

KENNETH C. BALDWIN

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts
and New York

October 19, 2021

Via Electronic Mail

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

Re: **Notice of Exempt Modification – Facility Modification
61 Lowell Davis Road, Thompson, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains an existing wireless telecommunications facility at the above-referenced property address (the “Property”). The facility consists of antennas and remote radio heads attached to a tower and associated equipment on the ground near the base of the tower. The tower was approved by the Siting Council (“Council”) in October of 1985 (Docket No. 53). Cellco’s use of the tower were approved by the Council in November of 1991 (CONN-2 RSA Partnership). A copy of the Docket No. 53 Decision and Order and the CONN-2 RSA Partnership approval are included in Attachment 1.

Cellco now intends to modify its facility by replacing nine (9) existing antennas with three (3) new Samsung MT6407-77A antennas and six (6) MX06FRO660-03 antennas on Cellco’s existing antenna support structure. Cellco also intends to replace six (6) remote radio heads (“RRHs”) with six (6) new RRHs behind its antennas. A set of project plans showing Cellco’s proposed facility modifications and new antennas and RRH specifications are included in Attachment 2.

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

Melanie A. Bachman, Esq.
October 19, 2021
Page 2

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 its existing antenna mounting structure.

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

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

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

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

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

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

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

Melanie A. Bachman, Esq.
October 19, 2021
Page 3

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth C. Baldwin". The signature is fluid and cursive, with a long horizontal stroke at the end.

Kenneth C. Baldwin

Enclosures

Copy to:

Amy St. Onge, Thompson First Selectman
Tyra Penn-Gesek, Director of Planning and Development
NUMA Tool Company
Karla Hanna, Verizon Wireless

ATTACHMENT 1

AN APPLICATION SUBMITTED BY TELE-MEDIA : CONNECTICUT SITING
COMPANY OF NORTHEASTERN CONNECTICUT FOR
A CERTIFICATE OF ENVIRONMENTAL :
COMPATIBILITY AND PUBLIC NEED FOR THE : COUNCIL
ERECTION OF COMMUNITY ANTENNA TOWERS AND
ASSOCIATED EQUIPMENT IN THE TOWNS OF :
BROOKLYN AND THOMPSON, CONNECTICUT. : October 8, 1985

DECISION AND ORDER

Pursuant to the foregoing opinion, the Council hereby directs that a certificate of environmental compatibility and public need as required by section 16-50k of the General Statutes of Connecticut be issued to Tele-Media Company for the construction, operation, and maintenance of CATV hub towers and receiving sites at Wolf Den Road, Brooklyn, Connecticut; and Lowell Davis Road, Thompson, Connecticut.

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

1. The towers shall be no taller than necessary to provide the proposed service, and in no event shall exceed
 - a) 150 feet at the Brooklyn site,
 - b) 250 feet at the Thompson site.
2. The certificate holder shall notify the Council if any additional equipment other than than listed in the findings of fact accompanying this decision and order is added to any of these facilities;
3. The facility construction shall be conducted in accordance with all applicable federal, state, and municipal laws and regulations;

4. The certificate holder shall prepare a tower site development and management plan pursuant to 16-50j-75 through 16-50j-77 of the Council's Rules of Practice including plans for evergreen screening at the Brooklyn and Thompson sites;
5. Construction activities shall take place during daylight working hours; and
6. This decision and order shall be void if all construction authorized is not completed within three years of the issuance of this decision.

Pursuant to section 16-50p of the General Statutes, we hereby direct that a copy of the decision and order be served on each person listed below. A notice of the issuance shall be published in the Hartford Courant, the Norwich Bulletin, and the Willimantic Chronicle.

The parties to this proceeding are

Tele-Media Company of
Northeastern Connecticut
Box 280
Babcock Hill Road
South Windham, Connecticut 06266
ATTN: Doug Best, General Manager

(Applicant)

Richard G. Bell, Esquire
Alice Bruno, Esquire
Tyler, Cooper & Alcorn
P.O. Box 1936
205 Church Street
New Haven, Connecticut 06509

(its attorney)

4. The certificate holder shall prepare a tower site development and management plan pursuant to 16-50j-75 through 16-50j-77 of the Council's Rules of Practice including plans for evergreen screening at the Brooklyn and Thompson sites;
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Tyler, Cooper & Alcorn
P.O. Box 1936
205 Church Street
New Haven, Connecticut 06509

(its attorney)

Ernest E. Ouellet
First Selectman
Town of Brooklyn
Town Hall
P.O. Box 356
Brooklyn, Connecticut 06234

(service waived)



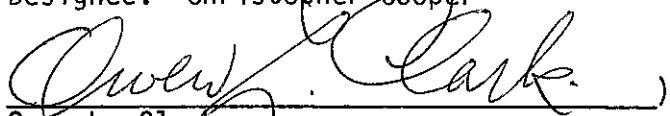

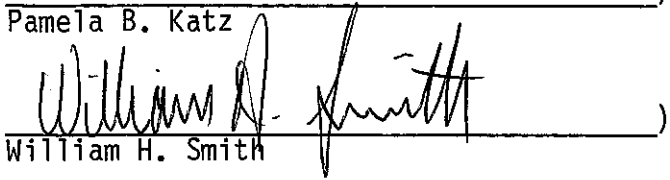
Louise S. Berry
Acting Superintendent of Schools
Town of Brooklyn
Town Hall
P.O. Box 356
Brooklyn, Connecticut 06234

(service waived)

C E R T I F I C A T I O N

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case or read the record thereof, and that we voted as follows:

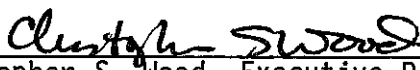
Dated at New Britain, Connecticut, this 8th day of October, 1985.

<u>Council Members</u>	<u>Vote Cast</u>
 Gloria Dibble Pond Chairperson	Yes
_____) Commissioner John Downey Designee: Commissioner Peter G. Boucher	Absent
 Commissioner Stanley Pac Designee: Christopher Cooper	Yes
 Owen L. Clark	Yes
 Mortimer A. Gelston	Yes
_____) James G. Horsfall	Absent
_____) Pamela B. Katz	Absent
 William H. Smith	Yes
_____) Colin C. Tait	Absent

STATE OF CONNECTICUT)
 :
COUNTY OF HARTFORD) ss. New Britain, October 8, 1985

I hereby certify that the foregoing is a true and correct copy of the decision and order issued by the Connecticut Siting Council, State of Connecticut.

ATTEST:



Christopher S. Wood, Executive Director
Connecticut Siting Council



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

136 Main Street, Suite 401
New Britain, Connecticut 06051
Phone: 827-7682

November 21, 1991

Mr. David S. Malko, P.E.
Manager, Engineering & Regulatory Service
Metro Mobile CTS of the Northeast, Inc.
20 Alexander Drive
Wallingford, CT 06492

RE: CONN-2 RSA Partnership notice of intent to modify an existing telecommunications tower and associated equipment owned by Tele-Media Company of Northeast Connecticut, located at 61 Lowell Davis Road, in the Town of Thompson, Connecticut.

Dear Mr. Malko:

At a meeting on November 20, 1991, the Connecticut Siting Council acknowledged your notice of intent to install four cellular antennas and related equipment at an existing tower facility located at 61 Lowell Davis Road in Thompson, Connecticut, pursuant to section 16-50j-73 of the Regulations of State Agencies (RSA).

The proposed modifications are to be implemented as specified in your notice dated October 30, 1991. As proposed, the modifications are in compliance with the exception criteria specified in RSA 16-50j-72 as changes to an existing facility site that do not increase the tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary six decibels, and add radio frequency sending or receiving capability which increases the total radio frequency electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to Section 22a-162 of the Connecticut General Statutes.

The Council is pleased to note that the shared use of an existing tower meets the Council's long-term goal and the public interest to avoid proliferation of additional tower structures.

Please notify the Council upon completion of construction.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/TEF/bd

5663E

ATTACHMENT 2

verizon

THOMPSON CT 61 LOWELL DAVIS ROAD NORTH GROSVENORDALE, CT 06255

GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2018 CONNECTICUT SUPPLEMENT, INCLUDING THE IBC/IBC-222 REVISION "C" STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND SUPPORTING STRUCTURES, 2017 CONNECTICUT FIRE SAFETY CODE, NATIONAL ELECTRICAL CODE, AND LOCAL CODES.
- SHOULD ANY FIELD CONDITIONS PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY AFFECTED WORK.
- CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUBCONTRACTORS AND ALL RELATED PARTIES. THE SUBCONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
- CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS AND PROVIDE ALL ITEMS AS SHOWN OR INDICATED ON THE DRAWINGS OR IN THE WRITTEN SPECIFICATIONS.
- CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB ALL IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
- CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND ALL INSPECTIONS REQUIRED AND SHALL ALSO PAY FEES REQUIRED FOR THE GENERAL CONSTRUCTION, AND ALL TRADES AS APPLICABLE. PERMITS SHALL BE PAID FOR BY THE RESPECTIVE SUBCONTRACTORS.
- CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS AND SPECIFICATIONS ON SITE AT ALL TIMES AND INSURE DISTRIBUTION OF NEW DRAWINGS TO SUBCONTRACTORS AND OTHER RELEVANT PARTIES AS SOON AS THEY ARE MADE AVAILABLE. ALL OLD DRAWINGS SHALL BE MARKED VOID AND REMOVED FROM THE CONTRACT AREA. THE CONTRACTOR SHALL FURNISH AN "AS-BUILT" SET OF DRAWINGS TO OWNER UPON COMPLETION OF PROJECT.
- LOCATION OF EQUIPMENT, AND WORK SUPPLIED BY OTHERS THAT IS DIAGRAMMATICALLY INDICATED ON THE DRAWINGS SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL DETERMINE LOCATIONS AND DIMENSIONS SUBJECT TO STRUCTURAL CONDITIONS AND WORK OF THE SUBCONTRACTORS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURES AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY. MAINTAIN EXISTING BUILDING'S/PROPERTY'S OPERATIONS, COORDINATE WORK WITH BUILDING/PROPERTY OWNER.
- DRAWINGS INDICATE THE MINIMUM STANDARDS, BUT IF ANY WORK SHOULD BE INDICATED TO BE SUBSTANTIAL TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK, THE CONTRACTOR SHALL INCLUDE IN HIS WORK AND SHALL EXCUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES, RULES OR REGULATIONS WITH NO INCREASE IN COSTS.

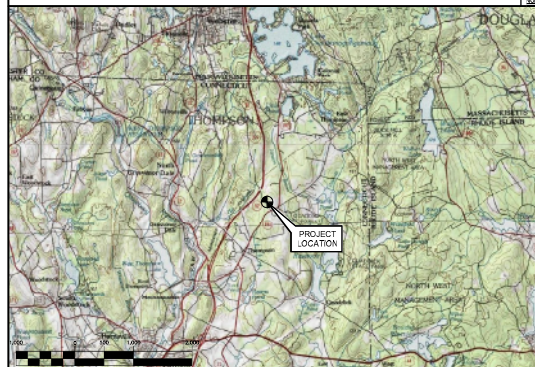
SITE DIRECTIONS

FROM: 20 ALEXANDER DRIVE WALLINGFORD, CONNECTICUT	TO: 61 LOWELL DAVIS ROAD NORTH GROSVENORDALE, CT 06255
---	--

- START OUT GOING NORTH ON ALEXANDER DR TOWARD BARNES INDUSTRIAL RD. 0.18 MI
- TURN RIGHT ONTO BARNES INDUSTRIAL RD. 0.11 MI
- TAKE THE 1ST LEFT ONTO CT-66 0.35 MI
- TURN RIGHT ONTO RAMP. 0.17 MI
- TURN RIGHT ONTO N COLONY RD/US-5 N. 0.30 MI
- MERGE ONTO CT-15 N TOWARD HARTFORD. 3.58 MI
- MERGE ONTO I-91 N VIA EXIT 68N-E TOWARD MIDDLETOWN/HARTFORD/CT-66 E. 17.30 MI
- MERGE ONTO CT-15 N VIA EXIT 29 TOWARD BOSTON/E HARTFORD/I-84 E. 2.14 MI
- CT-15 N BECOMES I-84 E. 28.33 MI
- TAKE THE CT-190 EXIT, EXIT 73, TOWARD UNON. 0.24 MI
- TURN RIGHT ONTO BUCKLEY HWY/CT-190. 1.90 MI
- TURN RIGHT ONTO EASTFORD RD/CT-196. 3.12 MI
- TURN RIGHT ONTO BIGELOW HOLLOW RD/CT-197/CT-171. CONTINUE TO FOLLOW CT-197. 6.75 MI
- TURN LEFT ONTO ROUTE 171/CT-171. 2.04 MI
- TURN RIGHT ONTO ROUTE 169/CT STATE ROUTE 169/CT-169/CT-171. CONTINUE TO FOLLOW CT-171. 5.67 MI
- TURN LEFT ONTO LOWELL DAVIS RD. 0.33 MI
- 41.978944--71.625272, 19 LOWELL DAVIS RD IS ON THE SERVICE ROAD ON THE RIGHT.

VICINITY MAP

SCALE: 1" = 1000'



PROJECT SUMMARY

1. THE PROPOSED UPGRADE SCOPE OF WORK AT THE EXISTING UNMANNED TELECOMMUNICATIONS FACILITY GENERALLY INCLUDES THE FOLLOWING:
- A. AT THE EXISTING GUYED TOWER MOUNTED ANTENNA SECTORS:**
- REMOVE (6) EXISTING ANDREW - SBNH-1D65B ANTENNAS.
 - REMOVE (3) EXISTING ANTEL - BXA-70063-6CF ANTENNAS.
 - REMOVE (6) EXISTING NOKIA RADIOS.
 - REMOVE (6) EXISTING RFS - FDBR6004/2c-3L DIPLEXERS.
 - REMOVE (1) EXISTING OVP-6 BOX.
 - RETAIN (3) EXISTING AMPHENOL - BXA-80063-68F-EDIN ANTENNAS.
 - RETAIN (1) EXISTING 6x12 HYBRIFLEX LI CABLE.
 - RETAIN (5) EXISTING 1-5/8" SPARE COAXIAL CABLES.
 - RETAIN (6) EXISTING 1-5/8" CDMA COAXIAL CABLES.
 - INSTALL (6) JMA - MX06FR0660-03 ANTENNAS.
 - INSTALL (3) SAMSUNG - MT6407-77A ALL-IN-ONE ANTENNA/ RRUs.
 - INSTALL (3) SAMSUNG - B2/B66A RRH-BR049 RRUs.
 - INSTALL (3) SAMSUNG - B5/B13 RRH-BR04C RRUs.
 - INSTALL (3) JMA - 91900314-02 ANTENNA MOUNTS.
 - INSTALL (1) OVP-12 BOX.
 - INSTALL (1) 6x12 HYBRIFLEX LI CABLE.

PROJECT INFORMATION

SITE NAME:	THOMPSON CT
SITE ADDRESS:	61 LOWELL DAVIS ROAD NORTH GROSVENORDALE, CT 06255
LESSEE/TENANT:	CELCO PARTNERSHIP 0-0-0 VERIZON WIRELESS 20 ALEXANDER DRIVE WALLINGFORD, CT 06482
CONTACT PERSON:	WALTER CHARCZNSKI (CONSTRUCTION MANAGER) VERIZON WIRELESS (860) 306-1806
ENGINEER:	CENITEK ENGINEERING, INC. 63-2 NORTH BRAUNFORD RD. BRAUNFORD, CT 06405 (203) 488-0560
PROJECT COORDINATES:	LATITUDE: 41° 58' 44.1984"N LONGITUDE: 71° 51' 9.2992"W (COORDINATES REFERENCED FROM VERIZON WIRELESS RFS# DATED 06/14/2021)

SHEET INDEX

SHT. NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	2
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C-1	COMPOUND PLAN AND ELEVATION	2
C-2	ANTENNA SECTOR CONFIGURATION DETAILS	2
C-3	RF DETAILS	2
E-1	ELECTRICAL DETAILS AND SPECIFICATIONS	2

PROFESSIONAL ENGINEER SEAL

verizon

CENITEK Engineering
Construction Solutions

0203 684-0560
0203 488-8587 Fax
63-2 North Braunford Road
Braunford, CT 06482
www.CenitekEng.com

Cellco Partnership d/b/a Verizon Wireless

THOMPSON CT
61 LOWELL DAVIS ROAD
NORTH GROSVENORDALE, CT 06255

DATE: 08/27/21
SCALE: AS NOTED
JOB NO. 2100723

TITLE SHEET

T-1
Sheet No. 1 of 1

CONSTRUCTION DRAWINGS - ISSUED FOR TOWER AS REFERENCE UPDATE
CONSTRUCTION DRAWINGS - ISSUED FOR RFS# DATED 06/14/21
CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
CONSTRUCTION DRAWINGS - ISSUED FOR CLEAR REVIEW

NOTES AND Specifications

DESIGN BASIS:

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

- 1. DESIGN CRITERIA:
 - RISK CATEGORY: II (BASED ON TABLE 1604.5 OF THE 2015 IBC)
 - NOMINAL DESIGN SPEED (TOWER): 101 MPH (Vwd) (EXPOSURE B/IMPORTANCE FACTOR 1.0 BASED ON ASCE 7-10) PER 2015 INTERNATIONAL BUILDING CODE (IBC) AS MODIFIED BY THE 2018 CONNECTICUT STATE BUILDING CODE.
 - SEISMIC LOAD (DOES NOT CONTROL): PER ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES.

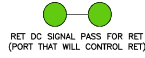
GENERAL NOTES:

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

PROFESSIONAL ENGINEER SEAL	REGISTERED PROFESSIONAL ENGINEER STATE OF CONNECTICUT No. 10717/21 Exp. 09/30/21	PROJECT NO. 21007.23 DATE: 08/27/21	CONSTRUCTION DRAWINGS - ISSUED FOR TOWER AS REFERENCE (UPDATE) CONSTRUCTION DRAWINGS - ISSUED FOR RITEF DATED 06/14/21 CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION CONSTRUCTION DRAWINGS - ISSUED FOR CLEAR REVIEW
verizon			
CENTEK engineering Contractors Solutions™ 2031 668-6360 2031 668-6587 Fax 65-2 North Branford Road Branford CT 06405 www.CentekEng.com			
Cellco Partnership d/b/a Verizon Wireless			
THOMPSON CT 61 LOWELL DAVIS ROAD NORTH GROSVENORDALE, CT 06255			
DATE:	08/27/21		
SCALE:	AS NOTED		
JOB NO.:	21007.23		
NOTES AND SPECIFICATIONS			
N-1			
Sheet No. 2 of 1			

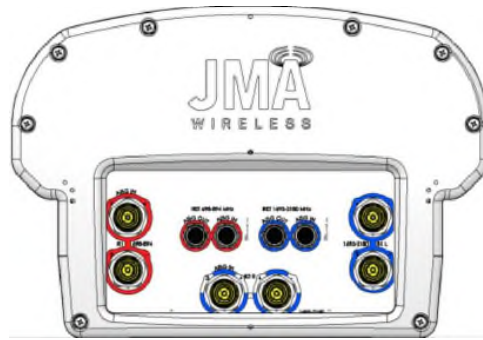
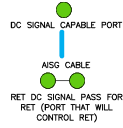
PLUMBING DIAGRAM NOTES:

1. PORTS 1 & 2 ARE FOR LOW BAND (898-896 MHz).
2. PORTS 3, 4, 5 & 5 ARE FOR HIGH BAND (1695-2360 MHz).
3. SMART BIAS TEE (SBT) IS THROUGH ANTENNA PORTS 1 & 3 (1 FOR LOW BAND AND 3 FOR HIGH BAND).
4. AISG CABLE IS ONLY NEEDED WHEN DRAWN IN THE DIAGRAMS ABOVE. IF IT IS NOT DRAWN THEN SBT IS ENOUGH TO CONTROL ALL RET MOTORS.
5. NOT ALL SBT PORTS ARE NEEDED TO CONTROL RET. ONLY GREEN PORT CONNECTION TO GREEN PORT WILL CONTROL RET.

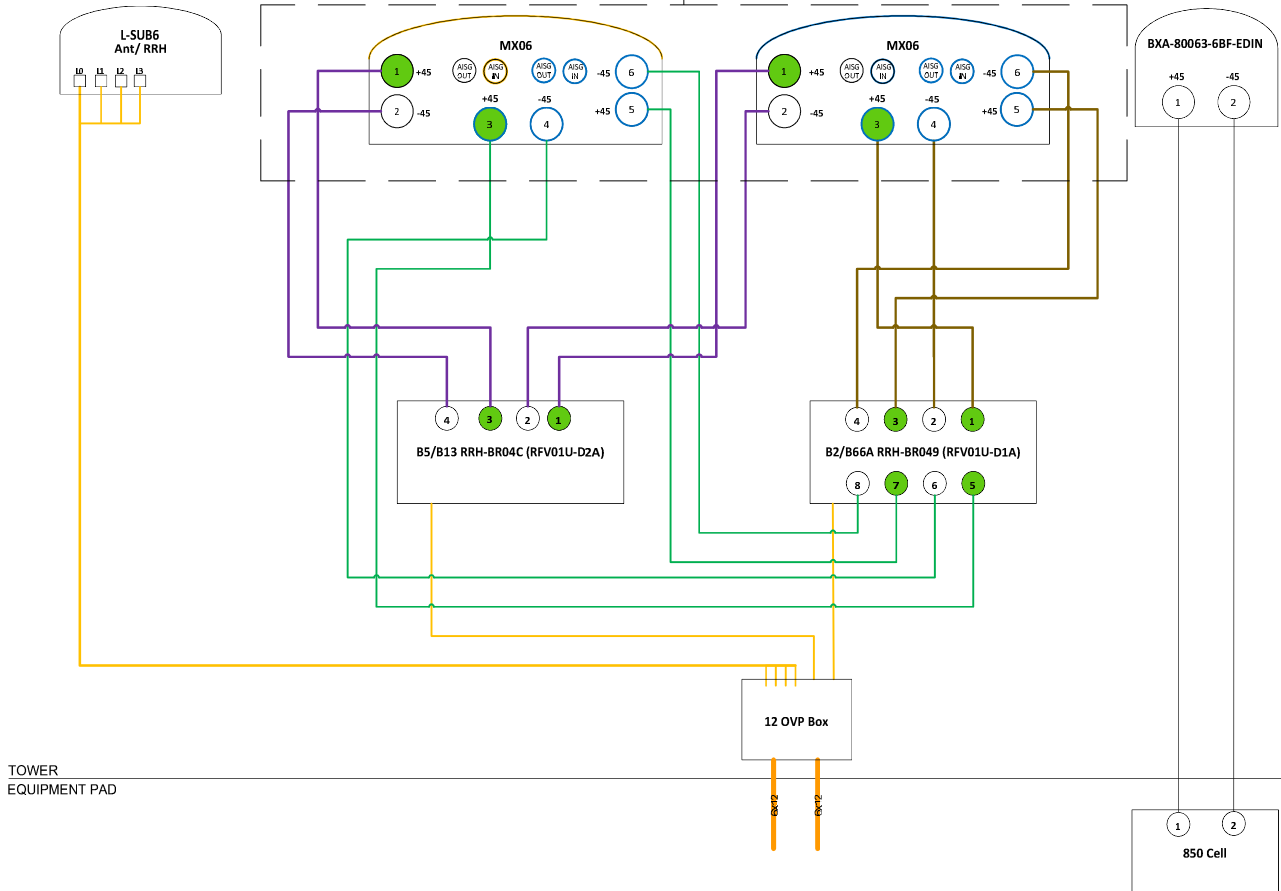


PLUMBING DIAGRAM COMMENTS:

- DIAGRAMS SHOW ANTENNA PORT CONFIGURATIONS 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 AND HYBRIFLEX CABLE. (FOR THE COAX COLORS, FOLLOW COAX COLORS GUIDE ABOVE)



91900314-02



NOTES:

- INFORMATION SHOWN HEREIN IS FOR USE BY VERIZON WIRELESS EQUIPMENT OPERATIONS.
- THIS B.O.M. DRAWING IS BASED ON FACILITY UPGRADE DESIGN DRAWINGS PREPARED BY CENTEK ENGINEERING (REV.2 DATED: 10/15/2021), & VERIZON WIRELESS RF ANTENNA EQUIPMENT RECOMMENDATION (DATED 06/14/2021).

BILL OF MATERIALS		
TECHNOLOGY	QUANTITY	ANTENNA
LTE 700		
LTE 850	6	JMA ANTENNA MODEL: MX06FR0660-03
LTE PCS 1900		
LTE AWS 2100	3	SAMSUNG ANTENNA MODEL: MT6407-77A
5G		

CABLES	QUANTITY	LENGTH EA	COMMENTS
HYBRID CABLE	1	±325 FT EA 6X12 U	HYBRID CABLE

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

DIPLEXERS	QUANTITY	COMMENTS
	0	

OVP BOXES	QUANTITY	COMMENTS
OVP	1	OVP-12

ANTENNA MOUNT	QUANTITY	COMMENTS
SIDE-BY-SIDE MOUNTING KIT	3	JMA MODEL: 91900314-02

NO.	DATE	BY	DESCRIPTION
1	06/14/2021	ANC	CONSTRUCTION DRAWINGS - REVISED FOR TOWER SBT REFERENCE UPDATE
2	09/17/21	ANC	CONSTRUCTION DRAWINGS - REVISED FOR RFRS DATED 09/14/21
3	09/17/21	ANC	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
4	09/17/21	ANC	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
5	09/17/21	ANC	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
6	09/17/21	ANC	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
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8	09/17/21	ANC	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
9	09/17/21	ANC	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
10	09/17/21	ANC	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION



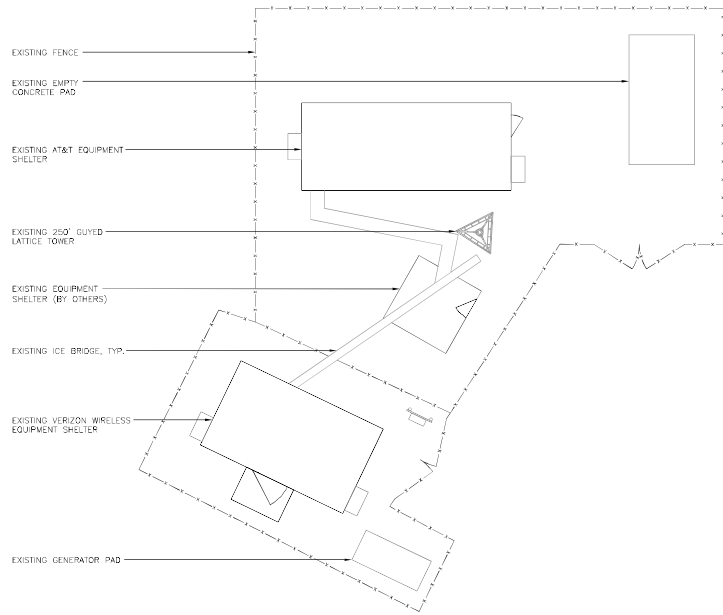
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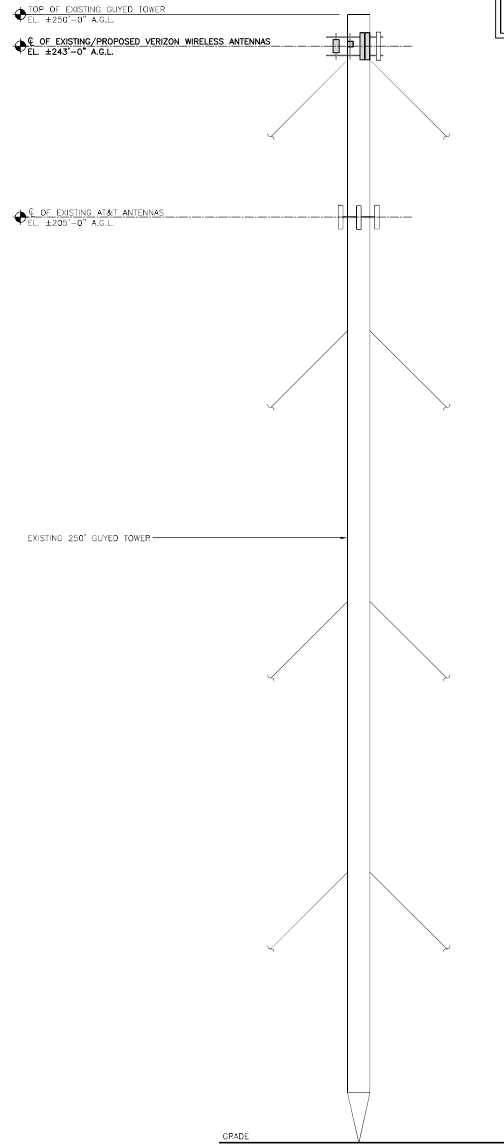
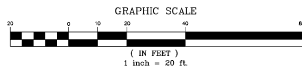
DATE: 08/27/21
 SCALE: AS NOTED
 JOB NO.: 2100723

RF BILL OF MATERIALS

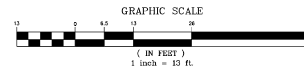
B-1
 Sheet No. 2 of 1



1
C-1
COMPOUND PLAN
SCALE: 1" = 20'-0"



2
C-1
TOWER ELEVATION - PROPOSED
SCALE: 1" = 13'-0"



TOWER STRUCTURAL ANALYSIS REFERENCE NOTE
REFER TO PASTING STRUCTURAL ANALYSIS REPORT PREPARED BY TOWER ENGINEERING SOLUTIONS DATED 09/23/2021. TOWER ENGINEERING SOLUTIONS PROJECT NO. 112502 R1 FOR ADDITIONAL INFORMATION.

