (150 Deg)	None					33			
33	Antenna Wm (180 Deg)	None					33			
34	Antenna Wm (210 Deg)	None					33			
35	Antenna Wm (240 Deg)	None					33			
36	Antenna Wm (270 Deg)	None					33			
37	Antenna Wm (300 Deg)	None					33			
38	Antenna Wm (330 Deg)	None					33			
39	Structure D	None		-1						
40	Structure Di	None						29		
41	Structure Wo (0 Deg)	None						58		
42	Structure Wo (30 Deg)	None						58		
43	Structure Wo (60 Deg)	None						58		
44	Structure Wo (90 Deg)	None						58		
45	Structure Wo (120 D...	None						58		
46	Structure Wo (150 D...	None						58		
47	Structure Wo (180 D...	None						58		
48	Structure Wo (210 D...	None						58		
49	Structure Wo (240 D...	None						58		
50	Structure Wo (270 D...	None						58		
51	Structure Wo (300 D...	None						58		
52	Structure Wo (330 D...	None						58		
53	Structure Wi (0 Deg)	None						58		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
54	Structure Wi (30 Deg)	None						58		
55	Structure Wi (60 Deg)	None						58		
56	Structure Wi (90 Deg)	None						58		
57	Structure Wi (120 De...	None						58		
58	Structure Wi (150 De...	None						58		
59	Structure Wi (180 De...	None						58		
60	Structure Wi (210 De...	None						58		
61	Structure Wi (240 De...	None						58		
62	Structure Wi (270 De...	None						58		
63	Structure Wi (300 De...	None						58		
64	Structure Wi (330 De...	None						58		
65	Structure Wm (0 Deg)	None						58		
66	Structure Wm (30 De...	None						58		
67	Structure Wm (60 De...	None						58		
68	Structure Wm (90 De...	None						58		
69	Structure Wm (120 D...	None						58		
70	Structure Wm (150 D...	None						58		
71	Structure Wm (180 D...	None						58		
72	Structure Wm (210 D...	None						58		
73	Structure Wm (240 D...	None						58		
74	Structure Wm (270 D...	None						58		
75	Structure Wm (300 D...	None						58		
76	Structure Wm (330 D...	None						58		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	Antenna Ev	None					33			
82	Antenna Eh (0 Deg)	None					22			
83	Antenna Eh (90 Deg)	None					22			
84	Structure Ev	ELY								
85	Structure Eh (0 Deg)	ELZ	-.03							
86	Structure Eh (90 Deg)	ELX			.03					

Load Combinations

	Description	So...	PDe...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
1	1.2D+1.0Wo (0 ...	Yes	Y		1	1.2	39	1.2	3	1	41	1												
2	1.2D+1.0Wo (3...	Yes	Y		1	1.2	39	1.2	4	1	42	1												
3	1.2D+1.0Wo (6...	Yes	Y		1	1.2	39	1.2	5	1	43	1												
4	1.2D+1.0Wo (9...	Yes	Y		1	1.2	39	1.2	6	1	44	1												
5	1.2D+1.0Wo (1...	Yes	Y		1	1.2	39	1.2	7	1	45	1												
6	1.2D+1.0Wo (1...	Yes	Y		1	1.2	39	1.2	8	1	46	1												
7	1.2D+1.0Wo (1...	Yes	Y		1	1.2	39	1.2	9	1	47	1												
8	1.2D+1.0Wo (2...	Yes	Y		1	1.2	39	1.2	10	1	48	1												
9	1.2D+1.0Wo (2...	Yes	Y		1	1.2	39	1.2	11	1	49	1												
10	1.2D+1.0Wo (2...	Yes	Y		1	1.2	39	1.2	12	1	50	1												
11	1.2D+1.0Wo (3...	Yes	Y		1	1.2	39	1.2	13	1	51	1												
12	1.2D+1.0Wo (3...	Yes	Y		1	1.2	39	1.2	14	1	52	1												
13	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1								
14	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1								
15	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1								
16	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1								
17	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1								
18	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1								
19	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1								

Load Combinations (Continued)

	Description	So...	PDe...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
20	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1								
21	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1								
22	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1								
23	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1										
27	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 ...	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 + ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	1	83		ELZ	1	ELX					
53	1.2D + 1.0Ev + ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	.5	ELZ	.866	ELX	.5				
54	1.2D + 1.0Ev + ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	.866	ELZ	.5	ELX	.866				
55	1.2D + 1.0Ev + ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	1	ELZ		ELX	1				
56	1.2D + 1.0Ev + ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	.866	ELZ	-.5	ELX	.866				
57	1.2D + 1.0Ev + ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	.5	ELZ	-.866	ELX	.5				
58	1.2D + 1.0Ev + ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-1	83		ELZ	-1	ELX					
59	1.2D + 1.0Ev + ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5				
60	1.2D + 1.0Ev + ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866				
61	1.2D + 1.0Ev + ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	-1	ELZ		ELX	-1				
62	1.2D + 1.0Ev + ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	-.866	ELZ	.5	ELX	-.866				
63	1.2D + 1.0Ev + ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	-.5	ELZ	.866	ELX	-.5				
64	0.9D - 1.0Ev + 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	1	83		ELZ	1	ELX					
65	0.9D - 1.0Ev + 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	.5	ELZ	.866	ELX	.5				
66	0.9D - 1.0Ev + 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	.866	ELZ	.5	ELX	.866				
67	0.9D - 1.0Ev + 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	1	ELZ		ELX	1				
68	0.9D - 1.0Ev + 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	.866	ELZ	-.5	ELX	.866				
69	0.9D - 1.0Ev + 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	.5	ELZ	-.866	ELX	.5				
70	0.9D - 1.0Ev + 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-1	83		ELZ	-1	ELX					
71	0.9D - 1.0Ev + 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5				
72	0.9D - 1.0Ev + 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866				
73	0.9D - 1.0Ev + 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1				
74	0.9D - 1.0Ev + 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	-.866	ELZ	.5	ELX	-.866				
75	0.9D - 1.0Ev + 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	-.5	ELZ	.866	ELX	-.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	-2.625	0	5.758948	0	
36	N36	-2.625	3.333333	5.758948	0	
37	N38	0.083333	3.479167	8.083333	0	
38	N39	-8.833333	5.8125	8.333333	0	
39	N40	-4.833333	5.8125	8.333333	0	
40	N41	-0.833333	5.8125	8.333333	0	
41	N42	3.166667	5.8125	8.333333	0	
42	N43	-8.833333	-2.1875	8.333333	0	
43	N44	-4.833333	-2.1875	8.333333	0	
44	N45	-0.833333	-2.1875	8.333333	0	
45	N46	3.166667	-2.1875	8.333333	0	
46	N59	-5.333333	0.145833	8.083333	0	
47	N60	-5.333333	3.479167	8.083333	0	
48	N61	-0.333333	0.145833	8.083333	0	
49	N62	-0.333333	3.479167	8.083333	0	
50	N55	-5.833333	3.479167	8.083333	0	
51	N53	2.481963	3.479167	1.473697	0	
52	N55A	-3.782655	3.479167	-0.806437	0	
53	N53A	-0.833333	1.8125	8.333333	0	
54	N54	-0.833333	4.3125	8.333333	0	
55	N55B	-1.317708	0	6.890625	0	
56	N56	-1.317708	3.333333	6.890625	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
57	N57	-1.157011	0	6.699114	0	
58	N58	-1.157011	3.333333	6.699114	0	
59	N59A	-1.157011	4.333333	6.699114	0	
60	N60A	-1.157011	-1.666667	6.699114	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design L...	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Pipe	PIPE_2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Mount Pipe P2.5	PIPE_2.5	Column	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
3	Face Horizontal	PIPE_2.5	Beam	Pipe	Q235	Typical	1.61	1.45	1.45	2.89
4	Standoff Horizontal	PIPE_2.0	Beam	Pipe	Q235	Typical	1.02	.627	.627	1.25
5	Standoff Diagonal	SR 0.75	Column	BAR	Q235	Typical	.442	.016	.016	.031
6	Tieback	PIPE_2.0	Beam	Pipe	Q235	Typical	1.02	.627	.627	1.25
7	Standoff Vertical	SR 0.625	Column	BAR	Q235	Typical	.307	.007	.007	.015
8	Standoff Plate	PL5/8X3.5	Beam	BAR	Q235	Typical	2.188	.071	2.233	.253

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	M1	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	M10	N9	N17			RIGID	None	None	RIGID	Typical
9	M11	N12	N20			RIGID	None	None	RIGID	Typical
10	M12	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	OVPO	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
23	M25	N31	N26			Standoff Diago...	Column	BAR	Q235	Typical
24	M26	N32	N25			Standoff Diago...	Column	BAR	Q235	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
25	M27	N33	N28			Standoff Diago...	Column	BAR	Q235	Typical
26	M28	N27	N34			Standoff Diago...	Column	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			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
30	MP3A	N40	N44			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
31	MP2A	N41	N45			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
32	MP1A	N42	N46			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
33	M44	N25	N26			Standoff Vertical	Column	BAR	Q235	Typical
34	M45	N31	N32			Standoff Vertical	Column	BAR	Q235	Typical
35	M46	N33	N34			Standoff Vertical	Column	BAR	Q235	Typical
36	M47	N27	N28			Standoff Vertical	Column	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	M43	N36	N30			RIGID	None	None	RIGID	Typical
42	M44A	N35	N29			RIGID	None	None	RIGID	Typical
43	M43A	N55	N55A			Tieback	Beam	Pipe	Q235	Typical
44	M44B	N38	N53			Tieback	Beam	Pipe	Q235	Typical
45	M45A	N57	N55B			RIGID	None	None	RIGID	Typical
46	M46A	N58	N56			RIGID	None	None	RIGID	Typical
47	OVP	N59A	N60A			Mount Pipe	Column	Pipe	A53 Gr. B	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes				None
2	M2						Yes				None
3	M3						Yes	** NA **			None
4	M4						Yes	** NA **			None
5	M5						Yes	** NA **			None
6	M6						Yes	** NA **			None
7	M9						Yes	** NA **			None
8	M10						Yes	** NA **			None
9	M11						Yes	** NA **			None
10	M12						Yes	** NA **			None
11	M13						Yes	Default			None
12	M14						Yes	Default			None
13	M15						Yes	Default			None
14	M16						Yes	Default			None
15	M17						Yes	Default			None
16	M18						Yes				None
17	M19						Yes				None
18	OVPO						Yes	Default			None
19	M21						Yes	Default			None
20	M22						Yes	Default			None
21	M23						Yes				None
22	M24						Yes				None
23	M25	BenPIN	BenPIN			Euler Buc...	Yes	** NA **			None
24	M26	BenPIN	BenPIN			Euler Buc...	Yes	** NA **			None
25	M27	BenPIN	BenPIN			Euler Buc...	Yes	** NA **			None
26	M28	BenPIN	BenPIN			Euler Buc...	Yes	** NA **			None
27	M29						Yes	** NA **		Inactive	None
28	M30						Yes	** NA **		Inactive	None
29	MP4A						Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
30	MP3A						Yes	** NA **			None
31	MP2A						Yes	** NA **			None
32	MP1A						Yes	** NA **			None
33	M44	BenPIN	BenPIN				Yes	** NA **			None
34	M45	BenPIN	BenPIN				Yes	** NA **			None
35	M46	BenPIN	BenPIN				Yes	** NA **			None
36	M47	BenPIN	BenPIN				Yes	** NA **			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	M43						Yes	** NA **			None
42	M44A						Yes	** NA **			None
43	M43A	BenPIN					Yes				None
44	M44B	BenPIN					Yes	Default			None
45	M45A	OOOXOX					Yes	** NA **			None
46	M46A	OOOXOX					Yes	** NA **			None
47	OVP						Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-21.85	1.5
2	MP2A	My	-.011	1.5
3	MP2A	Mz	-.013	1.5
4	MP2A	Y	-21.85	6.5
5	MP2A	My	-.011	6.5
6	MP2A	Mz	-.013	6.5
7	MP2A	Y	-21.85	1.5
8	MP2A	My	-.011	1.5
9	MP2A	Mz	.013	1.5
10	MP2A	Y	-21.85	6.5
11	MP2A	My	-.011	6.5
12	MP2A	Mz	.013	6.5
13	MP4A	Y	-43.55	3
14	MP4A	My	-.022	3
15	MP4A	Mz	0	3
16	MP4A	Y	-43.55	5
17	MP4A	My	-.022	5
18	MP4A	Mz	0	5
19	OVP	Y	-32	2.5
20	OVP	My	-.01	2.5
21	OVP	Mz	-.012	2.5
22	MP1A	Y	-74.7	4
23	MP1A	My	.037	4
24	MP1A	Mz	0	4
25	MP2A	Y	-70.3	4
26	MP2A	My	.035	4
27	MP2A	Mz	0	4
28	MP1A	Y	-8.5	2.5
29	MP1A	My	-.004	2.5
30	MP1A	Mz	0	2.5
31	MP1A	Y	-8.5	5.5
32	MP1A	My	-.004	5.5
33	MP1A	Mz	0	5.5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-97.342	1.5
2	MP2A	My	-.049	1.5
3	MP2A	Mz	-.057	1.5
4	MP2A	Y	-97.342	6.5
5	MP2A	My	-.049	6.5
6	MP2A	Mz	-.057	6.5
7	MP2A	Y	-97.342	1.5
8	MP2A	My	-.049	1.5
9	MP2A	Mz	.057	1.5
10	MP2A	Y	-97.342	6.5
11	MP2A	My	-.049	6.5
12	MP2A	Mz	.057	6.5
13	MP4A	Y	-57.471	3
14	MP4A	My	-.029	3
15	MP4A	Mz	0	3
16	MP4A	Y	-57.471	5
17	MP4A	My	-.029	5
18	MP4A	Mz	0	5
19	OVP	Y	-140.545	2.5
20	OVP	My	-.045	2.5
21	OVP	Mz	-.054	2.5
22	MP1A	Y	-73.071	4
23	MP1A	My	.037	4
24	MP1A	Mz	0	4
25	MP2A	Y	-69.714	4
26	MP2A	My	.035	4
27	MP2A	Mz	0	4
28	MP1A	Y	-83.693	2.5
29	MP1A	My	-.042	2.5
30	MP1A	Mz	0	2.5
31	MP1A	Y	-83.693	5.5
32	MP1A	My	-.042	5.5
33	MP1A	Mz	0	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1.5
2	MP2A	Z	-129.166	1.5
3	MP2A	Mx	.075	1.5
4	MP2A	X	0	6.5
5	MP2A	Z	-129.166	6.5
6	MP2A	Mx	.075	6.5
7	MP2A	X	0	1.5
8	MP2A	Z	-129.166	1.5
9	MP2A	Mx	-.075	1.5
10	MP2A	X	0	6.5
11	MP2A	Z	-129.166	6.5
12	MP2A	Mx	-.075	6.5
13	MP4A	X	0	3
14	MP4A	Z	-75.134	3
15	MP4A	Mx	0	3
16	MP4A	X	0	5
17	MP4A	Z	-75.134	5
18	MP4A	Mx	0	5
19	OVP	X	0	2.5
20	OVP	Z	-111.747	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	OVP	Mx	.043	2.5
22	MP1A	X	0	4
23	MP1A	Z	-59.787	4
24	MP1A	Mx	0	4
25	MP2A	X	0	4
26	MP2A	Z	-59.787	4
27	MP2A	Mx	0	4
28	MP1A	X	0	2.5
29	MP1A	Z	-121.013	2.5
30	MP1A	Mx	0	2.5
31	MP1A	X	0	5.5
32	MP1A	Z	-121.013	5.5
33	MP1A	Mx	0	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	59.111	1.5
2	MP2A	Z	-102.384	1.5
3	MP2A	Mx	.03	1.5
4	MP2A	X	59.111	6.5
5	MP2A	Z	-102.384	6.5
6	MP2A	Mx	.03	6.5
7	MP2A	X	59.111	1.5
8	MP2A	Z	-102.384	1.5
9	MP2A	Mx	-.089	1.5
10	MP2A	X	59.111	6.5
11	MP2A	Z	-102.384	6.5
12	MP2A	Mx	-.089	6.5
13	MP4A	X	31.852	3
14	MP4A	Z	-55.169	3
15	MP4A	Mx	-.016	3
16	MP4A	X	31.852	5
17	MP4A	Z	-55.169	5
18	MP4A	Mx	-.016	5
19	OVP	X	63.103	2.5
20	OVP	Z	-109.297	2.5
21	OVP	Mx	.022	2.5
22	MP1A	X	27.416	4
23	MP1A	Z	-47.486	4
24	MP1A	Mx	.014	4
25	MP2A	X	26.966	4
26	MP2A	Z	-46.707	4
27	MP2A	Mx	.013	4
28	MP1A	X	53.689	2.5
29	MP1A	Z	-92.992	2.5
30	MP1A	Mx	-.027	2.5
31	MP1A	X	53.689	5.5
32	MP1A	Z	-92.992	5.5
33	MP1A	Mx	-.027	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	83.429	1.5
2	MP2A	Z	-48.168	1.5
3	MP2A	Mx	-.014	1.5
4	MP2A	X	83.429	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP2A	Z	-48.168	6.5
6	MP2A	Mx	-.014	6.5
7	MP2A	X	83.429	1.5
8	MP2A	Z	-48.168	1.5
9	MP2A	Mx	-.07	1.5
10	MP2A	X	83.429	6.5
11	MP2A	Z	-48.168	6.5
12	MP2A	Mx	-.07	6.5
13	MP4A	X	35.372	3
14	MP4A	Z	-20.422	3
15	MP4A	Mx	-.018	3
16	MP4A	X	35.372	5
17	MP4A	Z	-20.422	5
18	MP4A	Mx	-.018	5
19	OVP	X	111.611	2.5
20	OVP	Z	-64.439	2.5
21	OVP	Mx	-.011	2.5
22	MP1A	X	38.902	4
23	MP1A	Z	-22.46	4
24	MP1A	Mx	.019	4
25	MP2A	X	36.566	4
26	MP2A	Z	-21.111	4
27	MP2A	Mx	.018	4
28	MP1A	X	69.374	2.5
29	MP1A	Z	-40.053	2.5
30	MP1A	Mx	-.035	2.5
31	MP1A	X	69.374	5.5
32	MP1A	Z	-40.053	5.5
33	MP1A	Mx	-.035	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	85.391	1.5
2	MP2A	Z	0	1.5
3	MP2A	Mx	-.043	1.5
4	MP2A	X	85.391	6.5
5	MP2A	Z	0	6.5
6	MP2A	Mx	-.043	6.5
7	MP2A	X	85.391	1.5
8	MP2A	Z	0	1.5
9	MP2A	Mx	-.043	1.5
10	MP2A	X	85.391	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	-.043	6.5
13	MP4A	X	29.415	3
14	MP4A	Z	0	3
15	MP4A	Mx	-.015	3
16	MP4A	X	29.415	5
17	MP4A	Z	0	5
18	MP4A	Mx	-.015	5
19	OVP	X	117.091	2.5
20	OVP	Z	0	2.5
21	OVP	Mx	-.038	2.5
22	MP1A	X	39.965	4
23	MP1A	Z	0	4
24	MP1A	Mx	.02	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2A	X	36.368	4
26	MP2A	Z	0	4
27	MP2A	Mx	.018	4
28	MP1A	X	66.471	2.5
29	MP1A	Z	0	2.5
30	MP1A	Mx	-.033	2.5
31	MP1A	X	66.471	5.5
32	MP1A	Z	0	5.5
33	MP1A	Mx	-.033	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	83.429	1.5
2	MP2A	Z	48.168	1.5
3	MP2A	Mx	-.07	1.5
4	MP2A	X	83.429	6.5
5	MP2A	Z	48.168	6.5
6	MP2A	Mx	-.07	6.5
7	MP2A	X	83.429	1.5
8	MP2A	Z	48.168	1.5
9	MP2A	Mx	-.014	1.5
10	MP2A	X	83.429	6.5
11	MP2A	Z	48.168	6.5
12	MP2A	Mx	-.014	6.5
13	MP4A	X	35.372	3
14	MP4A	Z	20.422	3
15	MP4A	Mx	-.018	3
16	MP4A	X	35.372	5
17	MP4A	Z	20.422	5
18	MP4A	Mx	-.018	5
19	OVP	X	88.882	2.5
20	OVP	Z	51.316	2.5
21	OVP	Mx	-.048	2.5
22	MP1A	X	38.902	4
23	MP1A	Z	22.46	4
24	MP1A	Mx	.019	4
25	MP2A	X	36.566	4
26	MP2A	Z	21.111	4
27	MP2A	Mx	.018	4
28	MP1A	X	69.374	2.5
29	MP1A	Z	40.053	2.5
30	MP1A	Mx	-.035	2.5
31	MP1A	X	69.374	5.5
32	MP1A	Z	40.053	5.5
33	MP1A	Mx	-.035	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	59.111	1.5
2	MP2A	Z	102.384	1.5
3	MP2A	Mx	-.089	1.5
4	MP2A	X	59.111	6.5
5	MP2A	Z	102.384	6.5
6	MP2A	Mx	-.089	6.5
7	MP2A	X	59.111	1.5
8	MP2A	Z	102.384	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP2A	Mx	.03	1.5
10	MP2A	X	59.111	6.5
11	MP2A	Z	102.384	6.5
12	MP2A	Mx	.03	6.5
13	MP4A	X	31.852	3
14	MP4A	Z	55.169	3
15	MP4A	Mx	-.016	3
16	MP4A	X	31.852	5
17	MP4A	Z	55.169	5
18	MP4A	Mx	-.016	5
19	OVP	X	49.98	2.5
20	OVP	Z	86.568	2.5
21	OVP	Mx	-.049	2.5
22	MP1A	X	27.416	4
23	MP1A	Z	47.486	4
24	MP1A	Mx	.014	4
25	MP2A	X	26.966	4
26	MP2A	Z	46.707	4
27	MP2A	Mx	.013	4
28	MP1A	X	53.689	2.5
29	MP1A	Z	92.992	2.5
30	MP1A	Mx	-.027	2.5
31	MP1A	X	53.689	5.5
32	MP1A	Z	92.992	5.5
33	MP1A	Mx	-.027	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1.5
2	MP2A	Z	129.166	1.5
3	MP2A	Mx	-.075	1.5
4	MP2A	X	0	6.5
5	MP2A	Z	129.166	6.5
6	MP2A	Mx	-.075	6.5
7	MP2A	X	0	1.5
8	MP2A	Z	129.166	1.5
9	MP2A	Mx	.075	1.5
10	MP2A	X	0	6.5
11	MP2A	Z	129.166	6.5
12	MP2A	Mx	.075	6.5
13	MP4A	X	0	3
14	MP4A	Z	75.134	3
15	MP4A	Mx	0	3
16	MP4A	X	0	5
17	MP4A	Z	75.134	5
18	MP4A	Mx	0	5
19	OVP	X	0	2.5
20	OVP	Z	111.747	2.5
21	OVP	Mx	-.043	2.5
22	MP1A	X	0	4
23	MP1A	Z	59.787	4
24	MP1A	Mx	0	4
25	MP2A	X	0	4
26	MP2A	Z	59.787	4
27	MP2A	Mx	0	4
28	MP1A	X	0	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP1A	Z	121.013	2.5
30	MP1A	Mx	0	2.5
31	MP1A	X	0	5.5
32	MP1A	Z	121.013	5.5
33	MP1A	Mx	0	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-59.111	1.5
2	MP2A	Z	102.384	1.5
3	MP2A	Mx	-.03	1.5
4	MP2A	X	-59.111	6.5
5	MP2A	Z	102.384	6.5
6	MP2A	Mx	-.03	6.5
7	MP2A	X	-59.111	1.5
8	MP2A	Z	102.384	1.5
9	MP2A	Mx	.089	1.5
10	MP2A	X	-59.111	6.5
11	MP2A	Z	102.384	6.5
12	MP2A	Mx	.089	6.5
13	MP4A	X	-31.852	3
14	MP4A	Z	55.169	3
15	MP4A	Mx	.016	3
16	MP4A	X	-31.852	5
17	MP4A	Z	55.169	5
18	MP4A	Mx	.016	5
19	OVP	X	-63.103	2.5
20	OVP	Z	109.297	2.5
21	OVP	Mx	-.022	2.5
22	MP1A	X	-27.416	4
23	MP1A	Z	47.486	4
24	MP1A	Mx	-.014	4
25	MP2A	X	-26.966	4
26	MP2A	Z	46.707	4
27	MP2A	Mx	-.013	4
28	MP1A	X	-53.689	2.5
29	MP1A	Z	92.992	2.5
30	MP1A	Mx	.027	2.5
31	MP1A	X	-53.689	5.5
32	MP1A	Z	92.992	5.5
33	MP1A	Mx	.027	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-83.429	1.5
2	MP2A	Z	48.168	1.5
3	MP2A	Mx	.014	1.5
4	MP2A	X	-83.429	6.5
5	MP2A	Z	48.168	6.5
6	MP2A	Mx	.014	6.5
7	MP2A	X	-83.429	1.5
8	MP2A	Z	48.168	1.5
9	MP2A	Mx	.07	1.5
10	MP2A	X	-83.429	6.5
11	MP2A	Z	48.168	6.5
12	MP2A	Mx	.07	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP4A	X	-35.372	3
14	MP4A	Z	20.422	3
15	MP4A	Mx	.018	3
16	MP4A	X	-35.372	5
17	MP4A	Z	20.422	5
18	MP4A	Mx	.018	5
19	OVP	X	-111.611	2.5
20	OVP	Z	64.439	2.5
21	OVP	Mx	.011	2.5
22	MP1A	X	-38.902	4
23	MP1A	Z	22.46	4
24	MP1A	Mx	-.019	4
25	MP2A	X	-36.566	4
26	MP2A	Z	21.111	4
27	MP2A	Mx	-.018	4
28	MP1A	X	-69.374	2.5
29	MP1A	Z	40.053	2.5
30	MP1A	Mx	.035	2.5
31	MP1A	X	-69.374	5.5
32	MP1A	Z	40.053	5.5
33	MP1A	Mx	.035	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-85.391	1.5
2	MP2A	Z	0	1.5
3	MP2A	Mx	.043	1.5
4	MP2A	X	-85.391	6.5
5	MP2A	Z	0	6.5
6	MP2A	Mx	.043	6.5
7	MP2A	X	-85.391	1.5
8	MP2A	Z	0	1.5
9	MP2A	Mx	.043	1.5
10	MP2A	X	-85.391	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	.043	6.5
13	MP4A	X	-29.415	3
14	MP4A	Z	0	3
15	MP4A	Mx	.015	3
16	MP4A	X	-29.415	5
17	MP4A	Z	0	5
18	MP4A	Mx	.015	5
19	OVP	X	-117.091	2.5
20	OVP	Z	0	2.5
21	OVP	Mx	.038	2.5
22	MP1A	X	-39.965	4
23	MP1A	Z	0	4
24	MP1A	Mx	-.02	4
25	MP2A	X	-36.368	4
26	MP2A	Z	0	4
27	MP2A	Mx	-.018	4
28	MP1A	X	-66.471	2.5
29	MP1A	Z	0	2.5
30	MP1A	Mx	.033	2.5
31	MP1A	X	-66.471	5.5
32	MP1A	Z	0	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP1A	Mx	.033	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-83.429	1.5
2	MP2A	Z	-48.168	1.5
3	MP2A	Mx	.07	1.5
4	MP2A	X	-83.429	6.5
5	MP2A	Z	-48.168	6.5
6	MP2A	Mx	.07	6.5
7	MP2A	X	-83.429	1.5
8	MP2A	Z	-48.168	1.5
9	MP2A	Mx	.014	1.5
10	MP2A	X	-83.429	6.5
11	MP2A	Z	-48.168	6.5
12	MP2A	Mx	.014	6.5
13	MP4A	X	-35.372	3
14	MP4A	Z	-20.422	3
15	MP4A	Mx	.018	3
16	MP4A	X	-35.372	5
17	MP4A	Z	-20.422	5
18	MP4A	Mx	.018	5
19	OVP	X	-88.882	2.5
20	OVP	Z	-51.316	2.5
21	OVP	Mx	.048	2.5
22	MP1A	X	-38.902	4
23	MP1A	Z	-22.46	4
24	MP1A	Mx	-.019	4
25	MP2A	X	-36.566	4
26	MP2A	Z	-21.111	4
27	MP2A	Mx	-.018	4
28	MP1A	X	-69.374	2.5
29	MP1A	Z	-40.053	2.5
30	MP1A	Mx	.035	2.5
31	MP1A	X	-69.374	5.5
32	MP1A	Z	-40.053	5.5
33	MP1A	Mx	.035	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-59.111	1.5
2	MP2A	Z	-102.384	1.5
3	MP2A	Mx	.089	1.5
4	MP2A	X	-59.111	6.5
5	MP2A	Z	-102.384	6.5
6	MP2A	Mx	.089	6.5
7	MP2A	X	-59.111	1.5
8	MP2A	Z	-102.384	1.5
9	MP2A	Mx	-.03	1.5
10	MP2A	X	-59.111	6.5
11	MP2A	Z	-102.384	6.5
12	MP2A	Mx	-.03	6.5
13	MP4A	X	-31.852	3
14	MP4A	Z	-55.169	3
15	MP4A	Mx	.016	3
16	MP4A	X	-31.852	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP4A	Z	-55.169	5
18	MP4A	Mx	.016	5
19	OVP	X	-49.98	2.5
20	OVP	Z	-86.568	2.5
21	OVP	Mx	.049	2.5
22	MP1A	X	-27.416	4
23	MP1A	Z	-47.486	4
24	MP1A	Mx	-.014	4
25	MP2A	X	-26.966	4
26	MP2A	Z	-46.707	4
27	MP2A	Mx	-.013	4
28	MP1A	X	-53.689	2.5
29	MP1A	Z	-92.992	2.5
30	MP1A	Mx	.027	2.5
31	MP1A	X	-53.689	5.5
32	MP1A	Z	-92.992	5.5
33	MP1A	Mx	.027	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1.5
2	MP2A	Z	-28.348	1.5
3	MP2A	Mx	.017	1.5
4	MP2A	X	0	6.5
5	MP2A	Z	-28.348	6.5
6	MP2A	Mx	.017	6.5
7	MP2A	X	0	1.5
8	MP2A	Z	-28.348	1.5
9	MP2A	Mx	-.017	1.5
10	MP2A	X	0	6.5
11	MP2A	Z	-28.348	6.5
12	MP2A	Mx	-.017	6.5
13	MP4A	X	0	3
14	MP4A	Z	-17.054	3
15	MP4A	Mx	0	3
16	MP4A	X	0	5
17	MP4A	Z	-17.054	5
18	MP4A	Mx	0	5
19	OVP	X	0	2.5
20	OVP	Z	-25.989	2.5
21	OVP	Mx	.01	2.5
22	MP1A	X	0	4
23	MP1A	Z	-14.791	4
24	MP1A	Mx	0	4
25	MP2A	X	0	4
26	MP2A	Z	-14.791	4
27	MP2A	Mx	0	4
28	MP1A	X	0	2.5
29	MP1A	Z	-26.711	2.5
30	MP1A	Mx	0	2.5
31	MP1A	X	0	5.5
32	MP1A	Z	-26.711	5.5
33	MP1A	Mx	0	5.5