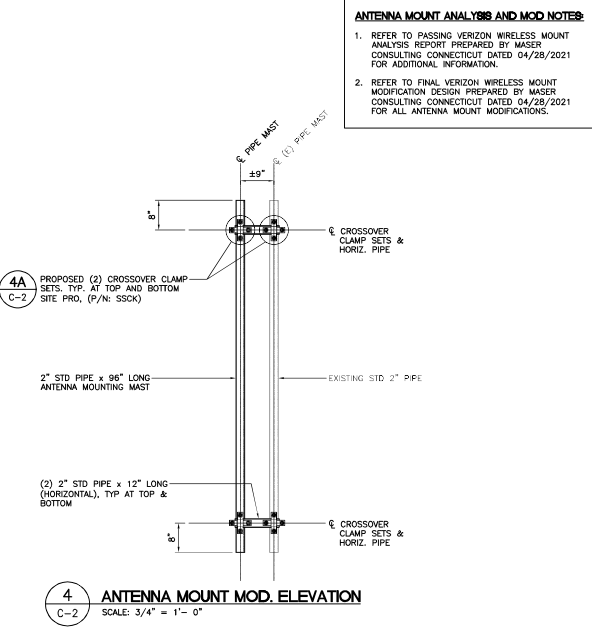
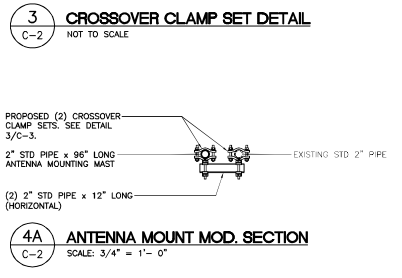
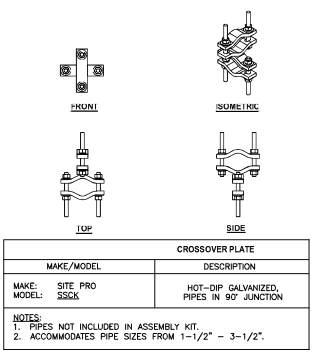
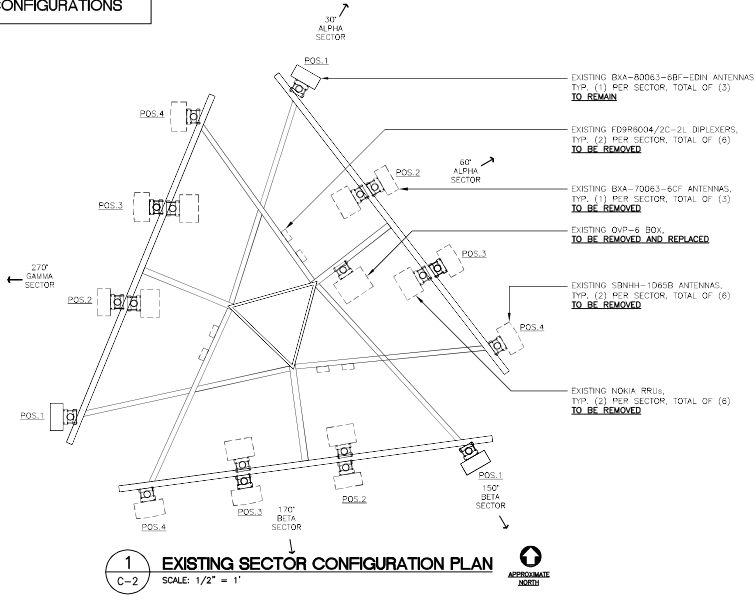
PROFESSIONAL ENGINEER SEAL	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION	DATE	08/27/21
	CONSTRUCTION DRAWINGS - REVISED FOR RFI'S DATED 06/14/21	SCALE	AS NOTED
	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION	JOB NO.	21007.23
	CONSTRUCTION DRAWINGS - ISSUED FOR CLEAR REVIEW		
		COMPOUND PLAN AND ELEVATION	
<p>Cellco Partnership d/b/a Verizon Wireless</p> <p>THOMPSON CT</p> <p>61 LOWELL DAVIS ROAD</p> <p>NORTH GROSVENORDALE, CT 06255</p>			
<p>C-1</p> <p>Sheet No. <u>1</u> of <u>1</u></p>			

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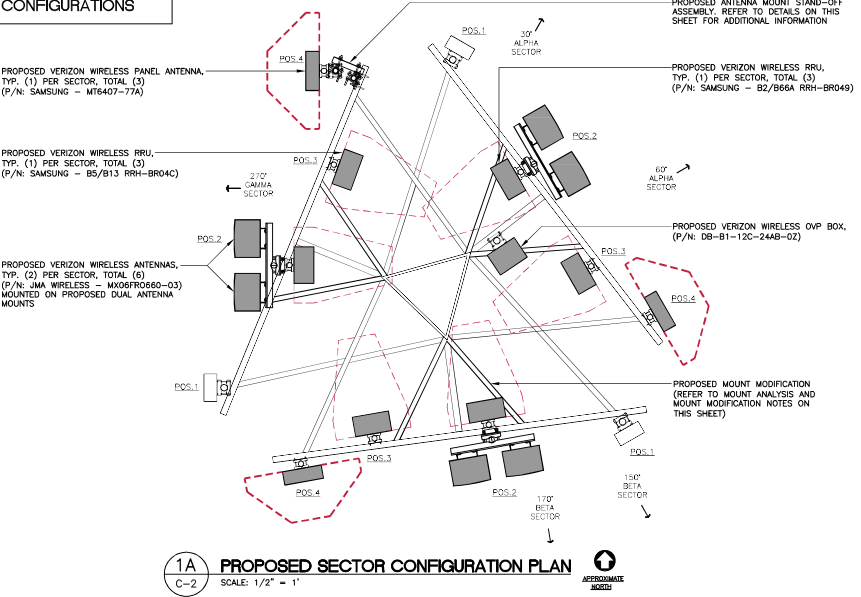
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EXISTING ANTENNA CONFIGURATIONS

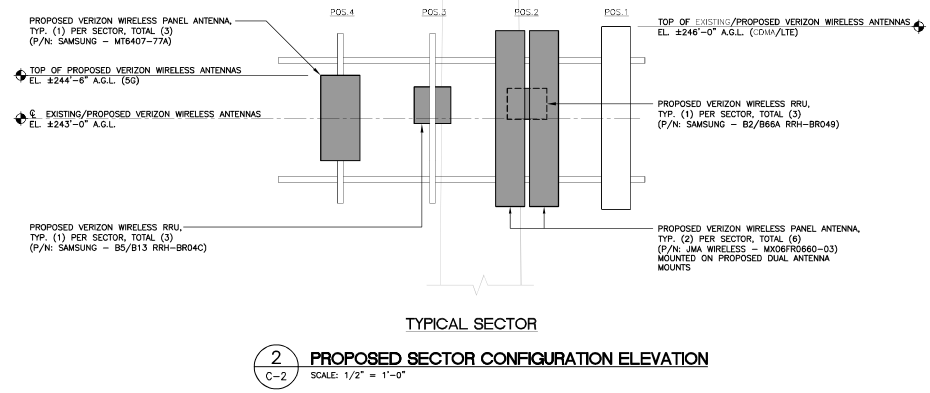


PROPOSED ANTENNA CONFIGURATIONS



LEGEND

---	VERIZON WIRELESS V2501 REQUIRED ANTENNA CLEARANCE LIMITS (PER DETAILS ON SHEET C-2)
ANTENNA CLEARANCE STATUS	ALPHA SECTOR: COMPLIANT BETA SECTOR: COMPLIANT GAMMA SECTOR: COMPLIANT
---	VERIZON WIRELESS RRU REQUIRED ANTENNA CLEARANCE LIMITS (PER DETAILS ON SHEET C-2)
RRU CLEARANCE STATUS	ALPHA SECTOR: COMPLIANT BETA SECTOR: COMPLIANT GAMMA SECTOR: COMPLIANT



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ANTENNA SECTOR CONFIGURATION DETAILS

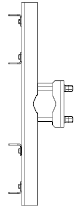
C-2
Sheet No. 2 of 1



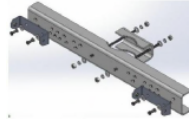
ANTENNA FRONT

SECTOR ANTENNA		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: M76407-77A	35.17" x 16.17" x 5.57"D (NOT TO EXCEED)	87 LBS. (NOT TO EXCEED)
CLEARANCES AND SERVICE AREA		
TOP:	31.5"	HORIZONTAL DISTANCE: 31.5" (ANT. TO ANT.)
FRONT, SIDES & BOTTOM:	15.7"	VERTICAL DISTANCE: 63.0" (ANT. TO ANT.)
NOTES: 1. THIS ANTENNA HAS ITS OWN BUILT-IN RRH.		

1 SECTOR ANTENNA DETAIL
C-3 NOT TO SCALE



PLAN VIEW



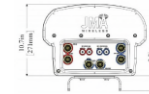
ANTENNA MOUNT ISOMETRIC

DUAL ANTENNA MOUNTING KIT	
EQUIPMENT	DESCRIPTION
MOUNT MAKE: JMA MODEL: 918003314-02	<ul style="list-style-type: none"> SIDE-BY-SIDE MOUNTING KIT, ACCOMMODATES (2) COMPATIBLE ANTENNAS 2 BRACKETS REQUIRED FOR 4'-6" ANTENNAS 3 BRACKETS REQUIRED FOR 6'-8" ANTENNAS

2 DUAL ANTENNA MOUNT DETAIL
C-3 NOT TO SCALE



ELEVATION - ISOMETRIC



BOTTOM

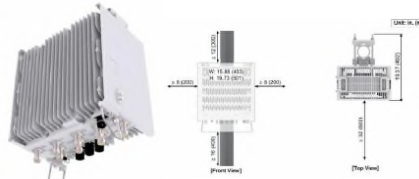
9-PORT SECTOR ANTENNA		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: JMA MODEL: MX06FR0560-03	71.3"L x 15.4"W x 10.7"D	60.0 LBS. (W/O/OUT MOUNT KIT)

3 SECTOR ANTENNA DETAIL
C-3 NOT TO SCALE



OVP BOX		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: RAYCAP MODEL: DB-C1-12C-24AB-OZ	29.57"H x 16.5"W x 12.6"D	32 LBS.
NOTES: 1. CONTRACTOR TO CONFIRM OVP BOX MAKE/MODEL AND QUANTITY WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.		

4 PROPOSED OVER-VOLTAGE PROTECTION BOX
C-3 NOT TO SCALE



RRH ISOMETRIC

RRH CLEARANCES

DUAL BAND RRU (REMOTE RADIO UNIT)			
EQUIPMENT	BANDS	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: S2/B66A RRH-BR049 (RRV01U-D1A)	B2: PCS (1900 MHz) B66: AWS (2100 MHz)	15.07"H x 15.07"W x 10.07"D	84.4 LBS.
NOTES: 1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.			

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



RRH ISOMETRIC

RRH CLEARANCES

DUAL BAND RRU (REMOTE RADIO UNIT)			
EQUIPMENT	BANDS	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: B5/B13 RRH-BR04C (RRV01U-S2A)	B5: 850 MHz B13: 700 MHz	15.07"H x 15.07"W x 8.17"D	70.3 LBS.
NOTES: 1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.			

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

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9	09/07/21	ANC	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
10	09/07/21	ANC	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION



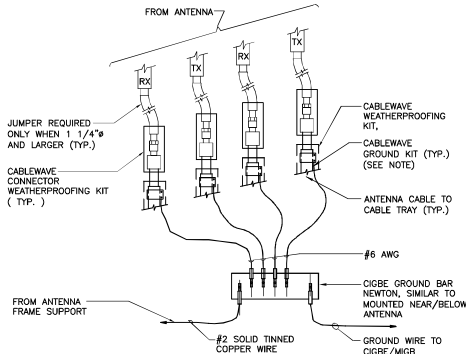
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DATE: 08/27/21
 SCALE: AS NOTED
 JOB NO. 2100723

RF DETAILS

C-3
 Sheet No. 8 of 11



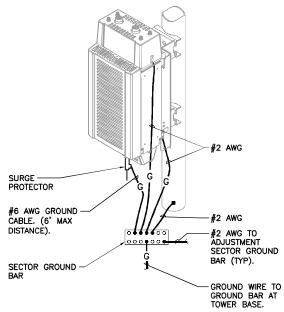
NOTES

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

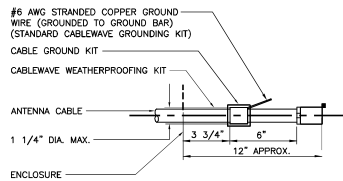
1 CONNECTION OF GROUND WIRES TO GROUND BAR
E-1 NOT TO SCALE

EACH RRH CABINET SHALL BE GROUNDED IN THE FOLLOWING MANNER:

- AT TOP OF THE CABINET
- AT RIGHT SIDE OF THE CABINET.



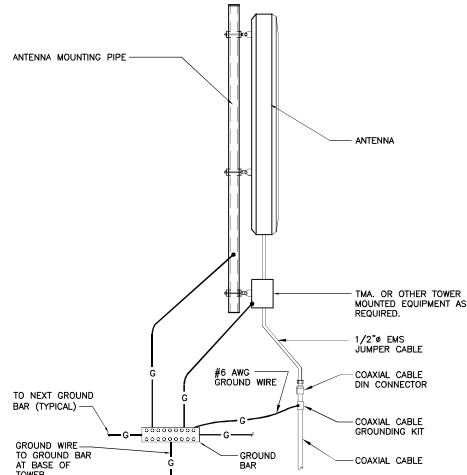
2 RRH POLE MOUNT GROUNING
E-1 NOT TO SCALE



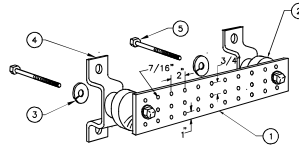
NOTES

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

3 ANTENNA CABLE GROUNING DETAIL
E-1 NOT TO SCALE



4 TYPICAL ANTENNA GROUNING DETAIL
E-1 NOT TO SCALE



NOTES

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

5 GROUND BAR DETAIL
E-1 NOT TO SCALE

ELECTRICAL SPECIFICATIONS

SECTION 16100

1.01. SCOPE OF WORK

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

- CELLULAR GROUNING SYSTEMS CONSISTING OF ANTENNA GROUNING, GROUND BARS, ETC.

1.02. GENERAL REQUIREMENTS

- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE MADE IN STRICT ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL CODES AND REGULATIONS WHICH MAY APPLY AND NOTHING IN THE DRAWINGS OR SPECIFICATIONS SHALL BE INTERPRETED AS AN INFRINGEMENT OF SUCH CODES OR REGULATIONS.
- THE ELECTRICAL CONTRACTOR IS TO BE RESPONSIBLE FOR THE COMPLETE INSTALLATION AND COORDINATION OF THE ENTIRE ELECTRICAL SERVICE. ALL ACTIVITIES TO BE COORDINATED THROUGH OWNERS REPRESENTATIVE, DESIGN ENGINEER AND OTHER AUTHORITIES HAVING JURISDICTION OF TRADES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND PAY ALL FEES THAT MAY BE REQUIRED FOR THE ELECTRICAL WORK AND FOR SCHEDULING OF ALL INSPECTIONS THAT MAY BE REQUIRED BY THE LOCAL AUTHORITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE BUILDING OWNER FOR NEW AND/OR DEMOLITION WORK INVOLVED.
- NO MATERIAL OTHER THAN THAT CONTAINED IN THE "LATEST LIST OF ELECTRICAL FITTINGS" APPROVED BY THE UNDERWRITERS' LABORATORIES, SHALL BE USED IN ANY PART OF THE WORK. ALL MATERIAL FOR WHICH LABEL SERVICE HAS BEEN ESTABLISHED SHALL BEAR THE U.L. LABEL.
- THE CONTRACTOR SHALL GUARANTEE ALL NEW WORK FOR A PERIOD OF ONE YEAR FROM THE ACCEPTANCE DATE BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WARRANTIES FROM ALL EQUIPMENT MANUFACTURERS FOR SUBMISSION TO THE OWNER.
- DRAWINGS INDICATE GENERAL ARRANGEMENT OF WORK INCLUDED IN CONTRACT. CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE MODIFICATIONS TO THE LAYOUT OF THE WORK TO PREVENT CONFLICT WITH WORK OF OTHER TRADES AND FOR THE PROPER INSTALLATION OF WORK. CHECK ALL DRAWINGS AND VISIT JOB SITE TO VERIFY SPACE AND TYPE OF EXISTING CONDITIONS IN WHICH WORK WILL BE DONE, PRIOR TO SUBMITTAL OF BID.
- THE ELECTRICAL CONTRACTOR SHALL SUPPLY THREE (3) COMPLETE SETS OF APPROVED DRAWINGS, ENGINEERING DATA SHEETS, MAINTENANCE AND OPERATING INSTRUCTION MANUALS FOR ALL SYSTEMS AND THEIR RESPECTIVE EQUIPMENT. THESE MANUALS SHALL BE INSERTED IN VINYL COVERED 3-RING BINDERS AND TURNED OVER TO OWNERS REPRESENTATIVE ONE (1) WEEK PRIOR TO FINAL PUNCH LIST.
- ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER AND WILL BE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
- ALL EQUIPMENT AND MATERIALS TO BE INSTALLED SHALL BE NEW, UNLESS OTHERWISE NOTED.
- BEFORE FINAL PAYMENT, THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF PRINTS (AS-BUILTS), LEGIBLY MARKED IN RED PENCIL TO SHOW ALL CHANGES FROM THE ORIGINAL PLANS.
- ENTIRE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH OWNER'S SPECIFICATIONS, AND REQUIREMENTS OF ALL LOCAL AUTHORITIES HAVING JURISDICTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH APPROPRIATE INDIVIDUALS TO OBTAIN ALL SUCH SPECIFICATIONS AND REQUIREMENTS. NOTHING CONTAINED IN, OR OMITTED FROM, THESE DOCUMENTS SHALL RELIEVE CONTRACTOR FROM THIS OBLIGATION.

SECTION 16450

1.01. GROUNING

- ALL NON-CURRENT CARRYING PARTS OF THE ELECTRICAL AND TELEPHONE CONDUIT SYSTEMS SHALL BE MECHANICALLY AND ELECTRICALLY CONNECTED TO PROVIDE AN INDEPENDENT RETURN PATH TO THE EQUIPMENT GROUNING SOURCES.
- GROUNING SYSTEM WILL BE IN ACCORDANCE WITH THE LATEST ACCEPTABLE EDITION OF THE NATIONAL ELECTRICAL CODE AND REQUIREMENTS PER LOCAL INSPECTOR HAVING JURISDICTION.
- EQUIPMENT GROUNING CONDUCTOR:
 - EACH EQUIPMENT GROUND CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. ARTICLE 250-122.
 - THE MINIMUM SIZE OF EQUIPMENT GROUND CONDUCTOR SHALL BE #12 AWG COPPER.
- CELLULAR GROUNING SYSTEM:
 - PROVIDE THE CELLULAR GROUNING SYSTEM AS SPECIFIED ON DRAWINGS, INCLUDING, BUT NOT LIMITED TO:
 - GROUND BARS
 - ANTENNA GROUND CONNECTIONS AND PLATES.
- ALL EQUIPMENT SHALL BE BONDED TO GROUND AS REQUIRED BY N.E.C., MFG. SPECIFICATIONS, AND OWNER'S SPECIFICATIONS.

NO.	DATE	BY	DESCRIPTION
1	08/27/21	ANC	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION
2	09/03/21	ANC	CONSTRUCTION DRAWINGS - REVISED FOR PERMITS DATED 06/14/21
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NORTH GROSVENORDALE, CT 06255

DATE:	08/27/21
SCALE:	AS NOTED
JOB NO.:	2100723

ELECTRICAL
DETAILS AND
SPECIFICATIONS

SAMSUNG

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

RFV01U-D1A

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



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

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

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

Features and Benefits

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

Key Technical Specifications

Duplex Type: FDD

Operating Frequencies:

B66: DL(2,110-2,180MHz)/UL(1,710-1,780MHz)

B2: DL(1,930-1,990MHz)/UL(1,850-1,910MHz)

Instantaneous Bandwidth:

70MHz(B66) + 60MHz(B2)

RF Chain: 4T4R/2T4R/2T2R

Output Power: Total 320W

DU-RU Interface: CPRI (10Gbps)

Dimensions: 380 x 380 x 255mm (36.8L)

Weight: 38.3kg

Input Power: -48V DC

Operating Temp.: -40 - 55°(w/o solar load)

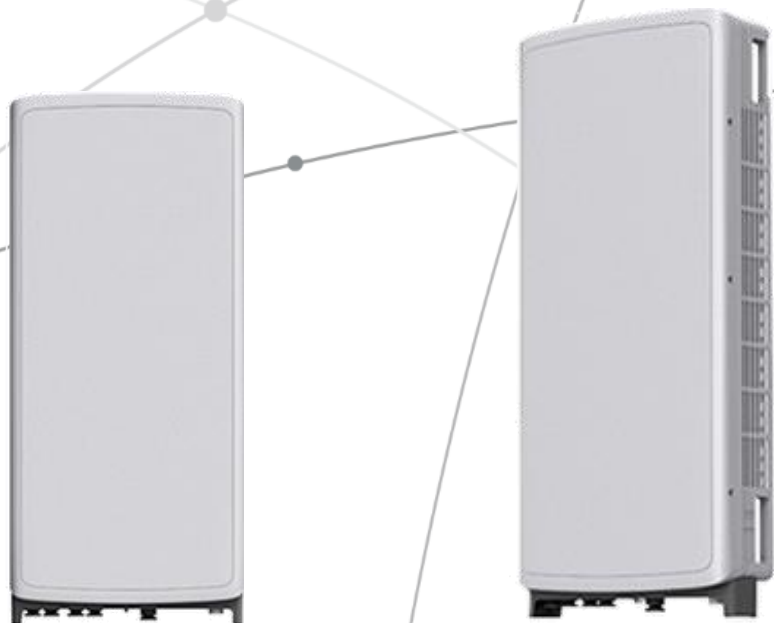
Cooling: Natural convection

SAMSUNG 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



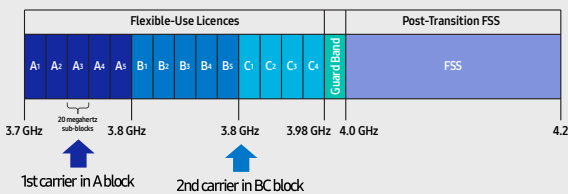
Points of Differentiation

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

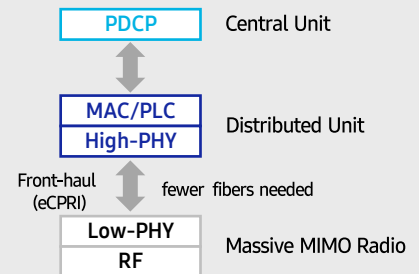
C-Band spectrum supported by Massive MIMO Radio



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.

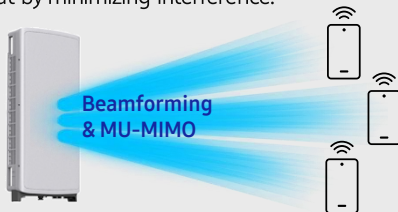


Enhanced Performance

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.

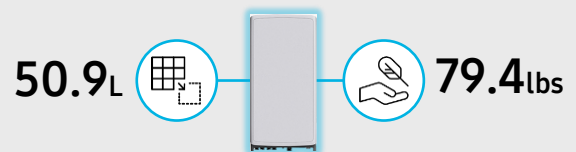
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



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

The Samsung logo is positioned in the top right corner. The background features several thin, light gray curved lines that sweep across the page, creating a sense of motion and connectivity. There are also a few small, solid gray dots scattered across the page, some of which appear to be at the intersections of the curved lines.

SAMSUNG

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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.

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SAMSUNG

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

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



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

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

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

Features and Benefits

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

Key Technical Specifications

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

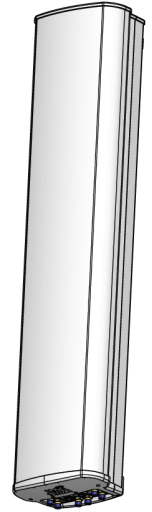
MX06FRO660-03

NWAV™ X-Pol Hex-Port Antenna

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

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

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



NWAV™

Fast Roll-Off antennas increase data throughput without compromising coverage

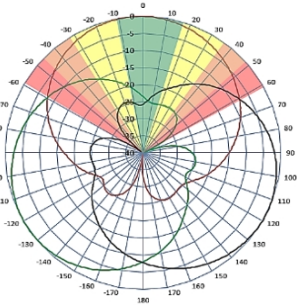
The horizontal beam produced by Fast Roll-Off (FRO) technology increases the Signal to Interference & Noise Ratio (SINR) by eliminating overlap between sectors.

Non-FRO antenna

Large traditional antenna pattern overlap creates harmful interference.

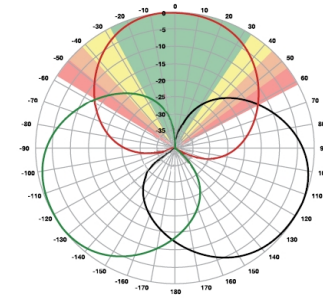
JMA's FRO antenna pattern minimizes overlap, thereby minimizing interference.

JMA FRO antenna



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

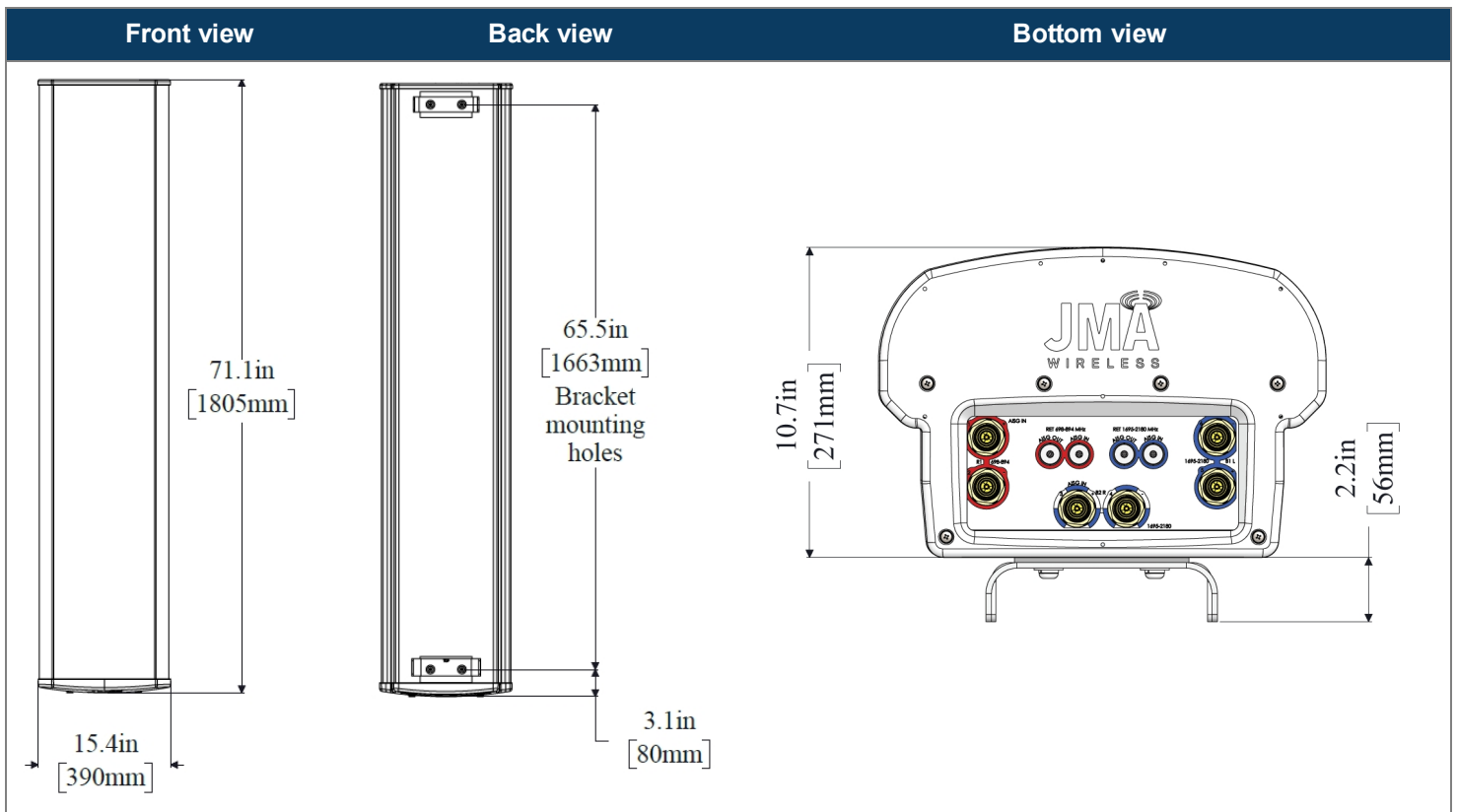
The LTE radio automatically selects the best throughput based on measured SINR.



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

¹ Typical value over frequency and tilt

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



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

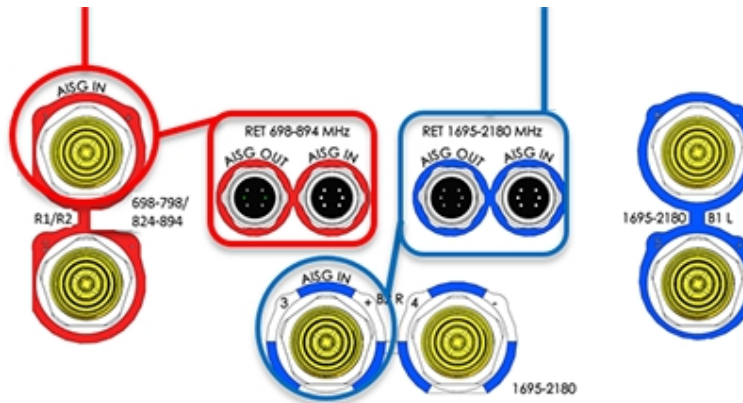
Remote electrical tilt (RET 1000) information	
RET location	Integrated into antenna
RET interface connector type	8-pin AISG connector per IEC 60130-9
RET connector torque	Min 0.5 N·m to max 1.0 N·m (hand pressure & finger tight)
RET interface connector quantity	2 pairs of AISG male/female connectors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

RET and RF connector topology

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

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

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



Array topology

3 sets of radiating arrays R1/R2: 698-894 MHz B1: 1695-2180 MHz B2: 1695-2180 MHz	<table border="1"> <thead> <tr> <th>Band</th> <th>RF port</th> </tr> </thead> <tbody> <tr> <td>1695-2180</td> <td>3-4</td> </tr> <tr> <td>698-894</td> <td>1-2</td> </tr> <tr> <td>1695-2180</td> <td>5-6</td> </tr> </tbody> </table>	Band	RF port	1695-2180	3-4	698-894	1-2	1695-2180	5-6	
	Band	RF port								
1695-2180	3-4									
698-894	1-2									
1695-2180	5-6									

ATTACHMENT 3

	General	Power	Density					
Site Name: Thompson								
Tower Height: Verizon @ 243ft								
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	FREQ.	CALC. POWER DENS	MAX. PERMIS S.EXP.	FRACTIO N MPE	Total
*AT&T	1	1000	205	880	0.0091	0.5867	0.15%	
*AT&T	1	2951	205	880	0.0268	0.5867	0.46%	
*AT&T	1	3664	205	880	0.0333	0.5867	0.57%	
*AT&T	1	1475	205	1900	0.0134	1.0000	0.13%	
*AT&T	1	1360	205	880	0.0124	0.5867	0.21%	
*AT&T	1	3837	205	1900	0.0348	1.0000	0.35%	
*AT&T	1	1000	205	734	0.0091	0.4893	0.19%	
*MetroPCS	3	444	215	2140	0.0110	1.0000	0.11%	
*CONN-2 (Metro Mobile)	1	5130	235	875	0.0352	0.5833	0.60%	
*Nextel	9	100	190	851	0.0096	0.5673	0.17%	
*Paging	1	500	188	928	0.0054	0.6187	0.09%	
*EMS/Town	3	500	172	450	0.0196	0.3000	0.65%	
*Town	1	500	160	66	0.0076	0.2000	0.38%	
VZW 700	4	609	123	751	0.0015	0.5007	0.30%	
VZW CDMA	2	499	123	877.26	0.0006	0.5848	0.10%	
VZW Cellular	4	623	123	874	0.0015	0.5827	0.26%	
VZW PCS	4	1396	123	1975	0.0034	1.0000	0.34%	
VZW AWS	4	1530	123	2120	0.0037	1.0000	0.37%	
VZW CBAND	4	6531	123	3730.08	0.0159	1.0000	1.59%	
								7.02%
* 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 250 ft Mapped Guyed Tower

Customer Name: SBA Communications Corp

Customer Site Number: CT17474-A

Customer Site Name: Thompson

Carrier Name: Verizon (App#: 154485, V2)

Carrier Site ID / Name: 469200 / Thompson CT

Site Location: 61 Lowell Davis Road

Thompson, Connecticut

Windham County

Latitude: 41.978944

Longitude: -71.852500

Exp.10/31/2021



Analysis Result:

Max Structural Usage: 99.4% [Pass]

Max Foundation Usage: 92.0% [Pass]

Additional Usage Caused by Mount Modification:

09/23/2021

Report Prepared By: Sital Shrestha



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Introduction

The purpose of this report is to summarize the analysis results on the 250 ft Mapped Guyed 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	GPD, Tower Mapping Job # 2012816.10, Dated 10/19/2012
Foundation Drawing	GPD, Foundation Mapping Job # 2012816.10, Dated 11/16/2012
Geotechnical Report	GPD, Job # 2012816.10, Dated 11/16/2012
Modification Drawings	PCI, TES Job # 87869, dated 04/14/2020.
Mount Analysis	Mount Mod Drawing by MASER Consulting, Job No. 21777093A, dated 4/28/2021. Post- Mod MA by MASER Consulting, Job No. 21777093A, dated 04/28/2021.

Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the TIA- In accordance with this standard, the structure was analyzed using **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 $V_{ult} = 130.0$ mph (3-Sec. Gust)/ Nominal Design Wind Speed $V_{asd} = 101.0$ mph (3-Sec. Gust)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 3/4" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-G-2 / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	
Structure Class:	
Topographic Category:	
Crest Height:	0 ft
Seismic Parameters:	

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

Existing Antennas, Mounts and Transmission Lines

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

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
			Antel BXA-70063-6CF - Panel	(3) Sector Frame		Verizon
			Antel BXA-80063-6CF - Panel			
			Antel BXA 171063-12CF - Panel			
			Antel WBXA-065X19R050 - Panel			
			ALU AWS RRH 2x40 - RRH			
			RFS FD9R6004/2C-3L - Diplexer			
		1	RFS DB-T1-6Z-8AB-0Z - Distribution Box			
			CCI DMP65R-BU8DA - Panel	(3) Sector Frame	(2)7/8" Dc & (1)0.39" Fiber in (1) 3" Flex Conduit, (4)7/8" & (1)0.39" in (2) 2" Conduit	
			Powerwave 7770.00 - Panel			
			Powerwave LGP21401			
			Ericsson RRUS 4478 B14			
			Ericsson 8843 B2/B66A			
			Ericsson RRUS 4449 B5/B12			
			Raycap DC6-48-60-18-8F			
			10' Omni	(1) Stand-Off		Unknown

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
			JMA Wireless MX06FRO660-3-Panel	(3) Sector Frame w/ (V- Bracing Kit) (Crossover Plate) (Bracket)	(11) 1 5/8" Coax (2) 1 5/8" Hybrid	Verizon
			Samsung MT6407-77A- Panel			
			Antel BXA-80063-6BF- Panel			
			Samsung RFV01U-D1A- RRU			
			Samsung RFV01U-D2A- RRU			
			Raycap RCMDC-6627-PF-48- OVP			

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

Analysis Results

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

Tower Component	Legs	Diagonals	Horizontals	Guy Wires
Max. Usage:				
Pass/Fail	Pass	Pass	Pass	Pass

Foundations

	Base Reactions		Inner Anchors	
	Axial	Shear	Uplift	Shear
Reactions (kips)				
Analysis Reactions				

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

Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 0.2303 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

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

Standard Conditions

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

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

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

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

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

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

Structure: CT17474-A-SBA

Site Name: Thompson
Type: Guyed
Height: 250.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: Triangle
Basic WS: 101.00
Basic Ice WS: 50.00
Operational WS: 60.00

Code: EIA/TIA-222-G
Basic WS: 101.00
Basic Ice WS: 50.00
Operational WS: 60.00

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 Page: 1



Section Properties

Sect	Leg Members	Diagonal Members	Horizontal Members
1	PST 2-1/2" DIA PIPE	SOL 3/4" SOLID	PLT 2"X1/4
2-13	PST 2-1/2" DIA PIPE	SOL 3/4" SOLID	SOL 5/8" SOLID
14	PST 2-1/2" DIA PIPE	SOL 3/4" SOLID	SAU 2X1.5X0.1875
15	PST 2-1/2" DIA PIPE	SOL 1 1/4" SOLID	SAU 2X1.5X0.1875

Discrete Appurtenances

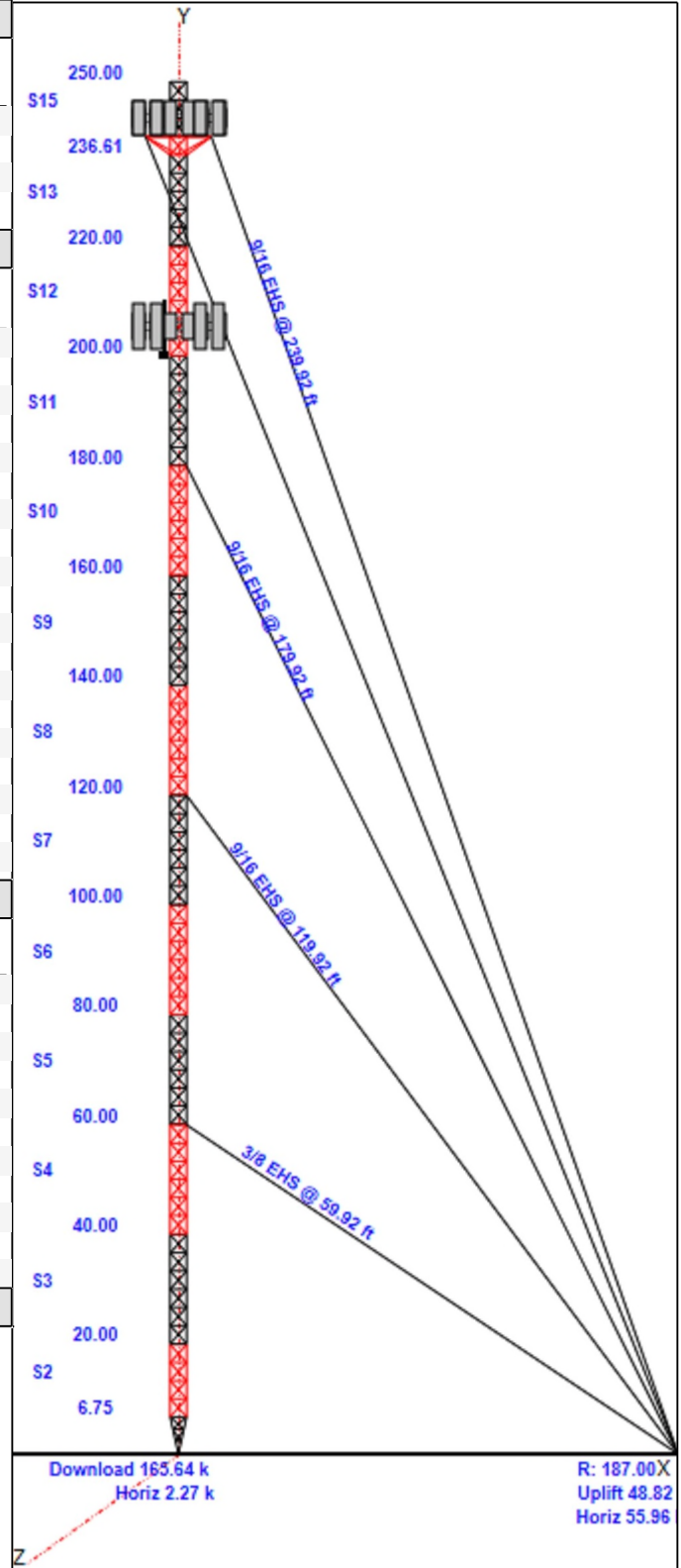
Attach Elev (ft)	Force Elev (ft)	Qty	Description
243.00	243.00	6	MX06FRO660-02
243.00	243.00	3	MT6407-77A
243.00	243.00	3	RFV01U-D1A
243.00	243.00	3	RFV01U-D2A
243.00	243.00	1	RCMDC-6627-PF-48
243.00	243.00	2	(3) VZSMART-SFK3 (V-Bracing Kit)
243.00	243.00	3	JMA 91900314 Bracket
243.00	243.00	3	BXA-80063-6BF
243.00	243.00	3	Sector Frame w/ (3) VZSMART MSK1
205.00	205.00	3	Sector Frame
205.00	205.00	3	4449 B5/B12
205.00	205.00	6	CCI DMP65R-BU8DA
205.00	205.00	3	7770.00
205.00	205.00	6	LGP21401
205.00	205.00	3	RRUS 4478 B14
205.00	205.00	3	8843 B2/B66A
205.00	205.00	3	DC6-48-60-18-8F
200.00	205.00	1	10' Omni
200.00	200.00	1	Stand-Off

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Qty	Description
0.00	250.00	1	Safety Cable
0.00	243.00	3	1 5/8" Coax
0.00	243.00	2	1 5/8" Coax
0.00	243.00	2	1 5/8" Coax
0.00	243.00	2	1 5/8" Coax
0.00	243.00	2	1 5/8" Hybrid
0.00	205.00	12	1 5/8" Coax
0.00	205.00	2	2" Conduit
0.00	205.00	1	3" Flex Conduit
0.00	200.00	1	1 5/8" Coax

Max Guy Wire

99.39% @ 179.917 ft - 9/16 EHS



Structure: CT17474-A-SBA

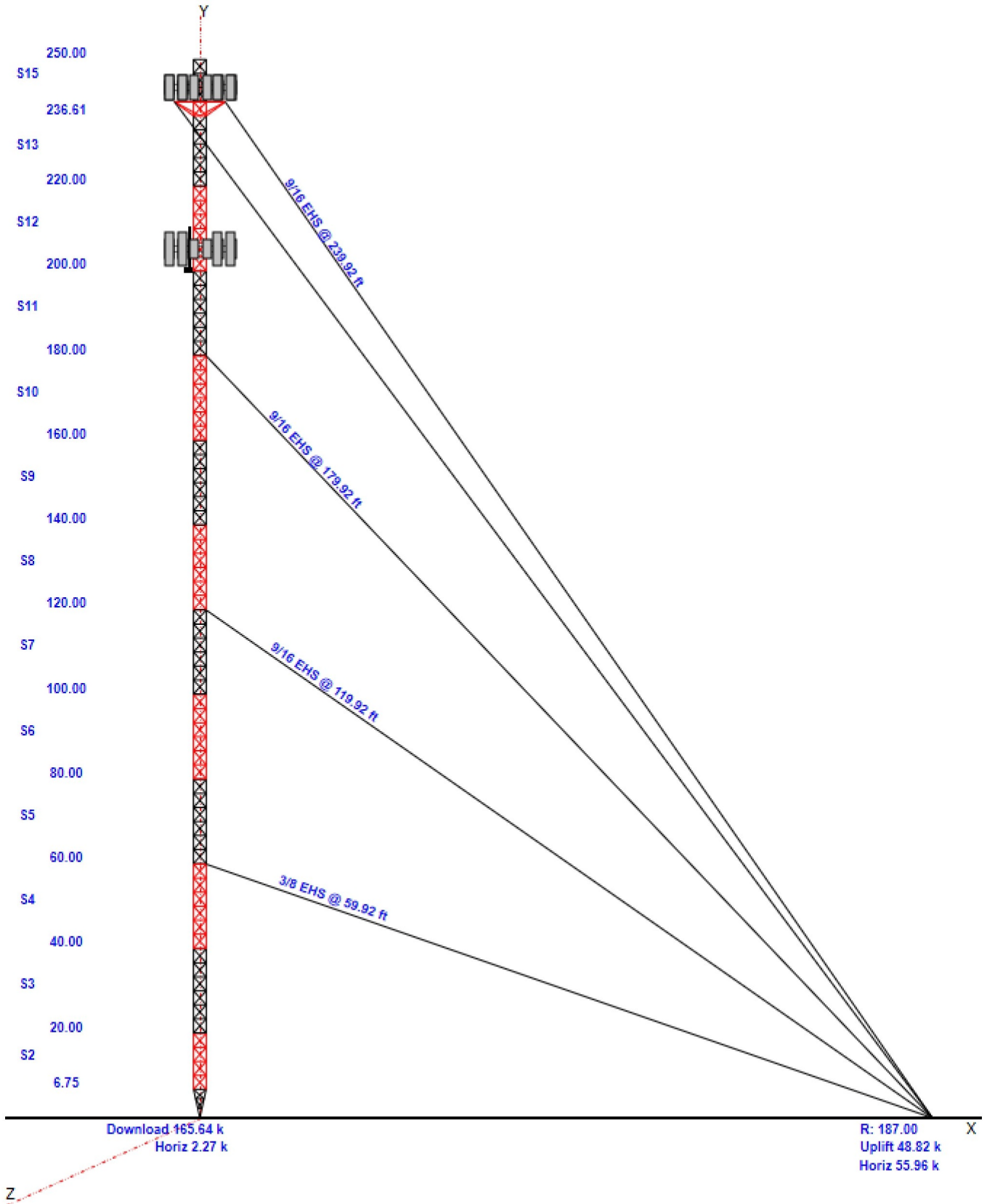
Site Name: Thompson
Type: Guyed
Height: 250.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: Triangle
Base Width: 0.00
Top Width: 3.00

Code: EIA/TIA-222-G
Basic WS: 101.00
Basic Ice WS: 50.00
Operational WS: 60.00

9/23/2021

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Anchor Drops with Guy Radius - Structure: CT17474-A-SBA

Site Name: Thompson

Type: Guyed

Height: 250.00 (ft)

Base Elev: 0.00 (ft)

Base Shape: Triangle

Base Width: 0.00

Top Width: 3.00

Code: EIA/TIA-222-G

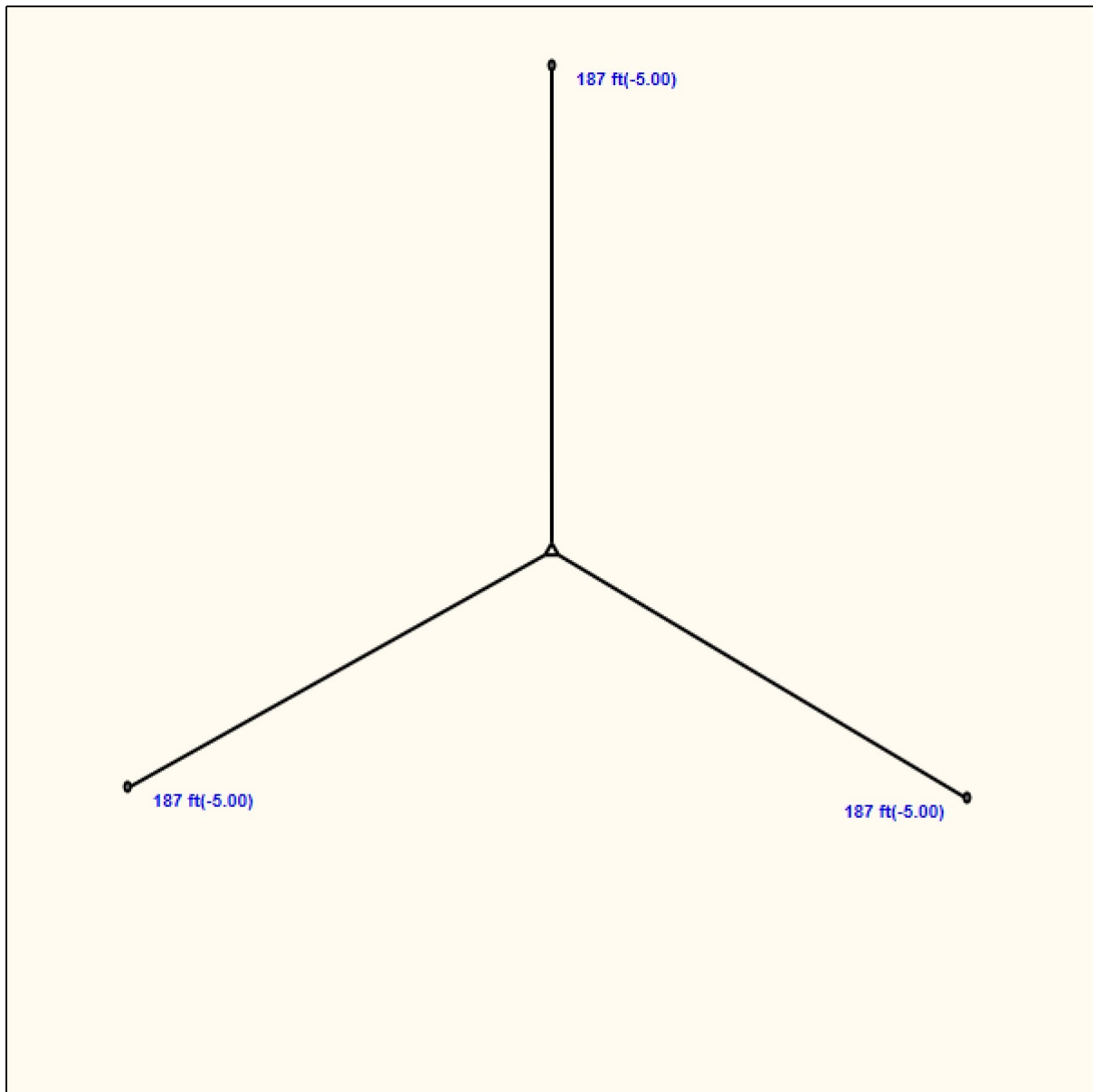
Basic WS: 101.00

Basic Ice WS: 50.00

Operational WS: 60.00

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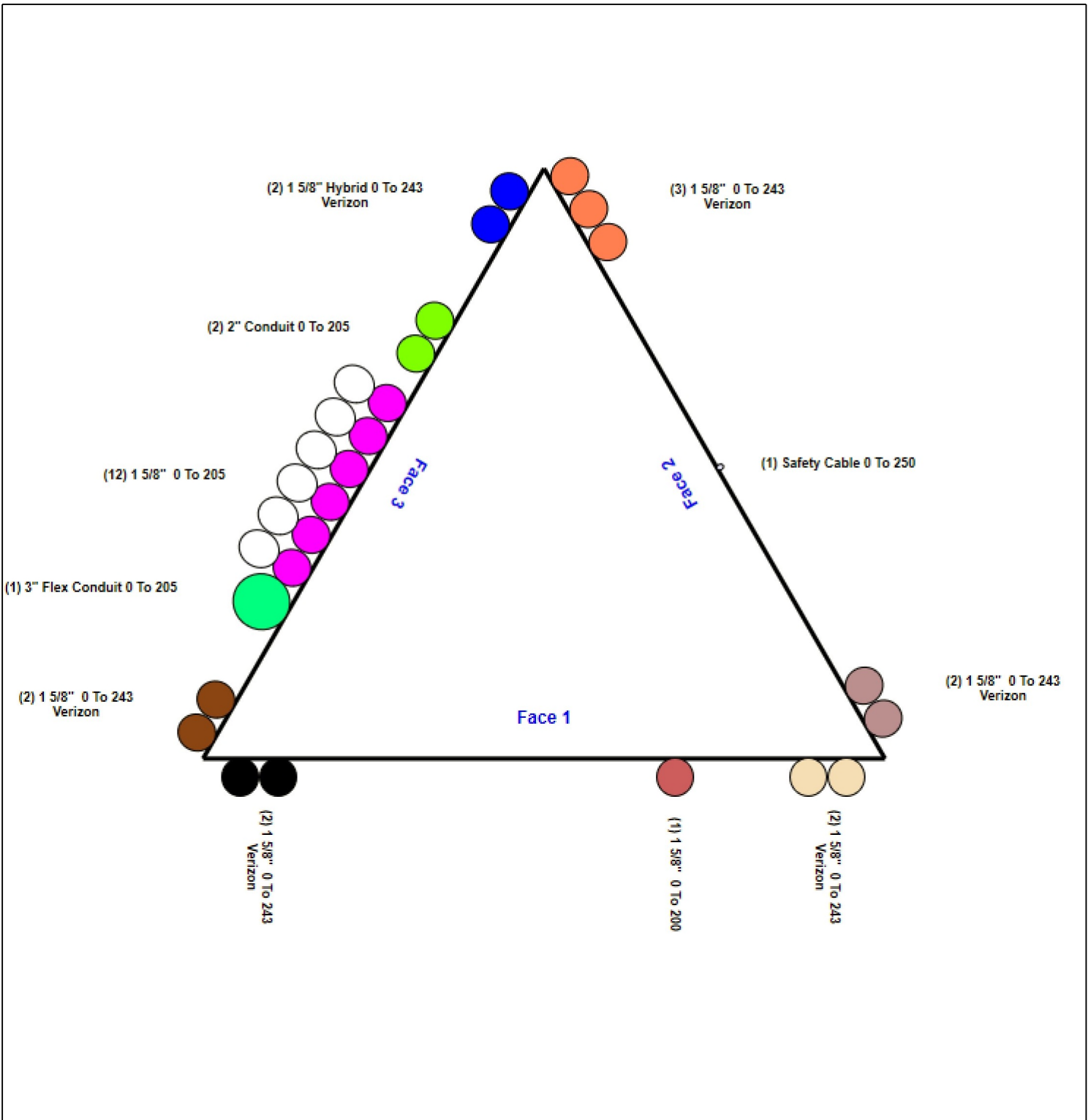
Structure: CT17474-A-SBA - Coax Line Placement

Type: Guyed
Site Name: Thompson
Height: 250.00 (ft)

9/23/2021



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Loading Summary

Structure: CT17474-A-SBA	Code: EIA/TIA-222-G	9/23/2021
Site Name: Thompson	Exposure: C	
Height: 250.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



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Discrete Appurtenances Properties

Attach Elev (ft)	Description	Qty	No Ice		Ice		Len (in)	Width (in)	Depth (in)	Ka	Orientation Factor	Vert Ecc (ft)
			Weight (lb)	CaAa (sf)	Weight (lb)	CaAa (sf)						
243.00	MX06FRO660-02	6	60.00	9.870	344.68	11.319	71.300	15.400	10.700	0.80	0.87	0.000
243.00	MT6407-77A	3	87.10	4.690	213.98	5.687	35.100	16.100	5.500	0.80	0.70	0.000
243.00	RFV01U-D1A	3	84.40	1.880	138.24	2.459	15.000	15.000	10.000	0.80	0.50	0.000
243.00	RFV01U-D2A	3	70.30	1.880	121.38	2.459	15.000	15.000	8.100	0.80	0.50	0.000
243.00	RCMDC-6627-PF-48	1	32.00	4.060	151.66	4.923	29.500	16.500	12.600	0.80	0.67	0.000
243.00	(3) VZWSMART-SFK3 (V-Bracing	2	230.00	6.700	567.27	14.069	0.000	0.000	0.000	0.75	0.75	0.000
243.00	JMA 91900314 Bracket	3	16.09	0.000	27.89	0.000	0.000	0.000	0.000	0.75	0.75	0.000
243.00	BXA-80063-6BF	3	14.90	7.570	199.82	8.899	71.000	11.200	5.200	0.80	0.73	0.000
243.00	Sector Frame w/ (3) VZWSMART	3	450.00	15.000	1109.87	27.538	0.000	0.000	0.000	0.75	0.75	0.000
205.00	Sector Frame	3	500.00	17.500	1221.97	31.903	0.000	0.000	0.000	0.75	0.75	0.000
205.00	4449 B5/B12	3	71.00	1.970	126.21	2.536	17.900	13.200	9.400	0.80	0.50	0.000
205.00	CCI DMP65R-BU8DA	6	95.70	17.870	487.36	19.758	96.000	20.700	7.700	0.80	0.73	0.000
205.00	7770.00	3	35.00	5.500	175.89	6.604	55.000	11.000	5.000	0.80	0.73	0.000
205.00	LGP21401	6	14.10	1.290	39.96	2.154	14.400	9.200	2.600	0.80	0.50	0.000
205.00	RRUS 4478 B14	3	59.40	1.650	102.29	2.186	15.000	13.200	7.300	0.80	0.50	0.000
205.00	8843 B2/B66A	3	72.00	1.640	120.45	2.154	14.900	13.200	10.900	0.80	0.50	0.000
205.00	DC6-48-60-18-8F	3	31.80	0.920	95.74	1.373	24.000	11.000	11.000	0.80	0.50	0.000
200.00	10' Omni	1	25.00	3.000	102.88	6.693	120.000	3.000	3.000	1.00	1.00	5.000
200.00	Stand-Off	1	40.00	2.630	122.20	8.741	0.000	0.000	0.000	1.00	1.00	0.000
Totals:		59	6,051.77		17,704.39						Number of Appurtenances :	19

Loading Summary

Structure: CT17474-A-SBA	Code: EIA/TIA-222-G	9/23/2021
Site Name: Thompson	Exposure: C	
Height: 250.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



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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	250.00	Safety Cable	1	0.38	0.27	100.00	2	Individual NR		N	1.00	1.00	
0.00	243.00	1 5/8" Coax	3	1.98	1.04	100.00	2	Individual IR		N	1.00	1.00	
0.00	243.00	1 5/8" Coax	2	1.98	1.04	100.00	3	Individual IR		N	0.50	1.00	
0.00	243.00	1 5/8" Coax	2	1.98	1.04	100.00	2	Individual IR		N	1.00	1.00	
0.00	243.00	1 5/8" Coax	2	1.98	1.04	100.00	1	Individual IR		N	1.00	1.00	
0.00	243.00	1 5/8" Coax	2	1.98	1.04	100.00	1	Individual IR		N	1.00	1.00	
0.00	243.00	1 5/8" Hybrid	2	2.00	1.10	100.00	3	Individual NR		N	1.00	1.00	0
0.00	205.00	1 5/8" Coax	12	1.98	1.04	50.00	3	Block		N	0.50	1.00	
0.00	205.00	2" Conduit	2	2.00	1.61	100.00	3	Individual IR		N	1.00	1.00	
0.00	205.00	3" Flex Conduit	1	3.00	1.78	100.00	3	Individual NR		N	1.00	1.00	
0.00	200.00	1 5/8" Coax	1	1.98	1.04	100.00	1	Individual NR		N	1.00	1.00	

Section Forces

Structure: CT17474-A-SBA
Site Name: Thompson
Height: 250.00 (ft)
Base Elev: 0.000 (ft)
Gh: 0.85

Topography: 1

Code: EIA/TIA-222-G
Exposure: C
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

9/23/2021

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Load Case: 1.2D + 1.6W Normal Wind

1.2D + 1.6W 101 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)	Wind 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)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
												Linear Area (sqft)	Linear Area (sqft)					
1	3.4	18.87	0.880	4.04	0.00	0.42	2.03	1.00	1.00	0.00	3.52	27.85	0.00	510.6	0.0	183.34	494.80	632.74
2	13.4	18.87	0.000	9.03	0.00	0.21	2.56	1.00	1.00	0.00	5.30	54.67	0.00	1,029.8	0.0	348.59	1003.20	1,351.78
3	30.0	21.80	0.000	13.76	0.00	0.21	2.56	1.00	1.00	0.00	8.09	82.52	0.00	1,564.0	0.0	612.91	1749.86	2,362.78
4	50.0	24.28	0.500	13.61	0.00	0.22	2.54	1.00	1.00	0.00	8.51	82.52	0.00	1,575.7	0.0	713.35	1948.54	2,661.89
5	70.0	26.06	0.000	13.76	0.00	0.21	2.56	1.00	1.00	0.00	8.09	82.52	0.00	1,564.0	0.0	732.60	2091.57	2,824.17
6	90.0	27.48	0.000	13.76	0.00	0.21	2.56	1.00	1.00	0.00	8.09	82.52	0.00	1,564.0	0.0	772.41	2205.21	2,977.62
7	110.0	28.66	0.500	13.61	0.00	0.22	2.54	1.00	1.00	0.00	8.51	82.52	0.00	1,575.7	0.0	842.15	2300.37	3,142.52
8	130.0	29.69	0.000	13.76	0.00	0.21	2.56	1.00	1.00	0.00	8.09	82.52	0.00	1,564.0	0.0	834.58	2382.71	3,217.29
9	150.0	30.60	0.000	13.76	0.00	0.21	2.56	1.00	1.00	0.00	8.09	82.52	0.00	1,564.0	0.0	860.10	2455.59	3,315.69
10	170.0	31.41	0.500	13.61	0.00	0.22	2.54	1.00	1.00	0.00	8.51	82.52	0.00	1,575.7	0.0	922.98	2521.15	3,444.13
11	190.0	32.16	0.000	13.76	0.00	0.21	2.56	1.00	1.00	0.00	8.09	82.52	0.00	1,564.0	0.0	903.99	2580.89	3,484.87
12	210.0	32.84	0.000	13.76	0.00	0.21	2.56	1.00	1.00	0.00	8.09	52.50	0.00	1,224.4	0.0	923.24	1525.73	2,448.97
13	228.3	33.43	0.000	11.32	0.00	0.21	2.56	1.00	1.00	0.00	6.65	36.21	0.00	921.5	0.0	773.98	1006.80	1,780.78
14	238.3	33.73	0.000	2.15	0.00	0.20	2.61	1.00	1.00	0.00	1.25	7.39	0.00	175.5	0.0	149.86	207.27	357.13
15	245.0	33.93	1.840	7.42	0.00	0.29	2.33	1.00	1.00	0.00	6.34	6.76	0.00	753.2	0.0	682.98	191.82	874.80
														18,726.3	0.0			34,877.16

Load Case: 1.2D + 1.6W 60° Wind

1.2D + 1.6W 101 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)	Wind 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)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
												Linear Area (sqft)	Linear Area (sqft)					
1	3.4	18.87	0.880	4.04	0.00	0.42	2.03	0.80	1.00	0.00	3.35	27.85	0.00	510.6	0.0	174.18	494.80	668.98
2	13.4	18.87	0.000	9.03	0.00	0.21	2.56	0.80	1.00	0.00	5.30	54.67	0.00	1,029.8	0.0	348.59	1003.20	1,351.78
3	30.0	21.80	0.000	13.76	0.00	0.21	2.56	0.80	1.00	0.00	8.09	82.52	0.00	1,564.0	0.0	612.91	1749.86	2,362.78
4	50.0	24.28	0.500	13.61	0.00	0.22	2.54	0.80	1.00	0.00	8.41	82.52	0.00	1,575.7	0.0	704.97	1948.54	2,653.51
5	70.0	26.06	0.000	13.76	0.00	0.21	2.56	0.80	1.00	0.00	8.09	82.52	0.00	1,564.0	0.0	732.60	2091.57	2,824.17
6	90.0	27.48	0.000	13.76	0.00	0.21	2.56	0.80	1.00	0.00	8.09	82.52	0.00	1,564.0	0.0	772.41	2205.21	2,977.62
7	110.0	28.66	0.500	13.61	0.00	0.22	2.54	0.80	1.00	0.00	8.41	82.52	0.00	1,575.7	0.0	832.26	2300.37	3,132.63
8	130.0	29.69	0.000	13.76	0.00	0.21	2.56	0.80	1.00	0.00	8.09	82.52	0.00	1,564.0	0.0	834.58	2382.71	3,217.29
9	150.0	30.60	0.000	13.76	0.00	0.21	2.56	0.80	1.00	0.00	8.09	82.52	0.00	1,564.0	0.0	860.10	2455.59	3,315.69
10	170.0	31.41	0.500	13.61	0.00	0.22	2.54	0.80	1.00	0.00	8.41	82.52	0.00	1,575.7	0.0	912.14	2521.15	3,433.29
11	190.0	32.16	0.000	13.76	0.00	0.21	2.56	0.80	1.00	0.00	8.09	82.52	0.00	1,564.0	0.0	903.99	2580.89	3,484.87
12	210.0	32.84	0.000	13.76	0.00	0.21	2.56	0.80	1.00	0.00	8.09	52.50	0.00	1,224.4	0.0	923.24	1525.73	2,448.97
13	228.3	33.43	0.000	11.32	0.00	0.21	2.56	0.80	1.00	0.00	6.65	36.21	0.00	921.5	0.0	773.98	1006.80	1,780.78
14	238.3	33.73	0.000	2.15	0.00	0.20	2.61	0.80	1.00	0.00	1.25	7.39	0.00	175.5	0.0	149.86	207.27	357.13
15	245.0	33.93	1.840	7.42	0.00	0.29	2.33	0.80	1.00	0.00	5.97	6.76	0.00	753.2	0.0	643.34	191.82	835.16
														18,726.3	0.0			34,844.65