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	13.124	1.5
2	MP2A	Z	-22.732	1.5
3	MP2A	Mx	.007	1.5
4	MP2A	X	13.124	6.5
5	MP2A	Z	-22.732	6.5
6	MP2A	Mx	.007	6.5
7	MP2A	X	13.124	1.5
8	MP2A	Z	-22.732	1.5
9	MP2A	Mx	-.02	1.5
10	MP2A	X	13.124	6.5
11	MP2A	Z	-22.732	6.5
12	MP2A	Mx	-.02	6.5
13	MP4A	X	7.344	3
14	MP4A	Z	-12.72	3
15	MP4A	Mx	-.004	3
16	MP4A	X	7.344	5
17	MP4A	Z	-12.72	5
18	MP4A	Mx	-.004	5
19	OVP	X	14.45	2.5
20	OVP	Z	-25.029	2.5
21	OVP	Mx	.005	2.5
22	MP1A	X	6.859	4
23	MP1A	Z	-11.88	4
24	MP1A	Mx	.003	4
25	MP2A	X	6.762	4
26	MP2A	Z	-11.713	4
27	MP2A	Mx	.003	4
28	MP1A	X	12.035	2.5
29	MP1A	Z	-20.846	2.5
30	MP1A	Mx	-.006	2.5
31	MP1A	X	12.035	5.5
32	MP1A	Z	-20.846	5.5
33	MP1A	Mx	-.006	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	19.094	1.5
2	MP2A	Z	-11.024	1.5
3	MP2A	Mx	-.003	1.5
4	MP2A	X	19.094	6.5
5	MP2A	Z	-11.024	6.5
6	MP2A	Mx	-.003	6.5
7	MP2A	X	19.094	1.5
8	MP2A	Z	-11.024	1.5
9	MP2A	Mx	-.016	1.5
10	MP2A	X	19.094	6.5
11	MP2A	Z	-11.024	6.5
12	MP2A	Mx	-.016	6.5
13	MP4A	X	8.621	3
14	MP4A	Z	-4.977	3
15	MP4A	Mx	-.004	3
16	MP4A	X	8.621	5
17	MP4A	Z	-4.977	5
18	MP4A	Mx	-.004	5
19	OVP	X	25.495	2.5
20	OVP	Z	-14.719	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	OVP	Mx	-.003	2.5
22	MP1A	X	10.021	4
23	MP1A	Z	-5.786	4
24	MP1A	Mx	.005	4
25	MP2A	X	9.519	4
26	MP2A	Z	-5.496	4
27	MP2A	Mx	.005	4
28	MP1A	X	16.274	2.5
29	MP1A	Z	-9.396	2.5
30	MP1A	Mx	-.008	2.5
31	MP1A	X	16.274	5.5
32	MP1A	Z	-9.396	5.5
33	MP1A	Mx	-.008	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	19.948	1.5
2	MP2A	Z	0	1.5
3	MP2A	Mx	-.01	1.5
4	MP2A	X	19.948	6.5
5	MP2A	Z	0	6.5
6	MP2A	Mx	-.01	6.5
7	MP2A	X	19.948	1.5
8	MP2A	Z	0	1.5
9	MP2A	Mx	-.01	1.5
10	MP2A	X	19.948	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	-.01	6.5
13	MP4A	X	7.588	3
14	MP4A	Z	0	3
15	MP4A	Mx	-.004	3
16	MP4A	X	7.588	5
17	MP4A	Z	0	5
18	MP4A	Mx	-.004	5
19	OVP	X	27.065	2.5
20	OVP	Z	0	2.5
21	OVP	Mx	-.009	2.5
22	MP1A	X	10.498	4
23	MP1A	Z	0	4
24	MP1A	Mx	.005	4
25	MP2A	X	9.725	4
26	MP2A	Z	0	4
27	MP2A	Mx	.005	4
28	MP1A	X	16.152	2.5
29	MP1A	Z	0	2.5
30	MP1A	Mx	-.008	2.5
31	MP1A	X	16.152	5.5
32	MP1A	Z	0	5.5
33	MP1A	Mx	-.008	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	19.094	1.5
2	MP2A	Z	11.024	1.5
3	MP2A	Mx	-.016	1.5
4	MP2A	X	19.094	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP2A	Z	11.024	6.5
6	MP2A	Mx	-.016	6.5
7	MP2A	X	19.094	1.5
8	MP2A	Z	11.024	1.5
9	MP2A	Mx	-.003	1.5
10	MP2A	X	19.094	6.5
11	MP2A	Z	11.024	6.5
12	MP2A	Mx	-.003	6.5
13	MP4A	X	8.621	3
14	MP4A	Z	4.977	3
15	MP4A	Mx	-.004	3
16	MP4A	X	8.621	5
17	MP4A	Z	4.977	5
18	MP4A	Mx	-.004	5
19	OVP	X	20.917	2.5
20	OVP	Z	12.077	2.5
21	OVP	Mx	-.011	2.5
22	MP1A	X	10.021	4
23	MP1A	Z	5.786	4
24	MP1A	Mx	.005	4
25	MP2A	X	9.519	4
26	MP2A	Z	5.496	4
27	MP2A	Mx	.005	4
28	MP1A	X	16.274	2.5
29	MP1A	Z	9.396	2.5
30	MP1A	Mx	-.008	2.5
31	MP1A	X	16.274	5.5
32	MP1A	Z	9.396	5.5
33	MP1A	Mx	-.008	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	13.124	1.5
2	MP2A	Z	22.732	1.5
3	MP2A	Mx	-.02	1.5
4	MP2A	X	13.124	6.5
5	MP2A	Z	22.732	6.5
6	MP2A	Mx	-.02	6.5
7	MP2A	X	13.124	1.5
8	MP2A	Z	22.732	1.5
9	MP2A	Mx	.007	1.5
10	MP2A	X	13.124	6.5
11	MP2A	Z	22.732	6.5
12	MP2A	Mx	.007	6.5
13	MP4A	X	7.344	3
14	MP4A	Z	12.72	3
15	MP4A	Mx	-.004	3
16	MP4A	X	7.344	5
17	MP4A	Z	12.72	5
18	MP4A	Mx	-.004	5
19	OVP	X	11.808	2.5
20	OVP	Z	20.452	2.5
21	OVP	Mx	-.012	2.5
22	MP1A	X	6.859	4
23	MP1A	Z	11.88	4
24	MP1A	Mx	.003	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2A	X	6.762	4
26	MP2A	Z	11.713	4
27	MP2A	Mx	.003	4
28	MP1A	X	12.035	2.5
29	MP1A	Z	20.846	2.5
30	MP1A	Mx	-.006	2.5
31	MP1A	X	12.035	5.5
32	MP1A	Z	20.846	5.5
33	MP1A	Mx	-.006	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1.5
2	MP2A	Z	28.348	1.5
3	MP2A	Mx	-.017	1.5
4	MP2A	X	0	6.5
5	MP2A	Z	28.348	6.5
6	MP2A	Mx	-.017	6.5
7	MP2A	X	0	1.5
8	MP2A	Z	28.348	1.5
9	MP2A	Mx	.017	1.5
10	MP2A	X	0	6.5
11	MP2A	Z	28.348	6.5
12	MP2A	Mx	.017	6.5
13	MP4A	X	0	3
14	MP4A	Z	17.054	3
15	MP4A	Mx	0	3
16	MP4A	X	0	5
17	MP4A	Z	17.054	5
18	MP4A	Mx	0	5
19	OVP	X	0	2.5
20	OVP	Z	25.989	2.5
21	OVP	Mx	-.01	2.5
22	MP1A	X	0	4
23	MP1A	Z	14.791	4
24	MP1A	Mx	0	4
25	MP2A	X	0	4
26	MP2A	Z	14.791	4
27	MP2A	Mx	0	4
28	MP1A	X	0	2.5
29	MP1A	Z	26.711	2.5
30	MP1A	Mx	0	2.5
31	MP1A	X	0	5.5
32	MP1A	Z	26.711	5.5
33	MP1A	Mx	0	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-13.124	1.5
2	MP2A	Z	22.732	1.5
3	MP2A	Mx	-.007	1.5
4	MP2A	X	-13.124	6.5
5	MP2A	Z	22.732	6.5
6	MP2A	Mx	-.007	6.5
7	MP2A	X	-13.124	1.5
8	MP2A	Z	22.732	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP2A	Mx	.02	1.5
10	MP2A	X	-13.124	6.5
11	MP2A	Z	22.732	6.5
12	MP2A	Mx	.02	6.5
13	MP4A	X	-7.344	3
14	MP4A	Z	12.72	3
15	MP4A	Mx	.004	3
16	MP4A	X	-7.344	5
17	MP4A	Z	12.72	5
18	MP4A	Mx	.004	5
19	OVP	X	-14.45	2.5
20	OVP	Z	25.029	2.5
21	OVP	Mx	-.005	2.5
22	MP1A	X	-6.859	4
23	MP1A	Z	11.88	4
24	MP1A	Mx	-.003	4
25	MP2A	X	-6.762	4
26	MP2A	Z	11.713	4
27	MP2A	Mx	-.003	4
28	MP1A	X	-12.035	2.5
29	MP1A	Z	20.846	2.5
30	MP1A	Mx	.006	2.5
31	MP1A	X	-12.035	5.5
32	MP1A	Z	20.846	5.5
33	MP1A	Mx	.006	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-19.094	1.5
2	MP2A	Z	11.024	1.5
3	MP2A	Mx	.003	1.5
4	MP2A	X	-19.094	6.5
5	MP2A	Z	11.024	6.5
6	MP2A	Mx	.003	6.5
7	MP2A	X	-19.094	1.5
8	MP2A	Z	11.024	1.5
9	MP2A	Mx	.016	1.5
10	MP2A	X	-19.094	6.5
11	MP2A	Z	11.024	6.5
12	MP2A	Mx	.016	6.5
13	MP4A	X	-8.621	3
14	MP4A	Z	4.977	3
15	MP4A	Mx	.004	3
16	MP4A	X	-8.621	5
17	MP4A	Z	4.977	5
18	MP4A	Mx	.004	5
19	OVP	X	-25.495	2.5
20	OVP	Z	14.719	2.5
21	OVP	Mx	.003	2.5
22	MP1A	X	-10.021	4
23	MP1A	Z	5.786	4
24	MP1A	Mx	-.005	4
25	MP2A	X	-9.519	4
26	MP2A	Z	5.496	4
27	MP2A	Mx	-.005	4
28	MP1A	X	-16.274	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP1A	Z	9.396	2.5
30	MP1A	Mx	.008	2.5
31	MP1A	X	-16.274	5.5
32	MP1A	Z	9.396	5.5
33	MP1A	Mx	.008	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-19.948	1.5
2	MP2A	Z	0	1.5
3	MP2A	Mx	.01	1.5
4	MP2A	X	-19.948	6.5
5	MP2A	Z	0	6.5
6	MP2A	Mx	.01	6.5
7	MP2A	X	-19.948	1.5
8	MP2A	Z	0	1.5
9	MP2A	Mx	.01	1.5
10	MP2A	X	-19.948	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	.01	6.5
13	MP4A	X	-7.588	3
14	MP4A	Z	0	3
15	MP4A	Mx	.004	3
16	MP4A	X	-7.588	5
17	MP4A	Z	0	5
18	MP4A	Mx	.004	5
19	OVP	X	-27.065	2.5
20	OVP	Z	0	2.5
21	OVP	Mx	.009	2.5
22	MP1A	X	-10.498	4
23	MP1A	Z	0	4
24	MP1A	Mx	-.005	4
25	MP2A	X	-9.725	4
26	MP2A	Z	0	4
27	MP2A	Mx	-.005	4
28	MP1A	X	-16.152	2.5
29	MP1A	Z	0	2.5
30	MP1A	Mx	.008	2.5
31	MP1A	X	-16.152	5.5
32	MP1A	Z	0	5.5
33	MP1A	Mx	.008	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-19.094	1.5
2	MP2A	Z	-11.024	1.5
3	MP2A	Mx	.016	1.5
4	MP2A	X	-19.094	6.5
5	MP2A	Z	-11.024	6.5
6	MP2A	Mx	.016	6.5
7	MP2A	X	-19.094	1.5
8	MP2A	Z	-11.024	1.5
9	MP2A	Mx	.003	1.5
10	MP2A	X	-19.094	6.5
11	MP2A	Z	-11.024	6.5
12	MP2A	Mx	.003	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP4A	X	-8.621	3
14	MP4A	Z	-4.977	3
15	MP4A	Mx	.004	3
16	MP4A	X	-8.621	5
17	MP4A	Z	-4.977	5
18	MP4A	Mx	.004	5
19	OVP	X	-20.917	2.5
20	OVP	Z	-12.077	2.5
21	OVP	Mx	.011	2.5
22	MP1A	X	-10.021	4
23	MP1A	Z	-5.786	4
24	MP1A	Mx	-.005	4
25	MP2A	X	-9.519	4
26	MP2A	Z	-5.496	4
27	MP2A	Mx	-.005	4
28	MP1A	X	-16.274	2.5
29	MP1A	Z	-9.396	2.5
30	MP1A	Mx	.008	2.5
31	MP1A	X	-16.274	5.5
32	MP1A	Z	-9.396	5.5
33	MP1A	Mx	.008	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-13.124	1.5
2	MP2A	Z	-22.732	1.5
3	MP2A	Mx	.02	1.5
4	MP2A	X	-13.124	6.5
5	MP2A	Z	-22.732	6.5
6	MP2A	Mx	.02	6.5
7	MP2A	X	-13.124	1.5
8	MP2A	Z	-22.732	1.5
9	MP2A	Mx	-.007	1.5
10	MP2A	X	-13.124	6.5
11	MP2A	Z	-22.732	6.5
12	MP2A	Mx	-.007	6.5
13	MP4A	X	-7.344	3
14	MP4A	Z	-12.72	3
15	MP4A	Mx	.004	3
16	MP4A	X	-7.344	5
17	MP4A	Z	-12.72	5
18	MP4A	Mx	.004	5
19	OVP	X	-11.808	2.5
20	OVP	Z	-20.452	2.5
21	OVP	Mx	.012	2.5
22	MP1A	X	-6.859	4
23	MP1A	Z	-11.88	4
24	MP1A	Mx	-.003	4
25	MP2A	X	-6.762	4
26	MP2A	Z	-11.713	4
27	MP2A	Mx	-.003	4
28	MP1A	X	-12.035	2.5
29	MP1A	Z	-20.846	2.5
30	MP1A	Mx	.006	2.5
31	MP1A	X	-12.035	5.5
32	MP1A	Z	-20.846	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP1A	Mx	.006	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1.5
2	MP2A	Z	-8.79	1.5
3	MP2A	Mx	.005	1.5
4	MP2A	X	0	6.5
5	MP2A	Z	-8.79	6.5
6	MP2A	Mx	.005	6.5
7	MP2A	X	0	1.5
8	MP2A	Z	-8.79	1.5
9	MP2A	Mx	-.005	1.5
10	MP2A	X	0	6.5
11	MP2A	Z	-8.79	6.5
12	MP2A	Mx	-.005	6.5
13	MP4A	X	0	3
14	MP4A	Z	-5.113	3
15	MP4A	Mx	0	3
16	MP4A	X	0	5
17	MP4A	Z	-5.113	5
18	MP4A	Mx	0	5
19	OVP	X	0	2.5
20	OVP	Z	-7.605	2.5
21	OVP	Mx	.003	2.5
22	MP1A	X	0	4
23	MP1A	Z	-4.069	4
24	MP1A	Mx	0	4
25	MP2A	X	0	4
26	MP2A	Z	-4.069	4
27	MP2A	Mx	0	4
28	MP1A	X	0	2.5
29	MP1A	Z	-8.235	2.5
30	MP1A	Mx	0	2.5
31	MP1A	X	0	5.5
32	MP1A	Z	-8.235	5.5
33	MP1A	Mx	0	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	4.023	1.5
2	MP2A	Z	-6.968	1.5
3	MP2A	Mx	.002	1.5
4	MP2A	X	4.023	6.5
5	MP2A	Z	-6.968	6.5
6	MP2A	Mx	.002	6.5
7	MP2A	X	4.023	1.5
8	MP2A	Z	-6.968	1.5
9	MP2A	Mx	-.006	1.5
10	MP2A	X	4.023	6.5
11	MP2A	Z	-6.968	6.5
12	MP2A	Mx	-.006	6.5
13	MP4A	X	2.168	3
14	MP4A	Z	-3.754	3
15	MP4A	Mx	-.001	3
16	MP4A	X	2.168	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP4A	Z	-3.754	5
18	MP4A	Mx	-.001	5
19	OVP	X	4.294	2.5
20	OVP	Z	-7.438	2.5
21	OVP	Mx	.001	2.5
22	MP1A	X	1.866	4
23	MP1A	Z	-3.232	4
24	MP1A	Mx	.000933	4
25	MP2A	X	1.835	4
26	MP2A	Z	-3.179	4
27	MP2A	Mx	.000918	4
28	MP1A	X	3.654	2.5
29	MP1A	Z	-6.328	2.5
30	MP1A	Mx	-.002	2.5
31	MP1A	X	3.654	5.5
32	MP1A	Z	-6.328	5.5
33	MP1A	Mx	-.002	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	5.678	1.5
2	MP2A	Z	-3.278	1.5
3	MP2A	Mx	-.000927	1.5
4	MP2A	X	5.678	6.5
5	MP2A	Z	-3.278	6.5
6	MP2A	Mx	-.000927	6.5
7	MP2A	X	5.678	1.5
8	MP2A	Z	-3.278	1.5
9	MP2A	Mx	-.005	1.5
10	MP2A	X	5.678	6.5
11	MP2A	Z	-3.278	6.5
12	MP2A	Mx	-.005	6.5
13	MP4A	X	2.407	3
14	MP4A	Z	-1.39	3
15	MP4A	Mx	-.001	3
16	MP4A	X	2.407	5
17	MP4A	Z	-1.39	5
18	MP4A	Mx	-.001	5
19	OVP	X	7.595	2.5
20	OVP	Z	-4.385	2.5
21	OVP	Mx	-.000761	2.5
22	MP1A	X	2.647	4
23	MP1A	Z	-1.528	4
24	MP1A	Mx	.001	4
25	MP2A	X	2.488	4
26	MP2A	Z	-1.437	4
27	MP2A	Mx	.001	4
28	MP1A	X	4.721	2.5
29	MP1A	Z	-2.726	2.5
30	MP1A	Mx	-.002	2.5
31	MP1A	X	4.721	5.5
32	MP1A	Z	-2.726	5.5
33	MP1A	Mx	-.002	5.5