Section Forces

Structure: CT17474-A-SBA
Site Name: Thompson
Height: 250.00 (ft)
Base Elev: 0.000 (ft)
Gh: 0.85

Topography: 1

Code: EIA/TIA-222-G
Exposure: C
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

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Load Case: 1.2D + 1.6W 90° Wind

1.2D + 1.6W 101 mph Wind at 90° 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)	Wind 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)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	
												Linear Area (sqft)	Linear Area (sqft)						
1	3.4	18.87	0.880	4.04	0.00	0.42	2.03	0.85	1.00	0.00	3.39	27.85	0.00	510.6	0.0	176.47	494.80	671.27	
2	13.4	18.87	0.000	9.03	0.00	0.21	2.56	0.85	1.00	0.00	5.30	54.67	0.00	1,029.8	0.0	348.59	1003.20	1,351.78	
3	30.0	21.80	0.000	13.76	0.00	0.21	2.56	0.85	1.00	0.00	8.09	82.52	0.00	1,564.0	0.0	612.91	1749.86	2,362.78	
4	50.0	24.28	0.500	13.61	0.00	0.22	2.54	0.85	1.00	0.00	8.44	82.52	0.00	1,575.7	0.0	707.06	1948.54	2,655.60	
5	70.0	26.06	0.000	13.76	0.00	0.21	2.56	0.85	1.00	0.00	8.09	82.52	0.00	1,564.0	0.0	732.60	2091.57	2,824.17	
6	90.0	27.48	0.000	13.76	0.00	0.21	2.56	0.85	1.00	0.00	8.09	82.52	0.00	1,564.0	0.0	772.41	2205.21	2,977.62	
7	110.0	28.66	0.500	13.61	0.00	0.22	2.54	0.85	1.00	0.00	8.44	82.52	0.00	1,575.7	0.0	834.73	2300.37	3,135.10	
8	130.0	29.69	0.000	13.76	0.00	0.21	2.56	0.85	1.00	0.00	8.09	82.52	0.00	1,564.0	0.0	834.58	2382.71	3,217.29	
9	150.0	30.60	0.000	13.76	0.00	0.21	2.56	0.85	1.00	0.00	8.09	82.52	0.00	1,564.0	0.0	860.10	2455.59	3,315.69	
10	170.0	31.41	0.500	13.61	0.00	0.22	2.54	0.85	1.00	0.00	8.44	82.52	0.00	1,575.7	0.0	914.85	2521.15	3,436.00	
11	190.0	32.16	0.000	13.76	0.00	0.21	2.56	0.85	1.00	0.00	8.09	82.52	0.00	1,564.0	0.0	903.99	2580.89	3,484.87	
12	210.0	32.84	0.000	13.76	0.00	0.21	2.56	0.85	1.00	0.00	8.09	52.50	0.00	1,224.4	0.0	923.24	1525.73	2,448.97	
13	228.3	33.43	0.000	11.32	0.00	0.21	2.56	0.85	1.00	0.00	6.65	36.21	0.00	921.5	0.0	773.98	1006.80	1,780.78	
14	238.3	33.73	0.000	2.15	0.00	0.20	2.61	0.85	1.00	0.00	1.25	7.39	0.00	175.5	0.0	149.86	207.27	357.13	
15	245.0	33.93	1.840	7.42	0.00	0.29	2.33	0.85	1.00	0.00	6.06	6.76	0.00	753.2	0.0	653.25	191.82	845.07	
														18,726.3	0.0				34,864.13

Load Case: 0.9D + 1.6W Normal Wind

0.9D + 1.6W 101 mph Wind at Normal To 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)	Wind 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)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	
												Linear Area (sqft)	Linear Area (sqft)						
1	3.4	18.87	0.880	4.04	0.00	0.42	2.03	1.00	1.00	0.00	3.52	27.85	0.00	383.0	0.0	183.34	494.80	678.14	
2	13.4	18.87	0.000	9.03	0.00	0.21	2.56	1.00	1.00	0.00	5.30	54.67	0.00	772.3	0.0	348.59	1003.20	1,351.78	
3	30.0	21.80	0.000	13.76	0.00	0.21	2.56	1.00	1.00	0.00	8.09	82.52	0.00	1,173.0	0.0	612.91	1749.86	2,362.78	
4	50.0	24.28	0.500	13.61	0.00	0.22	2.54	1.00	1.00	0.00	8.51	82.52	0.00	1,181.7	0.0	713.35	1948.54	2,661.89	
5	70.0	26.06	0.000	13.76	0.00	0.21	2.56	1.00	1.00	0.00	8.09	82.52	0.00	1,173.0	0.0	732.60	2091.57	2,824.17	
6	90.0	27.48	0.000	13.76	0.00	0.21	2.56	1.00	1.00	0.00	8.09	82.52	0.00	1,173.0	0.0	772.41	2205.21	2,977.62	
7	110.0	28.66	0.500	13.61	0.00	0.22	2.54	1.00	1.00	0.00	8.51	82.52	0.00	1,181.7	0.0	842.15	2300.37	3,142.52	
8	130.0	29.69	0.000	13.76	0.00	0.21	2.56	1.00	1.00	0.00	8.09	82.52	0.00	1,173.0	0.0	834.58	2382.71	3,217.29	
9	150.0	30.60	0.000	13.76	0.00	0.21	2.56	1.00	1.00	0.00	8.09	82.52	0.00	1,173.0	0.0	860.10	2455.59	3,315.69	
10	170.0	31.41	0.500	13.61	0.00	0.22	2.54	1.00	1.00	0.00	8.51	82.52	0.00	1,181.7	0.0	922.98	2521.15	3,444.13	
11	190.0	32.16	0.000	13.76	0.00	0.21	2.56	1.00	1.00	0.00	8.09	82.52	0.00	1,173.0	0.0	903.99	2580.89	3,484.87	
12	210.0	32.84	0.000	13.76	0.00	0.21	2.56	1.00	1.00	0.00	8.09	52.50	0.00	918.3	0.0	923.24	1525.73	2,448.97	
13	228.3	33.43	0.000	11.32	0.00	0.21	2.56	1.00	1.00	0.00	6.65	36.21	0.00	691.1	0.0	773.98	1006.80	1,780.78	
14	238.3	33.73	0.000	2.15	0.00	0.20	2.61	1.00	1.00	0.00	1.25	7.39	0.00	131.6	0.0	149.86	207.27	357.13	
15	245.0	33.93	1.840	7.42	0.00	0.29	2.33	1.00	1.00	0.00	6.34	6.76	0.00	564.9	0.0	682.98	191.82	874.80	
														14,044.8	0.0				34,922.56

Section Forces

Structure: CT17474-A-SBA
Site Name: Thompson
Height: 250.00 (ft)
Base Elev: 0.000 (ft)
Gh: 0.85

Topography: 1

Code: EIA/TIA-222-G
Exposure: C
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

9/23/2021

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Load Case: 0.9D + 1.6W 60° Wind

0.9D + 1.6W 101 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)	Wind 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	3.4	18.87	0.880	4.04	0.00	0.42	2.03	0.80	1.00	0.00	3.35	27.85	0.00	383.0	0.0	174.18	494.80	668.98
2	13.4	18.87	0.000	9.03	0.00	0.21	2.56	0.80	1.00	0.00	5.30	54.67	0.00	772.3	0.0	348.59	1003.20	1,351.78
3	30.0	21.80	0.000	13.76	0.00	0.21	2.56	0.80	1.00	0.00	8.09	82.52	0.00	1,173.0	0.0	612.91	1749.86	2,362.78
4	50.0	24.28	0.500	13.61	0.00	0.22	2.54	0.80	1.00	0.00	8.41	82.52	0.00	1,181.7	0.0	704.97	1948.54	2,653.51
5	70.0	26.06	0.000	13.76	0.00	0.21	2.56	0.80	1.00	0.00	8.09	82.52	0.00	1,173.0	0.0	732.60	2091.57	2,824.17
6	90.0	27.48	0.000	13.76	0.00	0.21	2.56	0.80	1.00	0.00	8.09	82.52	0.00	1,173.0	0.0	772.41	2205.21	2,977.62
7	110.0	28.66	0.500	13.61	0.00	0.22	2.54	0.80	1.00	0.00	8.41	82.52	0.00	1,181.7	0.0	832.26	2300.37	3,132.63
8	130.0	29.69	0.000	13.76	0.00	0.21	2.56	0.80	1.00	0.00	8.09	82.52	0.00	1,173.0	0.0	834.58	2382.71	3,217.29
9	150.0	30.60	0.000	13.76	0.00	0.21	2.56	0.80	1.00	0.00	8.09	82.52	0.00	1,173.0	0.0	860.10	2455.59	3,315.69
10	170.0	31.41	0.500	13.61	0.00	0.22	2.54	0.80	1.00	0.00	8.41	82.52	0.00	1,181.7	0.0	912.14	2521.15	3,433.29
11	190.0	32.16	0.000	13.76	0.00	0.21	2.56	0.80	1.00	0.00	8.09	82.52	0.00	1,173.0	0.0	903.99	2580.89	3,484.87
12	210.0	32.84	0.000	13.76	0.00	0.21	2.56	0.80	1.00	0.00	8.09	52.50	0.00	918.3	0.0	923.24	1525.73	2,448.97
13	228.3	33.43	0.000	11.32	0.00	0.21	2.56	0.80	1.00	0.00	6.65	36.21	0.00	691.1	0.0	773.98	1006.80	1,780.78
14	238.3	33.73	0.000	2.15	0.00	0.20	2.61	0.80	1.00	0.00	1.25	7.39	0.00	131.6	0.0	149.86	207.27	357.13
15	245.0	33.93	1.840	7.42	0.00	0.29	2.33	0.80	1.00	0.00	5.97	6.76	0.00	564.9	0.0	643.34	191.82	835.16
														14,044.8	0.0			34,844.65

Load Case: 0.9D + 1.6W 90° Wind

0.9D + 1.6W 101 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)	Wind 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	3.4	18.87	0.880	4.04	0.00	0.42	2.03	0.85	1.00	0.00	3.39	27.85	0.00	383.0	0.0	176.47	494.80	671.27
2	13.4	18.87	0.000	9.03	0.00	0.21	2.56	0.85	1.00	0.00	5.30	54.67	0.00	772.3	0.0	348.59	1003.20	1,351.78
3	30.0	21.80	0.000	13.76	0.00	0.21	2.56	0.85	1.00	0.00	8.09	82.52	0.00	1,173.0	0.0	612.91	1749.86	2,362.78
4	50.0	24.28	0.500	13.61	0.00	0.22	2.54	0.85	1.00	0.00	8.44	82.52	0.00	1,181.7	0.0	707.06	1948.54	2,655.60
5	70.0	26.06	0.000	13.76	0.00	0.21	2.56	0.85	1.00	0.00	8.09	82.52	0.00	1,173.0	0.0	732.60	2091.57	2,824.17
6	90.0	27.48	0.000	13.76	0.00	0.21	2.56	0.85	1.00	0.00	8.09	82.52	0.00	1,173.0	0.0	772.41	2205.21	2,977.62
7	110.0	28.66	0.500	13.61	0.00	0.22	2.54	0.85	1.00	0.00	8.44	82.52	0.00	1,181.7	0.0	834.73	2300.37	3,135.10
8	130.0	29.69	0.000	13.76	0.00	0.21	2.56	0.85	1.00	0.00	8.09	82.52	0.00	1,173.0	0.0	834.58	2382.71	3,217.29
9	150.0	30.60	0.000	13.76	0.00	0.21	2.56	0.85	1.00	0.00	8.09	82.52	0.00	1,173.0	0.0	860.10	2455.59	3,315.69
10	170.0	31.41	0.500	13.61	0.00	0.22	2.54	0.85	1.00	0.00	8.44	82.52	0.00	1,181.7	0.0	914.85	2521.15	3,436.00
11	190.0	32.16	0.000	13.76	0.00	0.21	2.56	0.85	1.00	0.00	8.09	82.52	0.00	1,173.0	0.0	903.99	2580.89	3,484.87
12	210.0	32.84	0.000	13.76	0.00	0.21	2.56	0.85	1.00	0.00	8.09	52.50	0.00	918.3	0.0	923.24	1525.73	2,448.97
13	228.3	33.43	0.000	11.32	0.00	0.21	2.56	0.85	1.00	0.00	6.65	36.21	0.00	691.1	0.0	773.98	1006.80	1,780.78
14	238.3	33.73	0.000	2.15	0.00	0.20	2.61	0.85	1.00	0.00	1.25	7.39	0.00	131.6	0.0	149.86	207.27	357.13
15	245.0	33.93	1.840	7.42	0.00	0.29	2.33	0.85	1.00	0.00	6.06	6.76	0.00	564.9	0.0	653.25	191.82	845.07
														14,044.8	0.0			34,864.13

Section Forces

Structure: CT17474-A-SBA	Code: EIA/TIA-222-G	9/23/2021
Site Name: Thompson	Exposure: C	
Height: 250.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



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

Sect Seq	Wind Height (ft)	Wind qz (psf)	Total Area		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice Area		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	3.4	4.62	0.880	10.44	6.39	0.86	1.88	1.00	1.00	1.19	10.71	33.29	17.46	1,608.1	1097.5	79.08	32.50	111.59
2	13.4	4.62	0.000	25.96	16.93	0.57	1.83	1.00	1.00	1.37	18.87	66.51	39.34	3,551.6	2521.9	135.73	216.01	351.74
3	30.0	5.34	0.000	42.13	28.37	0.60	1.80	1.00	1.00	1.49	31.64	101.55	64.38	5,808.7	4244.7	258.90	355.34	614.24
4	50.0	5.95	0.500	43.47	29.86	0.63	1.79	1.00	1.00	1.56	33.81	129.84	26.06	6,126.3	4550.7	306.00	378.79	684.79
5	70.0	6.39	0.000	44.64	30.88	0.64	1.79	1.00	1.00	1.62	34.45	131.09	26.95	6,299.8	4735.7	334.00	402.99	736.99
6	90.0	6.73	0.000	45.42	31.66	0.65	1.78	1.00	1.00	1.66	35.35	132.05	27.64	6,458.5	4894.4	360.72	417.26	777.98
7	110.0	7.02	0.500	45.92	32.31	0.66	1.78	1.00	1.00	1.69	36.64	132.84	28.20	6,619.8	5044.1	389.21	422.39	811.60
8	130.0	7.28	0.000	46.61	32.85	0.66	1.78	1.00	1.00	1.72	36.74	133.50	28.67	6,702.4	5138.3	404.21	438.06	842.27
9	150.0	7.50	0.000	47.08	33.32	0.67	1.78	1.00	1.00	1.75	37.31	134.08	29.09	6,801.2	5237.2	422.70	446.07	868.77
10	170.0	7.70	0.500	47.36	33.74	0.68	1.78	1.00	1.00	1.77	38.35	134.59	29.45	6,919.9	5344.2	445.82	446.08	891.90
11	190.0	7.88	0.000	47.88	34.12	0.68	1.78	1.00	1.00	1.79	38.26	135.05	29.78	6,969.6	5405.5	455.36	459.14	914.49
12	210.0	8.05	0.000	48.22	34.46	0.68	1.78	1.00	1.00	1.80	38.68	95.17	19.55	5,553.4	4328.9	470.03	309.72	779.74
13	228.3	8.19	0.000	39.49	28.17	0.67	1.78	1.00	1.00	1.82	31.39	69.01	15.12	4,247.5	3326.0	388.46	232.94	621.39
14	238.3	8.27	0.000	6.94	4.79	0.58	1.82	1.00	1.00	1.83	5.08	14.10	3.10	804.9	629.4	65.00	61.61	126.61
15	245.0	8.31	1.840	25.34	17.92	0.77	1.80	1.00	1.00	1.83	23.76	12.71	4.89	2,257.3	1504.1	301.46	35.10	336.57
														76,728.8	58002.4			9,470.68

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

Sect Seq	Wind Height (ft)	Wind qz (psf)	Total Area		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice Area		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	3.4	4.62	0.880	10.44	6.39	0.86	1.88	0.80	1.00	1.19	10.54	33.29	17.46	1,608.1	1097.5	77.78	32.50	110.29
2	13.4	4.62	0.000	25.96	16.93	0.57	1.83	0.80	1.00	1.37	18.87	66.51	39.34	3,551.6	2521.9	135.73	216.01	351.74
3	30.0	5.34	0.000	42.13	28.37	0.60	1.80	0.80	1.00	1.49	31.64	101.55	64.38	5,808.7	4244.7	258.90	355.34	614.24
4	50.0	5.95	0.500	43.47	29.86	0.63	1.79	0.80	1.00	1.56	33.71	129.84	26.06	6,126.3	4550.7	305.10	378.79	683.89
5	70.0	6.39	0.000	44.64	30.88	0.64	1.79	0.80	1.00	1.62	34.45	131.09	26.95	6,299.8	4735.7	334.00	402.99	736.99
6	90.0	6.73	0.000	45.42	31.66	0.65	1.78	0.80	1.00	1.66	35.35	132.05	27.64	6,458.5	4894.4	360.72	417.26	777.98
7	110.0	7.02	0.500	45.92	32.31	0.66	1.78	0.80	1.00	1.69	36.54	132.84	28.20	6,619.8	5044.1	388.15	422.39	810.54
8	130.0	7.28	0.000	46.61	32.85	0.66	1.78	0.80	1.00	1.72	36.74	133.50	28.67	6,702.4	5138.3	404.21	438.06	842.27
9	150.0	7.50	0.000	47.08	33.32	0.67	1.78	0.80	1.00	1.75	37.31	134.08	29.09	6,801.2	5237.2	422.70	446.07	868.77
10	170.0	7.70	0.500	47.36	33.74	0.68	1.78	0.80	1.00	1.77	38.25	134.59	29.45	6,919.9	5344.2	444.66	446.08	890.74
11	190.0	7.88	0.000	47.88	34.12	0.68	1.78	0.80	1.00	1.79	38.26	135.05	29.78	6,969.6	5405.5	455.36	459.14	914.49
12	210.0	8.05	0.000	48.22	34.46	0.68	1.78	0.80	1.00	1.80	38.68	95.17	19.55	5,553.4	4328.9	470.03	309.72	779.74
13	228.3	8.19	0.000	39.49	28.17	0.67	1.78	0.80	1.00	1.82	31.39	69.01	15.12	4,247.5	3326.0	388.46	232.94	621.39
14	238.3	8.27	0.000	6.94	4.79	0.58	1.82	0.80	1.00	1.83	5.08	14.10	3.10	804.9	629.4	65.00	61.61	126.61
15	245.0	8.31	1.840	25.34	17.92	0.77	1.80	0.80	1.00	1.83	23.39	12.71	4.89	2,257.3	1504.1	296.79	35.10	331.90
														76,728.8	58002.4			9,461.58

Section Forces

Structure: CT17474-A-SBA
Site Name: Thompson
Height: 250.00 (ft)
Base Elev: 0.000 (ft)
Gh: 0.85

Topography: 1

Code: EIA/TIA-222-G
Exposure: C
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

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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

Wind Importance Factor: 1.00

Dead Load Factor: 1.20

Ice Dead Load Factor: 1.00

Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	Wind qz (psf)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	3.4	4.62	0.880	10.44	6.39	0.86	1.88	0.85	1.00	1.19	10.58	33.29	17.46	1,608.1	1097.5	78.11	32.50	110.61
2	13.4	4.62	0.000	25.96	16.93	0.57	1.83	0.85	1.00	1.37	18.87	66.51	39.34	3,551.6	2521.9	135.73	216.01	351.74
3	30.0	5.34	0.000	42.13	28.37	0.60	1.80	0.85	1.00	1.49	31.64	101.55	64.38	5,808.7	4244.7	258.90	355.34	614.24
4	50.0	5.95	0.500	43.47	29.86	0.63	1.79	0.85	1.00	1.56	33.74	129.84	26.06	6,126.3	4550.7	305.32	378.79	684.11
5	70.0	6.39	0.000	44.64	30.88	0.64	1.79	0.85	1.00	1.62	34.45	131.09	26.95	6,299.8	4735.7	334.00	402.99	736.99
6	90.0	6.73	0.000	45.42	31.66	0.65	1.78	0.85	1.00	1.66	35.35	132.05	27.64	6,458.5	4894.4	360.72	417.26	777.98
7	110.0	7.02	0.500	45.92	32.31	0.66	1.78	0.85	1.00	1.69	36.56	132.84	28.20	6,619.8	5044.1	388.42	422.39	810.80
8	130.0	7.28	0.000	46.61	32.85	0.66	1.78	0.85	1.00	1.72	36.74	133.50	28.67	6,702.4	5138.3	404.21	438.06	842.27
9	150.0	7.50	0.000	47.08	33.32	0.67	1.78	0.85	1.00	1.75	37.31	134.08	29.09	6,801.2	5237.2	422.70	446.07	868.77
10	170.0	7.70	0.500	47.36	33.74	0.68	1.78	0.85	1.00	1.77	38.28	134.59	29.45	6,919.9	5344.2	444.95	446.08	891.03
11	190.0	7.88	0.000	47.88	34.12	0.68	1.78	0.85	1.00	1.79	38.26	135.05	29.78	6,969.6	5405.5	455.36	459.14	914.49
12	210.0	8.05	0.000	48.22	34.46	0.68	1.78	0.85	1.00	1.80	38.68	95.17	19.55	5,553.4	4328.9	470.03	309.72	779.74
13	228.3	8.19	0.000	39.49	28.17	0.67	1.78	0.85	1.00	1.82	31.39	69.01	15.12	4,247.5	3326.0	388.46	232.94	621.39
14	238.3	8.27	0.000	6.94	4.79	0.58	1.82	0.85	1.00	1.83	5.08	14.10	3.10	804.9	629.4	65.00	61.61	126.61
15	245.0	8.31	1.840	25.34	17.92	0.77	1.80	0.85	1.00	1.83	23.49	12.71	4.89	2,257.3	1504.1	297.96	35.10	333.06
														76,728.8	58002.4			9,463.85

Load Case: 1.0D + 1.0W Normal Wind

1.0D + 1.0W 60 mph Wind at Normal To 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)	Wind qz (psf)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	3.4	6.66	0.880	4.04	0.00	0.42	2.03	1.00	1.00	0.00	3.52	27.85	0.00	425.5	0.0	40.44	109.14	149.57
2	13.4	6.66	0.000	9.03	0.00	0.21	2.56	1.00	1.00	0.00	5.30	54.67	0.00	858.1	0.0	76.89	221.27	298.16
3	30.0	7.69	0.000	13.76	0.00	0.21	2.56	1.00	1.00	0.00	8.09	82.52	0.00	1,303.4	0.0	135.19	385.96	521.15
4	50.0	8.57	0.500	13.61	0.00	0.22	2.54	1.00	1.00	0.00	8.51	82.52	0.00	1,313.1	0.0	157.34	429.78	587.12
5	70.0	9.20	0.000	13.76	0.00	0.21	2.56	1.00	1.00	0.00	8.09	82.52	0.00	1,303.4	0.0	161.59	461.33	622.92
6	90.0	9.70	0.000	13.76	0.00	0.21	2.56	1.00	1.00	0.00	8.09	82.52	0.00	1,303.4	0.0	170.37	486.40	656.76
7	110.0	10.12	0.500	13.61	0.00	0.22	2.54	1.00	1.00	0.00	8.51	82.52	0.00	1,313.1	0.0	185.75	507.39	693.14
8	130.0	10.48	0.000	13.76	0.00	0.21	2.56	1.00	1.00	0.00	8.09	82.52	0.00	1,303.4	0.0	184.08	525.55	709.63
9	150.0	10.80	0.000	13.76	0.00	0.21	2.56	1.00	1.00	0.00	8.09	82.52	0.00	1,303.4	0.0	189.71	541.62	731.33
10	170.0	11.09	0.500	13.61	0.00	0.22	2.54	1.00	1.00	0.00	8.51	82.52	0.00	1,313.1	0.0	203.58	556.08	759.66
11	190.0	11.35	0.000	13.76	0.00	0.21	2.56	1.00	1.00	0.00	8.09	82.52	0.00	1,303.4	0.0	199.39	569.26	768.65
12	210.0	11.59	0.000	13.76	0.00	0.21	2.56	1.00	1.00	0.00	8.09	52.50	0.00	1,020.4	0.0	203.64	336.53	540.16
13	228.3	11.80	0.000	11.32	0.00	0.21	2.56	1.00	1.00	0.00	6.65	36.21	0.00	767.9	0.0	170.71	222.07	392.78
14	238.3	11.90	0.000	2.15	0.00	0.20	2.61	1.00	1.00	0.00	1.25	7.39	0.00	146.3	0.0	33.05	45.72	78.77
15	245.0	11.97	1.840	7.42	0.00	0.29	2.33	1.00	1.00	0.00	6.34	6.76	0.00	627.7	0.0	150.64	42.31	192.95
														15,605.3	0.0			7,702.75

Section Forces

Structure: CT17474-A-SBA
Site Name: Thompson
Height: 250.00 (ft)
Base Elev: 0.000 (ft)
Gh: 0.85

Topography: 1

Code: EIA/TIA-222-G
Exposure: C
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

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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)	Wind 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	3.4	6.66	0.880	4.04	0.00	0.42	2.03	0.80	1.00	0.00	3.35	27.85	0.00	425.5	0.0	38.42	109.14	147.55	
2	13.4	6.66	0.000	9.03	0.00	0.21	2.56	0.80	1.00	0.00	5.30	54.67	0.00	858.1	0.0	76.89	221.27	298.16	
3	30.0	7.69	0.000	13.76	0.00	0.21	2.56	0.80	1.00	0.00	8.09	82.52	0.00	1,303.4	0.0	135.19	385.96	521.15	
4	50.0	8.57	0.500	13.61	0.00	0.22	2.54	0.80	1.00	0.00	8.41	82.52	0.00	1,313.1	0.0	155.49	429.78	585.27	
5	70.0	9.20	0.000	13.76	0.00	0.21	2.56	0.80	1.00	0.00	8.09	82.52	0.00	1,303.4	0.0	161.59	461.33	622.92	
6	90.0	9.70	0.000	13.76	0.00	0.21	2.56	0.80	1.00	0.00	8.09	82.52	0.00	1,303.4	0.0	170.37	486.40	656.76	
7	110.0	10.12	0.500	13.61	0.00	0.22	2.54	0.80	1.00	0.00	8.41	82.52	0.00	1,313.1	0.0	183.57	507.39	690.95	
8	130.0	10.48	0.000	13.76	0.00	0.21	2.56	0.80	1.00	0.00	8.09	82.52	0.00	1,303.4	0.0	184.08	525.55	709.63	
9	150.0	10.80	0.000	13.76	0.00	0.21	2.56	0.80	1.00	0.00	8.09	82.52	0.00	1,303.4	0.0	189.71	541.62	731.33	
10	170.0	11.09	0.500	13.61	0.00	0.22	2.54	0.80	1.00	0.00	8.41	82.52	0.00	1,313.1	0.0	201.19	556.08	757.27	
11	190.0	11.35	0.000	13.76	0.00	0.21	2.56	0.80	1.00	0.00	8.09	82.52	0.00	1,303.4	0.0	199.39	569.26	768.65	
12	210.0	11.59	0.000	13.76	0.00	0.21	2.56	0.80	1.00	0.00	8.09	52.50	0.00	1,020.4	0.0	203.64	336.53	540.16	
13	228.3	11.80	0.000	11.32	0.00	0.21	2.56	0.80	1.00	0.00	6.65	36.21	0.00	767.9	0.0	170.71	222.07	392.78	
14	238.3	11.90	0.000	2.15	0.00	0.20	2.61	0.80	1.00	0.00	1.25	7.39	0.00	146.3	0.0	33.05	45.72	78.77	
15	245.0	11.97	1.840	7.42	0.00	0.29	2.33	0.80	1.00	0.00	5.97	6.76	0.00	627.7	0.0	141.90	42.31	184.21	
														15,605.3	0.0				7,685.57

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)	Wind 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	3.4	6.66	0.880	4.04	0.00	0.42	2.03	0.85	1.00	0.00	3.39	27.85	0.00	425.5	0.0	38.92	109.14	148.06	
2	13.4	6.66	0.000	9.03	0.00	0.21	2.56	0.85	1.00	0.00	5.30	54.67	0.00	858.1	0.0	76.89	221.27	298.16	
3	30.0	7.69	0.000	13.76	0.00	0.21	2.56	0.85	1.00	0.00	8.09	82.52	0.00	1,303.4	0.0	135.19	385.96	521.15	
4	50.0	8.57	0.500	13.61	0.00	0.22	2.54	0.85	1.00	0.00	8.44	82.52	0.00	1,313.1	0.0	155.95	429.78	585.74	
5	70.0	9.20	0.000	13.76	0.00	0.21	2.56	0.85	1.00	0.00	8.09	82.52	0.00	1,303.4	0.0	161.59	461.33	622.92	
6	90.0	9.70	0.000	13.76	0.00	0.21	2.56	0.85	1.00	0.00	8.09	82.52	0.00	1,303.4	0.0	170.37	486.40	656.76	
7	110.0	10.12	0.500	13.61	0.00	0.22	2.54	0.85	1.00	0.00	8.44	82.52	0.00	1,313.1	0.0	184.11	507.39	691.50	
8	130.0	10.48	0.000	13.76	0.00	0.21	2.56	0.85	1.00	0.00	8.09	82.52	0.00	1,303.4	0.0	184.08	525.55	709.63	
9	150.0	10.80	0.000	13.76	0.00	0.21	2.56	0.85	1.00	0.00	8.09	82.52	0.00	1,303.4	0.0	189.71	541.62	731.33	
10	170.0	11.09	0.500	13.61	0.00	0.22	2.54	0.85	1.00	0.00	8.44	82.52	0.00	1,313.1	0.0	201.78	556.08	757.87	
11	190.0	11.35	0.000	13.76	0.00	0.21	2.56	0.85	1.00	0.00	8.09	82.52	0.00	1,303.4	0.0	199.39	569.26	768.65	
12	210.0	11.59	0.000	13.76	0.00	0.21	2.56	0.85	1.00	0.00	8.09	52.50	0.00	1,020.4	0.0	203.64	336.53	540.16	
13	228.3	11.80	0.000	11.32	0.00	0.21	2.56	0.85	1.00	0.00	6.65	36.21	0.00	767.9	0.0	170.71	222.07	392.78	
14	238.3	11.90	0.000	2.15	0.00	0.20	2.61	0.85	1.00	0.00	1.25	7.39	0.00	146.3	0.0	33.05	45.72	78.77	
15	245.0	11.97	1.840	7.42	0.00	0.29	2.33	0.85	1.00	0.00	6.06	6.76	0.00	627.7	0.0	144.08	42.31	186.39	
														15,605.3	0.0				7,689.86

Force/Stress Compression Summary

Structure: CT17474-A-SBA	Code: EIA/TIA-222-G	9/23/2021
Site Name: Thompson	Exposure: C	
Height: 250.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



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LEG MEMBERS

Sect	Top Elev	Member	Force (kips)		Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Leg Use %	Controls	
							X	Y	Z					
1	6.75	PST - 2-1/2" DIA PIPE	-60.53	1.2D + 1.0Di + 1.0Wi	60° Wind	2.32	100	100	100	29.43	50.00	71.97	84.1	Member X
2	20	PST - 2-1/2" DIA PIPE	-55.94	1.2D + 1.0Di + 1.0Wi	60° Wind	3.29	100	100	100	41.71	50.00	67.52	82.8	Member X
3	40	PST - 2-1/2" DIA PIPE	-57.77	1.2D + 1.0Di + 1.0Wi	60° Wind	3.31	100	100	100	41.89	50.00	67.45	85.7	Member X
4	60	PST - 2-1/2" DIA PIPE	-55.64	1.2D + 1.0Di + 1.0Wi	60° Wind	3.31	100	100	100	41.89	50.00	67.45	82.5	Member X
5	80	PST - 2-1/2" DIA PIPE	-47.69	1.2D + 1.0Di + 1.0Wi	60° Wind	3.31	100	100	100	41.89	50.00	67.45	70.7	Member X
6	100	PST - 2-1/2" DIA PIPE	-45.44	1.2D + 1.0Di + 1.0Wi	60° Wind	3.31	100	100	100	41.89	50.00	67.45	67.4	Member X
7	120	PST - 2-1/2" DIA PIPE	-63.12	1.2D + 1.6W	Normal Wind	3.31	100	100	100	41.89	50.00	67.45	93.6	Member X
8	140	PST - 2-1/2" DIA PIPE	-71.42	1.2D + 1.6W	Normal Wind	0.08	100	100	100	1.05	50.00	76.67	93.1	Member X
9	160	PST - 2-1/2" DIA PIPE	-33.34	1.2D + 1.0Di + 1.0Wi	Normal	3.31	100	100	100	41.89	50.00	67.45	49.4	Member X
10	180	PST - 2-1/2" DIA PIPE	-33.38	1.2D + 1.6W	90° Wind	3.31	100	100	100	41.89	50.00	67.45	49.5	Member X
11	200	PST - 2-1/2" DIA PIPE	-55.40	1.2D + 1.6W	60° Wind	3.31	100	100	100	41.89	50.00	67.45	82.1	Member X
12	220	PST - 2-1/2" DIA PIPE	-63.53	1.2D + 1.6W	60° Wind	3.31	100	100	100	41.89	50.00	67.45	94.2	Member X
13	236.6	PST - 2-1/2" DIA PIPE	-50.96	1.2D + 1.6W	60° Wind	3.31	100	100	100	41.89	50.00	67.45	75.6	Member X
14	240	PST - 2-1/2" DIA PIPE	-9.30	1.2D + 1.6W	Normal Wind	0.08	100	100	100	1.05	50.00	76.67	12.1	Member X
15	250	PST - 2-1/2" DIA PIPE	-9.27	1.2D + 1.6W	Normal Wind	0.08	100	100	100	1.05	50.00	76.67	12.1	Member X

HORIZONTAL MEMBERS

Sect	Top Elev	Member	Force (kips)		Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Bear		Use %	Controls
							X	Y	Z					Cap (kips)	Cap (kips)		
1	6.75									0.00	0	0					
2	20									0.00	0	0					
3	40									0.00	0	0					
4	60									0.00	0	0					
5	80									0.00	0	0					
6	100									0.00	0	0					
7	120									0.00	0	0					
8	140									0.00	0	0					
9	160									0.00	0	0					
10	180									0.00	0	0					
11	200	SOL - 5/8" SOLID	-1.01	0.9D + 1.6W	60° Wind	3.00	100	100	100	161.54	36.00	2.66	0	0		38	Member X
12	220	SOL - 5/8" SOLID	-2.13	0.9D + 1.6W	60° Wind	3.00	100	100	100	161.54	36.00	2.66	0	0		80	Member X
13	236	SOL - 5/8" SOLID	-0.89	0.9D + 1.6W	60° Wind	3.00	100	100	100	161.54	36.00	2.66	0	0		33	Member X
14	240									0.00	0	0					
15	250	SAU - 2X1.5X0.1875	-1.88	0.9D + 1.6W	Normal Wind	3.00	100	100	100	78.26	36.00	14.55	0	0		13	Member Z

DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)		Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Bear		Use %	Controls
							X	Y	Z					Cap (kips)	Cap (kips)		
1	6.75	SOL - 3/4" SOLID	-7.50	1.2D + 1.0Di + 1.0Wi	Normal	2.72	50	50	50	78.32	36.00	10.36	0	0		72	Member X
2	20	SOL - 3/4" SOLID	-4.72	1.2D + 1.0Di + 1.0Wi	60° Wind	4.45	50	50	50	128.27	36.00	6.02	0	0		78	Member X
3	40	SOL - 3/4" SOLID	-4.63	1.2D + 1.0Di + 1.0Wi	90° Wind	4.46	50	50	50	128.56	36.00	6.00	0	0		77	Member X
4	60	SOL - 3/4" SOLID	-4.49	1.2D + 1.0Di + 1.0Wi	90° Wind	4.46	50	50	50	128.56	36.00	6.00	0	0		75	Member X
5	80	SOL - 3/4" SOLID	-3.98	1.2D + 1.0Di + 1.0Wi	60° Wind	4.46	50	50	50	128.56	36.00	6.00	0	0		66	Member X
6	100	SOL - 3/4" SOLID	-4.03	1.2D + 1.6W	Normal Wind	4.46	50	50	50	128.56	36.00	6.00	0	0		67	Member X
7	120	SOL - 3/4" SOLID	-5.73	1.2D + 1.6W	Normal Wind	4.46	50	50	50	128.56	36.00	6.00	0	0		95	Member X
8	140	SOL - 3/4" SOLID	-5.77	1.2D + 1.6W	Normal Wind	4.46	50	50	50	128.56	36.00	6.00	0	0		96	Member X
9	160	SOL - 3/4" SOLID	-3.65	1.2D + 1.6W	Normal Wind	4.46	50	50	50	128.56	36.00	6.00	0	0		61	Member X
10	180	SOL - 3/4" SOLID	-2.81	1.2D + 1.6W	Normal Wind	4.46	50	50	50	128.56	36.00	6.00	0	0		47	Member X
11	200	SOL - 3/4" SOLID	-4.76	1.2D + 1.6W	90° Wind	4.46	50	50	50	128.56	36.00	6.00	0	0		79	Member X

Force/Stress Compression Summary

Structure: CT17474-A-SBA	Code: EIA/TIA-222-G	9/23/2021
Site Name: Thompson	Exposure: C	
Height: 250.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



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DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Bear		Controls
						X	Y	Z					KL/R	Cap (kips)	
12	220	SOL - 3/4" SOLID	-4.15	1.2D + 1.6W 60° Wind	4.46	50	50	50	128.56	36.00	6.00	0	0	69	Member X
13	236	SOL - 3/4" SOLID	-3.90	1.2D + 1.6W 60° Wind	4.46	50	50	50	128.56	36.00	6.00	0	0	65	Member X
14	240	SOL - 3/4" SOLID	-5.42	1.2D + 1.6W 60° Wind	4.46	50	50	50	128.57	36.00	6.00	0	0	90	Member X
15	250	SOL - 1 1/4" SOLID	-2.63	1.2D + 1.6W 90° Wind	4.44	50	50	50	76.78	36.00	29.15	0	0	9	Member X

Force/Stress Tension Summary

Structure: CT17474-A-SBA

Code: EIA/TIA-222-G

9/23/2021

Site Name: Thompson

Exposure: C

Height: 250.00 (ft)

Crest Height: 0.00

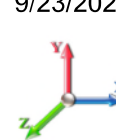
Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 0.85

Topography: 1

Struct Class: II



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LEG MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Leg Use %	Controls
1	6.75				0	0.00		
2	20				0	0.00		
3	40	PST - 2-1/2" DIA PIPE	0.78	0.9D + 1.6W Normal Wind	50	76.68	1.0	Member
4	60				0	0.00		
5	80				0	0.00		
6	100				0	0.00		
7	120	PST - 2-1/2" DIA PIPE	23.30	0.9D + 1.6W 60° Wind	50	76.68	30.4	Member
8	140	PST - 2-1/2" DIA PIPE	23.34	0.9D + 1.6W 60° Wind	50	76.68	30.4	Member
9	160				0	0.00		
10	180				0	0.00		
11	200	PST - 2-1/2" DIA PIPE	38.86	0.9D + 1.6W Normal Wind	50	76.68	50.7	Member
12	220	PST - 2-1/2" DIA PIPE	43.94	0.9D + 1.6W Normal Wind	50	76.68	57.3	Member
13	236.61	PST - 2-1/2" DIA PIPE	29.54	0.9D + 1.6W Normal Wind	50	76.68	38.5	Member
14	240	PST - 2-1/2" DIA PIPE	6.54	0.9D + 1.6W 60° Wind	50	76.68	8.5	Member
15	250	PST - 2-1/2" DIA PIPE	6.56	0.9D + 1.6W 60° Wind	50	76.68	8.6	Member

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	6.75	PLT - 2"X1/4	12.16	1.2D + 1.0Di + 1.0Wi Nc	36	16.20	0	0				75.1	Member
2	20	SOL - 5/8" SOLID	5.68	1.2D + 1.0Di + 1.0Wi Nc	36	9.94	0	0				57.1	Member
3	40	SOL - 5/8" SOLID	5.72	1.2D + 1.0Di + 1.0Wi Nc	36	9.94	0	0				57.5	Member
4	60	SOL - 5/8" SOLID	5.58	1.2D + 1.0Di + 1.0Wi Nc	36	9.94	0	0				56.2	Member
5	80	SOL - 5/8" SOLID	4.93	1.2D + 1.0Di + 1.0Wi Nc	36	9.94	0	0				49.6	Member
6	100	SOL - 5/8" SOLID	4.80	1.2D + 1.0Di + 1.0Wi Nc	36	9.94	0	0				48.3	Member
7	120	SOL - 5/8" SOLID	4.59	1.2D + 1.0Di + 1.0Wi 6C	36	9.94	0	0				46.2	Member
8	140	SOL - 5/8" SOLID	4.14	1.2D + 1.6W 60° Wind	36	9.94	0	0				41.6	Member
9	160	SOL - 5/8" SOLID	3.60	1.2D + 1.0Di + 1.0Wi Nc	36	9.94	0	0				36.2	Member
10	180	SOL - 5/8" SOLID	3.60	1.2D + 1.6W Normal Wi	36	9.94	0	0				36.2	Member
11	200	SOL - 5/8" SOLID	4.16	1.2D + 1.6W Normal Wi	36	9.94	0	0				41.9	Member
12	220	SOL - 5/8" SOLID	5.32	1.2D + 1.6W Normal Wi	36	9.94	0	0				53.5	Member
13	236.61	SOL - 5/8" SOLID	3.48	1.2D + 1.6W Normal Wi	36	9.94	0	0				35.0	Member
14	240	SAU - 2X1.5X0.1875			36	0.00	0	0					
15	250	SAU - 2X1.5X0.1875	4.32	1.2D + 1.6W 60° Wind	36	20.09	0	0				21.5	Member

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	6.75	SOL - 3/4" SOLID	0.00		36	0.00	0	0					
2	20	SOL - 3/4" SOLID	0.00		36	0.00	0	0					
3	40	SOL - 3/4" SOLID	0.00		36	0.00	0	0					
4	60	SOL - 3/4" SOLID	0.00		36	0.00	0	0					
5	80	SOL - 3/4" SOLID	0.00		36	0.00	0	0					
6	100	SOL - 3/4" SOLID	0.00		36	0.00	0	0					
7	120	SOL - 3/4" SOLID	1.46	0.9D + 1.6W 60° Wind	36	14.31	0	0				10.2	Member
8	140	SOL - 3/4" SOLID	2.18	0.9D + 1.6W 60° Wind	36	14.31	0	0				15.2	Member
9	160	SOL - 3/4" SOLID	0.12	0.9D + 1.6W 90° Wind	36	14.31	0	0				0.8	Member
10	180	SOL - 3/4" SOLID	0.00		36	0.00	0	0					
11	200	SOL - 3/4" SOLID	3.45	0.9D + 1.6W 90° Wind	36	14.31	0	0				24.1	Member
12	220	SOL - 3/4" SOLID	1.68	0.9D + 1.6W 90° Wind	36	14.31	0	0				11.7	Member

Force/Stress Tension Summary

Structure: CT17474-A-SBA	Code: EIA/TIA-222-G	9/23/2021
Site Name: Thompson	Exposure: C	
Height: 250.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



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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
13	236.61	SOL - 3/4" SOLID	1.78	0.9D + 1.6W 90° Wind	36	14.31	0	0				12.4	Member
14	240	SOL - 3/4" SOLID	4.65	0.9D + 1.6W 90° Wind	36	14.31	0	0				32.5	Member
15	250	SOL - 1 1/4" SOLID	2.63	0.9D + 1.6W 90° Wind	36	39.76	0	0				6.6	Member

Seismic Section Forces

Structure: CT17474-A-SBA	Code: EIA/TIA-222-G	9/23/2021
Site Name: Thompson	Exposure: C	
Height: 250.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0E

Dead Load Factor	1.20	Sds 0.183	Ss 0.1720	Fa 1.6000	Ke 1.0000
Seismic Load Factor	1.00	Sd1 0.100	S1 0.0630	Fv 2.4000	Kg 0.0047
Seismic Importance Factor	1.00	SA 0.000	R 2.5000	Vs 1.7851	f1 2.4487

Sect #	Elev (ft)	Wz (lb)	Lateral			Fsz (lb)
			a	b	c	
1	3.38	425.54	0.00	0.00	0.00	0.79
2	13.38	858.13	0.00	0.00	0.00	6.28
3	30.00	1303.3	0.00	0.00	0.00	21.41
4	50.00	1313.0	0.00	0.00	0.00	35.95
5	70.00	1303.3	0.00	0.00	0.00	49.96
6	90.00	1303.3	0.00	0.00	0.00	64.23
7	110.00	1313.0	0.00	0.00	0.00	79.09
8	130.00	1303.3	0.00	0.00	0.00	92.78
9	150.00	1303.3	0.00	0.00	0.00	107.05
10	170.00	1313.0	0.00	0.00	0.00	122.23
11	190.00	1368.3	0.00	0.00	0.00	142.36
12	210.00	3986.7	0.00	0.00	0.00	458.44
13	228.31	767.90	0.00	0.00	0.00	96.00
14	238.31	146.28	0.00	0.00	0.00	19.09
15	245.00	3648.0	0.00	0.00	0.00	489.41

Load Case: 0.9D + 1.0E

Dead Load Factor	0.90	Sds 0.183	Ss 0.1720	Fa 1.6000	Ke 1.0000
Seismic Load Factor	1.00	Sd1 0.100	S1 0.0630	Fv 2.4000	Kg 0.0047
Seismic Importance Factor	1.00	SA 0.000	R 2.5000	Vs 1.7851	f1 2.4487

Sect #	Elev (ft)	Wz (lb)	Lateral			Fsz (lb)
			a	b	c	
1	3.38	425.54	0.00	0.00	0.00	0.79
2	13.38	858.13	0.00	0.00	0.00	6.28
3	30.00	1303.3	0.00	0.00	0.00	21.41
4	50.00	1313.0	0.00	0.00	0.00	35.95
5	70.00	1303.3	0.00	0.00	0.00	49.96
6	90.00	1303.3	0.00	0.00	0.00	64.23
7	110.00	1313.0	0.00	0.00	0.00	79.09
8	130.00	1303.3	0.00	0.00	0.00	92.78
9	150.00	1303.3	0.00	0.00	0.00	107.05
10	170.00	1313.0	0.00	0.00	0.00	122.23
11	190.00	1368.3	0.00	0.00	0.00	142.36
12	210.00	3986.7	0.00	0.00	0.00	458.44
13	228.31	767.90	0.00	0.00	0.00	96.00
14	238.31	146.28	0.00	0.00	0.00	19.09
15	245.00	3648.0	0.00	0.00	0.00	489.41

Support Forces Summary

Structure: CT17474-A-SBA
Site Name: Thompson
Height: 250.00 (ft)
Base Elev: 0.000 (ft)
Gh: 0.85

Topography: 1

Code: EIA/TIA-222-G
Exposure: C
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

9/23/2021



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Load Case	Node	FX (kips)	FY (kips)	FZ (kips)	(-) = Uplift (+) = Down
1.2D + 1.6W Normal Wind	1	0.00	114.12	-1.16	
	A1	0.00	-2.32	1.30	
	A1b	40.41	-41.66	-25.20	
	A1a	-40.41	-41.66	-25.20	
1.2D + 1.6W 60° Wind	1	-1.90	91.44	-1.10	
	A1	-1.17	-8.11	7.57	
	A1b	5.97	-8.11	-4.80	
	A1a	-46.48	-47.31	-26.84	
1.2D + 1.6W 90° Wind	1	-1.56	106.69	-0.37	
	A1	-1.69	-26.20	29.21	
	A1b	1.89	-3.47	-1.72	
	A1a	-48.93	-48.82	-27.14	
0.9D + 1.6W Normal Wind	1	0.00	107.53	-1.34	
	A1	0.00	-2.33	1.31	
	A1b	40.31	-41.60	-25.13	
	A1a	-40.31	-41.60	-25.13	
0.9D + 1.6W 60° Wind	1	-1.96	85.04	-1.13	
	A1	-1.17	-8.15	7.61	
	A1b	6.01	-8.15	-4.82	
	A1a	-46.45	-47.31	-26.82	
0.9D + 1.6W 90° Wind	1	-1.68	100.13	-0.33	
	A1	-1.69	-26.16	29.13	
	A1b	1.90	-3.49	-1.73	
	A1a	-48.83	-48.76	-27.09	
1.2D + 1.0Di + 1.0Wi Normal Wind	1	0.00	165.64	-0.03	
	A1	0.00	-9.34	12.38	
	A1b	23.49	-21.60	-14.99	
	A1a	-23.49	-21.60	-14.99	
1.2D + 1.0Di + 1.0Wi 60° Wind	1	-0.15	165.53	-0.08	
	A1	-1.22	-13.60	17.31	
	A1b	14.38	-13.60	-9.71	
	A1a	-28.23	-25.87	-16.30	
1.2D + 1.0Di + 1.0Wi 90° Wind	1	-0.11	165.51	-0.05	
	A1	-1.52	-17.55	22.53	
	A1b	11.48	-10.50	-7.31	
	A1a	-27.49	-24.68	-15.18	
1.2D + 1.0E	1	0.00	61.11	-0.01	
	A1	0.00	-9.78	11.33	
	A1b	11.27	-11.57	-6.51	
	A1a	-11.27	-11.57	-6.51	
0.9D + 1.0E	1	0.00	55.06	-0.01	
	A1	0.00	-9.93	11.47	
	A1b	11.39	-11.71	-6.58	
	A1a	-11.39	-11.71	-6.58	

1.0D + 1.0W Normal Wind	1	0.00	51.68	-0.60
	A1	0.00	-3.55	3.73
	A1b	11.70	-12.10	-7.06
	A1a	-11.70	-12.10	-7.06

1.0D + 1.0W 60° Wind	1	-0.51	52.09	-0.30
	A1	-0.26	-6.59	7.08
	A1b	6.00	-6.60	-3.76
	A1a	-14.71	-15.09	-8.49

1.0D + 1.0W 90° Wind	1	-0.59	51.90	0.00
	A1	-0.32	-9.34	10.36
	A1b	3.89	-4.36	-2.39
	A1a	-14.06	-14.33	-7.97

Max Reactions (kips)	Base	Anchor 1
Vertical	165.64	48.82
Horizontal	2.27	55.96

Cable Forces Summary

Structure: CT17474-A-SBA	Code: EIA/TIA-222-G	9/23/2021
Site Name: Thompson	Exposure: C	
Height: 250.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



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Load Case	Elevation (ft)	Cable	Node 1	Node 2	Allow Tension (kips)	Applied Tension (kips)	Use %
1.2D + 1.6W Normal Wind	59.92	3/8 EHS	A1	24	9.24	0.08	1
			A1b	24a	9.24	7.49	81
			A1a	24b	9.24	7.49	81
	119.92	9/16 EHS	A1	48	21.00	0.12	1
			A1b	48a	21.00	17.20	82
			A1a	48b	21.00	17.20	82
	179.92		A1	72	21.00	0.53	3
			A1b	72a	21.00	17.24	82
			A1a	72b	21.00	17.24	82
	239.92		A1	T4	21.00	1.24	6
			A1a	T4b	21.00	12.90	61
			A1b	T4a	21.00	10.11	48
			A1b	T4	21.00	12.90	61
			A1a	T4a	21.00	10.11	48
			A1	T4b	21.00	1.24	6
1.2D + 1.6W 60° Wind	59.92	3/8 EHS	A1	24	9.24	0.93	10
			A1b	24a	9.24	0.93	10
			A1a	24b	9.24	8.33	90
	119.92	9/16 EHS	A1	48	21.00	1.92	9
			A1b	48a	21.00	1.92	9
			A1a	48b	21.00	17.94	85
	179.92		A1	72	21.00	2.27	11
			A1b	72a	21.00	2.26	11
			A1a	72b	21.00	20.46	97
	239.92		A1	T4	21.00	3.68	18
			A1a	T4b	21.00	13.32	63
			A1b	T4a	21.00	3.11	15
			A1b	T4	21.00	3.68	18
			A1a	T4a	21.00	13.27	63
			A1	T4b	21.00	3.09	15
1.2D + 1.6W 90° Wind	59.92	3/8 EHS	A1	24	9.24	4.40	48
			A1b	24a	9.24	0.21	2
			A1a	24b	9.24	8.87	96
	119.92	9/16 EHS	A1	48	21.00	10.84	52
			A1b	48a	21.00	0.51	2
			A1a	48b	21.00	19.68	94
	179.92		A1	72	21.00	9.87	47
			A1b	72a	21.00	0.86	4
			A1a	72b	21.00	20.87	99
	239.92		A1	T4	21.00	8.92	42
			A1a	T4b	21.00	12.36	59
			A1b	T4a	21.00	1.60	8
			A1b	T4	21.00	1.72	8
			A1a	T4a	21.00	14.32	68
			A1	T4b	21.00	6.51	31
0.9D + 1.6W Normal Wind	59.92	3/8 EHS	A1	24	9.24	0.08	1
			A1b	24a	9.24	7.43	80
			A1a	24b	9.24	7.43	80
	119.92	9/16 EHS	A1	48	21.00	0.12	1
			A1b	48a	21.00	17.14	82
			A1a	48b	21.00	17.14	82
	179.92		A1	72	21.00	0.53	3
			A1b	72a	21.00	17.22	82

0.9D + 1.6W Normal Wind	179.92	9/16 EHS	A1a	72b	21.00	17.22	82
	239.92		A1	T4	21.00	1.25	6
			A1a	T4b	21.00	12.90	61
			A1b	T4a	21.00	10.12	48
			A1b	T4	21.00	12.90	61
0.9D + 1.6W 60° Wind	59.92	3/8 EHS	A1a	T4a	21.00	10.12	48
	119.92		A1	T4b	21.00	1.25	6
			A1	24	9.24	0.93	10
		A1b	24a	9.24	0.93	10	
		A1a	24b	9.24	8.28	90	
0.9D + 1.6W 90° Wind	59.92	3/8 EHS	A1	48	21.00	1.93	9
	119.92		A1b	48a	21.00	1.92	9
			A1a	48b	21.00	17.94	85
		A1	72	21.00	2.28	11	
		A1b	72a	21.00	2.27	11	
0.9D + 1.6W 60° Wind	59.92	3/8 EHS	A1a	72b	21.00	20.44	97
	119.92		A1	T4	21.00	3.70	18
			A1a	T4b	21.00	13.34	64
		A1b	T4a	21.00	3.13	15	
		A1b	T4	21.00	3.70	18	
0.9D + 1.6W 90° Wind	59.92	3/8 EHS	A1a	T4a	21.00	13.29	63
	119.92		A1	T4b	21.00	3.11	15
			A1	24	9.24	4.35	47
		A1b	24a	9.24	0.21	2	
		A1a	24b	9.24	8.79	95	
0.9D + 1.6W 60° Wind	59.92	3/8 EHS	A1	48	21.00	10.78	51
	119.92		A1b	48a	21.00	0.51	2
			A1a	48b	21.00	19.63	93
		A1	72	21.00	9.85	47	
		A1b	72a	21.00	0.87	4	
0.9D + 1.6W 90° Wind	59.92	3/8 EHS	A1a	72b	21.00	20.84	99
	119.92		A1	T4	21.00	8.93	43
			A1a	T4b	21.00	12.37	59
		A1b	T4a	21.00	1.61	8	
		A1b	T4	21.00	1.73	8	
0.9D + 1.6W 60° Wind	59.92	3/8 EHS	A1a	T4a	21.00	14.33	68
	119.92		A1	T4b	21.00	6.53	31
			A1	24	9.24	2.82	31
		A1b	24a	9.24	5.25	57	
		A1a	24b	9.24	5.25	57	
1.2D + 1.0Di + 1.0Wi Normal Wind	59.92	3/8 EHS	A1	48	21.00	3.98	19
	119.92		A1b	48a	21.00	9.09	43
			A1a	48b	21.00	9.09	43
		A1	72	21.00	3.94	19	
		A1b	72a	21.00	9.00	43	
1.2D + 1.0Di + 1.0Wi Normal Wind	59.92	3/8 EHS	A1a	72b	21.00	9.00	43
	119.92		A1	T4	21.00	4.81	23
			A1a	T4b	21.00	8.78	42
		A1b	T4a	21.00	8.24	39	
		A1b	T4	21.00	8.78	42	
1.2D + 1.0Di + 1.0Wi Normal Wind	59.92	3/8 EHS	A1a	T4a	21.00	8.24	39
	119.92		A1	T4b	21.00	4.81	23
			A1	24	9.24	3.53	38
		A1b	24a	9.24	3.53	38	
		A1a	24b	9.24	5.75	62	
1.2D + 1.0Di + 1.0Wi 60° Wind	59.92	3/8 EHS	A1	48	21.00	5.46	26
	119.92		A1b	48a	21.00	5.46	26
			A1a	48b	21.00	10.33	49
		A1	72	21.00	5.55	26	
		A1b	72a	21.00	5.55	26	
1.2D + 1.0Di + 1.0Wi 60° Wind	59.92	3/8 EHS	A1a	72b	21.00	10.85	52
	119.92		A1	T4	21.00	6.46	31
			A1a	T4b	21.00	9.94	47
		A1b	T4a	21.00	6.00	29	
		A1b	T4	21.00	6.46	31	
1.2D + 1.0Di + 1.0Wi 60° Wind	59.92	3/8 EHS	A1a	T4a	21.00	9.93	47
	119.92		A1	T4	21.00	6.46	31
			A1a	T4b	21.00	9.94	47
		A1b	T4a	21.00	6.00	29	
		A1b	T4	21.00	6.46	31	

1.2D + 1.0Di + 1.0Wi 60° Wind	239.92	9/16 EHS	A1	T4b	21.00	5.99	29
1.2D + 1.0Di + 1.0Wi 90° Wind	59.92	3/8 EHS	A1	24	9.24	4.41	48
			A1b	24a	9.24	2.97	32
			A1a	24b	9.24	5.65	61
	119.92	9/16 EHS	A1	48	21.00	7.27	35
			A1b	48a	21.00	4.30	21
			A1a	48b	21.00	10.07	48
	179.92		A1	72	21.00	7.23	34
			A1b	72a	21.00	4.33	21
			A1a	72b	21.00	10.35	49
	239.92		A1	T4	21.00	7.67	37
			A1a	T4b	21.00	9.39	45
			A1b	T4a	21.00	5.13	24
			A1b	T4	21.00	5.34	25
			A1a	T4a	21.00	9.65	46
			A1	T4b	21.00	7.05	34
1.2D + 1.0E	59.92	3/8 EHS	A1	24	9.24	2.10	23
			A1b	24a	9.24	2.19	24
			A1a	24b	9.24	2.19	24
	119.92	9/16 EHS	A1	48	21.00	4.09	20
			A1b	48a	21.00	4.45	21
			A1a	48b	21.00	4.45	21
	179.92		A1	72	21.00	3.38	16
			A1b	72a	21.00	4.11	20
			A1a	72b	21.00	4.11	20
	239.92		A1	T4	21.00	3.11	15
			A1a	T4b	21.00	3.79	18
			A1b	T4a	21.00	3.73	18
			A1b	T4	21.00	3.79	18
			A1a	T4a	21.00	3.73	18
			A1	T4b	21.00	3.11	15
0.9D + 1.0E	59.92	3/8 EHS	A1	24	9.24	2.11	23
			A1b	24a	9.24	2.20	24
			A1a	24b	9.24	2.20	24
	119.92	9/16 EHS	A1	48	21.00	4.13	20
			A1b	48a	21.00	4.49	21
			A1a	48b	21.00	4.49	21
	179.92		A1	72	21.00	3.43	16
			A1b	72a	21.00	4.16	20
			A1a	72b	21.00	4.16	20
	239.92		A1	T4	21.00	3.17	15
			A1a	T4b	21.00	3.84	18
			A1b	T4a	21.00	3.79	18
			A1b	T4	21.00	3.84	18
			A1a	T4a	21.00	3.79	18
			A1	T4b	21.00	3.17	15
1.0D + 1.0W Normal Wind	59.92	3/8 EHS	A1	24	9.24	0.57	6
			A1b	24a	9.24	2.17	23
			A1a	24b	9.24	2.17	23
	119.92	9/16 EHS	A1	48	21.00	1.17	6
			A1b	48a	21.00	4.61	22
			A1a	48b	21.00	4.61	22
	179.92		A1	72	21.00	0.79	4
			A1b	72a	21.00	4.61	22
			A1a	72b	21.00	4.61	22
	239.92		A1	T4	21.00	1.63	8
			A1a	T4b	21.00	4.09	19
			A1b	T4a	21.00	3.65	17
			A1b	T4	21.00	4.09	19
			A1a	T4a	21.00	3.65	17
			A1	T4b	21.00	1.63	8
1.0D + 1.0W 60° Wind	59.92	3/8 EHS	A1	24	9.24	1.05	11
			A1b	24a	9.24	1.05	11
			A1a	24b	9.24	2.65	29
	119.92	9/16 EHS	A1	48	21.00	2.24	11
			A1b	48a	21.00	2.24	11

1.0D + 1.0W 60° Wind	119.92	9/16 EHS	A1a	48b	21.00	5.63	27
	179.92		A1	72	21.00	2.06	10
			A1b	72a	21.00	2.06	10
			A1a	72b	21.00	5.97	28
	239.92		A1	T4	21.00	2.71	13
			A1a	T4b	21.00	4.71	22
			A1b	T4a	21.00	2.35	11
			A1b	T4	21.00	2.71	13
			A1a	T4a	21.00	4.71	22
			A1	T4b	21.00	2.34	11
1.0D + 1.0W 90° Wind	59.92	3/8 EHS	A1	24	9.24	1.60	17
			A1b	24a	9.24	0.66	7
			A1a	24b	9.24	2.53	27
	119.92	9/16 EHS	A1	48	21.00	3.42	16
			A1b	48a	21.00	1.39	7
			A1a	48b	21.00	5.40	26
	179.92		A1	72	21.00	3.31	16
			A1b	72a	21.00	1.11	5
			A1a	72b	21.00	5.64	27
	239.92		A1	T4	21.00	3.45	16
			A1a	T4b	21.00	4.36	21
			A1b	T4a	21.00	1.80	9
			A1b	T4	21.00	2.01	10
		A1a	T4a	21.00	4.59	22	
		A1	T4b	21.00	2.96	14	

Analysis Summary

Structure: CT17474-A-SBA	Code: EIA/TIA-222-G	9/23/2021
Site Name: Thompson	Exposure: C	
Height: 250.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II
		Page: 24



Max Reactions

Base:	165.64 (Vertical)	2.27 (Horizontal)
Anchor 1:	48.82 (Vertical)	55.96 (Horizontal)

Max Usages

Max Leg: 94.2% (1.2D + 1.6W 60° Wind - Sect 12)
 Max Diag: 96.3% (1.2D + 1.6W Normal Wind - Sect 8)
 Max Horiz: 80.1% (0.9D + 1.6W 60° Wind - Sect 12)
 Max Cable: 99.4% (1.2D + 1.6W 90° Wind) - Elev: 180 ft

Max Deflection, Twist and Sway

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)
0.9D + 1.0E - Normal To Face	200.00	0.0558	0.0000	0.0307
	203.39	0.0583	0.0003	0.0253
	243.36	0.0586	0.0002	0.0097
0.9D + 1.6W 101 mph Wind at 60° From Face	200.00	1.6537	0.0732	0.1937
	203.39	1.6618	0.0713	0.0675
	243.36	1.2967	0.0350	0.7981
0.9D + 1.6W 101 mph Wind at 90° From Face	200.00	2.3297	0.1246	0.1018
	203.39	2.3290	0.1200	0.1302
	243.36	1.8568	0.0572	0.9412
0.9D + 1.6W 101 mph Wind at Normal To Face	200.00	2.6241	0.0000	0.1401
	203.39	2.6239	-0.0093	0.1135
	243.36	2.1368	-0.0035	0.9644
1.0D + 1.0W 60 mph Wind at 60° From Face	200.00	0.2749	0.0126	0.0263
	203.39	0.2757	0.0122	0.0044
	243.36	0.1938	0.0045	0.1706
1.0D + 1.0W 60 mph Wind at 90° From Face	200.00	0.2722	0.0518	0.0247
	203.39	0.2715	0.0509	0.0371
	243.36	0.1707	0.0377	0.2041
1.0D + 1.0W 60 mph Wind at Normal To Face	200.00	0.2567	0.0000	0.0051
	203.39	0.2545	-0.0018	0.0579
	243.36	0.1327	-0.0003	0.2303
1.2D + 1.0Di + 1.0Wi 50 mph Wind at 60° From Face	200.00	0.4963	0.0276	0.0218
	203.39	0.4956	0.0270	0.0371
	243.36	0.3454	0.0138	0.3116
1.2D + 1.0Di + 1.0Wi 50 mph Wind at 90° From Face	200.00	0.4368	0.1766	0.1819
	203.39	0.4304	0.1742	0.2001
	243.36	0.2532	0.1441	0.4666
1.2D + 1.0Di + 1.0Wi 50 mph Wind at Normal From Face	200.00	0.3589	0.0000	0.2176
	203.39	0.3436	0.0028	0.2927
	243.36	0.0043	0.0013	0.5896
1.2D + 1.0E - Normal To Face	200.00	0.0561	0.0000	0.0309
	203.39	0.0586	0.0003	0.0255
	243.36	0.0589	-0.0002	0.0096

1.2D + 1.6W 101 mph Wind at 60° From Face	200.00	1.6608	0.0735	0.1949
	203.39	1.6690	0.0716	0.0680
	243.36	1.3026	0.0353	0.8012

1.2D + 1.6W 101 mph Wind at 90° From Face	200.00	2.3448	0.1256	0.1025
	203.39	2.3441	0.1210	0.1311
	243.36	1.8698	0.0583	0.9451

1.2D + 1.6W 101 mph Wind at Normal To Face	200.00	2.6401	0.0000	0.1407
	203.39	2.6400	-0.0093	0.1135
	243.36	2.1514	-0.0035	0.9675



Guyed Tower Base Design

Date
8/12/2021

Customer Name:	SBA Communications Corp	EIA/TIA Standard:	EIA-222-G
Site Name:		Structure Height (Ft.):	250
Site Nmber:	CT17474-A-SBA	Engineer Name:	J. Tibbetts
Engr. Number:	112502	Engineer Login ID:	

Foundation Info Obtained from:

Drawings/Calculations

Structure Type:

Guyed Tower

Analysis or Design?