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	5.811	1.5
2	MP2A	Z	0	1.5
3	MP2A	Mx	-.003	1.5
4	MP2A	X	5.811	6.5
5	MP2A	Z	0	6.5
6	MP2A	Mx	-.003	6.5
7	MP2A	X	5.811	1.5
8	MP2A	Z	0	1.5
9	MP2A	Mx	-.003	1.5
10	MP2A	X	5.811	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	-.003	6.5
13	MP4A	X	2.002	3
14	MP4A	Z	0	3
15	MP4A	Mx	-.001	3
16	MP4A	X	2.002	5
17	MP4A	Z	0	5
18	MP4A	Mx	-.001	5
19	OVP	X	7.968	2.5
20	OVP	Z	0	2.5
21	OVP	Mx	-.003	2.5
22	MP1A	X	2.72	4
23	MP1A	Z	0	4
24	MP1A	Mx	.001	4
25	MP2A	X	2.475	4
26	MP2A	Z	0	4
27	MP2A	Mx	.001	4
28	MP1A	X	4.524	2.5
29	MP1A	Z	0	2.5
30	MP1A	Mx	-.002	2.5
31	MP1A	X	4.524	5.5
32	MP1A	Z	0	5.5
33	MP1A	Mx	-.002	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	5.678	1.5
2	MP2A	Z	3.278	1.5
3	MP2A	Mx	-.005	1.5
4	MP2A	X	5.678	6.5
5	MP2A	Z	3.278	6.5
6	MP2A	Mx	-.005	6.5
7	MP2A	X	5.678	1.5
8	MP2A	Z	3.278	1.5
9	MP2A	Mx	-.000927	1.5
10	MP2A	X	5.678	6.5
11	MP2A	Z	3.278	6.5
12	MP2A	Mx	-.000927	6.5
13	MP4A	X	2.407	3
14	MP4A	Z	1.39	3
15	MP4A	Mx	-.001	3
16	MP4A	X	2.407	5
17	MP4A	Z	1.39	5
18	MP4A	Mx	-.001	5
19	OVP	X	6.049	2.5
20	OVP	Z	3.492	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	OVP	Mx	-.003	2.5
22	MP1A	X	2.647	4
23	MP1A	Z	1.528	4
24	MP1A	Mx	.001	4
25	MP2A	X	2.488	4
26	MP2A	Z	1.437	4
27	MP2A	Mx	.001	4
28	MP1A	X	4.721	2.5
29	MP1A	Z	2.726	2.5
30	MP1A	Mx	-.002	2.5
31	MP1A	X	4.721	5.5
32	MP1A	Z	2.726	5.5
33	MP1A	Mx	-.002	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	4.023	1.5
2	MP2A	Z	6.968	1.5
3	MP2A	Mx	-.006	1.5
4	MP2A	X	4.023	6.5
5	MP2A	Z	6.968	6.5
6	MP2A	Mx	-.006	6.5
7	MP2A	X	4.023	1.5
8	MP2A	Z	6.968	1.5
9	MP2A	Mx	.002	1.5
10	MP2A	X	4.023	6.5
11	MP2A	Z	6.968	6.5
12	MP2A	Mx	.002	6.5
13	MP4A	X	2.168	3
14	MP4A	Z	3.754	3
15	MP4A	Mx	-.001	3
16	MP4A	X	2.168	5
17	MP4A	Z	3.754	5
18	MP4A	Mx	-.001	5
19	OVP	X	3.401	2.5
20	OVP	Z	5.891	2.5
21	OVP	Mx	-.003	2.5
22	MP1A	X	1.866	4
23	MP1A	Z	3.232	4
24	MP1A	Mx	.000933	4
25	MP2A	X	1.835	4
26	MP2A	Z	3.179	4
27	MP2A	Mx	.000918	4
28	MP1A	X	3.654	2.5
29	MP1A	Z	6.328	2.5
30	MP1A	Mx	-.002	2.5
31	MP1A	X	3.654	5.5
32	MP1A	Z	6.328	5.5
33	MP1A	Mx	-.002	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1.5
2	MP2A	Z	8.79	1.5
3	MP2A	Mx	-.005	1.5
4	MP2A	X	0	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP2A	Z	8.79	6.5
6	MP2A	Mx	-.005	6.5
7	MP2A	X	0	1.5
8	MP2A	Z	8.79	1.5
9	MP2A	Mx	.005	1.5
10	MP2A	X	0	6.5
11	MP2A	Z	8.79	6.5
12	MP2A	Mx	.005	6.5
13	MP4A	X	0	3
14	MP4A	Z	5.113	3
15	MP4A	Mx	0	3
16	MP4A	X	0	5
17	MP4A	Z	5.113	5
18	MP4A	Mx	0	5
19	OVP	X	0	2.5
20	OVP	Z	7.605	2.5
21	OVP	Mx	-.003	2.5
22	MP1A	X	0	4
23	MP1A	Z	4.069	4
24	MP1A	Mx	0	4
25	MP2A	X	0	4
26	MP2A	Z	4.069	4
27	MP2A	Mx	0	4
28	MP1A	X	0	2.5
29	MP1A	Z	8.235	2.5
30	MP1A	Mx	0	2.5
31	MP1A	X	0	5.5
32	MP1A	Z	8.235	5.5
33	MP1A	Mx	0	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-4.023	1.5
2	MP2A	Z	6.968	1.5
3	MP2A	Mx	-.002	1.5
4	MP2A	X	-4.023	6.5
5	MP2A	Z	6.968	6.5
6	MP2A	Mx	-.002	6.5
7	MP2A	X	-4.023	1.5
8	MP2A	Z	6.968	1.5
9	MP2A	Mx	.006	1.5
10	MP2A	X	-4.023	6.5
11	MP2A	Z	6.968	6.5
12	MP2A	Mx	.006	6.5
13	MP4A	X	-2.168	3
14	MP4A	Z	3.754	3
15	MP4A	Mx	.001	3
16	MP4A	X	-2.168	5
17	MP4A	Z	3.754	5
18	MP4A	Mx	.001	5
19	OVP	X	-4.294	2.5
20	OVP	Z	7.438	2.5
21	OVP	Mx	-.001	2.5
22	MP1A	X	-1.866	4
23	MP1A	Z	3.232	4
24	MP1A	Mx	-.000933	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2A	X	-1.835	4
26	MP2A	Z	3.179	4
27	MP2A	Mx	-.000918	4
28	MP1A	X	-3.654	2.5
29	MP1A	Z	6.328	2.5
30	MP1A	Mx	.002	2.5
31	MP1A	X	-3.654	5.5
32	MP1A	Z	6.328	5.5
33	MP1A	Mx	.002	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-5.678	1.5
2	MP2A	Z	3.278	1.5
3	MP2A	Mx	.000927	1.5
4	MP2A	X	-5.678	6.5
5	MP2A	Z	3.278	6.5
6	MP2A	Mx	.000927	6.5
7	MP2A	X	-5.678	1.5
8	MP2A	Z	3.278	1.5
9	MP2A	Mx	.005	1.5
10	MP2A	X	-5.678	6.5
11	MP2A	Z	3.278	6.5
12	MP2A	Mx	.005	6.5
13	MP4A	X	-2.407	3
14	MP4A	Z	1.39	3
15	MP4A	Mx	.001	3
16	MP4A	X	-2.407	5
17	MP4A	Z	1.39	5
18	MP4A	Mx	.001	5
19	OVP	X	-7.595	2.5
20	OVP	Z	4.385	2.5
21	OVP	Mx	.000761	2.5
22	MP1A	X	-2.647	4
23	MP1A	Z	1.528	4
24	MP1A	Mx	-.001	4
25	MP2A	X	-2.488	4
26	MP2A	Z	1.437	4
27	MP2A	Mx	-.001	4
28	MP1A	X	-4.721	2.5
29	MP1A	Z	2.726	2.5
30	MP1A	Mx	.002	2.5
31	MP1A	X	-4.721	5.5
32	MP1A	Z	2.726	5.5
33	MP1A	Mx	.002	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-5.811	1.5
2	MP2A	Z	0	1.5
3	MP2A	Mx	.003	1.5
4	MP2A	X	-5.811	6.5
5	MP2A	Z	0	6.5
6	MP2A	Mx	.003	6.5
7	MP2A	X	-5.811	1.5
8	MP2A	Z	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP2A	Mx	.003	1.5
10	MP2A	X	-5.811	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	.003	6.5
13	MP4A	X	-2.002	3
14	MP4A	Z	0	3
15	MP4A	Mx	.001	3
16	MP4A	X	-2.002	5
17	MP4A	Z	0	5
18	MP4A	Mx	.001	5
19	OVP	X	-7.968	2.5
20	OVP	Z	0	2.5
21	OVP	Mx	.003	2.5
22	MP1A	X	-2.72	4
23	MP1A	Z	0	4
24	MP1A	Mx	-.001	4
25	MP2A	X	-2.475	4
26	MP2A	Z	0	4
27	MP2A	Mx	-.001	4
28	MP1A	X	-4.524	2.5
29	MP1A	Z	0	2.5
30	MP1A	Mx	.002	2.5
31	MP1A	X	-4.524	5.5
32	MP1A	Z	0	5.5
33	MP1A	Mx	.002	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-5.678	1.5
2	MP2A	Z	-3.278	1.5
3	MP2A	Mx	.005	1.5
4	MP2A	X	-5.678	6.5
5	MP2A	Z	-3.278	6.5
6	MP2A	Mx	.005	6.5
7	MP2A	X	-5.678	1.5
8	MP2A	Z	-3.278	1.5
9	MP2A	Mx	.000927	1.5
10	MP2A	X	-5.678	6.5
11	MP2A	Z	-3.278	6.5
12	MP2A	Mx	.000927	6.5
13	MP4A	X	-2.407	3
14	MP4A	Z	-1.39	3
15	MP4A	Mx	.001	3
16	MP4A	X	-2.407	5
17	MP4A	Z	-1.39	5
18	MP4A	Mx	.001	5
19	OVP	X	-6.049	2.5
20	OVP	Z	-3.492	2.5
21	OVP	Mx	.003	2.5
22	MP1A	X	-2.647	4
23	MP1A	Z	-1.528	4
24	MP1A	Mx	-.001	4
25	MP2A	X	-2.488	4
26	MP2A	Z	-1.437	4
27	MP2A	Mx	-.001	4
28	MP1A	X	-4.721	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP1A	Z	-2.726	2.5
30	MP1A	Mx	.002	2.5
31	MP1A	X	-4.721	5.5
32	MP1A	Z	-2.726	5.5
33	MP1A	Mx	.002	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-4.023	1.5
2	MP2A	Z	-6.968	1.5
3	MP2A	Mx	.006	1.5
4	MP2A	X	-4.023	6.5
5	MP2A	Z	-6.968	6.5
6	MP2A	Mx	.006	6.5
7	MP2A	X	-4.023	1.5
8	MP2A	Z	-6.968	1.5
9	MP2A	Mx	-.002	1.5
10	MP2A	X	-4.023	6.5
11	MP2A	Z	-6.968	6.5
12	MP2A	Mx	-.002	6.5
13	MP4A	X	-2.168	3
14	MP4A	Z	-3.754	3
15	MP4A	Mx	.001	3
16	MP4A	X	-2.168	5
17	MP4A	Z	-3.754	5
18	MP4A	Mx	.001	5
19	OVP	X	-3.401	2.5
20	OVP	Z	-5.891	2.5
21	OVP	Mx	.003	2.5
22	MP1A	X	-1.866	4
23	MP1A	Z	-3.232	4
24	MP1A	Mx	-.000933	4
25	MP2A	X	-1.835	4
26	MP2A	Z	-3.179	4
27	MP2A	Mx	-.000918	4
28	MP1A	X	-3.654	2.5
29	MP1A	Z	-6.328	2.5
30	MP1A	Mx	.002	2.5
31	MP1A	X	-3.654	5.5
32	MP1A	Z	-6.328	5.5
33	MP1A	Mx	.002	5.5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%98

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%66

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

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

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	0	1.5
2	MP2A	My	0	1.5
3	MP2A	Mz	0	1.5
4	MP2A	Y	0	6.5
5	MP2A	My	0	6.5
6	MP2A	Mz	0	6.5
7	MP2A	Y	0	1.5
8	MP2A	My	0	1.5
9	MP2A	Mz	0	1.5
10	MP2A	Y	0	6.5
11	MP2A	My	0	6.5
12	MP2A	Mz	0	6.5
13	MP4A	Y	0	3
14	MP4A	My	0	3
15	MP4A	Mz	0	3
16	MP4A	Y	0	5
17	MP4A	My	0	5
18	MP4A	Mz	0	5
19	OVP	Y	0	2.5
20	OVP	My	0	2.5
21	OVP	Mz	0	2.5
22	MP1A	Y	0	4
23	MP1A	My	0	4
24	MP1A	Mz	0	4
25	MP2A	Y	0	4
26	MP2A	My	0	4
27	MP2A	Mz	0	4
28	MP1A	Y	0	2.5
29	MP1A	My	0	2.5
30	MP1A	Mz	0	2.5
31	MP1A	Y	0	5.5
32	MP1A	My	0	5.5
33	MP1A	Mz	0	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Z	-.655	1.5
2	MP2A	Mx	.000382	1.5
3	MP2A	Z	-.655	6.5
4	MP2A	Mx	.000382	6.5
5	MP2A	Z	-.655	1.5
6	MP2A	Mx	-.000382	1.5
7	MP2A	Z	-.655	6.5
8	MP2A	Mx	-.000382	6.5
9	MP4A	Z	-1.306	3
10	MP4A	Mx	0	3
11	MP4A	Z	-1.306	5
12	MP4A	Mx	0	5
13	OVP	Z	-.96	2.5
14	OVP	Mx	.000368	2.5
15	MP1A	Z	-2.241	4
16	MP1A	Mx	0	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP2A	Z	-2.109	4
18	MP2A	Mx	0	4
19	MP1A	Z	-.255	2.5
20	MP1A	Mx	0	2.5
21	MP1A	Z	-.255	5.5
22	MP1A	Mx	0	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	.655	1.5
2	MP2A	Mx	-.000328	1.5
3	MP2A	X	.655	6.5
4	MP2A	Mx	-.000328	6.5
5	MP2A	X	.655	1.5
6	MP2A	Mx	-.000328	1.5
7	MP2A	X	.655	6.5
8	MP2A	Mx	-.000328	6.5
9	MP4A	X	1.306	3
10	MP4A	Mx	-.000653	3
11	MP4A	X	1.306	5
12	MP4A	Mx	-.000653	5
13	OVP	X	.96	2.5
14	OVP	Mx	-.000309	2.5
15	MP1A	X	2.241	4
16	MP1A	Mx	.001	4
17	MP2A	X	2.109	4
18	MP2A	Mx	.001	4
19	MP1A	X	.255	2.5
20	MP1A	Mx	-.000128	2.5
21	MP1A	X	.255	5.5
22	MP1A	Mx	-.000128	5.5