Analysis

Base Reactions (Factored):

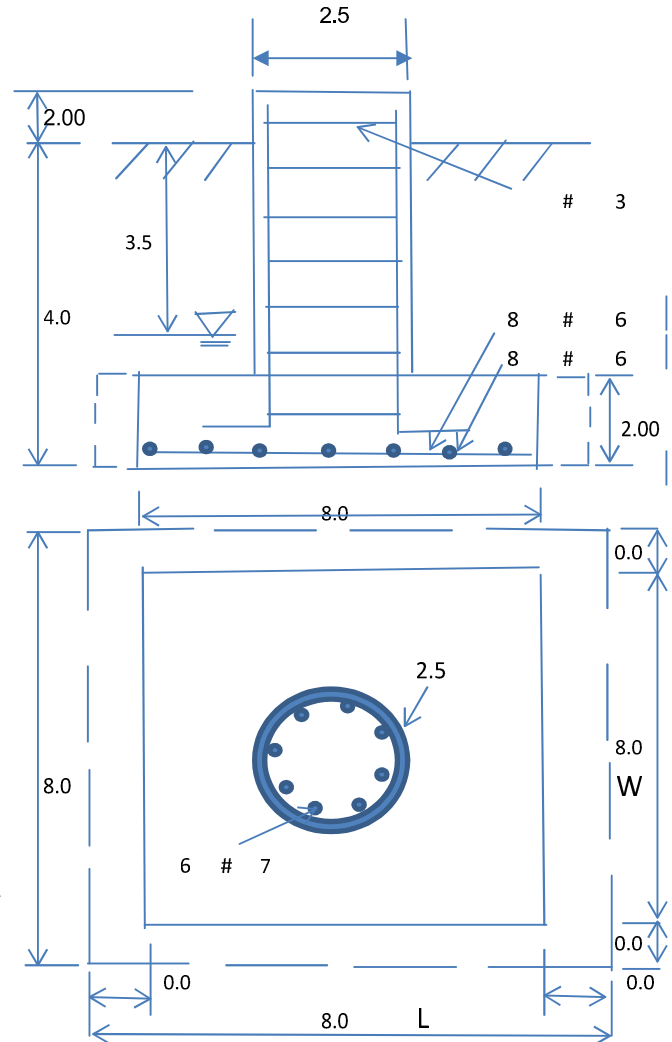
Axial Load (Kips):	165.6	Shear Force (Kips):	2.3
Uplift Force (Kips):	0.0	Moment (Kips-ft):	
Allowable overstress %:	5.0%		

Foundation Geometries:

		Mods required -Yes/No ?:	No
Diameter of Pier (ft.):	2.5	Depth of Base BG (ft.):	4.0
Pier Height A. G. (ft.):	2.00	Thickness of Pad (ft):	2.00
Length of Pad (ft.):	8	Width of Pad (ft.):	8
Final Length of pad (ft)	8.0	Final width of pad (ft):	8.0

Material Properties and Reabr Info:

Concrete Strength (psi):	3000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	7	Tie / Stirrup Size #:	3	
Qty. of Vertical Rebars:	6	Tie Spacing (in):	6.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	6	
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf
Rebar at the bottom of the concrete pad:				
Qty. of Rebar in Pad (L):	8	Qty. of Rebar in Pad (W):	8	



Soil Design Parameters:

Soil Unit Weight (pcf):	115.0	Soil Buoyant Weight:	55.0	Pcf		
Water Table B.G.S. (ft):	3.5	Unit Weight of Water:	62.4	pcf	Angle from Top of Pad:	30
Ultimate Bearing Pressure (psf):	9000	Ultimate Skin Friction:	0	Psf	Angle from Bottm of Pad:	30
					Angle from Bottm of Pad:	25

Foundation Analysis and Design:

Uplift Strength Reduction Factor:	0.75	Compression Strength Reduction Factor:	0.6
Total Dry Soil Volume (cu. Ft.):	118.18	Total Dry Soil Weight (Kips):	13.59
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	13.59	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	115.63	Total Dry Concrete Weight (Kips):	17.35
Total Buoyant Concrete Volume (cu. Ft.):	32.00	Total Buoyant Concrete Weight (Kips):	2.80
Total Effective Concrete Weight (Kips):	20.15	Total Vertical Load on Base (Kips):	199.38

Check Soil Capacities:

Calculated Maxium Net Soil Pressure under the base (psf):	3015.0	<	Allowable Factored Soil Bearing (psf):	5400	0.56	OK!
Calculated Foundation Allowable Axail Capacity (Kips):	345.6	>	Design Factored Axial Load (Kips):	189	0.55	OK!

Load/
Capacity
Ratio

Check the capacities of Reinforcing Concrete:

Strength reduction factor (Flexure and axial tension):

0.90 Strength reduction factor (Shear):

Strength reduction factor (Axial compression):

0.65 Wind Load Factor on Concrete Design:

d
Capacity
Ratio

(1) Concrete Pier:

Vertical Steel Rebar Area (sq. in./each):

Tie / Stirrup Area (sq. in./each):

Calculated Moment Capacity (Mn,Kips-Ft):

> Design Factored Moment (Mu, Kips-Ft)

Calculated Shear Capacity (Kips):

> Design Factored Shear (Kips):

Calculated Tension Capacity (Tn, Kips):

> Design Factored Tension (Tu Kips):

Calculated Compression Capacity (Pn, Kips):

> Design Factored Axial Load (Pu Kips):

Moment & Axial Strength Combination(Pu/Pn+Mu/Mn):

Pier Reinforcement Ratio:

(2).Concrete Pad:

One-Way Design Shear Capacity (L-Dir. Kips):

One-Way Factored Shear (L-Dir Kips): 22.2

One-Way Design Shear Capacity (W-Dir. Kips):

One-Way Factored Shear (W-Dir Kips) 22.2

Two-Way Design Shear Capacity (Kips):

Two-Way Factored Shear (Kips):

Lower Steel Pad Reinforcement Ratio (L-Direct.):


Lower Steel Pad Reinf. Ratio (W-Direct) 0.0018

Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):

Moment at Bottom (L-Direct. K-Ft):

Lower Steel Pad Moment Capacity (W-Dir. Kips-ft):

Moment at Bottom (W-Dir. Kips-Ft): 81.2

	Guy Anchor Analysis and Design		Date	
			8/12/2021	
	Customer Name:	SBA Communications Corp	EIA/TIA Standard:	EIA-222-G
	Site Name:	0	Structure Height (Ft.):	250
	Site Number:	CT17474-A-SBA	Engineer Name:	J. Tibbetts
Engr. Number:	112502	Engineer Login ID:		

Foundation Info Obtained from: Drawings/Calculations **Number of Anchors:** 1 Set **Failure model:** New

Soil Design Parameters:

Soil Unit Weight (pcf):	110.0	Soil Buoyant Weight:	55.0	pcf	Cohesion of Soils (psf):	0
Water Table B.G.S.(ft):	3.5	Unit Weight of Water:	62.4	pcf	Internal Angle of Friction (°)	34
Ultimate lateral pressure (psf):	1700	Ultimate Skin Friction:	300	psf	Coefficient of Shear Friction:	0.30
Conical Failure Angle from Top:	30	Failure Angle from Bottom:	20			

Material Properties:

Concrete Strength (psi):	3000	Unit Weight of Concrete:	150.0	pcf	Horizontal Rebar Yield (psi):	60000
Shear Strength Reduction Factor:	0.75				Flexure Strength Reduction Factor:	0.9

A. Inner Anchors:

Radius (ft.): 187

1. Design Reactions (Factored):

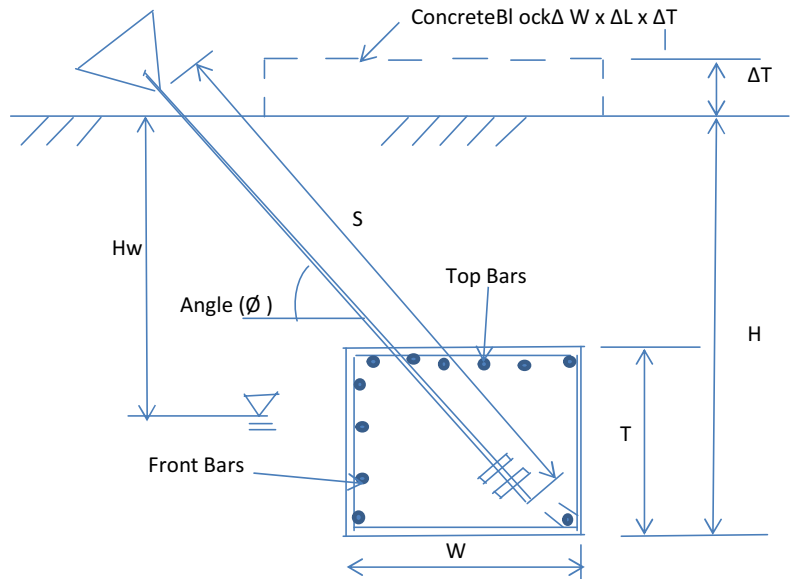
Uplift (Kips): 48.8 Shear (Kips): 56.0 Angle of rotation (°): 41.1

2. Foundation Geometries:

Block Base Depth B.G.S. (ft):	6.0	Block with/without toe?	No	Water Table below grade (ft):	3.50
Length of Anchor Block (L, ft.):	12.0	Width of Anchor Block:	5.0 ft.	Thickness of Anchor Block (ft.):	4.0
Concrete Block @ top of Anchor?	No				

(1). Inner Anchors:

Radius (ft.):	187
H (ft.):	6.0
Hw (ft.):	3.5
L (ft.):	12.0
W (ft.):	5.0
T (ft.):	4.0
Angle (°):	41.1
S (ft.):	9.89
Top bars:	5 # 7
Front bars:	4 # 7
Concrete Volume (Cu. Yd.)/Each:	8.89



3. Foundation Analysis and Design:

Total Dry Soil Volume (cu. Ft.):	162.05	Total Dry Soil Weight (Kips):	36.51
Total Buoyant Soil Volume (cu. Ft.):	40.84	Total Buoyant Soil Weight (Kips):	2.25
Total Effective Soil Weight (Kips):	17.83	Weight of the Concrete Block at Top (Kips):	0.00
Total Dry Concrete Volume (cu. Ft.):	90.00	Total Dry Concrete Weight (Kip):	13.50
Total Buoyant Concrete Volume (cu. Ft.):	150.00	Total Buoyant Concrete Weight (Kips):	13.14
Total Effective Concrete Weight (Kips):	26.64	Weight Reduction Factor:	0.9
Uplift Strength Reduction Factor on Soil:	0.75	Shear Strength Reduction Factor:	0.75

4. Check Soil and Foundation Capacities:

Nominal Factored Uplift Resistance:	53.04	Kips > Design Uplift Force (Kips):	48.8	OK
Ultimate Shear Friction Resistance at base:	1.56	Kips Ultimate Resistance Pressure:	1700.0	Psf
Factored Shear Resistance:	71.37	Kips > Design Shear Force (Kips):	56.0	OK

5. Design Concrete Block:

Rebar Size (#):	7	Wind Load Factor on Concrete Design:	1.00	
Qty. of the Rebar at top of the block:	5	Qty. of the Rebar in the front of the block:	4	
Area of Single Rebar (sq. in.):	0.60	Factor for concrete compression zone:	0.85	
One Way Shear due to Shear Force (Kips):	28.0	One Way Shear Capacity for shear (kips):	220.8	OK
One Way Shear due to Uplift (Kips):	24.4	One Way Shear Capacity for uplift (kips):	216.9	OK
Moment due to Shear Load (Kips-ft):	83.9	Flexural Capacity for Shear Load (Kips-ft):	604.7	OK
Moment due to uplift Load (Kips-ft):	73.2	Flexural Capacity for uplift Load (Kips-ft):	593.8	OK
Ratio of Design Moment/Moment capacity:	0.14	Minimum ratio of rebar (top & front) :	0.13	OK
Max. Ratio of Shear Force/Shear capacity:	0.13	OK		

0.0

0.0





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

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10061127
Maser Consulting Connecticut Project #: 21777093A

April 28, 2021

Site Information

Site ID: 469200-VZW / THOMPSON CT
Site Name: THOMPSON CT
Carrier Name: Verizon Wireless
Address: 61 Lowell Davis Rd
Thompson, Connecticut 06255
Windham County
Latitude: 41.978944°
Longitude: -71.852572°

Structure Information

Tower Type: 250-Ft Guyed
Mount Type: 12.00-Ft T-Frame

FUZE ID # 16272061

Analysis Results

T-Frame: 69.2% Pass

*****Contractor PMI Requirements:**

Included at the end of this MA report

Available & Submitted via portal at <https://pmi.vzwsmart.com>

Contractor - Please Review Specific Site PMI Requirements Upon Award

Requirements also Noted on Mount Modification Drawings

Requirements may also be Noted on A & E drawings

Report Prepared By: Selene Chen



Digitally signed by Justin Linette
Date: 2021.04.28 16:24:53-04'00'

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS, Site ID: 324965, dated March 3, 2021
Mount Mapping Report	Hudson Design Group, Site ID: 469200, dated February 23, 2021
Mount Analysis Report	Maser Consulting Connecticut, Project #: 21777093A, dated March 30, 2021
Mount Modification Drawings	Maser Consulting Connecticut, Project #: 21777093A, dated April 28, 2021

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust),	120 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	B
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e :	0.979
Seismic Parameters:	S_s :	0.186
	S_1 :	0.056
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, L_v :	250 lbs.
	Maintenance Live Load, L_m :	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
			JMA Wireless		Added
			Samsung		
			Raycap		
			Samsung		
			Samsung		
			Amphenol		Retained

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.

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Maser Consulting Connecticut and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Maser Consulting Connecticut to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Maser Consulting Connecticut, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

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

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

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

Analysis Results:

Component	Utilization %	Pass/Fail
Connection		Pass
Standoff Horizontal		Pass
Standoff Bracing		Pass
Face Horizontal		Pass
Face Bracing		Pass
Mount Pipe		Pass
Stabilizer		Pass
Structure Rating – (Controlling Utilization of all Components)		69.2%

Prior to the removal of any antennas and associated equipment, the contractor shall verify which existing antennas are serving CDMA technology. The CDMA antennas SHALL NOT be removed. For the purpose of this analysis, the CDMA antennas are assumed to be located on position 1 (looking from behind the antennas left to right). If actual site conditions differ from this assumption, the contractor is required to notify both Verizon and Maser Consulting Connecticut before proceeding with their scope of work. Changes in proposed antenna placement and/or mount reanalysis may be required based on in-field location of CDMA antennas.

Recommendation:

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

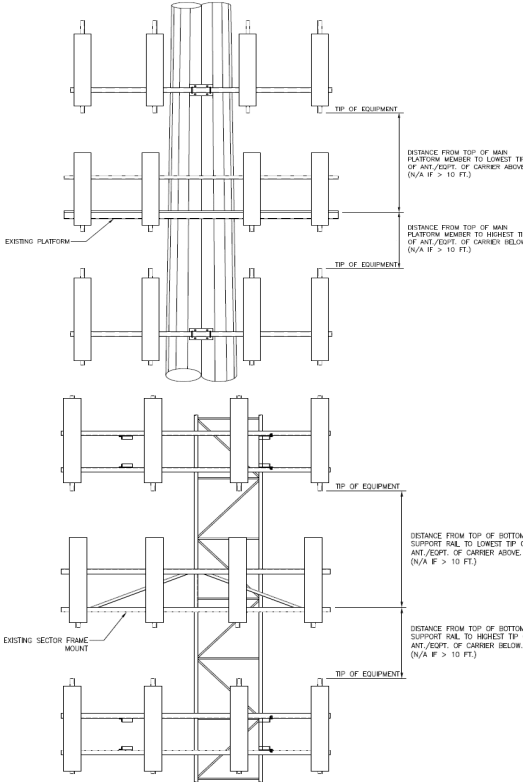
ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

Attachments:

- Mount Photos
- Mount Mapping Report (for reference only)
- Analysis Calculations
- Contractor Required PMI Report Deliverables**
- Antenna Placement Diagrams
- TIA Adoption and Wind Speed Usage Letter



Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector		Sector B													
Sector A:	70.00	Deg	Leg A:	45.00	Deg	Ant _{1a}													
Sector B:	180.00	Deg	Leg B:	165.00	Deg	Ant _{1b}	BXA-70063-6CF-EDIN	11.00	5.50	72.00		244.733	25.00	8.60	180.00	78			
Sector C:	295.00	Deg	Leg C:	285.00	Deg	Ant _{1c}													
Sector D:		Deg	Leg D:		Deg	Ant _{2a}													
Climbing Facility Information						Ant _{2b}	SBNHH-1D65B	12.00	7.50	73.00		243.817	36.00	9.00	180.00	80			
Location:	105.00	Deg	Outside Face A			Ant _{2c}	B4 RRH 2X60-4R	11.00	6.00	36.00		243.317	42.00	-7.00		84			
Climbing Facility	Corrosion Type:	Good condition.				Ant _{3a}													
	Access:	Climbing path was unobstructed.				Ant _{3b}	SBNHH-1D65B	12.00	7.50	73.00		243.817	36.00	9.00	180.00	80			
	Condition:	Good condition.				Ant _{3c}	B13 RRH 4X30	12.00	8.00	20.50		243.233	43.00	-6.50		88			
						Ant _{4a}													
						Ant _{4b}	BXA-70063-6CF-EDIN	11.00	5.50	72.00		244.733	25.00	8.50	180.00	78			
						Ant _{4c}													
						Ant _{5a}													
						Ant _{5b}													
						Ant _{5c}													
						Ant on Standoff	(2) RFSMA48129588	6.00	1.00	6.00						119			
						Ant on Standoff													
						Ant on Tower	BXA-171068-12CB-ED	6.00	4.00	72.00		239.8	-63.00		165.00	135			
						Ant on Tower													
						Sector C													
						Ant _{1a}													
						Ant _{1b}	BXA-70063-6CF-EDIN	11.00	5.50	72.00		244.733	25.00	8.60	295.00	78			
						Ant _{1c}													
						Ant _{2a}													
						Ant _{2b}	SBNHH-1D65B	12.00	7.50	73.00		243.817	36.00	9.00	290.00	80			
						Ant _{2c}	B4 RRH 2X60-4R	11.00	6.00	36.00		243.317	42.00	-7.00		84			
						Ant _{3a}													
						Ant _{3b}	SBNHH-1D65B	12.00	7.50	73.00		243.817	36.00	9.00	290.00	80			
						Ant _{3c}	B13 RRH 4X30	12.00	8.00	20.50		243.233	43.00	-6.50		88			
						Ant _{4a}													
						Ant _{4b}	BXA-70063-6CF-EDIN	11.00	5.50	72.00		244.733	25.00	8.50	295.00	78			
						Ant _{4c}													
						Ant _{5a}													
						Ant _{5b}													
						Ant _{5c}													
						Ant on Standoff	(2) RFSMA48129588	6.00	1.00	6.00						119			
						Ant on Standoff													
						Ant on Tower	BXA-171068-12CB-ED	6.00	4.00	72.00		239.8	-63.00		285.00	135			
						Ant on Tower	RHSDC-3315-PF-48	15.00	10.00	28.00									108,110
						Sector D													
						Ant _{1a}													
						Ant _{1b}													
						Ant _{1c}													
						Ant _{2a}													
						Ant _{2b}													
						Ant _{2c}													
						Ant _{3a}													
						Ant _{3b}													
						Ant _{3c}													
						Ant _{4a}													
						Ant _{4b}													
						Ant _{4c}													
						Ant _{5a}													
						Ant _{5b}													
						Ant _{5c}													
						Ant on Standoff													
						Ant on Standoff													
						Ant on Tower													
						Ant on Tower													



Observed Safety and Structural Issues During the Mount Mapping

Issue #	Description of Issue	Photo #
---------	----------------------	---------

1	(12) 1-5/8" COAX, (1) 1-1/4" HYBRID	181-183
2		
3		
4		
5		
6		
7		
8		

Mapping Notes

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

Standard Conditions

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



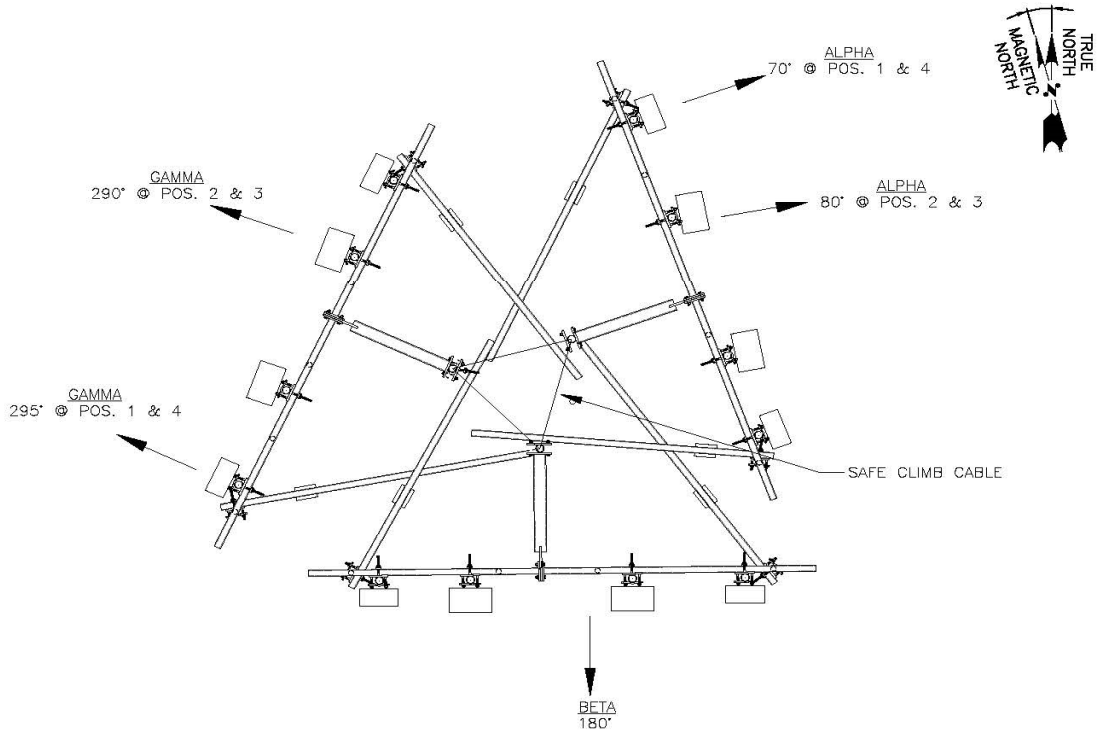
Antenna Mount Mapping Form (PATENT PENDING)

FCC #
1054728

Tower Owner:	SBA	Mapping Date:	2/23/2021
Site Name:	THOMPSON CT	Tower Type:	Guyed Tower
Site Number or ID:	469200	Tower Height (Ft.):	250
Mapping Contractor:	HUDSON DESIGN GROUP, LLC	Mount Elevation (Ft.):	244.9

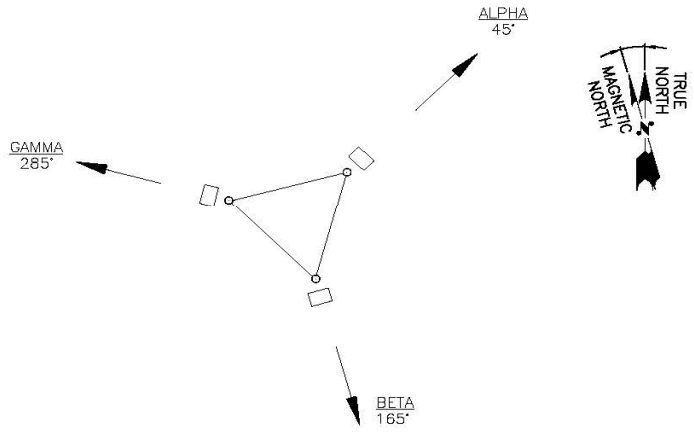
This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited except by express written permission of TES. All means and methods are the responsibility of the contractor and the work shall be compliant with ANSI/ASSE A 10.48, OSHA, FCC, FAA and other safety requirements that may apply. TES is not warranting the usability of the safety climb as it must be assessed prior to each use in compliance with OSHA requirements.

Please Insert Sketches of the Antenna Mount



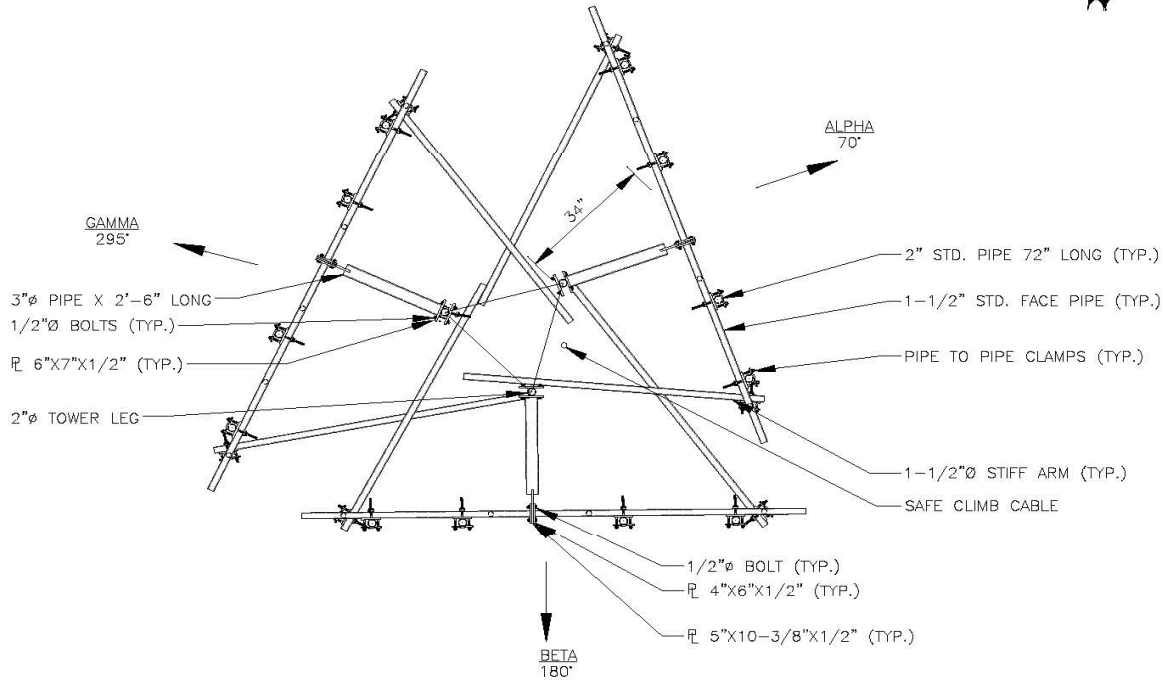
ANTENNA PLAN @ 244'
SCALE: N.T.S.

1
SK-1



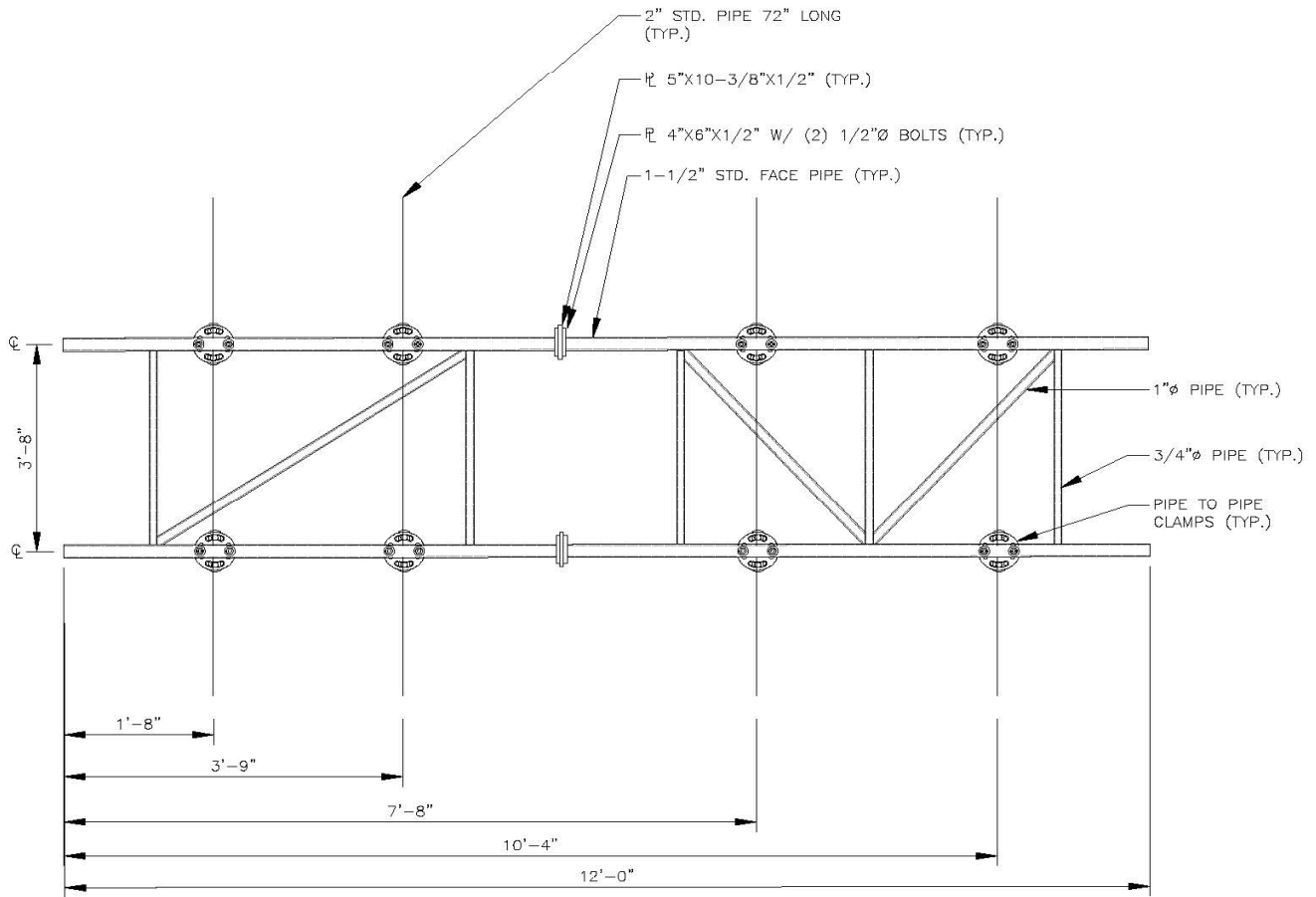
ANTENNA PLAN @ 239'
SCALE: N.T.S.

2
SK-1



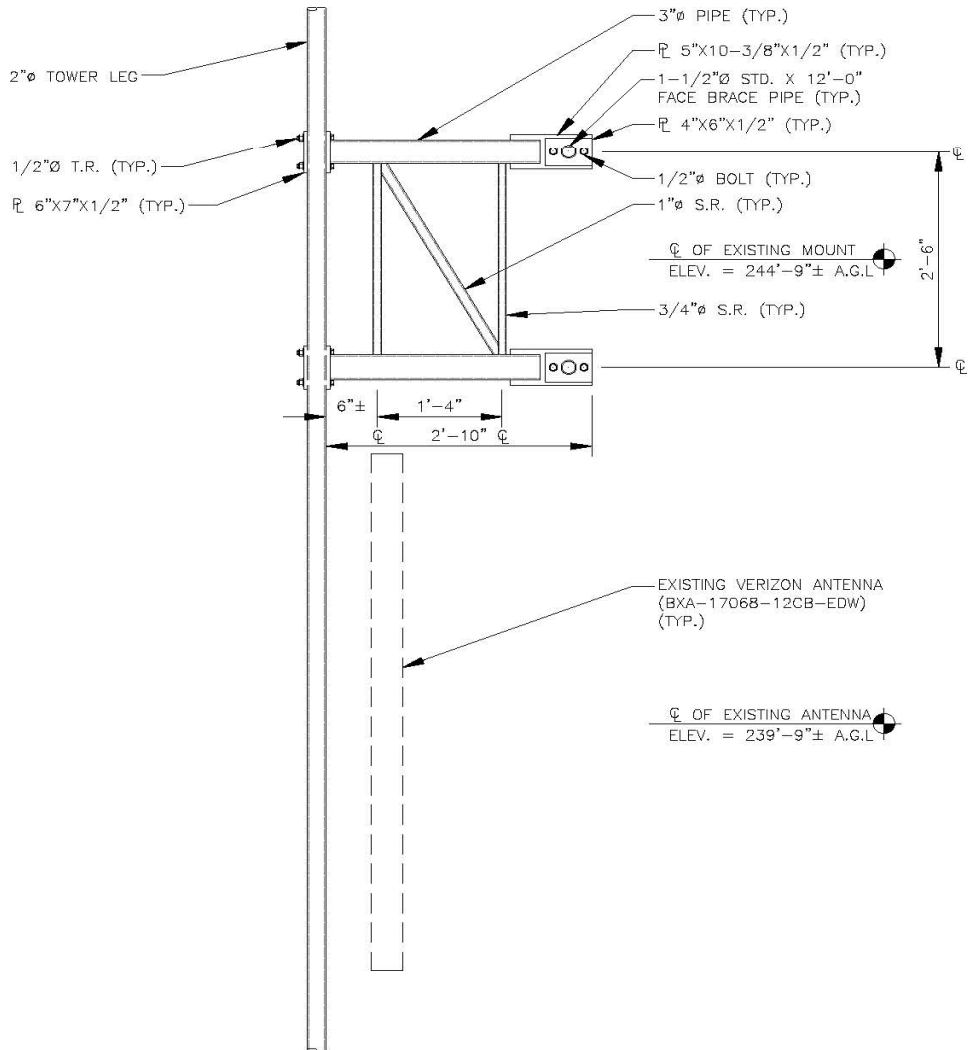
MOUNT PLAN
SCALE: N.T.S

1
SK-2



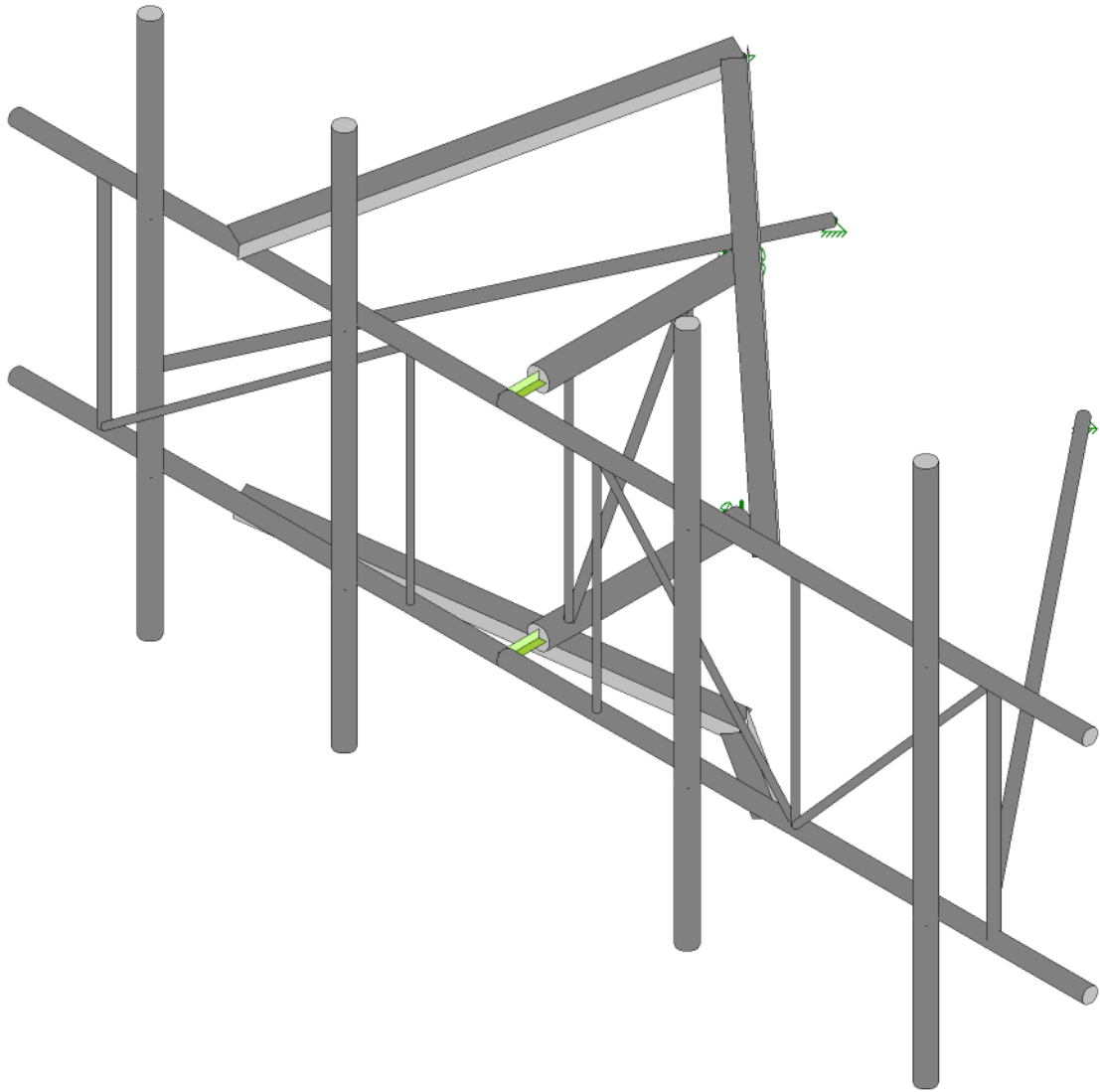
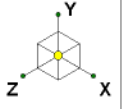
FRONT ELEVATION
SCALE: N.T.S

1
SK-3



MOUNT ELEVATION
SCALE: N.T.S

1
SK-4



Envelope Only Solution

Maser Consulting

AJH

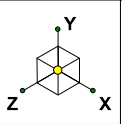
Project No. 10037952

469200-VZW_MT_LOT_SectorA_H

SK - 1

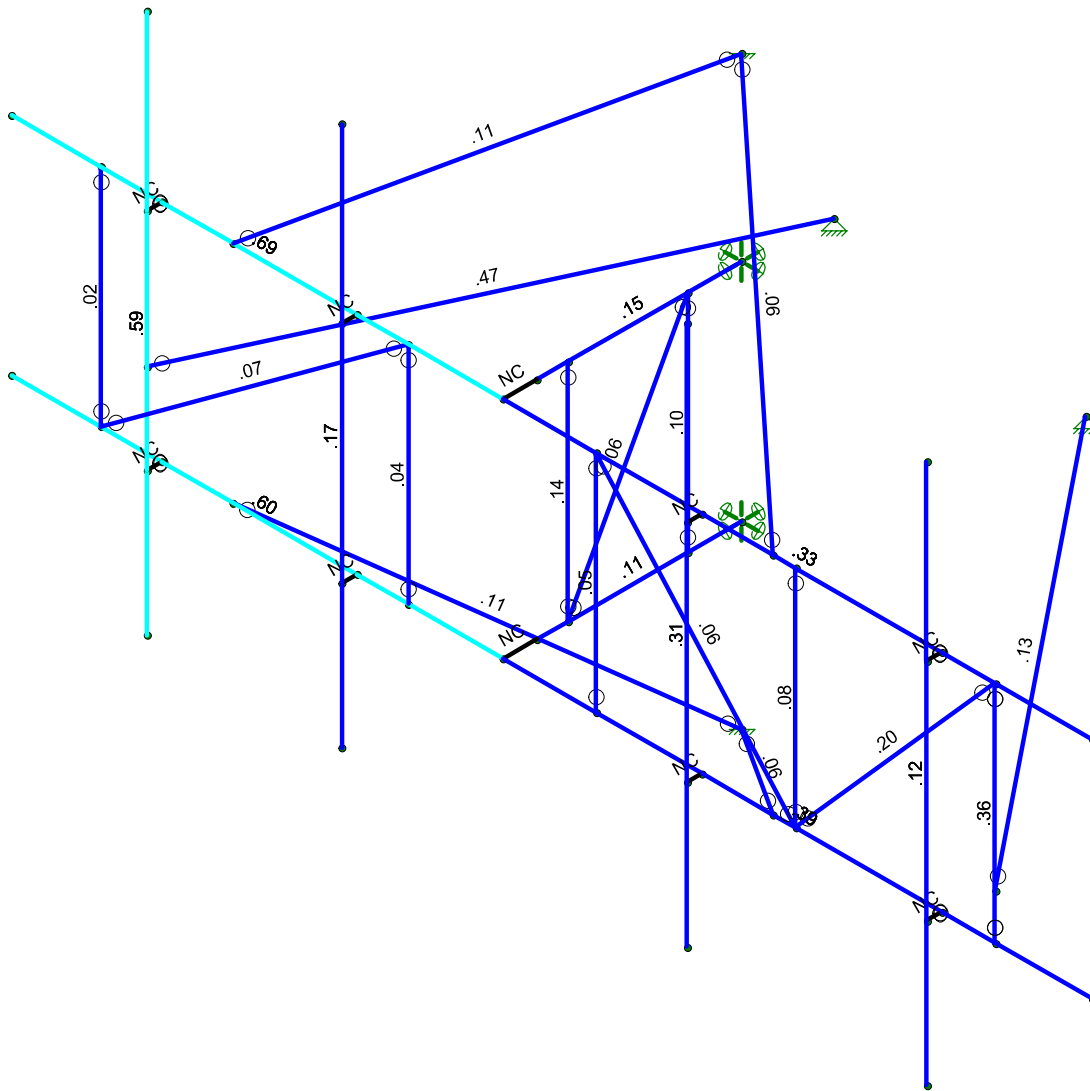
Apr 23, 2021 at 3:03 PM

MOD_LOADED_469200-VZW_MT_...



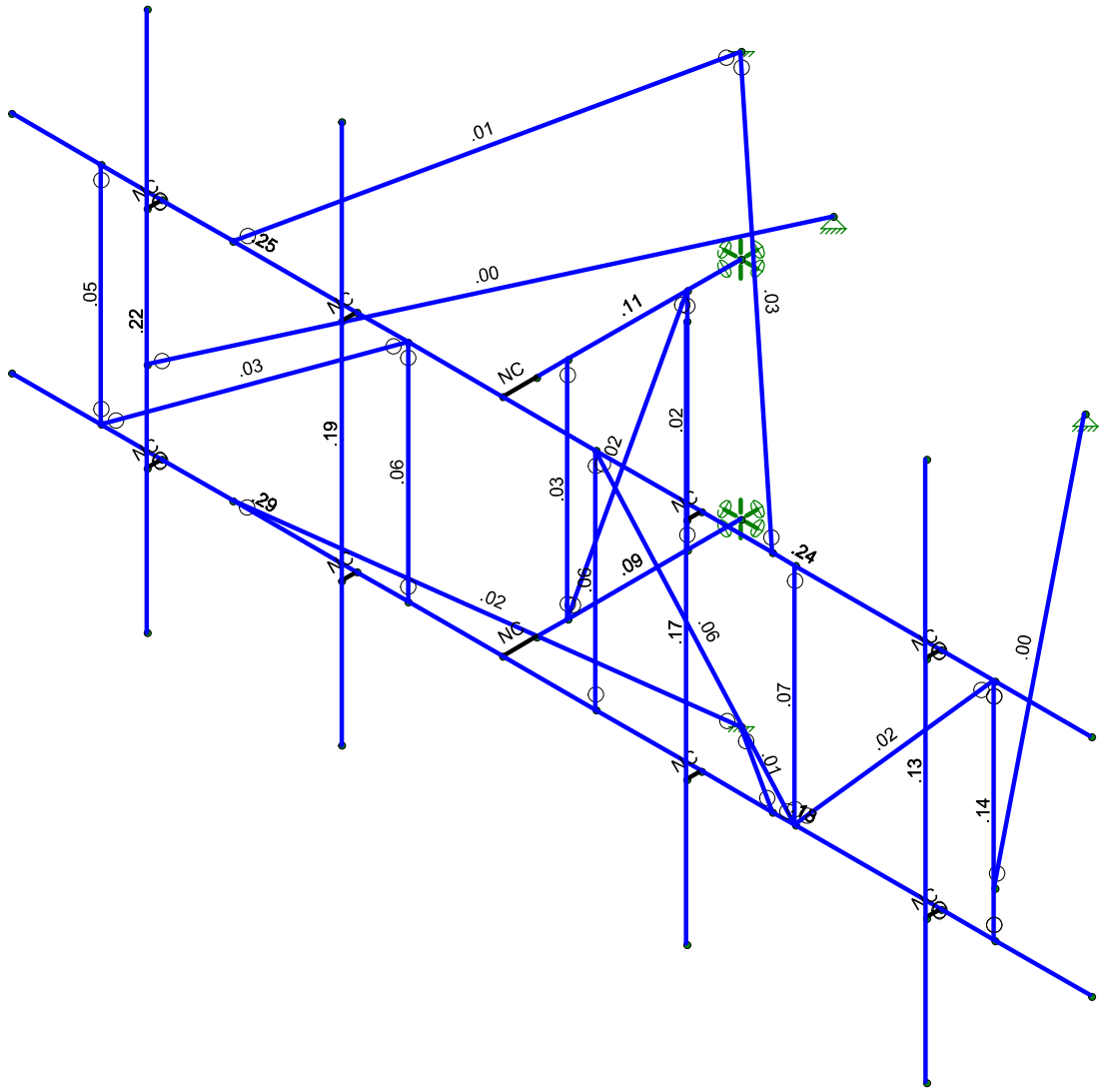
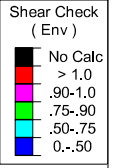
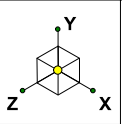
Code Check (Env)

Black	No Calc
Red	> 1.0
Magenta	.90-1.0
Green	.75-.90
Cyan	.50-.75
Blue	0.-.50



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	469200-VZW_MT_LOT_SectorA_H	SK - 2
AJH		Apr 23, 2021 at 3:04 PM
Project No. 10037952		MOD_LOADED_469200-VZW_MT_...



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	469200-VZW_MT_LOT_SectorA_H	SK - 3
AJH		Apr 23, 2021 at 3:04 PM
Project No. 10037952		MOD_LOADED_469200-VZW_MT_...



Company : Maser Consulting
 Designer : AJH
 Job Number : Project No. 10037952
 Model Name : 469200-VZW_MT_LOT_SectorA_H

Apr 23, 2021
 3:04 PM
 Checked By: _____

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 De...	None					33		
32	Antenna Wm (150 De...	None					33		
33	Antenna Wm (180 De...	None					33		
34	Antenna Wm (210 De...	None					33		
35	Antenna Wm (240 De...	None					33		
36	Antenna Wm (270 De...	None					33		
37	Antenna Wm (300 De...	None					33		
38	Antenna Wm (330 De...	None					33		
39	Structure D	None		-1					
40	Structure Di	None						27	
41	Structure Wo (0 Deg)	None						54	
42	Structure Wo (30 Deg)	None						54	
43	Structure Wo (60 Deg)	None						54	
44	Structure Wo (90 Deg)	None						54	
45	Structure Wo (120 D...	None						54	
46	Structure Wo (150 D...	None						54	
47	Structure Wo (180 D...	None						54	
48	Structure Wo (210 D...	None						54	
49	Structure Wo (240 D...	None						54	
50	Structure Wo (270 D...	None						54	
51	Structure Wo (300 D...	None						54	



Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
52	Structure Wo (330 D...	None						54	
53	Structure Wi (0 Deg)	None						54	
54	Structure Wi (30 Deg)	None						54	
55	Structure Wi (60 Deg)	None						54	
56	Structure Wi (90 Deg)	None						54	
57	Structure Wi (120 De...	None						54	
58	Structure Wi (150 De...	None						54	
59	Structure Wi (180 De...	None						54	
60	Structure Wi (210 De...	None						54	
61	Structure Wi (240 De...	None						54	
62	Structure Wi (270 De...	None						54	
63	Structure Wi (300 De...	None						54	
64	Structure Wi (330 De...	None						54	
65	Structure Wm (0 Deg)	None						54	
66	Structure Wm (30 D...	None						54	
67	Structure Wm (60 D...	None						54	
68	Structure Wm (90 D...	None						54	
69	Structure Wm (120 ...	None						54	
70	Structure Wm (150 ...	None						54	
71	Structure Wm (180 ...	None						54	
72	Structure Wm (210 ...	None						54	
73	Structure Wm (240 ...	None						54	
74	Structure Wm (270 ...	None						54	
75	Structure Wm (300 ...	None						54	
76	Structure Wm (330 ...	None						54	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		

Load Combinations

	Description	Solve	PDelta	S...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...
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 + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1
14	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1
15	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1
16	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1
17	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1
18	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1



Company : Maser Consulting
 Designer : AJH
 Job Number : Project No. 10037952
 Model Name : 469200-VZW_MT_LOT_SectorA_H

Apr 23, 2021
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Load Combinations (Continued)

	Description	Solve	PDelta	S...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...
19	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1		
20	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1		
21	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1		
22	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1		
23	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1		
24	1.2D + 1.0Di + ...	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										

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	0	0	0.854167	0	
2	N2	0	0	3.5	0	
3	N3	0	0	3.125	0	
4	N4	-5.458333	0	3.5	0	
5	N5	6.541667	0	3.5	0	
6	N6	0	0	2.78125	0	
7	N7	0	0	1.447917	0	
8	N9	0	2.5	0.854167	0	
9	N10	0	2.5	3.5	0	
10	N11	0	2.5	3.125	0	
11	N12	-5.458333	2.5	3.5	0	
12	N13	6.541667	2.5	3.5	0	
13	N14	0	2.5	2.78125	0	
14	N15	0	2.5	1.447917	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
15	N27	4.875	0	3.5	0	
16	N28	4.875	2.5	3.5	0	
17	N33	4.875	0	3.666667	0	
18	N34	4.875	2.5	3.666667	0	
19	N37	4.875	4.416667	3.666667	0	
20	N40	4.875	-1.583333	3.666667	0	
21	N41	-1.052083	0	3.5	0	
22	N42	-1.052083	2.5	3.5	0	
23	N43	3.25	0	3.5	0	
24	N44	3.25	2.5	3.5	0	
25	N45	5.46875	0	3.5	0	
26	N46	5.46875	2.5	3.5	0	
27	N47	-4.46875	0	3.5	0	
28	N48	-4.46875	2.5	3.5	0	
29	N53	1.03125	0	3.5	0	
30	N54	1.03125	2.5	3.5	0	
31	N33A	5.46875	.5	3.5	0	
32	N34A	-3.791667	1	3.666667	0	
33	N35	1.4	.5	-1.570704	0	
34	N36	-1.4	1	-1.570704	0	
35	N35A	2.208333	0	3.5	0	
36	N36A	2.208333	2.5	3.5	0	
37	N37A	2.208333	0	3.666667	0	
38	N38	2.208333	2.5	3.666667	0	
39	N39	2.208333	4.416667	3.666667	0	
40	N40A	2.208333	-1.583333	3.666667	0	
41	N41A	-1.625	0	3.5	0	
42	N42A	-1.625	2.5	3.5	0	
43	N43A	-1.625	0	3.666667	0	
44	N44A	-1.625	2.5	3.666667	0	
45	N45A	-1.625	4.416667	3.666667	0	
46	N46A	-1.625	-1.583333	3.666667	0	
47	N47A	-3.791667	0	3.5	0	
48	N48A	-3.791667	2.5	3.5	0	
49	N49	-3.791667	0	3.666667	0	
50	N50	-3.791667	2.5	3.666667	0	
51	N51	-3.791667	4.416667	3.666667	0	
52	N52	-3.791667	-1.583333	3.666667	0	
53	N53A	0	4.5	0.854167	0	
54	N54A	0	-2	0.854167	0	
55	N55	3	0	3.5	0	
56	N56	3	2.5	3.5	0	
57	N57	-3	0	3.5	0	
58	N58	-3	2.5	3.5	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rul...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Pipe	PIPE 2.0	Column	Wide Flange	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Tieback	PIPE 1.0	Beam	Pipe	A53 Gr. B	Typical	.469	.083	.083	.166
3	Mast Pipe	PIPE 4.0	Column	Wide Flange	A53 Gr. B	Typical	2.96	6.82	6.82	13.6



Hot Rolled Steel Section Sets (Continued)

	Label	Shape	Type	Design List	Material	Design Rul...	A [in ²]	Iyy [in ⁴]	Izz [in ⁴]	J [in ⁴]
4	Standoff Horizontal	PIPE 2.5	Beam	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
5	Face Horizontal	PIPE 1.5	Beam	Pipe	A53 Gr. B	Typical	.749	.293	.293	.586
6	Vertical Face Bracing	PIPE 1.0	Column	Pipe	A53 Gr. B	Typical	.469	.083	.083	.166
7	Standoff Vertical	SR 0.75	Column	BAR	A36 Gr.36	Typical	.442	.016	.016	.031
8	Face Bracing	SR 0.75	Column	BAR	A36 Gr.36	Typical	.442	.016	.016	.031
9	Standoff Plate	PL1/2x5	Beam	BAR	A36 Gr.36	Typical	2.5	.052	5.208	.195
10	Standoff Diagonal	SR 1	Column	BAR	A36 Gr.36	Typical	.785	.049	.049	.098
11	MOD V-Bracing	L2.5x2.5x4	Column	BAR	A36 Gr.36	Typical	1.19	.692	.692	.026

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N3			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
2	M3	N5	N2			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
3	M4	N2	N4			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
4	M6	N9	N11			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
5	M8	N13	N10			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
6	M9	N10	N12			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
7	M14	N6	N14			Standoff Vertical	Column	BAR	A36 Gr.36	Typical
8	M15	N7	N15			Standoff Vertical	Column	BAR	A36 Gr.36	Typical
9	M16	N15	N6			Standoff Diago...	Column	BAR	A36 Gr.36	Typical
10	M21	N28	N34			RIGID	None	None	RIGID	Typical
11	M22	N27	N33			RIGID	None	None	RIGID	Typical
12	MP1A	N37	N40			Mount Pipe	Column	Wide Flange	A53 Gr. B	Typical
13	M26	N45	N46			Vertical Face ...	Column	Pipe	A53 Gr. B	Typical
14	M27	N43	N44			Face Bracing	Column	BAR	A36 Gr.36	Typical
15	M28	N41	N42			Face Bracing	Column	BAR	A36 Gr.36	Typical
16	M29	N47	N48			Vertical Face ...	Column	Pipe	A53 Gr. B	Typical
17	M30	N43	N46			Face Bracing	Column	BAR	A36 Gr.36	Typical
18	M31	N42	N47			Face Bracing	Column	BAR	A36 Gr.36	Typical
19	M37	N33A	N35			Tieback	Beam	Pipe	A53 Gr. B	Typical
20	M34	N54	N53			Face Bracing	Column	BAR	A36 Gr.36	Typical
21	M35	N54	N43			Face Bracing	Column	BAR	A36 Gr.36	Typical
22	M33	N3	N2			RIGID	None	None	RIGID	Typical
23	M34A	N11	N10			RIGID	None	None	RIGID	Typical
24	M24	N36	N34A			Tieback	Beam	Pipe	A53 Gr. B	Typical
25	M25	N36A	N38			RIGID	None	None	RIGID	Typical
26	M26A	N35A	N37A			RIGID	None	None	RIGID	Typical
27	MP2A	N39	N40A			Mount Pipe	Column	Wide Flange	A53 Gr. B	Typical
28	M28A	N42A	N44A			RIGID	None	None	RIGID	Typical
29	M29A	N41A	N43A			RIGID	None	None	RIGID	Typical



Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
30	MP3A	N45A	N46A			Mount Pipe	Column	Wide Flange	A53 Gr. B	Typical
31	M31A	N48A	N50			RIGID	None	None	RIGID	Typical
32	M32	N47A	N49			RIGID	None	None	RIGID	Typical
33	MP4A	N51	N52			Mount Pipe	Column	Wide Flange	A53 Gr. B	Typical
34	M34B	N53A	N58		270	MOD V-Bracing	Column	BAR	A36 Gr.36	Typical
35	M35A	N53A	N56			MOD V-Bracing	Column	BAR	A36 Gr.36	Typical
36	M36	N54A	N55			MOD V-Bracing	Column	BAR	A36 Gr.36	Typical
37	M37A	N54A	N57		270	MOD V-Bracing	Column	BAR	A36 Gr.36	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes				None
2	M3						Yes				None
3	M4						Yes				None
4	M6						Yes				None
5	M8						Yes				None
6	M9						Yes	Default			None
7	M14	BenPIN	BenPIN				Yes	** NA **			None
8	M15	BenPIN	BenPIN				Yes	** NA **			None
9	M16	BenPIN	BenPIN				Yes	** NA **			None
10	M21		OOOXOO				Yes	** NA **			None
11	M22		OOOXOO				Yes	** NA **			None
12	MP1A						Yes	** NA **			None
13	M26	BenPIN	BenPIN				Yes	** NA **			None
14	M27	BenPIN	BenPIN				Yes	** NA **			None
15	M28	BenPIN	BenPIN				Yes	** NA **			None
16	M29	BenPIN	BenPIN				Yes	** NA **			None
17	M30	BenPIN	BenPIN				Yes	** NA **			None
18	M31	BenPIN	BenPIN				Yes	** NA **			None
19	M37	BenPIN					Yes	Default			None
20	M34	BenPIN	BenPIN				Yes	** NA **			None
21	M35	BenPIN	BenPIN				Yes	** NA **			None
22	M33						Yes	** NA **			None
23	M34A						Yes	** NA **			None
24	M24		BenPIN				Yes	Default			None
25	M25						Yes	** NA **			None
26	M26A						Yes	** NA **			None
27	MP2A						Yes	** NA **			None
28	M28A						Yes	** NA **			None
29	M29A						Yes	** NA **			None
30	MP3A						Yes	** NA **			None
31	M31A		OOOXOO				Yes	** NA **			None
32	M32		OOOXOO				Yes	** NA **			None
33	MP4A						Yes	** NA **			None
34	M34B	BenPIN	BenPIN				Yes	** NA **			None
35	M35A	BenPIN	BenPIN				Yes	** NA **			None
36	M36	BenPIN	BenPIN				Yes	** NA **			None
37	M37A	BenPIN	BenPIN				Yes	** NA **			None



Company : Maser Consulting
 Designer : AJH
 Job Number : Project No. 10037952
 Model Name : 469200-VZW_MT_LOT_SectorA_H