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-9.939	-9.939	0	%100
2	M2	Y	-9.939	-9.939	0	%100
3	M13	Y	-11.399	-11.399	0	%100
4	M14	Y	-11.399	-11.399	0	%100
5	M15	Y	-11.399	-11.399	0	%100
6	M16	Y	-11.399	-11.399	0	%100
7	M17	Y	-8.866	-8.866	0	%100
8	M18	Y	-8.866	-8.866	0	%100
9	M19	Y	-8.866	-8.866	0	%100
10	OVPO	Y	-8.866	-8.866	0	%100
11	M21	Y	-11.399	-11.399	0	%100
12	M22	Y	-11.399	-11.399	0	%100
13	M23	Y	-11.399	-11.399	0	%100
14	M24	Y	-11.399	-11.399	0	%100
15	M25	Y	-5.379	-5.379	0	%100
16	M26	Y	-5.379	-5.379	0	%100
17	M27	Y	-5.379	-5.379	0	%100
18	M28	Y	-5.379	-5.379	0	%100
19	MP4A	Y	-8.866	-8.866	0	%100
20	MP3A	Y	-8.866	-8.866	0	%100
21	MP2A	Y	-8.866	-8.866	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	MP1A	Y	-8.866	-8.866	0	%100
23	M44	Y	-5.111	-5.111	0	%100
24	M45	Y	-5.111	-5.111	0	%100
25	M46	Y	-5.111	-5.111	0	%100
26	M47	Y	-5.111	-5.111	0	%100
27	M43A	Y	-8.866	-8.866	0	%100
28	M44B	Y	-8.866	-8.866	0	%100
29	OVP	Y	-8.866	-8.866	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-9.192	-9.192	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-9.192	-9.192	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	-3.629	-3.629	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-3.629	-3.629	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-3.629	-3.629	0	%100
19	OVPO	X	0	0	0	%100
20	OVPO	Z	-3.629	-3.629	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-1.998	-1.998	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-1.998	-1.998	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-1.998	-1.998	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-1.998	-1.998	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-2.07	-2.07	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-2.07	-2.07	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-2.07	-2.07	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-2.07	-2.07	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-7.593	-7.593	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-7.593	-7.593	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-7.593	-7.593	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-7.593	-7.593	0	%100
45	M44	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
46	M44	Z	-1.998	-1.998	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-1.998	-1.998	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	-1.998	-1.998	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-1.998	-1.998	0	%100
53	M43A	X	0	0	0	%100
54	M43A	Z	-.384	-.384	0	%100
55	M44B	X	0	0	0	%100
56	M44B	Z	-.884	-.884	0	%100
57	OVP	X	0	0	0	%100
58	OVP	Z	-7.593	-7.593	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	3.447	3.447	0	%100
2	M1	Z	-5.97	-5.97	0	%100
3	M2	X	3.447	3.447	0	%100
4	M2	Z	-5.97	-5.97	0	%100
5	M13	X	.25	.25	0	%100
6	M13	Z	-.433	-.433	0	%100
7	M14	X	.25	.25	0	%100
8	M14	Z	-.433	-.433	0	%100
9	M15	X	.25	.25	0	%100
10	M15	Z	-.433	-.433	0	%100
11	M16	X	.25	.25	0	%100
12	M16	Z	-.433	-.433	0	%100
13	M17	X	.409	.409	0	%100
14	M17	Z	-.708	-.708	0	%100
15	M18	X	.409	.409	0	%100
16	M18	Z	-.708	-.708	0	%100
17	M19	X	2.87	2.87	0	%100
18	M19	Z	-4.97	-4.97	0	%100
19	OVPO	X	2.87	2.87	0	%100
20	OVPO	Z	-4.97	-4.97	0	%100
21	M21	X	.749	.749	0	%100
22	M21	Z	-1.298	-1.298	0	%100
23	M22	X	.749	.749	0	%100
24	M22	Z	-1.298	-1.298	0	%100
25	M23	X	.749	.749	0	%100
26	M23	Z	-1.298	-1.298	0	%100
27	M24	X	.749	.749	0	%100
28	M24	Z	-1.298	-1.298	0	%100
29	M25	X	.827	.827	0	%100
30	M25	Z	-1.433	-1.433	0	%100
31	M26	X	.827	.827	0	%100
32	M26	Z	-1.433	-1.433	0	%100
33	M27	X	1.19	1.19	0	%100
34	M27	Z	-2.062	-2.062	0	%100
35	M28	X	1.19	1.19	0	%100
36	M28	Z	-2.062	-2.062	0	%100
37	MP4A	X	3.797	3.797	0	%100
38	MP4A	Z	-6.576	-6.576	0	%100
39	MP3A	X	3.797	3.797	0	%100
40	MP3A	Z	-6.576	-6.576	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
41	MP2A	X	3.797	3.797	0	%100
42	MP2A	Z	-6.576	-6.576	0	%100
43	MP1A	X	3.797	3.797	0	%100
44	MP1A	Z	-6.576	-6.576	0	%100
45	M44	X	.999	.999	0	%100
46	M44	Z	-1.731	-1.731	0	%100
47	M45	X	.999	.999	0	%100
48	M45	Z	-1.731	-1.731	0	%100
49	M46	X	.999	.999	0	%100
50	M46	Z	-1.731	-1.731	0	%100
51	M47	X	.999	.999	0	%100
52	M47	Z	-1.731	-1.731	0	%100
53	M43A	X	.325	.325	0	%100
54	M43A	Z	-.563	-.563	0	%100
55	M44B	X	.116	.116	0	%100
56	M44B	Z	-.2	-.2	0	%100
57	OVP	X	3.797	3.797	0	%100
58	OVP	Z	-6.576	-6.576	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.99	1.99	0	%100
2	M1	Z	-1.149	-1.149	0	%100
3	M2	X	1.99	1.99	0	%100
4	M2	Z	-1.149	-1.149	0	%100
5	M13	X	1.298	1.298	0	%100
6	M13	Z	-.749	-.749	0	%100
7	M14	X	1.298	1.298	0	%100
8	M14	Z	-.749	-.749	0	%100
9	M15	X	1.298	1.298	0	%100
10	M15	Z	-.749	-.749	0	%100
11	M16	X	1.298	1.298	0	%100
12	M16	Z	-.749	-.749	0	%100
13	M17	X	.1	.1	0	%100
14	M17	Z	-.058	-.058	0	%100
15	M18	X	.1	.1	0	%100
16	M18	Z	-.058	-.058	0	%100
17	M19	X	4.363	4.363	0	%100
18	M19	Z	-2.519	-2.519	0	%100
19	OVPO	X	4.363	4.363	0	%100
20	OVPO	Z	-2.519	-2.519	0	%100
21	M21	X	.433	.433	0	%100
22	M21	Z	-.25	-.25	0	%100
23	M22	X	.433	.433	0	%100
24	M22	Z	-.25	-.25	0	%100
25	M23	X	.433	.433	0	%100
26	M23	Z	-.25	-.25	0	%100
27	M24	X	.433	.433	0	%100
28	M24	Z	-.25	-.25	0	%100
29	M25	X	1.344	1.344	0	%100
30	M25	Z	-.776	-.776	0	%100
31	M26	X	1.344	1.344	0	%100
32	M26	Z	-.776	-.776	0	%100
33	M27	X	1.972	1.972	0	%100
34	M27	Z	-1.139	-1.139	0	%100
35	M28	X	1.972	1.972	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
36	M28	Z	-1.139	-1.139	0	%100
37	MP4A	X	6.576	6.576	0	%100
38	MP4A	Z	-3.797	-3.797	0	%100
39	MP3A	X	6.576	6.576	0	%100
40	MP3A	Z	-3.797	-3.797	0	%100
41	MP2A	X	6.576	6.576	0	%100
42	MP2A	Z	-3.797	-3.797	0	%100
43	MP1A	X	6.576	6.576	0	%100
44	MP1A	Z	-3.797	-3.797	0	%100
45	M44	X	1.731	1.731	0	%100
46	M44	Z	-.999	-.999	0	%100
47	M45	X	1.731	1.731	0	%100
48	M45	Z	-.999	-.999	0	%100
49	M46	X	1.731	1.731	0	%100
50	M46	Z	-.999	-.999	0	%100
51	M47	X	1.731	1.731	0	%100
52	M47	Z	-.999	-.999	0	%100
53	M43A	X	3.519	3.519	0	%100
54	M43A	Z	-2.031	-2.031	0	%100
55	M44B	X	2.723	2.723	0	%100
56	M44B	Z	-1.572	-1.572	0	%100
57	OVP	X	6.576	6.576	0	%100
58	OVP	Z	-3.797	-3.797	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	1.998	1.998	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	1.998	1.998	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	1.998	1.998	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	1.998	1.998	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	2.225	2.225	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	2.225	2.225	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	2.225	2.225	0	%100
18	M19	Z	0	0	0	%100
19	OVPO	X	2.225	2.225	0	%100
20	OVPO	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	1.863	1.863	0	%100
30	M25	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
31	M26	X	1.863	1.863	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	1.863	1.863	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	1.863	1.863	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	7.593	7.593	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	7.593	7.593	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	7.593	7.593	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	7.593	7.593	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	1.998	1.998	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	1.998	1.998	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	1.998	1.998	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	1.998	1.998	0	%100
52	M47	Z	0	0	0	%100
53	M43A	X	7.21	7.21	0	%100
54	M43A	Z	0	0	0	%100
55	M44B	X	6.71	6.71	0	%100
56	M44B	Z	0	0	0	%100
57	OVP	X	7.593	7.593	0	%100
58	OVP	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.99	1.99	0	%100
2	M1	Z	1.149	1.149	0	%100
3	M2	X	1.99	1.99	0	%100
4	M2	Z	1.149	1.149	0	%100
5	M13	X	1.298	1.298	0	%100
6	M13	Z	.749	.749	0	%100
7	M14	X	1.298	1.298	0	%100
8	M14	Z	.749	.749	0	%100
9	M15	X	1.298	1.298	0	%100
10	M15	Z	.749	.749	0	%100
11	M16	X	1.298	1.298	0	%100
12	M16	Z	.749	.749	0	%100
13	M17	X	4.363	4.363	0	%100
14	M17	Z	2.519	2.519	0	%100
15	M18	X	4.363	4.363	0	%100
16	M18	Z	2.519	2.519	0	%100
17	M19	X	.1	.1	0	%100
18	M19	Z	.058	.058	0	%100
19	OVPO	X	.1	.1	0	%100
20	OVPO	Z	.058	.058	0	%100
21	M21	X	.433	.433	0	%100
22	M21	Z	.25	.25	0	%100
23	M22	X	.433	.433	0	%100
24	M22	Z	.25	.25	0	%100
25	M23	X	.433	.433	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
26	M23	Z	.25	.25	0	%100
27	M24	X	.433	.433	0	%100
28	M24	Z	.25	.25	0	%100
29	M25	X	1.972	1.972	0	%100
30	M25	Z	1.139	1.139	0	%100
31	M26	X	1.972	1.972	0	%100
32	M26	Z	1.139	1.139	0	%100
33	M27	X	1.344	1.344	0	%100
34	M27	Z	.776	.776	0	%100
35	M28	X	1.344	1.344	0	%100
36	M28	Z	.776	.776	0	%100
37	MP4A	X	6.576	6.576	0	%100
38	MP4A	Z	3.797	3.797	0	%100
39	MP3A	X	6.576	6.576	0	%100
40	MP3A	Z	3.797	3.797	0	%100
41	MP2A	X	6.576	6.576	0	%100
42	MP2A	Z	3.797	3.797	0	%100
43	MP1A	X	6.576	6.576	0	%100
44	MP1A	Z	3.797	3.797	0	%100
45	M44	X	1.731	1.731	0	%100
46	M44	Z	.999	.999	0	%100
47	M45	X	1.731	1.731	0	%100
48	M45	Z	.999	.999	0	%100
49	M46	X	1.731	1.731	0	%100
50	M46	Z	.999	.999	0	%100
51	M47	X	1.731	1.731	0	%100
52	M47	Z	.999	.999	0	%100
53	M43A	X	6.013	6.013	0	%100
54	M43A	Z	3.472	3.472	0	%100
55	M44B	X	6.376	6.376	0	%100
56	M44B	Z	3.681	3.681	0	%100
57	OVP	X	6.576	6.576	0	%100
58	OVP	Z	3.797	3.797	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	3.447	3.447	0	%100
2	M1	Z	5.97	5.97	0	%100
3	M2	X	3.447	3.447	0	%100
4	M2	Z	5.97	5.97	0	%100
5	M13	X	.25	.25	0	%100
6	M13	Z	.433	.433	0	%100
7	M14	X	.25	.25	0	%100
8	M14	Z	.433	.433	0	%100
9	M15	X	.25	.25	0	%100
10	M15	Z	.433	.433	0	%100
11	M16	X	.25	.25	0	%100
12	M16	Z	.433	.433	0	%100
13	M17	X	2.87	2.87	0	%100
14	M17	Z	4.97	4.97	0	%100
15	M18	X	2.87	2.87	0	%100
16	M18	Z	4.97	4.97	0	%100
17	M19	X	.409	.409	0	%100
18	M19	Z	.708	.708	0	%100
19	OVPO	X	.409	.409	0	%100
20	OVPO	Z	.708	.708	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
21	M21	X	.749	.749	0	%100
22	M21	Z	1.298	1.298	0	%100
23	M22	X	.749	.749	0	%100
24	M22	Z	1.298	1.298	0	%100
25	M23	X	.749	.749	0	%100
26	M23	Z	1.298	1.298	0	%100
27	M24	X	.749	.749	0	%100
28	M24	Z	1.298	1.298	0	%100
29	M25	X	1.19	1.19	0	%100
30	M25	Z	2.062	2.062	0	%100
31	M26	X	1.19	1.19	0	%100
32	M26	Z	2.062	2.062	0	%100
33	M27	X	.827	.827	0	%100
34	M27	Z	1.433	1.433	0	%100
35	M28	X	.827	.827	0	%100
36	M28	Z	1.433	1.433	0	%100
37	MP4A	X	3.797	3.797	0	%100
38	MP4A	Z	6.576	6.576	0	%100
39	MP3A	X	3.797	3.797	0	%100
40	MP3A	Z	6.576	6.576	0	%100
41	MP2A	X	3.797	3.797	0	%100
42	MP2A	Z	6.576	6.576	0	%100
43	MP1A	X	3.797	3.797	0	%100
44	MP1A	Z	6.576	6.576	0	%100
45	M44	X	.999	.999	0	%100
46	M44	Z	1.731	1.731	0	%100
47	M45	X	.999	.999	0	%100
48	M45	Z	1.731	1.731	0	%100
49	M46	X	.999	.999	0	%100
50	M46	Z	1.731	1.731	0	%100
51	M47	X	.999	.999	0	%100
52	M47	Z	1.731	1.731	0	%100
53	M43A	X	1.765	1.765	0	%100
54	M43A	Z	3.057	3.057	0	%100
55	M44B	X	2.224	2.224	0	%100
56	M44B	Z	3.853	3.853	0	%100
57	OVP	X	3.797	3.797	0	%100
58	OVP	Z	6.576	6.576	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	9.192	9.192	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	9.192	9.192	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	3.629	3.629	0	%100
15	M18	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
16	M18	Z	3.629	3.629	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	3.629	3.629	0	%100
19	OVPO	X	0	0	0	%100
20	OVPO	Z	3.629	3.629	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	1.998	1.998	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	1.998	1.998	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	1.998	1.998	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	1.998	1.998	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	2.07	2.07	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	2.07	2.07	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	2.07	2.07	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	2.07	2.07	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	7.593	7.593	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	7.593	7.593	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	7.593	7.593	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	7.593	7.593	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	1.998	1.998	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	1.998	1.998	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	1.998	1.998	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	1.998	1.998	0	%100
53	M43A	X	0	0	0	%100
54	M43A	Z	.384	.384	0	%100
55	M44B	X	0	0	0	%100
56	M44B	Z	.884	.884	0	%100
57	OVP	X	0	0	0	%100
58	OVP	Z	7.593	7.593	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-3.447	-3.447	0	%100
2	M1	Z	5.97	5.97	0	%100
3	M2	X	-3.447	-3.447	0	%100
4	M2	Z	5.97	5.97	0	%100
5	M13	X	-.25	-.25	0	%100
6	M13	Z	.433	.433	0	%100
7	M14	X	-.25	-.25	0	%100
8	M14	Z	.433	.433	0	%100
9	M15	X	-.25	-.25	0	%100
10	M15	Z	.433	.433	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
11	M16	X	-.25	-.25	0	%100
12	M16	Z	.433	.433	0	%100
13	M17	X	-.409	-.409	0	%100
14	M17	Z	.708	.708	0	%100
15	M18	X	-.409	-.409	0	%100
16	M18	Z	.708	.708	0	%100
17	M19	X	-2.87	-2.87	0	%100
18	M19	Z	4.97	4.97	0	%100
19	OVPO	X	-2.87	-2.87	0	%100
20	OVPO	Z	4.97	4.97	0	%100
21	M21	X	-.749	-.749	0	%100
22	M21	Z	1.298	1.298	0	%100
23	M22	X	-.749	-.749	0	%100
24	M22	Z	1.298	1.298	0	%100
25	M23	X	-.749	-.749	0	%100
26	M23	Z	1.298	1.298	0	%100
27	M24	X	-.749	-.749	0	%100
28	M24	Z	1.298	1.298	0	%100
29	M25	X	-.827	-.827	0	%100
30	M25	Z	1.433	1.433	0	%100
31	M26	X	-.827	-.827	0	%100
32	M26	Z	1.433	1.433	0	%100
33	M27	X	-1.19	-1.19	0	%100
34	M27	Z	2.062	2.062	0	%100
35	M28	X	-1.19	-1.19	0	%100
36	M28	Z	2.062	2.062	0	%100
37	MP4A	X	-3.797	-3.797	0	%100
38	MP4A	Z	6.576	6.576	0	%100
39	MP3A	X	-3.797	-3.797	0	%100
40	MP3A	Z	6.576	6.576	0	%100
41	MP2A	X	-3.797	-3.797	0	%100
42	MP2A	Z	6.576	6.576	0	%100
43	MP1A	X	-3.797	-3.797	0	%100
44	MP1A	Z	6.576	6.576	0	%100
45	M44	X	-.999	-.999	0	%100
46	M44	Z	1.731	1.731	0	%100
47	M45	X	-.999	-.999	0	%100
48	M45	Z	1.731	1.731	0	%100
49	M46	X	-.999	-.999	0	%100
50	M46	Z	1.731	1.731	0	%100
51	M47	X	-.999	-.999	0	%100
52	M47	Z	1.731	1.731	0	%100
53	M43A	X	-.325	-.325	0	%100
54	M43A	Z	.563	.563	0	%100
55	M44B	X	-.116	-.116	0	%100
56	M44B	Z	.2	.2	0	%100
57	OVP	X	-3.797	-3.797	0	%100
58	OVP	Z	6.576	6.576	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.99	-1.99	0	%100
2	M1	Z	1.149	1.149	0	%100
3	M2	X	-1.99	-1.99	0	%100
4	M2	Z	1.149	1.149	0	%100
5	M13	X	-1.298	-1.298	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
6	M13	Z	.749	.749	0	%100
7	M14	X	-1.298	-1.298	0	%100
8	M14	Z	.749	.749	0	%100
9	M15	X	-1.298	-1.298	0	%100
10	M15	Z	.749	.749	0	%100
11	M16	X	-1.298	-1.298	0	%100
12	M16	Z	.749	.749	0	%100
13	M17	X	-.1	-.1	0	%100
14	M17	Z	.058	.058	0	%100
15	M18	X	-.1	-.1	0	%100
16	M18	Z	.058	.058	0	%100
17	M19	X	-4.363	-4.363	0	%100
18	M19	Z	2.519	2.519	0	%100
19	OVPO	X	-4.363	-4.363	0	%100
20	OVPO	Z	2.519	2.519	0	%100
21	M21	X	-.433	-.433	0	%100
22	M21	Z	.25	.25	0	%100
23	M22	X	-.433	-.433	0	%100
24	M22	Z	.25	.25	0	%100
25	M23	X	-.433	-.433	0	%100
26	M23	Z	.25	.25	0	%100
27	M24	X	-.433	-.433	0	%100
28	M24	Z	.25	.25	0	%100
29	M25	X	-1.344	-1.344	0	%100
30	M25	Z	.776	.776	0	%100
31	M26	X	-1.344	-1.344	0	%100
32	M26	Z	.776	.776	0	%100
33	M27	X	-1.972	-1.972	0	%100
34	M27	Z	1.139	1.139	0	%100
35	M28	X	-1.972	-1.972	0	%100
36	M28	Z	1.139	1.139	0	%100
37	MP4A	X	-6.576	-6.576	0	%100
38	MP4A	Z	3.797	3.797	0	%100
39	MP3A	X	-6.576	-6.576	0	%100
40	MP3A	Z	3.797	3.797	0	%100
41	MP2A	X	-6.576	-6.576	0	%100
42	MP2A	Z	3.797	3.797	0	%100
43	MP1A	X	-6.576	-6.576	0	%100
44	MP1A	Z	3.797	3.797	0	%100
45	M44	X	-1.731	-1.731	0	%100
46	M44	Z	.999	.999	0	%100
47	M45	X	-1.731	-1.731	0	%100
48	M45	Z	.999	.999	0	%100
49	M46	X	-1.731	-1.731	0	%100
50	M46	Z	.999	.999	0	%100
51	M47	X	-1.731	-1.731	0	%100
52	M47	Z	.999	.999	0	%100
53	M43A	X	-3.519	-3.519	0	%100
54	M43A	Z	2.031	2.031	0	%100
55	M44B	X	-2.723	-2.723	0	%100
56	M44B	Z	1.572	1.572	0	%100
57	OVP	X	-6.576	-6.576	0	%100
58	OVP	Z	3.797	3.797	0	%100

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

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

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-1.998	-1.998	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-1.998	-1.998	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-1.998	-1.998	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-1.998	-1.998	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-2.225	-2.225	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-2.225	-2.225	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-2.225	-2.225	0	%100
18	M19	Z	0	0	0	%100
19	OVPO	X	-2.225	-2.225	0	%100
20	OVPO	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	-1.863	-1.863	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-1.863	-1.863	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-1.863	-1.863	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-1.863	-1.863	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	-7.593	-7.593	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-7.593	-7.593	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	-7.593	-7.593	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	-7.593	-7.593	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	-1.998	-1.998	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	-1.998	-1.998	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	-1.998	-1.998	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	-1.998	-1.998	0	%100
52	M47	Z	0	0	0	%100
53	M43A	X	-7.21	-7.21	0	%100
54	M43A	Z	0	0	0	%100
55	M44B	X	-6.71	-6.71	0	%100
56	M44B	Z	0	0	0	%100
57	OVP	X	-7.593	-7.593	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	OVP	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.99	-1.99	0	%100
2	M1	Z	-1.149	-1.149	0	%100
3	M2	X	-1.99	-1.99	0	%100
4	M2	Z	-1.149	-1.149	0	%100
5	M13	X	-1.298	-1.298	0	%100
6	M13	Z	-.749	-.749	0	%100
7	M14	X	-1.298	-1.298	0	%100
8	M14	Z	-.749	-.749	0	%100
9	M15	X	-1.298	-1.298	0	%100
10	M15	Z	-.749	-.749	0	%100
11	M16	X	-1.298	-1.298	0	%100
12	M16	Z	-.749	-.749	0	%100
13	M17	X	-4.363	-4.363	0	%100
14	M17	Z	-2.519	-2.519	0	%100
15	M18	X	-4.363	-4.363	0	%100
16	M18	Z	-2.519	-2.519	0	%100
17	M19	X	-.1	-.1	0	%100
18	M19	Z	-.058	-.058	0	%100
19	OVPO	X	-.1	-.1	0	%100
20	OVPO	Z	-.058	-.058	0	%100
21	M21	X	-.433	-.433	0	%100
22	M21	Z	-.25	-.25	0	%100
23	M22	X	-.433	-.433	0	%100
24	M22	Z	-.25	-.25	0	%100
25	M23	X	-.433	-.433	0	%100
26	M23	Z	-.25	-.25	0	%100
27	M24	X	-.433	-.433	0	%100
28	M24	Z	-.25	-.25	0	%100
29	M25	X	-1.972	-1.972	0	%100
30	M25	Z	-1.139	-1.139	0	%100
31	M26	X	-1.972	-1.972	0	%100
32	M26	Z	-1.139	-1.139	0	%100
33	M27	X	-1.344	-1.344	0	%100
34	M27	Z	-.776	-.776	0	%100
35	M28	X	-1.344	-1.344	0	%100
36	M28	Z	-.776	-.776	0	%100
37	MP4A	X	-6.576	-6.576	0	%100
38	MP4A	Z	-3.797	-3.797	0	%100
39	MP3A	X	-6.576	-6.576	0	%100
40	MP3A	Z	-3.797	-3.797	0	%100
41	MP2A	X	-6.576	-6.576	0	%100
42	MP2A	Z	-3.797	-3.797	0	%100
43	MP1A	X	-6.576	-6.576	0	%100
44	MP1A	Z	-3.797	-3.797	0	%100
45	M44	X	-1.731	-1.731	0	%100
46	M44	Z	-.999	-.999	0	%100
47	M45	X	-1.731	-1.731	0	%100
48	M45	Z	-.999	-.999	0	%100
49	M46	X	-1.731	-1.731	0	%100
50	M46	Z	-.999	-.999	0	%100
51	M47	X	-1.731	-1.731	0	%100
52	M47	Z	-.999	-.999	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
53	M43A	X	-6.013	-6.013	0	%100
54	M43A	Z	-3.472	-3.472	0	%100
55	M44B	X	-6.376	-6.376	0	%100
56	M44B	Z	-3.681	-3.681	0	%100
57	OVP	X	-6.576	-6.576	0	%100
58	OVP	Z	-3.797	-3.797	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-3.447	-3.447	0	%100
2	M1	Z	-5.97	-5.97	0	%100
3	M2	X	-3.447	-3.447	0	%100
4	M2	Z	-5.97	-5.97	0	%100
5	M13	X	-.25	-.25	0	%100
6	M13	Z	-.433	-.433	0	%100
7	M14	X	-.25	-.25	0	%100
8	M14	Z	-.433	-.433	0	%100
9	M15	X	-.25	-.25	0	%100
10	M15	Z	-.433	-.433	0	%100
11	M16	X	-.25	-.25	0	%100
12	M16	Z	-.433	-.433	0	%100
13	M17	X	-2.87	-2.87	0	%100
14	M17	Z	-4.97	-4.97	0	%100
15	M18	X	-2.87	-2.87	0	%100
16	M18	Z	-4.97	-4.97	0	%100
17	M19	X	-.409	-.409	0	%100
18	M19	Z	-.708	-.708	0	%100
19	OVPO	X	-.409	-.409	0	%100
20	OVPO	Z	-.708	-.708	0	%100
21	M21	X	-.749	-.749	0	%100
22	M21	Z	-1.298	-1.298	0	%100
23	M22	X	-.749	-.749	0	%100
24	M22	Z	-1.298	-1.298	0	%100
25	M23	X	-.749	-.749	0	%100
26	M23	Z	-1.298	-1.298	0	%100
27	M24	X	-.749	-.749	0	%100
28	M24	Z	-1.298	-1.298	0	%100
29	M25	X	-1.19	-1.19	0	%100
30	M25	Z	-2.062	-2.062	0	%100
31	M26	X	-1.19	-1.19	0	%100
32	M26	Z	-2.062	-2.062	0	%100
33	M27	X	-.827	-.827	0	%100
34	M27	Z	-1.433	-1.433	0	%100
35	M28	X	-.827	-.827	0	%100
36	M28	Z	-1.433	-1.433	0	%100
37	MP4A	X	-3.797	-3.797	0	%100
38	MP4A	Z	-6.576	-6.576	0	%100
39	MP3A	X	-3.797	-3.797	0	%100
40	MP3A	Z	-6.576	-6.576	0	%100
41	MP2A	X	-3.797	-3.797	0	%100
42	MP2A	Z	-6.576	-6.576	0	%100
43	MP1A	X	-3.797	-3.797	0	%100
44	MP1A	Z	-6.576	-6.576	0	%100
45	M44	X	-.999	-.999	0	%100
46	M44	Z	-1.731	-1.731	0	%100
47	M45	X	-.999	-.999	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
48	M45	Z	-1.731	-1.731	0	%100
49	M46	X	-.999	-.999	0	%100
50	M46	Z	-1.731	-1.731	0	%100
51	M47	X	-.999	-.999	0	%100
52	M47	Z	-1.731	-1.731	0	%100
53	M43A	X	-1.765	-1.765	0	%100
54	M43A	Z	-3.057	-3.057	0	%100
55	M44B	X	-2.224	-2.224	0	%100
56	M44B	Z	-3.853	-3.853	0	%100
57	OVP	X	-3.797	-3.797	0	%100
58	OVP	Z	-6.576	-6.576	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-3.861	-3.861	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-3.861	-3.861	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	-1.601	-1.601	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-1.601	-1.601	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-1.601	-1.601	0	%100
19	OVPO	X	0	0	0	%100
20	OVPO	Z	-1.601	-1.601	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-1.616	-1.616	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-1.616	-1.616	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-1.616	-1.616	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-1.616	-1.616	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-1.858	-1.858	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-1.858	-1.858	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-1.858	-1.858	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-1.858	-1.858	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-3.559	-3.559	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-3.559	-3.559	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-3.559	-3.559	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-3.559	-3.559	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	-1.966	-1.966	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-1.966	-1.966	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	-1.966	-1.966	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-1.966	-1.966	0	%100
53	M43A	X	0	0	0	%100
54	M43A	Z	-.18	-.18	0	%100
55	M44B	X	0	0	0	%100
56	M44B	Z	-.41	-.41	0	%100
57	OVP	X	0	0	0	%100
58	OVP	Z	-3.381	-3.381	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.448	1.448	0	%100
2	M1	Z	-2.508	-2.508	0	%100
3	M2	X	1.448	1.448	0	%100
4	M2	Z	-2.508	-2.508	0	%100
5	M13	X	.202	.202	0	%100
6	M13	Z	-.35	-.35	0	%100
7	M14	X	.202	.202	0	%100
8	M14	Z	-.35	-.35	0	%100
9	M15	X	.202	.202	0	%100
10	M15	Z	-.35	-.35	0	%100
11	M16	X	.202	.202	0	%100
12	M16	Z	-.35	-.35	0	%100
13	M17	X	.18	.18	0	%100
14	M17	Z	-.312	-.312	0	%100
15	M18	X	.18	.18	0	%100
16	M18	Z	-.312	-.312	0	%100
17	M19	X	1.266	1.266	0	%100
18	M19	Z	-2.193	-2.193	0	%100
19	OVPO	X	1.266	1.266	0	%100
20	OVPO	Z	-2.193	-2.193	0	%100
21	M21	X	.606	.606	0	%100
22	M21	Z	-1.05	-1.05	0	%100
23	M22	X	.606	.606	0	%100
24	M22	Z	-1.05	-1.05	0	%100
25	M23	X	.606	.606	0	%100
26	M23	Z	-1.05	-1.05	0	%100
27	M24	X	.606	.606	0	%100
28	M24	Z	-1.05	-1.05	0	%100
29	M25	X	.743	.743	0	%100
30	M25	Z	-1.287	-1.287	0	%100
31	M26	X	.743	.743	0	%100
32	M26	Z	-1.287	-1.287	0	%100
33	M27	X	1.069	1.069	0	%100
34	M27	Z	-1.852	-1.852	0	%100
35	M28	X	1.069	1.069	0	%100
36	M28	Z	-1.852	-1.852	0	%100
37	MP4A	X	1.779	1.779	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
38	MP4A	Z	-3.082	-3.082	0	%100
39	MP3A	X	1.779	1.779	0	%100
40	MP3A	Z	-3.082	-3.082	0	%100
41	MP2A	X	1.779	1.779	0	%100
42	MP2A	Z	-3.082	-3.082	0	%100
43	MP1A	X	1.779	1.779	0	%100
44	MP1A	Z	-3.082	-3.082	0	%100
45	M44	X	.983	.983	0	%100
46	M44	Z	-1.702	-1.702	0	%100
47	M45	X	.983	.983	0	%100
48	M45	Z	-1.702	-1.702	0	%100
49	M46	X	.983	.983	0	%100
50	M46	Z	-1.702	-1.702	0	%100
51	M47	X	.983	.983	0	%100
52	M47	Z	-1.702	-1.702	0	%100
53	M43A	X	.152	.152	0	%100
54	M43A	Z	-.264	-.264	0	%100
55	M44B	X	.054	.054	0	%100
56	M44B	Z	-.093	-.093	0	%100
57	OVP	X	1.691	1.691	0	%100
58	OVP	Z	-2.928	-2.928	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.836	.836	0	%100
2	M1	Z	-.483	-.483	0	%100
3	M2	X	.836	.836	0	%100
4	M2	Z	-.483	-.483	0	%100
5	M13	X	1.05	1.05	0	%100
6	M13	Z	-.606	-.606	0	%100
7	M14	X	1.05	1.05	0	%100
8	M14	Z	-.606	-.606	0	%100
9	M15	X	1.05	1.05	0	%100
10	M15	Z	-.606	-.606	0	%100
11	M16	X	1.05	1.05	0	%100
12	M16	Z	-.606	-.606	0	%100
13	M17	X	.044	.044	0	%100
14	M17	Z	-.025	-.025	0	%100
15	M18	X	.044	.044	0	%100
16	M18	Z	-.025	-.025	0	%100
17	M19	X	1.925	1.925	0	%100
18	M19	Z	-1.111	-1.111	0	%100
19	OVPO	X	1.925	1.925	0	%100
20	OVPO	Z	-1.111	-1.111	0	%100
21	M21	X	.35	.35	0	%100
22	M21	Z	-.202	-.202	0	%100
23	M22	X	.35	.35	0	%100
24	M22	Z	-.202	-.202	0	%100
25	M23	X	.35	.35	0	%100
26	M23	Z	-.202	-.202	0	%100
27	M24	X	.35	.35	0	%100
28	M24	Z	-.202	-.202	0	%100
29	M25	X	1.206	1.206	0	%100
30	M25	Z	-.697	-.697	0	%100
31	M26	X	1.206	1.206	0	%100
32	M26	Z	-.697	-.697	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
33	M27	X	1.771	1.771	0	%100
34	M27	Z	-1.022	-1.022	0	%100
35	M28	X	1.771	1.771	0	%100
36	M28	Z	-1.022	-1.022	0	%100
37	MP4A	X	3.082	3.082	0	%100
38	MP4A	Z	-1.779	-1.779	0	%100
39	MP3A	X	3.082	3.082	0	%100
40	MP3A	Z	-1.779	-1.779	0	%100
41	MP2A	X	3.082	3.082	0	%100
42	MP2A	Z	-1.779	-1.779	0	%100
43	MP1A	X	3.082	3.082	0	%100
44	MP1A	Z	-1.779	-1.779	0	%100
45	M44	X	1.702	1.702	0	%100
46	M44	Z	-.983	-.983	0	%100
47	M45	X	1.702	1.702	0	%100
48	M45	Z	-.983	-.983	0	%100
49	M46	X	1.702	1.702	0	%100
50	M46	Z	-.983	-.983	0	%100
51	M47	X	1.702	1.702	0	%100
52	M47	Z	-.983	-.983	0	%100
53	M43A	X	1.649	1.649	0	%100
54	M43A	Z	-.952	-.952	0	%100
55	M44B	X	1.262	1.262	0	%100
56	M44B	Z	-.729	-.729	0	%100
57	OVP	X	2.928	2.928	0	%100
58	OVP	Z	-1.691	-1.691	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	1.616	1.616	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	1.616	1.616	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	1.616	1.616	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	1.616	1.616	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	.982	.982	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	.982	.982	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	.982	.982	0	%100
18	M19	Z	0	0	0	%100
19	OVPO	X	.982	.982	0	%100
20	OVPO	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

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
28	M24	Z	0	0	0	%100
29	M25	X	1.673	1.673	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	1.673	1.673	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	1.673	1.673	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	1.673	1.673	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	3.559	3.559	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	3.559	3.559	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	3.559	3.559	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	3.559	3.559	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	1.966	1.966	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	1.966	1.966	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	1.966	1.966	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	1.966	1.966	0	%100
52	M47	Z	0	0	0	%100
53	M43A	X	3.379	3.379	0	%100
54	M43A	Z	0	0	0	%100
55	M44B	X	3.11	3.11	0	%100
56	M44B	Z	0	0	0	%100
57	OVP	X	3.381	3.381	0	%100
58	OVP	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.836	.836	0	%100
2	M1	Z	.483	.483	0	%100
3	M2	X	.836	.836	0	%100
4	M2	Z	.483	.483	0	%100
5	M13	X	1.05	1.05	0	%100
6	M13	Z	.606	.606	0	%100
7	M14	X	1.05	1.05	0	%100
8	M14	Z	.606	.606	0	%100
9	M15	X	1.05	1.05	0	%100
10	M15	Z	.606	.606	0	%100
11	M16	X	1.05	1.05	0	%100
12	M16	Z	.606	.606	0	%100
13	M17	X	1.925	1.925	0	%100
14	M17	Z	1.111	1.111	0	%100
15	M18	X	1.925	1.925	0	%100
16	M18	Z	1.111	1.111	0	%100
17	M19	X	.044	.044	0	%100
18	M19	Z	.025	.025	0	%100
19	OVPO	X	.044	.044	0	%100
20	OVPO	Z	.025	.025	0	%100
21	M21	X	.35	.35	0	%100
22	M21	Z	.202	.202	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
23	M22	X	.35	.35	0	%100
24	M22	Z	.202	.202	0	%100
25	M23	X	.35	.35	0	%100
26	M23	Z	.202	.202	0	%100
27	M24	X	.35	.35	0	%100
28	M24	Z	.202	.202	0	%100
29	M25	X	1.771	1.771	0	%100
30	M25	Z	1.022	1.022	0	%100
31	M26	X	1.771	1.771	0	%100
32	M26	Z	1.022	1.022	0	%100
33	M27	X	1.206	1.206	0	%100
34	M27	Z	.697	.697	0	%100
35	M28	X	1.206	1.206	0	%100
36	M28	Z	.697	.697	0	%100
37	MP4A	X	3.082	3.082	0	%100
38	MP4A	Z	1.779	1.779	0	%100
39	MP3A	X	3.082	3.082	0	%100
40	MP3A	Z	1.779	1.779	0	%100
41	MP2A	X	3.082	3.082	0	%100
42	MP2A	Z	1.779	1.779	0	%100
43	MP1A	X	3.082	3.082	0	%100
44	MP1A	Z	1.779	1.779	0	%100
45	M44	X	1.702	1.702	0	%100
46	M44	Z	.983	.983	0	%100
47	M45	X	1.702	1.702	0	%100
48	M45	Z	.983	.983	0	%100
49	M46	X	1.702	1.702	0	%100
50	M46	Z	.983	.983	0	%100
51	M47	X	1.702	1.702	0	%100
52	M47	Z	.983	.983	0	%100
53	M43A	X	2.818	2.818	0	%100
54	M43A	Z	1.627	1.627	0	%100
55	M44B	X	2.956	2.956	0	%100
56	M44B	Z	1.706	1.706	0	%100
57	OVP	X	2.928	2.928	0	%100
58	OVP	Z	1.691	1.691	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.448	1.448	0	%100
2	M1	Z	2.508	2.508	0	%100
3	M2	X	1.448	1.448	0	%100
4	M2	Z	2.508	2.508	0	%100
5	M13	X	.202	.202	0	%100
6	M13	Z	.35	.35	0	%100
7	M14	X	.202	.202	0	%100
8	M14	Z	.35	.35	0	%100
9	M15	X	.202	.202	0	%100
10	M15	Z	.35	.35	0	%100
11	M16	X	.202	.202	0	%100
12	M16	Z	.35	.35	0	%100
13	M17	X	1.266	1.266	0	%100
14	M17	Z	2.193	2.193	0	%100
15	M18	X	1.266	1.266	0	%100
16	M18	Z	2.193	2.193	0	%100
17	M19	X	.18	.18	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
18	M19	Z	.312	.312	0	%100
19	OVPO	X	.18	.18	0	%100
20	OVPO	Z	.312	.312	0	%100
21	M21	X	.606	.606	0	%100
22	M21	Z	1.05	1.05	0	%100
23	M22	X	.606	.606	0	%100
24	M22	Z	1.05	1.05	0	%100
25	M23	X	.606	.606	0	%100
26	M23	Z	1.05	1.05	0	%100
27	M24	X	.606	.606	0	%100
28	M24	Z	1.05	1.05	0	%100
29	M25	X	1.069	1.069	0	%100
30	M25	Z	1.852	1.852	0	%100
31	M26	X	1.069	1.069	0	%100
32	M26	Z	1.852	1.852	0	%100
33	M27	X	.743	.743	0	%100
34	M27	Z	1.287	1.287	0	%100
35	M28	X	.743	.743	0	%100
36	M28	Z	1.287	1.287	0	%100
37	MP4A	X	1.779	1.779	0	%100
38	MP4A	Z	3.082	3.082	0	%100
39	MP3A	X	1.779	1.779	0	%100
40	MP3A	Z	3.082	3.082	0	%100
41	MP2A	X	1.779	1.779	0	%100
42	MP2A	Z	3.082	3.082	0	%100
43	MP1A	X	1.779	1.779	0	%100
44	MP1A	Z	3.082	3.082	0	%100
45	M44	X	.983	.983	0	%100
46	M44	Z	1.702	1.702	0	%100
47	M45	X	.983	.983	0	%100
48	M45	Z	1.702	1.702	0	%100
49	M46	X	.983	.983	0	%100
50	M46	Z	1.702	1.702	0	%100
51	M47	X	.983	.983	0	%100
52	M47	Z	1.702	1.702	0	%100
53	M43A	X	.827	.827	0	%100
54	M43A	Z	1.433	1.433	0	%100
55	M44B	X	1.031	1.031	0	%100
56	M44B	Z	1.786	1.786	0	%100
57	OVP	X	1.691	1.691	0	%100
58	OVP	Z	2.928	2.928	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	3.861	3.861	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	3.861	3.861	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

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
13	M17	X	0	0	0	%100
14	M17	Z	1.601	1.601	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	1.601	1.601	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	1.601	1.601	0	%100
19	OVPO	X	0	0	0	%100
20	OVPO	Z	1.601	1.601	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	1.616	1.616	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	1.616	1.616	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	1.616	1.616	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	1.616	1.616	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	1.858	1.858	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	1.858	1.858	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	1.858	1.858	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	1.858	1.858	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	3.559	3.559	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	3.559	3.559	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	3.559	3.559	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	3.559	3.559	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	1.966	1.966	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	1.966	1.966	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	1.966	1.966	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	1.966	1.966	0	%100
53	M43A	X	0	0	0	%100
54	M43A	Z	.18	.18	0	%100
55	M44B	X	0	0	0	%100
56	M44B	Z	.41	.41	0	%100
57	OVP	X	0	0	0	%100
58	OVP	Z	3.381	3.381	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.448	-1.448	0	%100
2	M1	Z	2.508	2.508	0	%100
3	M2	X	-1.448	-1.448	0	%100
4	M2	Z	2.508	2.508	0	%100
5	M13	X	-.202	-.202	0	%100
6	M13	Z	.35	.35	0	%100
7	M14	X	-.202	-.202	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
8	M14	Z	.35	.35	0	%100
9	M15	X	-.202	-.202	0	%100
10	M15	Z	.35	.35	0	%100
11	M16	X	-.202	-.202	0	%100
12	M16	Z	.35	.35	0	%100
13	M17	X	-.18	-.18	0	%100
14	M17	Z	.312	.312	0	%100
15	M18	X	-.18	-.18	0	%100
16	M18	Z	.312	.312	0	%100
17	M19	X	-1.266	-1.266	0	%100
18	M19	Z	2.193	2.193	0	%100
19	OVPO	X	-1.266	-1.266	0	%100
20	OVPO	Z	2.193	2.193	0	%100
21	M21	X	-.606	-.606	0	%100
22	M21	Z	1.05	1.05	0	%100
23	M22	X	-.606	-.606	0	%100
24	M22	Z	1.05	1.05	0	%100
25	M23	X	-.606	-.606	0	%100
26	M23	Z	1.05	1.05	0	%100
27	M24	X	-.606	-.606	0	%100
28	M24	Z	1.05	1.05	0	%100
29	M25	X	-.743	-.743	0	%100
30	M25	Z	1.287	1.287	0	%100
31	M26	X	-.743	-.743	0	%100
32	M26	Z	1.287	1.287	0	%100
33	M27	X	-1.069	-1.069	0	%100
34	M27	Z	1.852	1.852	0	%100
35	M28	X	-1.069	-1.069	0	%100
36	M28	Z	1.852	1.852	0	%100
37	MP4A	X	-1.779	-1.779	0	%100
38	MP4A	Z	3.082	3.082	0	%100
39	MP3A	X	-1.779	-1.779	0	%100
40	MP3A	Z	3.082	3.082	0	%100
41	MP2A	X	-1.779	-1.779	0	%100
42	MP2A	Z	3.082	3.082	0	%100
43	MP1A	X	-1.779	-1.779	0	%100
44	MP1A	Z	3.082	3.082	0	%100
45	M44	X	-.983	-.983	0	%100
46	M44	Z	1.702	1.702	0	%100
47	M45	X	-.983	-.983	0	%100
48	M45	Z	1.702	1.702	0	%100
49	M46	X	-.983	-.983	0	%100
50	M46	Z	1.702	1.702	0	%100
51	M47	X	-.983	-.983	0	%100
52	M47	Z	1.702	1.702	0	%100
53	M43A	X	-.152	-.152	0	%100
54	M43A	Z	.264	.264	0	%100
55	M44B	X	-.054	-.054	0	%100
56	M44B	Z	.093	.093	0	%100
57	OVP	X	-1.691	-1.691	0	%100
58	OVP	Z	2.928	2.928	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.836	-.836	0	%100
2	M1	Z	.483	.483	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
3	M2	X	-.836	-.836	0	%100
4	M2	Z	.483	.483	0	%100
5	M13	X	-1.05	-1.05	0	%100
6	M13	Z	.606	.606	0	%100
7	M14	X	-1.05	-1.05	0	%100
8	M14	Z	.606	.606	0	%100
9	M15	X	-1.05	-1.05	0	%100
10	M15	Z	.606	.606	0	%100
11	M16	X	-1.05	-1.05	0	%100
12	M16	Z	.606	.606	0	%100
13	M17	X	-.044	-.044	0	%100
14	M17	Z	.025	.025	0	%100
15	M18	X	-.044	-.044	0	%100
16	M18	Z	.025	.025	0	%100
17	M19	X	-1.925	-1.925	0	%100
18	M19	Z	1.111	1.111	0	%100
19	OVPO	X	-1.925	-1.925	0	%100
20	OVPO	Z	1.111	1.111	0	%100
21	M21	X	-.35	-.35	0	%100
22	M21	Z	.202	.202	0	%100
23	M22	X	-.35	-.35	0	%100
24	M22	Z	.202	.202	0	%100
25	M23	X	-.35	-.35	0	%100
26	M23	Z	.202	.202	0	%100
27	M24	X	-.35	-.35	0	%100
28	M24	Z	.202	.202	0	%100
29	M25	X	-1.206	-1.206	0	%100
30	M25	Z	.697	.697	0	%100
31	M26	X	-1.206	-1.206	0	%100
32	M26	Z	.697	.697	0	%100
33	M27	X	-1.771	-1.771	0	%100
34	M27	Z	1.022	1.022	0	%100
35	M28	X	-1.771	-1.771	0	%100
36	M28	Z	1.022	1.022	0	%100
37	MP4A	X	-3.082	-3.082	0	%100
38	MP4A	Z	1.779	1.779	0	%100
39	MP3A	X	-3.082	-3.082	0	%100
40	MP3A	Z	1.779	1.779	0	%100
41	MP2A	X	-3.082	-3.082	0	%100
42	MP2A	Z	1.779	1.779	0	%100
43	MP1A	X	-3.082	-3.082	0	%100
44	MP1A	Z	1.779	1.779	0	%100
45	M44	X	-1.702	-1.702	0	%100
46	M44	Z	.983	.983	0	%100
47	M45	X	-1.702	-1.702	0	%100
48	M45	Z	.983	.983	0	%100
49	M46	X	-1.702	-1.702	0	%100
50	M46	Z	.983	.983	0	%100
51	M47	X	-1.702	-1.702	0	%100
52	M47	Z	.983	.983	0	%100
53	M43A	X	-1.649	-1.649	0	%100
54	M43A	Z	.952	.952	0	%100
55	M44B	X	-1.262	-1.262	0	%100
56	M44B	Z	.729	.729	0	%100
57	OVP	X	-2.928	-2.928	0	%100
58	OVP	Z	1.691	1.691	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-1.616	-1.616	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-1.616	-1.616	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-1.616	-1.616	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-1.616	-1.616	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-.982	-.982	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-.982	-.982	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-.982	-.982	0	%100
18	M19	Z	0	0	0	%100
19	OVPO	X	-.982	-.982	0	%100
20	OVPO	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	-1.673	-1.673	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-1.673	-1.673	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-1.673	-1.673	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-1.673	-1.673	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	-3.559	-3.559	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-3.559	-3.559	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	-3.559	-3.559	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	-3.559	-3.559	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	-1.966	-1.966	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	-1.966	-1.966	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	-1.966	-1.966	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	-1.966	-1.966	0	%100
52	M47	Z	0	0	0	%100
53	M43A	X	-3.379	-3.379	0	%100
54	M43A	Z	0	0	0	%100
55	M44B	X	-3.11	-3.11	0	%100
56	M44B	Z	0	0	0	%100
57	OVP	X	-3.381	-3.381	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	OVP	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.836	-.836	0	%100
2	M1	Z	-.483	-.483	0	%100
3	M2	X	-.836	-.836	0	%100
4	M2	Z	-.483	-.483	0	%100
5	M13	X	-1.05	-1.05	0	%100
6	M13	Z	-.606	-.606	0	%100
7	M14	X	-1.05	-1.05	0	%100
8	M14	Z	-.606	-.606	0	%100
9	M15	X	-1.05	-1.05	0	%100
10	M15	Z	-.606	-.606	0	%100
11	M16	X	-1.05	-1.05	0	%100
12	M16	Z	-.606	-.606	0	%100
13	M17	X	-1.925	-1.925	0	%100
14	M17	Z	-1.111	-1.111	0	%100
15	M18	X	-1.925	-1.925	0	%100
16	M18	Z	-1.111	-1.111	0	%100
17	M19	X	-.044	-.044	0	%100
18	M19	Z	-.025	-.025	0	%100
19	OVPO	X	-.044	-.044	0	%100
20	OVPO	Z	-.025	-.025	0	%100
21	M21	X	-.35	-.35	0	%100
22	M21	Z	-.202	-.202	0	%100
23	M22	X	-.35	-.35	0	%100
24	M22	Z	-.202	-.202	0	%100
25	M23	X	-.35	-.35	0	%100
26	M23	Z	-.202	-.202	0	%100
27	M24	X	-.35	-.35	0	%100
28	M24	Z	-.202	-.202	0	%100
29	M25	X	-1.771	-1.771	0	%100
30	M25	Z	-1.022	-1.022	0	%100
31	M26	X	-1.771	-1.771	0	%100
32	M26	Z	-1.022	-1.022	0	%100
33	M27	X	-1.206	-1.206	0	%100
34	M27	Z	-.697	-.697	0	%100
35	M28	X	-1.206	-1.206	0	%100
36	M28	Z	-.697	-.697	0	%100
37	MP4A	X	-3.082	-3.082	0	%100
38	MP4A	Z	-1.779	-1.779	0	%100
39	MP3A	X	-3.082	-3.082	0	%100
40	MP3A	Z	-1.779	-1.779	0	%100
41	MP2A	X	-3.082	-3.082	0	%100
42	MP2A	Z	-1.779	-1.779	0	%100
43	MP1A	X	-3.082	-3.082	0	%100
44	MP1A	Z	-1.779	-1.779	0	%100
45	M44	X	-1.702	-1.702	0	%100
46	M44	Z	-.983	-.983	0	%100
47	M45	X	-1.702	-1.702	0	%100
48	M45	Z	-.983	-.983	0	%100
49	M46	X	-1.702	-1.702	0	%100
50	M46	Z	-.983	-.983	0	%100
51	M47	X	-1.702	-1.702	0	%100
52	M47	Z	-.983	-.983	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
53	M43A	X	-2.818	-2.818	0	%100
54	M43A	Z	-1.627	-1.627	0	%100
55	M44B	X	-2.956	-2.956	0	%100
56	M44B	Z	-1.706	-1.706	0	%100
57	OVP	X	-2.928	-2.928	0	%100
58	OVP	Z	-1.691	-1.691	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.448	-1.448	0	%100
2	M1	Z	-2.508	-2.508	0	%100
3	M2	X	-1.448	-1.448	0	%100
4	M2	Z	-2.508	-2.508	0	%100
5	M13	X	-.202	-.202	0	%100
6	M13	Z	-.35	-.35	0	%100
7	M14	X	-.202	-.202	0	%100
8	M14	Z	-.35	-.35	0	%100
9	M15	X	-.202	-.202	0	%100
10	M15	Z	-.35	-.35	0	%100
11	M16	X	-.202	-.202	0	%100
12	M16	Z	-.35	-.35	0	%100
13	M17	X	-1.266	-1.266	0	%100
14	M17	Z	-2.193	-2.193	0	%100
15	M18	X	-1.266	-1.266	0	%100
16	M18	Z	-2.193	-2.193	0	%100
17	M19	X	-.18	-.18	0	%100
18	M19	Z	-.312	-.312	0	%100
19	OVPO	X	-.18	-.18	0	%100
20	OVPO	Z	-.312	-.312	0	%100
21	M21	X	-.606	-.606	0	%100
22	M21	Z	-1.05	-1.05	0	%100
23	M22	X	-.606	-.606	0	%100
24	M22	Z	-1.05	-1.05	0	%100
25	M23	X	-.606	-.606	0	%100
26	M23	Z	-1.05	-1.05	0	%100
27	M24	X	-.606	-.606	0	%100
28	M24	Z	-1.05	-1.05	0	%100
29	M25	X	-1.069	-1.069	0	%100
30	M25	Z	-1.852	-1.852	0	%100
31	M26	X	-1.069	-1.069	0	%100
32	M26	Z	-1.852	-1.852	0	%100
33	M27	X	-.743	-.743	0	%100
34	M27	Z	-1.287	-1.287	0	%100
35	M28	X	-.743	-.743	0	%100
36	M28	Z	-1.287	-1.287	0	%100
37	MP4A	X	-1.779	-1.779	0	%100
38	MP4A	Z	-3.082	-3.082	0	%100
39	MP3A	X	-1.779	-1.779	0	%100
40	MP3A	Z	-3.082	-3.082	0	%100
41	MP2A	X	-1.779	-1.779	0	%100
42	MP2A	Z	-3.082	-3.082	0	%100
43	MP1A	X	-1.779	-1.779	0	%100
44	MP1A	Z	-3.082	-3.082	0	%100
45	M44	X	-.983	-.983	0	%100
46	M44	Z	-1.702	-1.702	0	%100
47	M45	X	-.983	-.983	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
48	M45	Z	-1.702	-1.702	0	%100
49	M46	X	-.983	-.983	0	%100
50	M46	Z	-1.702	-1.702	0	%100
51	M47	X	-.983	-.983	0	%100
52	M47	Z	-1.702	-1.702	0	%100
53	M43A	X	-.827	-.827	0	%100
54	M43A	Z	-1.433	-1.433	0	%100
55	M44B	X	-1.031	-1.031	0	%100
56	M44B	Z	-1.786	-1.786	0	%100
57	OVP	X	-1.691	-1.691	0	%100
58	OVP	Z	-2.928	-2.928	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-.626	-.626	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.626	-.626	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	-.247	-.247	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-.247	-.247	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-.247	-.247	0	%100
19	OVPO	X	0	0	0	%100
20	OVPO	Z	-.247	-.247	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-.136	-.136	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-.136	-.136	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-.136	-.136	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-.136	-.136	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-.141	-.141	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-.141	-.141	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-.141	-.141	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-.141	-.141	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-.517	-.517	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-.517	-.517	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-.517	-.517	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-.517	-.517	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	-.136	-.136	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-.136	-.136	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	-.136	-.136	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-.136	-.136	0	%100
53	M43A	X	0	0	0	%100
54	M43A	Z	-.026	-.026	0	%100
55	M44B	X	0	0	0	%100
56	M44B	Z	-.06	-.06	0	%100
57	OVP	X	0	0	0	%100
58	OVP	Z	-.517	-.517	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.235	.235	0	%100
2	M1	Z	-.406	-.406	0	%100
3	M2	X	.235	.235	0	%100
4	M2	Z	-.406	-.406	0	%100
5	M13	X	.017	.017	0	%100
6	M13	Z	-.029	-.029	0	%100
7	M14	X	.017	.017	0	%100
8	M14	Z	-.029	-.029	0	%100
9	M15	X	.017	.017	0	%100
10	M15	Z	-.029	-.029	0	%100
11	M16	X	.017	.017	0	%100
12	M16	Z	-.029	-.029	0	%100
13	M17	X	.028	.028	0	%100
14	M17	Z	-.048	-.048	0	%100
15	M18	X	.028	.028	0	%100
16	M18	Z	-.048	-.048	0	%100
17	M19	X	.195	.195	0	%100
18	M19	Z	-.338	-.338	0	%100
19	OVPO	X	.195	.195	0	%100
20	OVPO	Z	-.338	-.338	0	%100
21	M21	X	.051	.051	0	%100
22	M21	Z	-.088	-.088	0	%100
23	M22	X	.051	.051	0	%100
24	M22	Z	-.088	-.088	0	%100
25	M23	X	.051	.051	0	%100
26	M23	Z	-.088	-.088	0	%100
27	M24	X	.051	.051	0	%100
28	M24	Z	-.088	-.088	0	%100
29	M25	X	.056	.056	0	%100
30	M25	Z	-.098	-.098	0	%100
31	M26	X	.056	.056	0	%100
32	M26	Z	-.098	-.098	0	%100
33	M27	X	.081	.081	0	%100
34	M27	Z	-.14	-.14	0	%100
35	M28	X	.081	.081	0	%100
36	M28	Z	-.14	-.14	0	%100
37	MP4A	X	.258	.258	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
38	MP4A	Z	-.448	-.448	0	%100
39	MP3A	X	.258	.258	0	%100
40	MP3A	Z	-.448	-.448	0	%100
41	MP2A	X	.258	.258	0	%100
42	MP2A	Z	-.448	-.448	0	%100
43	MP1A	X	.258	.258	0	%100
44	MP1A	Z	-.448	-.448	0	%100
45	M44	X	.068	.068	0	%100
46	M44	Z	-.118	-.118	0	%100
47	M45	X	.068	.068	0	%100
48	M45	Z	-.118	-.118	0	%100
49	M46	X	.068	.068	0	%100
50	M46	Z	-.118	-.118	0	%100
51	M47	X	.068	.068	0	%100
52	M47	Z	-.118	-.118	0	%100
53	M43A	X	.022	.022	0	%100
54	M43A	Z	-.038	-.038	0	%100
55	M44B	X	.008	.008	0	%100
56	M44B	Z	-.014	-.014	0	%100
57	OVP	X	.258	.258	0	%100
58	OVP	Z	-.448	-.448	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.135	.135	0	%100
2	M1	Z	-.078	-.078	0	%100
3	M2	X	.135	.135	0	%100
4	M2	Z	-.078	-.078	0	%100
5	M13	X	.088	.088	0	%100
6	M13	Z	-.051	-.051	0	%100
7	M14	X	.088	.088	0	%100
8	M14	Z	-.051	-.051	0	%100
9	M15	X	.088	.088	0	%100
10	M15	Z	-.051	-.051	0	%100
11	M16	X	.088	.088	0	%100
12	M16	Z	-.051	-.051	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	.297	.297	0	%100
18	M19	Z	-.171	-.171	0	%100
19	OVPO	X	.297	.297	0	%100
20	OVPO	Z	-.171	-.171	0	%100
21	M21	X	.029	.029	0	%100
22	M21	Z	-.017	-.017	0	%100
23	M22	X	.029	.029	0	%100
24	M22	Z	-.017	-.017	0	%100
25	M23	X	.029	.029	0	%100
26	M23	Z	-.017	-.017	0	%100
27	M24	X	.029	.029	0	%100
28	M24	Z	-.017	-.017	0	%100
29	M25	X	.091	.091	0	%100
30	M25	Z	-.053	-.053	0	%100
31	M26	X	.091	.091	0	%100
32	M26	Z	-.053	-.053	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
33	M27	X	.134	.134	0	%100
34	M27	Z	-.077	-.077	0	%100
35	M28	X	.134	.134	0	%100
36	M28	Z	-.077	-.077	0	%100
37	MP4A	X	.448	.448	0	%100
38	MP4A	Z	-.258	-.258	0	%100
39	MP3A	X	.448	.448	0	%100
40	MP3A	Z	-.258	-.258	0	%100
41	MP2A	X	.448	.448	0	%100
42	MP2A	Z	-.258	-.258	0	%100
43	MP1A	X	.448	.448	0	%100
44	MP1A	Z	-.258	-.258	0	%100
45	M44	X	.118	.118	0	%100
46	M44	Z	-.068	-.068	0	%100
47	M45	X	.118	.118	0	%100
48	M45	Z	-.068	-.068	0	%100
49	M46	X	.118	.118	0	%100
50	M46	Z	-.068	-.068	0	%100
51	M47	X	.118	.118	0	%100
52	M47	Z	-.068	-.068	0	%100
53	M43A	X	.239	.239	0	%100
54	M43A	Z	-.138	-.138	0	%100
55	M44B	X	.185	.185	0	%100
56	M44B	Z	-.107	-.107	0	%100
57	OVP	X	.448	.448	0	%100
58	OVP	Z	-.258	-.258	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	.136	.136	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	.136	.136	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	.136	.136	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	.136	.136	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	.151	.151	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	.151	.151	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	.151	.151	0	%100
18	M19	Z	0	0	0	%100
19	OVPO	X	.151	.151	0	%100
20	OVPO	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

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
28	M24	Z	0	0	0	%100
29	M25	X	.127	.127	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	.127	.127	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	.127	.127	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	.127	.127	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	.517	.517	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	.517	.517	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	.517	.517	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	.517	.517	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	.136	.136	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	.136	.136	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	.136	.136	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	.136	.136	0	%100
52	M47	Z	0	0	0	%100
53	M43A	X	.491	.491	0	%100
54	M43A	Z	0	0	0	%100
55	M44B	X	.457	.457	0	%100
56	M44B	Z	0	0	0	%100
57	OVP	X	.517	.517	0	%100
58	OVP	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.135	.135	0	%100
2	M1	Z	.078	.078	0	%100
3	M2	X	.135	.135	0	%100
4	M2	Z	.078	.078	0	%100
5	M13	X	.088	.088	0	%100
6	M13	Z	.051	.051	0	%100
7	M14	X	.088	.088	0	%100
8	M14	Z	.051	.051	0	%100
9	M15	X	.088	.088	0	%100
10	M15	Z	.051	.051	0	%100
11	M16	X	.088	.088	0	%100
12	M16	Z	.051	.051	0	%100
13	M17	X	.297	.297	0	%100
14	M17	Z	.171	.171	0	%100
15	M18	X	.297	.297	0	%100
16	M18	Z	.171	.171	0	%100
17	M19	X	.007	.007	0	%100
18	M19	Z	.004	.004	0	%100
19	OVPO	X	.007	.007	0	%100
20	OVPO	Z	.004	.004	0	%100
21	M21	X	.029	.029	0	%100
22	M21	Z	.017	.017	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
23	M22	X	.029	.029	0	%100
24	M22	Z	.017	.017	0	%100
25	M23	X	.029	.029	0	%100
26	M23	Z	.017	.017	0	%100
27	M24	X	.029	.029	0	%100
28	M24	Z	.017	.017	0	%100
29	M25	X	.134	.134	0	%100
30	M25	Z	.077	.077	0	%100
31	M26	X	.134	.134	0	%100
32	M26	Z	.077	.077	0	%100
33	M27	X	.091	.091	0	%100
34	M27	Z	.053	.053	0	%100
35	M28	X	.091	.091	0	%100
36	M28	Z	.053	.053	0	%100
37	MP4A	X	.448	.448	0	%100
38	MP4A	Z	.258	.258	0	%100
39	MP3A	X	.448	.448	0	%100
40	MP3A	Z	.258	.258	0	%100
41	MP2A	X	.448	.448	0	%100
42	MP2A	Z	.258	.258	0	%100
43	MP1A	X	.448	.448	0	%100
44	MP1A	Z	.258	.258	0	%100
45	M44	X	.118	.118	0	%100
46	M44	Z	.068	.068	0	%100
47	M45	X	.118	.118	0	%100
48	M45	Z	.068	.068	0	%100
49	M46	X	.118	.118	0	%100
50	M46	Z	.068	.068	0	%100
51	M47	X	.118	.118	0	%100
52	M47	Z	.068	.068	0	%100
53	M43A	X	.409	.409	0	%100
54	M43A	Z	.236	.236	0	%100
55	M44B	X	.434	.434	0	%100
56	M44B	Z	.25	.25	0	%100
57	OVP	X	.448	.448	0	%100
58	OVP	Z	.258	.258	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.235	.235	0	%100
2	M1	Z	.406	.406	0	%100
3	M2	X	.235	.235	0	%100
4	M2	Z	.406	.406	0	%100
5	M13	X	.017	.017	0	%100
6	M13	Z	.029	.029	0	%100
7	M14	X	.017	.017	0	%100
8	M14	Z	.029	.029	0	%100
9	M15	X	.017	.017	0	%100
10	M15	Z	.029	.029	0	%100
11	M16	X	.017	.017	0	%100
12	M16	Z	.029	.029	0	%100
13	M17	X	.195	.195	0	%100
14	M17	Z	.338	.338	0	%100
15	M18	X	.195	.195	0	%100
16	M18	Z	.338	.338	0	%100
17	M19	X	.028	.028	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
18	M19	Z	.048	.048	0	%100
19	OVPO	X	.028	.028	0	%100
20	OVPO	Z	.048	.048	0	%100
21	M21	X	.051	.051	0	%100
22	M21	Z	.088	.088	0	%100
23	M22	X	.051	.051	0	%100
24	M22	Z	.088	.088	0	%100
25	M23	X	.051	.051	0	%100
26	M23	Z	.088	.088	0	%100
27	M24	X	.051	.051	0	%100
28	M24	Z	.088	.088	0	%100
29	M25	X	.081	.081	0	%100
30	M25	Z	.14	.14	0	%100
31	M26	X	.081	.081	0	%100
32	M26	Z	.14	.14	0	%100
33	M27	X	.056	.056	0	%100
34	M27	Z	.098	.098	0	%100
35	M28	X	.056	.056	0	%100
36	M28	Z	.098	.098	0	%100
37	MP4A	X	.258	.258	0	%100
38	MP4A	Z	.448	.448	0	%100
39	MP3A	X	.258	.258	0	%100
40	MP3A	Z	.448	.448	0	%100
41	MP2A	X	.258	.258	0	%100
42	MP2A	Z	.448	.448	0	%100
43	MP1A	X	.258	.258	0	%100
44	MP1A	Z	.448	.448	0	%100
45	M44	X	.068	.068	0	%100
46	M44	Z	.118	.118	0	%100
47	M45	X	.068	.068	0	%100
48	M45	Z	.118	.118	0	%100
49	M46	X	.068	.068	0	%100
50	M46	Z	.118	.118	0	%100
51	M47	X	.068	.068	0	%100
52	M47	Z	.118	.118	0	%100
53	M43A	X	.12	.12	0	%100
54	M43A	Z	.208	.208	0	%100
55	M44B	X	.151	.151	0	%100
56	M44B	Z	.262	.262	0	%100
57	OVP	X	.258	.258	0	%100
58	OVP	Z	.448	.448	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	.626	.626	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.626	.626	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

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
13	M17	X	0	0	0	%100
14	M17	Z	.247	.247	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	.247	.247	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	.247	.247	0	%100
19	OVPO	X	0	0	0	%100
20	OVPO	Z	.247	.247	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	.136	.136	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	.136	.136	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	.136	.136	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	.136	.136	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	.141	.141	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	.141	.141	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	.141	.141	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	.141	.141	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	.517	.517	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	.517	.517	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	.517	.517	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	.517	.517	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	.136	.136	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	.136	.136	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	.136	.136	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	.136	.136	0	%100
53	M43A	X	0	0	0	%100
54	M43A	Z	.026	.026	0	%100
55	M44B	X	0	0	0	%100
56	M44B	Z	.06	.06	0	%100
57	OVP	X	0	0	0	%100
58	OVP	Z	.517	.517	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.235	-.235	0	%100
2	M1	Z	.406	.406	0	%100
3	M2	X	-.235	-.235	0	%100
4	M2	Z	.406	.406	0	%100
5	M13	X	-.017	-.017	0	%100
6	M13	Z	.029	.029	0	%100
7	M14	X	-.017	-.017	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
8	M14	Z	.029	.029	0	%100
9	M15	X	-.017	-.017	0	%100
10	M15	Z	.029	.029	0	%100
11	M16	X	-.017	-.017	0	%100
12	M16	Z	.029	.029	0	%100
13	M17	X	-.028	-.028	0	%100
14	M17	Z	.048	.048	0	%100
15	M18	X	-.028	-.028	0	%100
16	M18	Z	.048	.048	0	%100
17	M19	X	-.195	-.195	0	%100
18	M19	Z	.338	.338	0	%100
19	OVPO	X	-.195	-.195	0	%100
20	OVPO	Z	.338	.338	0	%100
21	M21	X	-.051	-.051	0	%100
22	M21	Z	.088	.088	0	%100
23	M22	X	-.051	-.051	0	%100
24	M22	Z	.088	.088	0	%100
25	M23	X	-.051	-.051	0	%100
26	M23	Z	.088	.088	0	%100
27	M24	X	-.051	-.051	0	%100
28	M24	Z	.088	.088	0	%100
29	M25	X	-.056	-.056	0	%100
30	M25	Z	.098	.098	0	%100
31	M26	X	-.056	-.056	0	%100
32	M26	Z	.098	.098	0	%100
33	M27	X	-.081	-.081	0	%100
34	M27	Z	.14	.14	0	%100
35	M28	X	-.081	-.081	0	%100
36	M28	Z	.14	.14	0	%100
37	MP4A	X	-.258	-.258	0	%100
38	MP4A	Z	.448	.448	0	%100
39	MP3A	X	-.258	-.258	0	%100
40	MP3A	Z	.448	.448	0	%100
41	MP2A	X	-.258	-.258	0	%100
42	MP2A	Z	.448	.448	0	%100
43	MP1A	X	-.258	-.258	0	%100
44	MP1A	Z	.448	.448	0	%100
45	M44	X	-.068	-.068	0	%100
46	M44	Z	.118	.118	0	%100
47	M45	X	-.068	-.068	0	%100
48	M45	Z	.118	.118	0	%100
49	M46	X	-.068	-.068	0	%100
50	M46	Z	.118	.118	0	%100
51	M47	X	-.068	-.068	0	%100
52	M47	Z	.118	.118	0	%100
53	M43A	X	-.022	-.022	0	%100
54	M43A	Z	.038	.038	0	%100
55	M44B	X	-.008	-.008	0	%100
56	M44B	Z	.014	.014	0	%100
57	OVP	X	-.258	-.258	0	%100
58	OVP	Z	.448	.448	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.135	-.135	0	%100
2	M1	Z	.078	.078	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
3	M2	X	-.135	-.135	0	%100
4	M2	Z	.078	.078	0	%100
5	M13	X	-.088	-.088	0	%100
6	M13	Z	.051	.051	0	%100
7	M14	X	-.088	-.088	0	%100
8	M14	Z	.051	.051	0	%100
9	M15	X	-.088	-.088	0	%100
10	M15	Z	.051	.051	0	%100
11	M16	X	-.088	-.088	0	%100
12	M16	Z	.051	.051	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	-.297	-.297	0	%100
18	M19	Z	.171	.171	0	%100
19	OVPO	X	-.297	-.297	0	%100
20	OVPO	Z	.171	.171	0	%100
21	M21	X	-.029	-.029	0	%100
22	M21	Z	.017	.017	0	%100
23	M22	X	-.029	-.029	0	%100
24	M22	Z	.017	.017	0	%100
25	M23	X	-.029	-.029	0	%100
26	M23	Z	.017	.017	0	%100
27	M24	X	-.029	-.029	0	%100
28	M24	Z	.017	.017	0	%100
29	M25	X	-.091	-.091	0	%100
30	M25	Z	.053	.053	0	%100
31	M26	X	-.091	-.091	0	%100
32	M26	Z	.053	.053	0	%100
33	M27	X	-.134	-.134	0	%100
34	M27	Z	.077	.077	0	%100
35	M28	X	-.134	-.134	0	%100
36	M28	Z	.077	.077	0	%100
37	MP4A	X	-.448	-.448	0	%100
38	MP4A	Z	.258	.258	0	%100
39	MP3A	X	-.448	-.448	0	%100
40	MP3A	Z	.258	.258	0	%100
41	MP2A	X	-.448	-.448	0	%100
42	MP2A	Z	.258	.258	0	%100
43	MP1A	X	-.448	-.448	0	%100
44	MP1A	Z	.258	.258	0	%100
45	M44	X	-.118	-.118	0	%100
46	M44	Z	.068	.068	0	%100
47	M45	X	-.118	-.118	0	%100
48	M45	Z	.068	.068	0	%100
49	M46	X	-.118	-.118	0	%100
50	M46	Z	.068	.068	0	%100
51	M47	X	-.118	-.118	0	%100
52	M47	Z	.068	.068	0	%100
53	M43A	X	-.239	-.239	0	%100
54	M43A	Z	.138	.138	0	%100
55	M44B	X	-.185	-.185	0	%100
56	M44B	Z	.107	.107	0	%100
57	OVP	X	-.448	-.448	0	%100
58	OVP	Z	.258	.258	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-.136	-.136	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-.136	-.136	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-.136	-.136	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-.136	-.136	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-.151	-.151	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-.151	-.151	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-.151	-.151	0	%100
18	M19	Z	0	0	0	%100
19	OVPO	X	-.151	-.151	0	%100
20	OVPO	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	-.127	-.127	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-.127	-.127	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-.127	-.127	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-.127	-.127	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	-.517	-.517	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-.517	-.517	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	-.517	-.517	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	-.517	-.517	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	-.136	-.136	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	-.136	-.136	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	-.136	-.136	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	-.136	-.136	0	%100
52	M47	Z	0	0	0	%100
53	M43A	X	-.491	-.491	0	%100
54	M43A	Z	0	0	0	%100
55	M44B	X	-.457	-.457	0	%100
56	M44B	Z	0	0	0	%100
57	OVP	X	-.517	-.517	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	OVP	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.135	-.135	0	%100
2	M1	Z	-.078	-.078	0	%100
3	M2	X	-.135	-.135	0	%100
4	M2	Z	-.078	-.078	0	%100
5	M13	X	-.088	-.088	0	%100
6	M13	Z	-.051	-.051	0	%100
7	M14	X	-.088	-.088	0	%100
8	M14	Z	-.051	-.051	0	%100
9	M15	X	-.088	-.088	0	%100
10	M15	Z	-.051	-.051	0	%100
11	M16	X	-.088	-.088	0	%100
12	M16	Z	-.051	-.051	0	%100
13	M17	X	-.297	-.297	0	%100
14	M17	Z	-.171	-.171	0	%100
15	M18	X	-.297	-.297	0	%100
16	M18	Z	-.171	-.171	0	%100
17	M19	X	-.007	-.007	0	%100
18	M19	Z	-.004	-.004	0	%100
19	OVPO	X	-.007	-.007	0	%100
20	OVPO	Z	-.004	-.004	0	%100
21	M21	X	-.029	-.029	0	%100
22	M21	Z	-.017	-.017	0	%100
23	M22	X	-.029	-.029	0	%100
24	M22	Z	-.017	-.017	0	%100
25	M23	X	-.029	-.029	0	%100
26	M23	Z	-.017	-.017	0	%100
27	M24	X	-.029	-.029	0	%100
28	M24	Z	-.017	-.017	0	%100
29	M25	X	-.134	-.134	0	%100
30	M25	Z	-.077	-.077	0	%100
31	M26	X	-.134	-.134	0	%100
32	M26	Z	-.077	-.077	0	%100
33	M27	X	-.091	-.091	0	%100
34	M27	Z	-.053	-.053	0	%100
35	M28	X	-.091	-.091	0	%100
36	M28	Z	-.053	-.053	0	%100
37	MP4A	X	-.448	-.448	0	%100
38	MP4A	Z	-.258	-.258	0	%100
39	MP3A	X	-.448	-.448	0	%100
40	MP3A	Z	-.258	-.258	0	%100
41	MP2A	X	-.448	-.448	0	%100
42	MP2A	Z	-.258	-.258	0	%100
43	MP1A	X	-.448	-.448	0	%100
44	MP1A	Z	-.258	-.258	0	%100
45	M44	X	-.118	-.118	0	%100
46	M44	Z	-.068	-.068	0	%100
47	M45	X	-.118	-.118	0	%100
48	M45	Z	-.068	-.068	0	%100
49	M46	X	-.118	-.118	0	%100
50	M46	Z	-.068	-.068	0	%100
51	M47	X	-.118	-.118	0	%100
52	M47	Z	-.068	-.068	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
53	M43A	X	-.409	-.409	0	%100
54	M43A	Z	-.236	-.236	0	%100
55	M44B	X	-.434	-.434	0	%100
56	M44B	Z	-.25	-.25	0	%100
57	OVP	X	-.448	-.448	0	%100
58	OVP	Z	-.258	-.258	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.235	-.235	0	%100
2	M1	Z	-.406	-.406	0	%100
3	M2	X	-.235	-.235	0	%100
4	M2	Z	-.406	-.406	0	%100
5	M13	X	-.017	-.017	0	%100
6	M13	Z	-.029	-.029	0	%100
7	M14	X	-.017	-.017	0	%100
8	M14	Z	-.029	-.029	0	%100
9	M15	X	-.017	-.017	0	%100
10	M15	Z	-.029	-.029	0	%100
11	M16	X	-.017	-.017	0	%100
12	M16	Z	-.029	-.029	0	%100
13	M17	X	-.195	-.195	0	%100
14	M17	Z	-.338	-.338	0	%100
15	M18	X	-.195	-.195	0	%100
16	M18	Z	-.338	-.338	0	%100
17	M19	X	-.028	-.028	0	%100
18	M19	Z	-.048	-.048	0	%100
19	OVPO	X	-.028	-.028	0	%100
20	OVPO	Z	-.048	-.048	0	%100
21	M21	X	-.051	-.051	0	%100
22	M21	Z	-.088	-.088	0	%100
23	M22	X	-.051	-.051	0	%100
24	M22	Z	-.088	-.088	0	%100
25	M23	X	-.051	-.051	0	%100
26	M23	Z	-.088	-.088	0	%100
27	M24	X	-.051	-.051	0	%100
28	M24	Z	-.088	-.088	0	%100
29	M25	X	-.081	-.081	0	%100
30	M25	Z	-.14	-.14	0	%100
31	M26	X	-.081	-.081	0	%100
32	M26	Z	-.14	-.14	0	%100
33	M27	X	-.056	-.056	0	%100
34	M27	Z	-.098	-.098	0	%100
35	M28	X	-.056	-.056	0	%100
36	M28	Z	-.098	-.098	0	%100
37	MP4A	X	-.258	-.258	0	%100
38	MP4A	Z	-.448	-.448	0	%100
39	MP3A	X	-.258	-.258	0	%100
40	MP3A	Z	-.448	-.448	0	%100
41	MP2A	X	-.258	-.258	0	%100
42	MP2A	Z	-.448	-.448	0	%100
43	MP1A	X	-.258	-.258	0	%100
44	MP1A	Z	-.448	-.448	0	%100
45	M44	X	-.068	-.068	0	%100
46	M44	Z	-.118	-.118	0	%100
47	M45	X	-.068	-.068	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
48	M45	Z	-.118	-.118	0	%100
49	M46	X	-.068	-.068	0	%100
50	M46	Z	-.118	-.118	0	%100
51	M47	X	-.068	-.068	0	%100
52	M47	Z	-.118	-.118	0	%100
53	M43A	X	-.12	-.12	0	%100
54	M43A	Z	-.208	-.208	0	%100
55	M44B	X	-.151	-.151	0	%100
56	M44B	Z	-.262	-.262	0	%100
57	OVP	X	-.258	-.258	0	%100
58	OVP	Z	-.448	-.448	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	1402.542	33	1417.361	19	1890.022	13	-.124	71	0	75	.045	33
2		min	-520.083	49	345.993	73	-362.281	7	-.505	18	0	1	-.187	49
3	N36	max	522.524	12	1418.707	13	380.328	8	-.125	68	0	75	.048	33
4		min	-1516.754	30	344.487	67	-1048.308	14	-.51	13	0	1	-.185	49
5	N53	max	460.587	8	46.416	20	1051.675	2	0	75	0	75	0	75
6		min	-381.801	2	11	66	-1268.997	8	0	1	0	1	0	1
7	N55A	max	168.021	6	59.636	18	490.126	12	0	75	0	75	0	75
8		min	-101.854	12	14.259	74	-777.791	6	0	1	0	1	0	1
9	Totals:	max	1211.571	10	2928.178	15	1770.024	1						
10		min	-1211.573	4	715.943	74	-1770.026	7						

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

	Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
1	M1	PIPE_2.5	.265	8.854	25	.071	8.854		35	14558.792	50715	3.596	3.596	2....	H1-1b
2	M2	PIPE_2.5	.245	8.854	32	.120	9.115		8	14558.792	50715	3.596	3.596	2....	H1-1b
3	M13	PL5/8X3.5	.179	.422	49	.154	0	y	49	66184.77	68906.25	.897	5.024	1....	H1-1b
4	M14	PL5/8X3.5	.178	.422	49	.151	0	y	49	66184.77	68906.25	.897	5.024	1....	H1-1b
5	M15	PL5/8X3.5	.367	.422	32	.303	.422	y	32	66184.77	68906.25	.897	5.024	1....	H1-1b
6	M16	PL5/8X3.5	.344	.422	27	.295	.422	y	29	66184.77	68906.25	.897	5.024	1....	H1-1b
7	M17	PIPE_2.0	.138	0	6	.056	0		14	31128.25	32130	1.872	1.872	2....	H1-1b
8	M18	PIPE_2.0	.101	0	49	.050	0		14	31128.25	32130	1.872	1.872	2....	H1-1b
9	M19	PIPE_2.0	.202	0	32	.127	0		19	31128.25	32130	1.872	1.872	2....	H1-1b
10	OVPO	PIPE_2.0	.191	0	29	.125	0		15	31128.25	32130	1.872	1.872	2....	H1-1b
11	M21	PL5/8X3.5	.176	.531	18	.034	0	y	12	67591.76	68906.25	.897	5.024	1....	H1-1b
12	M22	PL5/8X3.5	.425	.531	13	.061	0	y	39	67591.76	68906.25	.897	5.024	1....	H1-1b
13	M23	PL5/8X3.5	.209	.531	14	.031	.531	y	3	67591.76	68906.25	.897	5.024	2....	H1-1b
14	M24	PL5/8X3.5	.510	.531	24	.076	.531	y	39	67591.76	68906.25	.897	5.024	1....	H1-1b
15	M25	SR_0.75	.000	0	75	.014	4.167		32	8911.663	13916.259	.174	.174	1	H1-1a
16	M26	SR_0.75	.045	0	49	.013	0		3	8911.663	13916.259	.174	.174	1	H1-1b*
17	M27	SR_0.75	.000	0	75	.018	0		32	8911.663	13916.259	.174	.174	1	H1-1a
18	M28	SR_0.75	.094	4.167	20	.019	4.167		33	8911.663	13916.259	.174	.174	1	H1-1b*
19	MP4A	PIPE_2.0	.250	5.667	49	.037	2.333		49	14916.096	32130	1.872	1.872	4....	H1-1b
20	MP3A	PIPE_2.0	.179	5.667	8	.054	2.333		9	14916.096	32130	1.872	1.872	4....	H1-1b
21	MP2A	PIPE_2.0	.189	2.333	2	.090	5.667		8	14916.096	32130	1.872	1.872	3....	H1-1b

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

	Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
22	MP1A	PIPE_2.0	.386	2.333	29	.067	2.583		29	14916.096	32130	1.872	1.872	4....	H1-1b
23	M44	SR_0.625	.041	1.667	7	.018	0		8	2158.31	9664.079	.101	.101	1	H1-1b
24	M45	SR_0.625	.029	1.667	15	.015	0		9	2158.31	9664.079	.101	.101	1....	H1-1b
25	M46	SR_0.625	.034	1.667	5	.017	0		9	2158.31	9664.079	.101	.101	1....	H1-1b
26	M47	SR_0.625	.034	1.667	6	.015	0		32	2158.31	9664.079	.101	.101	1....	H1-1b
27	M43A	PIPE_2.0	.084	4.562	17	.006	0		22	11818.103	32130	1.872	1.872	1....	H1-1b
28	M44B	PIPE_2.0	.063	7.031	2	.005	0		23	17760.986	32130	1.872	1.872	1....	H1-1b*
29	OVP	PIPE_2.0	.062	2.563	3	.073	4.313		8	20866.733	32130	1.872	1.872	1....	H1-1b

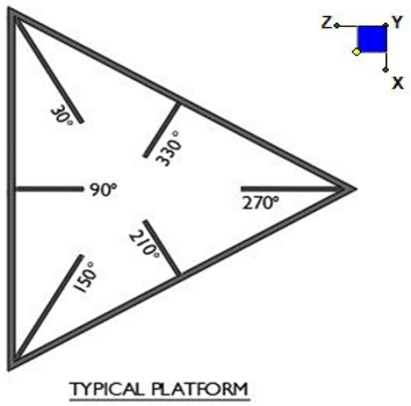
Client:	Verizon Wireless	Date:	10/25/2021
Site Name:	NORTH GRANBY CT		
Project No.	21777061A		
Title:	Mount Replacement Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

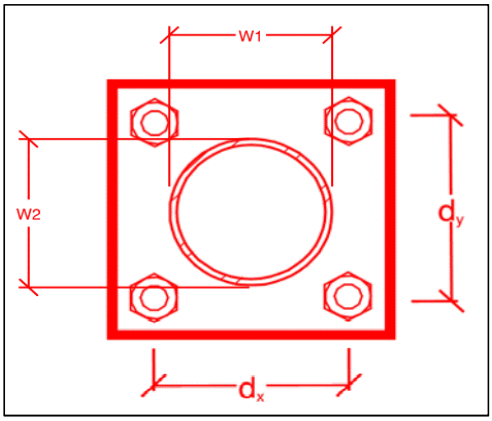
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N36	60
N35	60



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:	yes
Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)* :	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 (kips):	4.8
Required Shear Strength (kips):	2.5
Tensile Strength / bolt (kips):	10.0
Shear Strength / bolt (kips):	6.0
Tensile Capacity Overall:	**12.0%***
Shear Capacity Overall:	**10.2%**



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

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

---

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.

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

Issue:

1. Contractor to install (4) 96" long P2 STD mount pipes per sector, evenly spaced along the face horizontal with the top of the mount pipes extended 28" above the top face horizontal.
2. Contractor shall install the proposed mounts such that the mount azimuths match the proposed antenna azimuths listed in the referenced RFDS.
3. Contractor shall connect (2) tie-backs per sector. The first mount pipe shall be installed 3" left of the upper left standoff horizontal (considered from behind panels). The second shall be installed 3" right of the upper right standoff horizontal (considered from behind panels
4. Contractor shall install the proposed OVP on a new 72" long P2 STD pipe, connected to the brackets on the upper and lower standoff horizontals with new 1/2" dia. U-bolts.
5. Contractor shall install new safety climb wire rope guides (VZWSMART-MSK9) along the tower legs to prevent interference with the proposed mounts.

Response:

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

☐ Yes ☐ No

Contractor certifies no new damage/obstructions created during the current installation:

☐ Yes ☐ No

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

☐ Safety climb in good condition with no obstructions ☐ Safety Climb Damaged
☐ Safety Climb Obstructed

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.

Antenna & equipment placement and Geometry Confirmation:

☐ 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 Instruction Confirmation:

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

Certifying Individual:

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

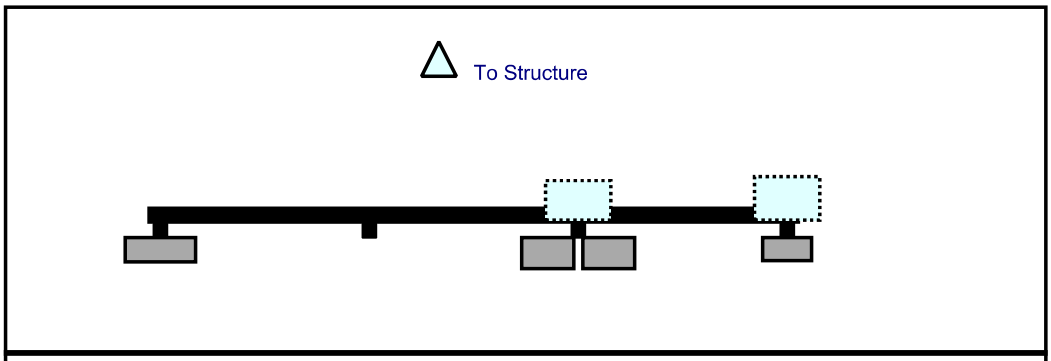
Structure: 467704-VZW - NORTH GRANBY CT

Sector: **A** 10/22/2021

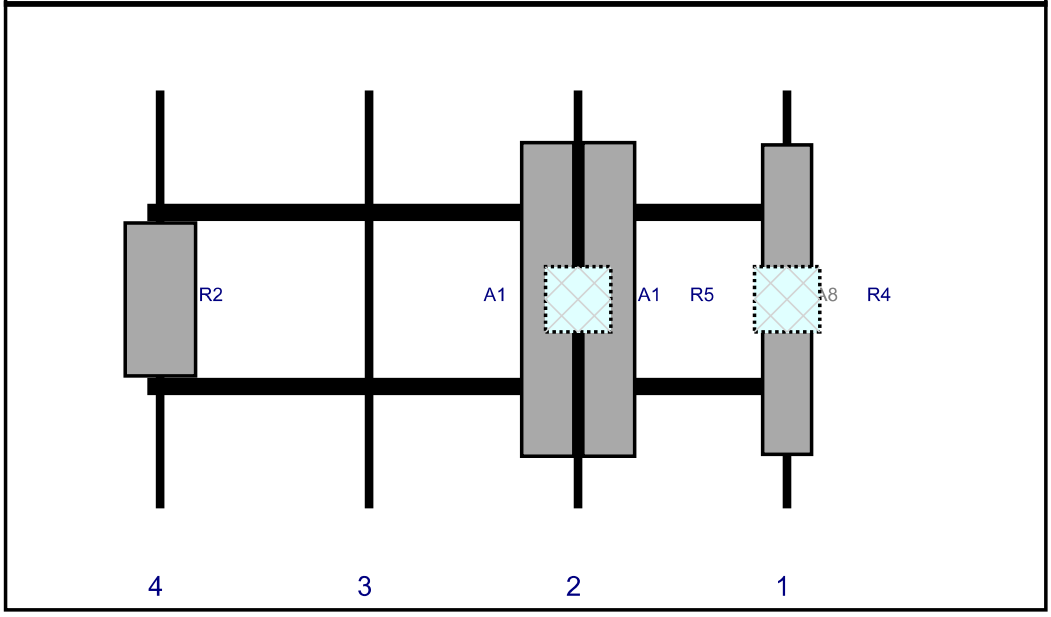
Structure Type: Self Support 10108865

Mount Elev: 160.00 Page: 1

Plan View



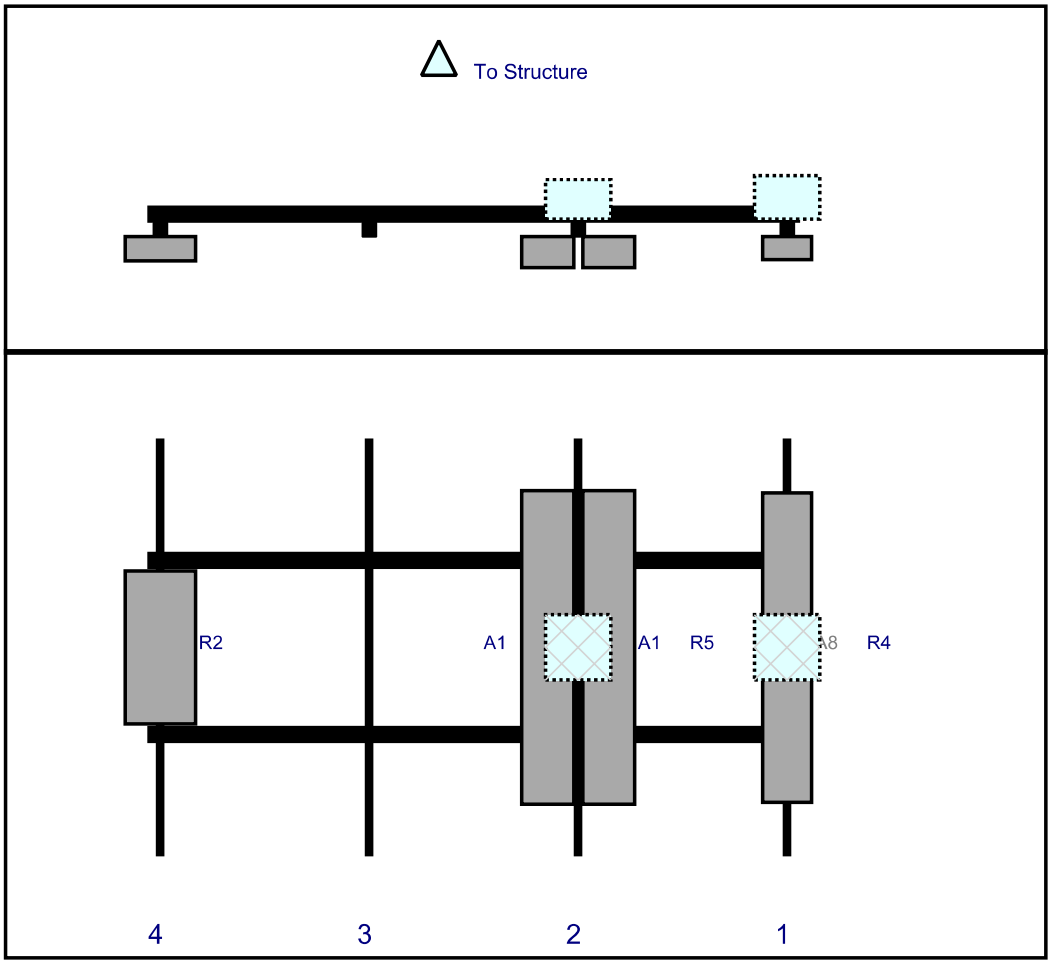
Front View
Looking at Structure



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
A8	BXA-70063-6CF-2	71	11.2	147	1	a	Front	48	0	Retained	08/27/2021
R4	RF4439d-25A	15	15	147	1	a	Behind	48	0	Added	
A1	NHH-65B-R2B	72	11.9	99	2	a	Front	48	7	Added	
A1	NHH-65B-R2B	72	11.9	99	2	b	Front	48	-7	Added	
R5	RF4440d-13A	15	15	99	2	a	Behind	48	0	Added	
R2	MT6407-77A	35.1	16.1	3	4	a	Front	48	0	Added	

Plan View

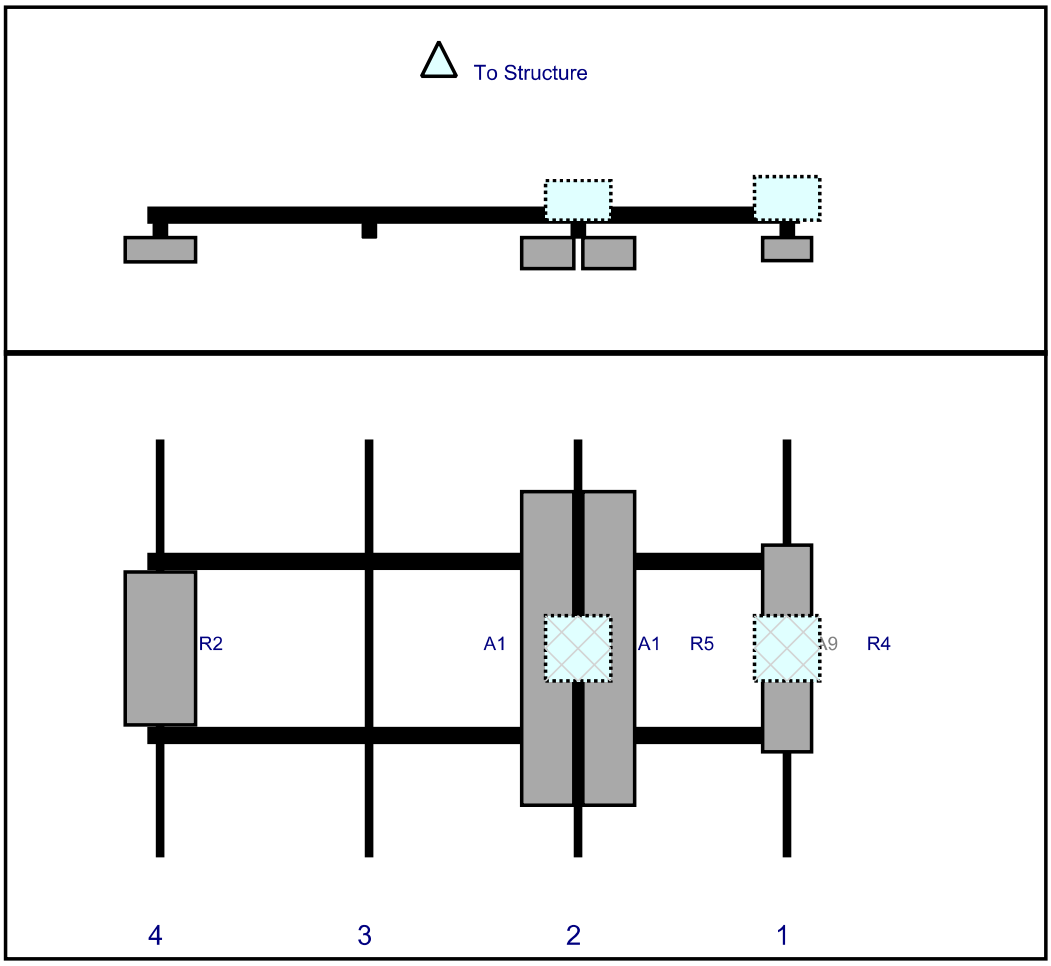
Front View
Looking at Structure



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
A8	BXA-70063-6CF-2	71	11.2	147	1	a	Front	48	0	Retained	08/27/2021
R4	RF4439d-25A	15	15	147	1	a	Behind	48	0	Added	
A1	NHH-65B-R2B	72	11.9	99	2	a	Front	48	-7	Added	
A1	NHH-65B-R2B	72	11.9	99	2	b	Front	48	7	Added	
R5	RF4440d-13A	15	15	99	2	a	Behind	48	0	Added	
R2	MT6407-77A	35.1	16.1	3	4	a	Front	48	0	Added	

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
A9	BXA-70063-4CF	47.4	11.2	147	1	a	Front	48	0	Retained	08/27/2021
R4	RF4439d-25A	15	15	147	1	a	Behind	48	0	Added	
A1	NHH-65B-R2B	72	11.9	99	2	a	Front	48	7	Added	
A1	NHH-65B-R2B	72	11.9	99	2	b	Front	48	-7	Added	
R5	RF4440d-13A	15	15	99	2	a	Behind	48	0	Added	
R2	MT6407-77A	35.1	16.1	3	4	a	Front	48	0	Added	

MASER CONSULTING
— CONNECTICUT —

Maser Consulting Connecticut

Subject	TIA-222-H Adoption and Wind Speed Usage	
Site Information	*Site ID:*	*467704-VZW / NORTH GRANBY CT*
	Site Name:	*NORTH GRANBY CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*150 Lost Acres h* *North Grandby, Connecticut 06035* *Hartford County*
	Latitude:	*42.009600°*
	Longitude:	*-72.865989°*
Structure Information	*Tower Type:*	*Self-Support*
	Mount Type:	*12.50-Ft Sector Frame*
	FUZE ID # 16272651	

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.

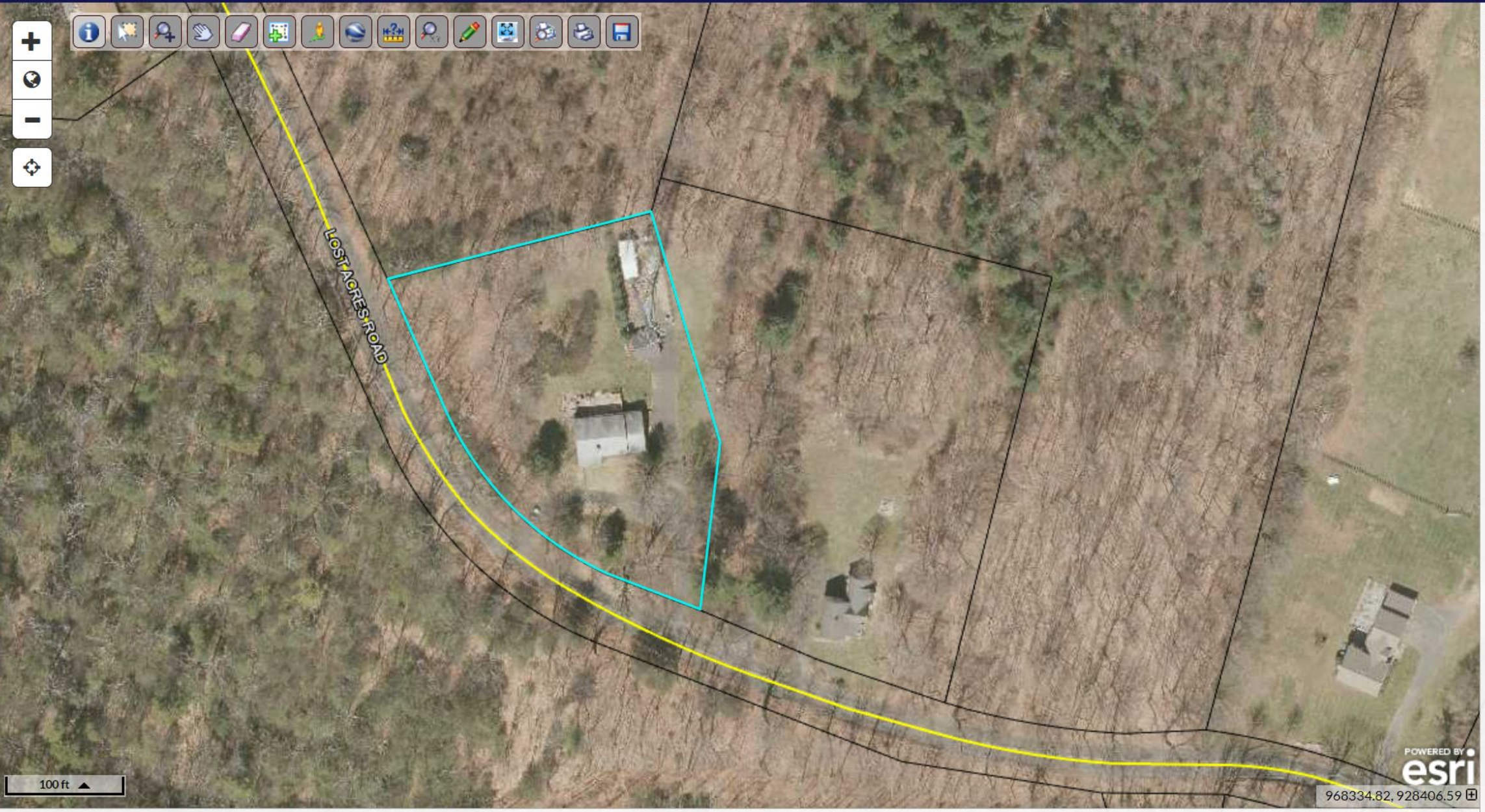
The TIA-222-H standard clarifies these specific requirements for the antenna mount analysis such as modeling methods, seismic analysis, 30-degree increment wind directions and maintenance loading. Therefore, it is our opinion that TIA-222-H is the most appropriate standard for antenna mount structural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

Sincerely,

Digitally signed by Justin Linette
Date: 2021.10.25 21:17:58-04'00'

Justin Linette, PE
Senior Technical Manager

ATTACHMENT 5



Results:

Parcel ID 1748
Location 150 LOST ACRES RD
View Assessor website
View: Report | Google Maps opens in a new tab

Parcel ID 1748
Location 150 LOST ACRES RD
View Assessor website

150 LOST ACRES RD

Sales Print Map It

Location	150 LOST ACRES RD	**Mblu**	C-20/ 6/ 82/ /
Acct#	09000150	**Owner**	LOMBARDI JOHN G &
Assessment	$198,310	**Appraisal**	$283,300
PID	1748	**Building Count**	1

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2017	$215,000	$68,300	$283,300
Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2017	$150,500	$47,810	$198,310

Owner of Record

Owner	LOMBARDI JOHN G &	**Sale Price**	$0
Co-Owner	LOMBARDI DEBORAH LINDSEY	**Certificate**	
Address	150 LOST ACRES RD NORTH GRANBY, CT 06060	**Book & Page**	414/0219
		Sale Date	07/12/2016

ATTACHMENT 6

UNITED STATES POSTAL SERVICE®

NORTH GRANBY

Certificate of Mailing — Firm

Name and Address of Sender	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here *Postmark with Date of Receipt.*
Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	3	3	neopost 01/10/2022 US POSTAGE $002.99 ZIP 06103 041L12203637
	Postmaster, per *(name of receiving employee)*		

OLD STATE HOUSE STATION 06103
JAN 10 2022
USPS

USPS® Tracking Number / Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Erica Robertson, Town Manager Town of Granby 15 North Granby Road Granby, CT 06035				
2.	Abigail Kenyon, Community Development Director Town of Granby 15 North Granby Road Granby, CT 06035				
3.	John and Deborah Lindsey 150 Lost Acres Road Granby, CT 06060				
4.					
5.					
6.					

See Reverse for Instructions