Apr 23, 2021
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 Checked By: _____

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-23	.5
2	MP2A	My	-.011	.5
3	MP2A	Mz	.015	.5
4	MP2A	Y	-23	5
5	MP2A	My	-.011	5
6	MP2A	Mz	.015	5
7	MP2A	Y	-23	.5
8	MP2A	My	-.011	.5
9	MP2A	Mz	-.015	.5
10	MP2A	Y	-23	5
11	MP2A	My	-.011	5
12	MP2A	Mz	-.015	5
13	MP4A	Y	-43.55	1.75
14	MP4A	My	-.022	1.75
15	MP4A	Mz	0	1.75
16	MP4A	Y	-43.55	3.75
17	MP4A	My	-.022	3.75
18	MP4A	Mz	0	3.75
19	M6	Y	-32	1.5
20	M6	My	0	1.5
21	M6	Mz	0	1.5
22	MP2A	Y	-84.4	3
23	MP2A	My	.042	3
24	MP2A	Mz	0	3
25	MP3A	Y	-70.3	3
26	MP3A	My	.035	3
27	MP3A	Mz	0	3
28	MP1A	Y	-9.6	.5
29	MP1A	My	-.004	.5
30	MP1A	Mz	.002	.5
31	MP1A	Y	-9.6	5
32	MP1A	My	-.004	5
33	MP1A	Mz	.002	5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-87.66	.5
2	MP2A	My	-.044	.5
3	MP2A	Mz	.058	.5
4	MP2A	Y	-87.66	5
5	MP2A	My	-.044	5
6	MP2A	Mz	.058	5
7	MP2A	Y	-87.66	.5
8	MP2A	My	-.044	.5
9	MP2A	Mz	-.058	.5
10	MP2A	Y	-87.66	5
11	MP2A	My	-.044	5
12	MP2A	Mz	-.058	5
13	MP4A	Y	-37.925	1.75
14	MP4A	My	-.019	1.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP4A	Mz	0	1.75
16	MP4A	Y	-37.925	3.75
17	MP4A	My	-.019	3.75
18	MP4A	Mz	0	3.75
19	M6	Y	-67.748	1.5
20	M6	My	0	1.5
21	M6	Mz	0	1.5
22	MP2A	Y	-47.86	3
23	MP2A	My	.024	3
24	MP2A	Mz	0	3
25	MP3A	Y	-43.061	3
26	MP3A	My	.022	3
27	MP3A	Mz	0	3
28	MP1A	Y	-53.712	.5
29	MP1A	My	-.023	.5
30	MP1A	Mz	.013	.5
31	MP1A	Y	-53.712	5
32	MP1A	My	-.023	5
33	MP1A	Mz	.013	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	-193.967	.5
3	MP2A	Mx	-.129	.5
4	MP2A	X	0	5
5	MP2A	Z	-193.967	5
6	MP2A	Mx	-.129	5
7	MP2A	X	0	.5
8	MP2A	Z	-193.967	.5
9	MP2A	Mx	.129	.5
10	MP2A	X	0	5
11	MP2A	Z	-193.967	5
12	MP2A	Mx	.129	5
13	MP4A	X	0	1.75
14	MP4A	Z	-92.365	1.75
15	MP4A	Mx	0	1.75
16	MP4A	X	0	3.75
17	MP4A	Z	-92.365	3.75
18	MP4A	Mx	0	3.75
19	M6	X	0	1.5
20	M6	Z	-84.455	1.5
21	M6	Mx	0	1.5
22	MP2A	X	0	3
23	MP2A	Z	-73.499	3
24	MP2A	Mx	0	3
25	MP3A	X	0	3
26	MP3A	Z	-73.499	3
27	MP3A	Mx	0	3
28	MP1A	X	0	.5
29	MP1A	Z	-126.83	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
30	MP1A	Mx	-.032	.5
31	MP1A	X	0	5
32	MP1A	Z	-126.83	5
33	MP1A	Mx	-.032	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	90.764	.5
2	MP2A	Z	-157.207	.5
3	MP2A	Mx	-.15	.5
4	MP2A	X	90.764	5
5	MP2A	Z	-157.207	5
6	MP2A	Mx	-.15	5
7	MP2A	X	90.764	.5
8	MP2A	Z	-157.207	.5
9	MP2A	Mx	.059	.5
10	MP2A	X	90.764	5
11	MP2A	Z	-157.207	5
12	MP2A	Mx	.059	5
13	MP4A	X	39.157	1.75
14	MP4A	Z	-67.822	1.75
15	MP4A	Mx	-.02	1.75
16	MP4A	X	39.157	3.75
17	MP4A	Z	-67.822	3.75
18	MP4A	Mx	-.02	3.75
19	M6	X	39.206	1.5
20	M6	Z	-67.907	1.5
21	M6	Mx	0	1.5
22	MP2A	X	33.704	3
23	MP2A	Z	-58.376	3
24	MP2A	Mx	.017	3
25	MP3A	X	32.537	3
26	MP3A	Z	-56.355	3
27	MP3A	Mx	.016	3
28	MP1A	X	47.571	.5
29	MP1A	Z	-82.395	.5
30	MP1A	Mx	-.041	.5
31	MP1A	X	47.571	5
32	MP1A	Z	-82.395	5
33	MP1A	Mx	-.041	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	135.66	.5
2	MP2A	Z	-78.324	.5
3	MP2A	Mx	-.12	.5
4	MP2A	X	135.66	5
5	MP2A	Z	-78.324	5
6	MP2A	Mx	-.12	5
7	MP2A	X	135.66	.5
8	MP2A	Z	-78.324	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP2A	Mx	-.016	.5
10	MP2A	X	135.66	5
11	MP2A	Z	-78.324	5
12	MP2A	Mx	-.016	5
13	MP4A	X	43.485	1.75
14	MP4A	Z	-25.106	1.75
15	MP4A	Mx	-.022	1.75
16	MP4A	X	43.485	3.75
17	MP4A	Z	-25.106	3.75
18	MP4A	Mx	-.022	3.75
19	M6	X	73.14	1.5
20	M6	Z	-42.228	1.5
21	M6	Mx	0	1.5
22	MP2A	X	47.824	3
23	MP2A	Z	-27.611	3
24	MP2A	Mx	.024	3
25	MP3A	X	41.761	3
26	MP3A	Z	-24.111	3
27	MP3A	Mx	.021	3
28	MP1A	X	68.673	.5
29	MP1A	Z	-39.648	.5
30	MP1A	Mx	-.04	.5
31	MP1A	X	68.673	5
32	MP1A	Z	-39.648	5
33	MP1A	Mx	-.04	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	144.207	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.072	.5
4	MP2A	X	144.207	5
5	MP2A	Z	0	5
6	MP2A	Mx	-.072	5
7	MP2A	X	144.207	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	-.072	.5
10	MP2A	X	144.207	5
11	MP2A	Z	0	5
12	MP2A	Mx	-.072	5
13	MP4A	X	36.161	1.75
14	MP4A	Z	0	1.75
15	MP4A	Mx	-.018	1.75
16	MP4A	X	36.161	3.75
17	MP4A	Z	0	3.75
18	MP4A	Mx	-.018	3.75
19	M6	X	96.541	1.5
20	M6	Z	0	1.5
21	M6	Mx	0	1.5
22	MP2A	X	49.13	3
23	MP2A	Z	0	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
24	MP2A	Mx	.025	3
25	MP3A	X	39.796	3
26	MP3A	Z	0	3
27	MP3A	Mx	.02	3
28	MP1A	X	95.141	.5
29	MP1A	Z	0	.5
30	MP1A	Mx	-.041	.5
31	MP1A	X	95.141	5
32	MP1A	Z	0	5
33	MP1A	Mx	-.041	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	135.66	.5
2	MP2A	Z	78.324	.5
3	MP2A	Mx	-.016	.5
4	MP2A	X	135.66	5
5	MP2A	Z	78.324	5
6	MP2A	Mx	-.016	5
7	MP2A	X	135.66	.5
8	MP2A	Z	78.324	.5
9	MP2A	Mx	-.12	.5
10	MP2A	X	135.66	5
11	MP2A	Z	78.324	5
12	MP2A	Mx	-.12	5
13	MP4A	X	43.485	1.75
14	MP4A	Z	25.106	1.75
15	MP4A	Mx	-.022	1.75
16	MP4A	X	43.485	3.75
17	MP4A	Z	25.106	3.75
18	MP4A	Mx	-.022	3.75
19	M6	X	88.841	1.5
20	M6	Z	51.292	1.5
21	M6	Mx	0	1.5
22	MP2A	X	47.824	3
23	MP2A	Z	27.611	3
24	MP2A	Mx	.024	3
25	MP3A	X	41.761	3
26	MP3A	Z	24.111	3
27	MP3A	Mx	.021	3
28	MP1A	X	109.838	.5
29	MP1A	Z	63.415	.5
30	MP1A	Mx	-.032	.5
31	MP1A	X	109.838	5
32	MP1A	Z	63.415	5
33	MP1A	Mx	-.032	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	90.764	.5
2	MP2A	Z	157.207	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP2A	Mx	.059	.5
4	MP2A	X	90.764	5
5	MP2A	Z	157.207	5
6	MP2A	Mx	.059	5
7	MP2A	X	90.764	.5
8	MP2A	Z	157.207	.5
9	MP2A	Mx	-.15	.5
10	MP2A	X	90.764	5
11	MP2A	Z	157.207	5
12	MP2A	Mx	-.15	5
13	MP4A	X	39.157	1.75
14	MP4A	Z	67.822	1.75
15	MP4A	Mx	-.02	1.75
16	MP4A	X	39.157	3.75
17	MP4A	Z	67.822	3.75
18	MP4A	Mx	-.02	3.75
19	M6	X	48.271	1.5
20	M6	Z	83.607	1.5
21	M6	Mx	0	1.5
22	MP2A	X	33.704	3
23	MP2A	Z	58.376	3
24	MP2A	Mx	.017	3
25	MP3A	X	32.537	3
26	MP3A	Z	56.355	3
27	MP3A	Mx	.016	3
28	MP1A	X	71.337	.5
29	MP1A	Z	123.56	.5
30	MP1A	Mx	0	.5
31	MP1A	X	71.337	5
32	MP1A	Z	123.56	5
33	MP1A	Mx	0	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	193.967	.5
3	MP2A	Mx	.129	.5
4	MP2A	X	0	5
5	MP2A	Z	193.967	5
6	MP2A	Mx	.129	5
7	MP2A	X	0	.5
8	MP2A	Z	193.967	.5
9	MP2A	Mx	-.129	.5
10	MP2A	X	0	5
11	MP2A	Z	193.967	5
12	MP2A	Mx	-.129	5
13	MP4A	X	0	1.75
14	MP4A	Z	92.365	1.75
15	MP4A	Mx	0	1.75
16	MP4A	X	0	3.75
17	MP4A	Z	92.365	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP4A	Mx	0	3.75
19	M6	X	0	1.5
20	M6	Z	84.455	1.5
21	M6	Mx	0	1.5
22	MP2A	X	0	3
23	MP2A	Z	73.499	3
24	MP2A	Mx	0	3
25	MP3A	X	0	3
26	MP3A	Z	73.499	3
27	MP3A	Mx	0	3
28	MP1A	X	0	.5
29	MP1A	Z	126.83	.5
30	MP1A	Mx	.032	.5
31	MP1A	X	0	5
32	MP1A	Z	126.83	5
33	MP1A	Mx	.032	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-90.764	.5
2	MP2A	Z	157.207	.5
3	MP2A	Mx	.15	.5
4	MP2A	X	-90.764	5
5	MP2A	Z	157.207	5
6	MP2A	Mx	.15	5
7	MP2A	X	-90.764	.5
8	MP2A	Z	157.207	.5
9	MP2A	Mx	-.059	.5
10	MP2A	X	-90.764	5
11	MP2A	Z	157.207	5
12	MP2A	Mx	-.059	5
13	MP4A	X	-39.157	1.75
14	MP4A	Z	67.822	1.75
15	MP4A	Mx	.02	1.75
16	MP4A	X	-39.157	3.75
17	MP4A	Z	67.822	3.75
18	MP4A	Mx	.02	3.75
19	M6	X	-39.206	1.5
20	M6	Z	67.907	1.5
21	M6	Mx	0	1.5
22	MP2A	X	-33.704	3
23	MP2A	Z	58.376	3
24	MP2A	Mx	-.017	3
25	MP3A	X	-32.537	3
26	MP3A	Z	56.355	3
27	MP3A	Mx	-.016	3
28	MP1A	X	-47.571	.5
29	MP1A	Z	82.395	.5
30	MP1A	Mx	.041	.5
31	MP1A	X	-47.571	5
32	MP1A	Z	82.395	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP1A	Mx	.041	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-135.66	.5
2	MP2A	Z	78.324	.5
3	MP2A	Mx	.12	.5
4	MP2A	X	-135.66	5
5	MP2A	Z	78.324	5
6	MP2A	Mx	.12	5
7	MP2A	X	-135.66	.5
8	MP2A	Z	78.324	.5
9	MP2A	Mx	.016	.5
10	MP2A	X	-135.66	5
11	MP2A	Z	78.324	5
12	MP2A	Mx	.016	5
13	MP4A	X	-43.485	1.75
14	MP4A	Z	25.106	1.75
15	MP4A	Mx	.022	1.75
16	MP4A	X	-43.485	3.75
17	MP4A	Z	25.106	3.75
18	MP4A	Mx	.022	3.75
19	M6	X	-73.14	1.5
20	M6	Z	42.228	1.5
21	M6	Mx	0	1.5
22	MP2A	X	-47.824	3
23	MP2A	Z	27.611	3
24	MP2A	Mx	-.024	3
25	MP3A	X	-41.761	3
26	MP3A	Z	24.111	3
27	MP3A	Mx	-.021	3
28	MP1A	X	-68.673	.5
29	MP1A	Z	39.648	.5
30	MP1A	Mx	.04	.5
31	MP1A	X	-68.673	5
32	MP1A	Z	39.648	5
33	MP1A	Mx	.04	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-144.207	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.072	.5
4	MP2A	X	-144.207	5
5	MP2A	Z	0	5
6	MP2A	Mx	.072	5
7	MP2A	X	-144.207	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	.072	.5
10	MP2A	X	-144.207	5
11	MP2A	Z	0	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP2A	Mx	.072	5
13	MP4A	X	-36.161	1.75
14	MP4A	Z	0	1.75
15	MP4A	Mx	.018	1.75
16	MP4A	X	-36.161	3.75
17	MP4A	Z	0	3.75
18	MP4A	Mx	.018	3.75
19	M6	X	-96.541	1.5
20	M6	Z	0	1.5
21	M6	Mx	0	1.5
22	MP2A	X	-49.13	3
23	MP2A	Z	0	3
24	MP2A	Mx	-.025	3
25	MP3A	X	-39.796	3
26	MP3A	Z	0	3
27	MP3A	Mx	-.02	3
28	MP1A	X	-95.141	.5
29	MP1A	Z	0	.5
30	MP1A	Mx	.041	.5
31	MP1A	X	-95.141	5
32	MP1A	Z	0	5
33	MP1A	Mx	.041	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-135.66	.5
2	MP2A	Z	-78.324	.5
3	MP2A	Mx	.016	.5
4	MP2A	X	-135.66	5
5	MP2A	Z	-78.324	5
6	MP2A	Mx	.016	5
7	MP2A	X	-135.66	.5
8	MP2A	Z	-78.324	.5
9	MP2A	Mx	.12	.5
10	MP2A	X	-135.66	5
11	MP2A	Z	-78.324	5
12	MP2A	Mx	.12	5
13	MP4A	X	-43.485	1.75
14	MP4A	Z	-25.106	1.75
15	MP4A	Mx	.022	1.75
16	MP4A	X	-43.485	3.75
17	MP4A	Z	-25.106	3.75
18	MP4A	Mx	.022	3.75
19	M6	X	-88.841	1.5
20	M6	Z	-51.292	1.5
21	M6	Mx	0	1.5
22	MP2A	X	-47.824	3
23	MP2A	Z	-27.611	3
24	MP2A	Mx	-.024	3
25	MP3A	X	-41.761	3
26	MP3A	Z	-24.111	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP3A	Mx	-.021	3
28	MP1A	X	-109.838	.5
29	MP1A	Z	-63.415	.5
30	MP1A	Mx	.032	.5
31	MP1A	X	-109.838	5
32	MP1A	Z	-63.415	5
33	MP1A	Mx	.032	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-90.764	.5
2	MP2A	Z	-157.207	.5
3	MP2A	Mx	-.059	.5
4	MP2A	X	-90.764	5
5	MP2A	Z	-157.207	5
6	MP2A	Mx	-.059	5
7	MP2A	X	-90.764	.5
8	MP2A	Z	-157.207	.5
9	MP2A	Mx	.15	.5
10	MP2A	X	-90.764	5
11	MP2A	Z	-157.207	5
12	MP2A	Mx	.15	5
13	MP4A	X	-39.157	1.75
14	MP4A	Z	-67.822	1.75
15	MP4A	Mx	.02	1.75
16	MP4A	X	-39.157	3.75
17	MP4A	Z	-67.822	3.75
18	MP4A	Mx	.02	3.75
19	M6	X	-48.271	1.5
20	M6	Z	-83.607	1.5
21	M6	Mx	0	1.5
22	MP2A	X	-33.704	3
23	MP2A	Z	-58.376	3
24	MP2A	Mx	-.017	3
25	MP3A	X	-32.537	3
26	MP3A	Z	-56.355	3
27	MP3A	Mx	-.016	3
28	MP1A	X	-71.337	.5
29	MP1A	Z	-123.56	.5
30	MP1A	Mx	0	.5
31	MP1A	X	-71.337	5
32	MP1A	Z	-123.56	5
33	MP1A	Mx	0	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	-36.904	.5
3	MP2A	Mx	-.025	.5
4	MP2A	X	0	5
5	MP2A	Z	-36.904	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP2A	Mx	-.025	5
7	MP2A	X	0	.5
8	MP2A	Z	-36.904	.5
9	MP2A	Mx	.025	.5
10	MP2A	X	0	5
11	MP2A	Z	-36.904	5
12	MP2A	Mx	.025	5
13	MP4A	X	0	1.75
14	MP4A	Z	-18.24	1.75
15	MP4A	Mx	0	1.75
16	MP4A	X	0	3.75
17	MP4A	Z	-18.24	3.75
18	MP4A	Mx	0	3.75
19	M6	X	0	1.5
20	M6	Z	-17.503	1.5
21	M6	Mx	0	1.5
22	MP2A	X	0	3
23	MP2A	Z	-15.422	3
24	MP2A	Mx	0	3
25	MP3A	X	0	3
26	MP3A	Z	-15.422	3
27	MP3A	Mx	0	3
28	MP1A	X	0	.5
29	MP1A	Z	-24.847	.5
30	MP1A	Mx	-.006	.5
31	MP1A	X	0	5
32	MP1A	Z	-24.847	5
33	MP1A	Mx	-.006	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	17.333	.5
2	MP2A	Z	-30.021	.5
3	MP2A	Mx	-.029	.5
4	MP2A	X	17.333	5
5	MP2A	Z	-30.021	5
6	MP2A	Mx	-.029	5
7	MP2A	X	17.333	.5
8	MP2A	Z	-30.021	.5
9	MP2A	Mx	.011	.5
10	MP2A	X	17.333	5
11	MP2A	Z	-30.021	5
12	MP2A	Mx	.011	5
13	MP4A	X	7.816	1.75
14	MP4A	Z	-13.537	1.75
15	MP4A	Mx	-.004	1.75
16	MP4A	X	7.816	3.75
17	MP4A	Z	-13.537	3.75
18	MP4A	Mx	-.004	3.75
19	M6	X	8.185	1.5
20	M6	Z	-14.177	1.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	M6	Mx	0	1.5
22	MP2A	X	7.127	3
23	MP2A	Z	-12.345	3
24	MP2A	Mx	.004	3
25	MP3A	X	6.905	3
26	MP3A	Z	-11.961	3
27	MP3A	Mx	.003	3
28	MP1A	X	9.619	.5
29	MP1A	Z	-16.66	.5
30	MP1A	Mx	-.008	.5
31	MP1A	X	9.619	5
32	MP1A	Z	-16.66	5
33	MP1A	Mx	-.008	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	26.143	.5
2	MP2A	Z	-15.094	.5
3	MP2A	Mx	-.023	.5
4	MP2A	X	26.143	5
5	MP2A	Z	-15.094	5
6	MP2A	Mx	-.023	5
7	MP2A	X	26.143	.5
8	MP2A	Z	-15.094	.5
9	MP2A	Mx	-.003	.5
10	MP2A	X	26.143	5
11	MP2A	Z	-15.094	5
12	MP2A	Mx	-.003	5
13	MP4A	X	9.02	1.75
14	MP4A	Z	-5.208	1.75
15	MP4A	Mx	-.005	1.75
16	MP4A	X	9.02	3.75
17	MP4A	Z	-5.208	3.75
18	MP4A	Mx	-.005	3.75
19	M6	X	15.158	1.5
20	M6	Z	-8.751	1.5
21	M6	Mx	0	1.5
22	MP2A	X	10.323	3
23	MP2A	Z	-5.96	3
24	MP2A	Mx	.005	3
25	MP3A	X	9.17	3
26	MP3A	Z	-5.294	3
27	MP3A	Mx	.005	3
28	MP1A	X	14.231	.5
29	MP1A	Z	-8.216	.5
30	MP1A	Mx	-.008	.5
31	MP1A	X	14.231	5
32	MP1A	Z	-8.216	5
33	MP1A	Mx	-.008	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	27.948	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.014	.5
4	MP2A	X	27.948	5
5	MP2A	Z	0	5
6	MP2A	Mx	-.014	5
7	MP2A	X	27.948	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	-.014	.5
10	MP2A	X	27.948	5
11	MP2A	Z	0	5
12	MP2A	Mx	-.014	5
13	MP4A	X	7.808	1.75
14	MP4A	Z	0	1.75
15	MP4A	Mx	-.004	1.75
16	MP4A	X	7.808	3.75
17	MP4A	Z	0	3.75
18	MP4A	Mx	-.004	3.75
19	M6	X	19.768	1.5
20	M6	Z	0	1.5
21	M6	Mx	0	1.5
22	MP2A	X	10.752	3
23	MP2A	Z	0	3
24	MP2A	Mx	.005	3
25	MP3A	X	8.978	3
26	MP3A	Z	0	3
27	MP3A	Mx	.004	3
28	MP1A	X	19.237	.5
29	MP1A	Z	0	.5
30	MP1A	Mx	-.008	.5
31	MP1A	X	19.237	5
32	MP1A	Z	0	5
33	MP1A	Mx	-.008	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	26.143	.5
2	MP2A	Z	15.094	.5
3	MP2A	Mx	-.003	.5
4	MP2A	X	26.143	5
5	MP2A	Z	15.094	5
6	MP2A	Mx	-.003	5
7	MP2A	X	26.143	.5
8	MP2A	Z	15.094	.5
9	MP2A	Mx	-.023	.5
10	MP2A	X	26.143	5
11	MP2A	Z	15.094	5
12	MP2A	Mx	-.023	5
13	MP4A	X	9.02	1.75
14	MP4A	Z	5.208	1.75
15	MP4A	Mx	-.005	1.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP4A	X	9.02	3.75
17	MP4A	Z	5.208	3.75
18	MP4A	Mx	-.005	3.75
19	M6	X	18.1	1.5
20	M6	Z	10.45	1.5
21	M6	Mx	0	1.5
22	MP2A	X	10.323	3
23	MP2A	Z	5.96	3
24	MP2A	Mx	.005	3
25	MP3A	X	9.17	3
26	MP3A	Z	5.294	3
27	MP3A	Mx	.005	3
28	MP1A	X	21.518	.5
29	MP1A	Z	12.424	.5
30	MP1A	Mx	-.006	.5
31	MP1A	X	21.518	5
32	MP1A	Z	12.424	5
33	MP1A	Mx	-.006	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	17.333	.5
2	MP2A	Z	30.021	.5
3	MP2A	Mx	.011	.5
4	MP2A	X	17.333	5
5	MP2A	Z	30.021	5
6	MP2A	Mx	.011	5
7	MP2A	X	17.333	.5
8	MP2A	Z	30.021	.5
9	MP2A	Mx	-.029	.5
10	MP2A	X	17.333	5
11	MP2A	Z	30.021	5
12	MP2A	Mx	-.029	5
13	MP4A	X	7.816	1.75
14	MP4A	Z	13.537	1.75
15	MP4A	Mx	-.004	1.75
16	MP4A	X	7.816	3.75
17	MP4A	Z	13.537	3.75
18	MP4A	Mx	-.004	3.75
19	M6	X	9.884	1.5
20	M6	Z	17.119	1.5
21	M6	Mx	0	1.5
22	MP2A	X	7.127	3
23	MP2A	Z	12.345	3
24	MP2A	Mx	.004	3
25	MP3A	X	6.905	3
26	MP3A	Z	11.961	3
27	MP3A	Mx	.003	3
28	MP1A	X	13.826	.5
29	MP1A	Z	23.948	.5
30	MP1A	Mx	0	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP1A	X	13.826	5
32	MP1A	Z	23.948	5
33	MP1A	Mx	0	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	36.904	.5
3	MP2A	Mx	.025	.5
4	MP2A	X	0	5
5	MP2A	Z	36.904	5
6	MP2A	Mx	.025	5
7	MP2A	X	0	.5
8	MP2A	Z	36.904	.5
9	MP2A	Mx	-.025	.5
10	MP2A	X	0	5
11	MP2A	Z	36.904	5
12	MP2A	Mx	-.025	5
13	MP4A	X	0	1.75
14	MP4A	Z	18.24	1.75
15	MP4A	Mx	0	1.75
16	MP4A	X	0	3.75
17	MP4A	Z	18.24	3.75
18	MP4A	Mx	0	3.75
19	M6	X	0	1.5
20	M6	Z	17.503	1.5
21	M6	Mx	0	1.5
22	MP2A	X	0	3
23	MP2A	Z	15.422	3
24	MP2A	Mx	0	3
25	MP3A	X	0	3
26	MP3A	Z	15.422	3
27	MP3A	Mx	0	3
28	MP1A	X	0	.5
29	MP1A	Z	24.847	.5
30	MP1A	Mx	.006	.5
31	MP1A	X	0	5
32	MP1A	Z	24.847	5
33	MP1A	Mx	.006	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-17.333	.5
2	MP2A	Z	30.021	.5
3	MP2A	Mx	.029	.5
4	MP2A	X	-17.333	5
5	MP2A	Z	30.021	5
6	MP2A	Mx	.029	5
7	MP2A	X	-17.333	.5
8	MP2A	Z	30.021	.5
9	MP2A	Mx	-.011	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP2A	X	-17.333	5
11	MP2A	Z	30.021	5
12	MP2A	Mx	-.011	5
13	MP4A	X	-7.816	1.75
14	MP4A	Z	13.537	1.75
15	MP4A	Mx	.004	1.75
16	MP4A	X	-7.816	3.75
17	MP4A	Z	13.537	3.75
18	MP4A	Mx	.004	3.75
19	M6	X	-8.185	1.5
20	M6	Z	14.177	1.5
21	M6	Mx	0	1.5
22	MP2A	X	-7.127	3
23	MP2A	Z	12.345	3
24	MP2A	Mx	-.004	3
25	MP3A	X	-6.905	3
26	MP3A	Z	11.961	3
27	MP3A	Mx	-.003	3
28	MP1A	X	-9.619	.5
29	MP1A	Z	16.66	.5
30	MP1A	Mx	.008	.5
31	MP1A	X	-9.619	5
32	MP1A	Z	16.66	5
33	MP1A	Mx	.008	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-26.143	.5
2	MP2A	Z	15.094	.5
3	MP2A	Mx	.023	.5
4	MP2A	X	-26.143	5
5	MP2A	Z	15.094	5
6	MP2A	Mx	.023	5
7	MP2A	X	-26.143	.5
8	MP2A	Z	15.094	.5
9	MP2A	Mx	.003	.5
10	MP2A	X	-26.143	5
11	MP2A	Z	15.094	5
12	MP2A	Mx	.003	5
13	MP4A	X	-9.02	1.75
14	MP4A	Z	5.208	1.75
15	MP4A	Mx	.005	1.75
16	MP4A	X	-9.02	3.75
17	MP4A	Z	5.208	3.75
18	MP4A	Mx	.005	3.75
19	M6	X	-15.158	1.5
20	M6	Z	8.751	1.5
21	M6	Mx	0	1.5
22	MP2A	X	-10.323	3
23	MP2A	Z	5.96	3
24	MP2A	Mx	-.005	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP3A	X	-9.17	3
26	MP3A	Z	5.294	3
27	MP3A	Mx	-.005	3
28	MP1A	X	-14.231	.5
29	MP1A	Z	8.216	.5
30	MP1A	Mx	.008	.5
31	MP1A	X	-14.231	5
32	MP1A	Z	8.216	5
33	MP1A	Mx	.008	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-27.948	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.014	.5
4	MP2A	X	-27.948	5
5	MP2A	Z	0	5
6	MP2A	Mx	.014	5
7	MP2A	X	-27.948	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	.014	.5
10	MP2A	X	-27.948	5
11	MP2A	Z	0	5
12	MP2A	Mx	.014	5
13	MP4A	X	-7.808	1.75
14	MP4A	Z	0	1.75
15	MP4A	Mx	.004	1.75
16	MP4A	X	-7.808	3.75
17	MP4A	Z	0	3.75
18	MP4A	Mx	.004	3.75
19	M6	X	-19.768	1.5
20	M6	Z	0	1.5
21	M6	Mx	0	1.5
22	MP2A	X	-10.752	3
23	MP2A	Z	0	3
24	MP2A	Mx	-.005	3
25	MP3A	X	-8.978	3
26	MP3A	Z	0	3
27	MP3A	Mx	-.004	3
28	MP1A	X	-19.237	.5
29	MP1A	Z	0	.5
30	MP1A	Mx	.008	.5
31	MP1A	X	-19.237	5
32	MP1A	Z	0	5
33	MP1A	Mx	.008	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-26.143	.5
2	MP2A	Z	-15.094	.5
3	MP2A	Mx	.003	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP2A	X	-26.143	5
5	MP2A	Z	-15.094	5
6	MP2A	Mx	.003	5
7	MP2A	X	-26.143	.5
8	MP2A	Z	-15.094	.5
9	MP2A	Mx	.023	.5
10	MP2A	X	-26.143	5
11	MP2A	Z	-15.094	5
12	MP2A	Mx	.023	5
13	MP4A	X	-9.02	1.75
14	MP4A	Z	-5.208	1.75
15	MP4A	Mx	.005	1.75
16	MP4A	X	-9.02	3.75
17	MP4A	Z	-5.208	3.75
18	MP4A	Mx	.005	3.75
19	M6	X	-18.1	1.5
20	M6	Z	-10.45	1.5
21	M6	Mx	0	1.5
22	MP2A	X	-10.323	3
23	MP2A	Z	-5.96	3
24	MP2A	Mx	-.005	3
25	MP3A	X	-9.17	3
26	MP3A	Z	-5.294	3
27	MP3A	Mx	-.005	3
28	MP1A	X	-21.518	.5
29	MP1A	Z	-12.424	.5
30	MP1A	Mx	.006	.5
31	MP1A	X	-21.518	5
32	MP1A	Z	-12.424	5
33	MP1A	Mx	.006	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-17.333	.5
2	MP2A	Z	-30.021	.5
3	MP2A	Mx	-.011	.5
4	MP2A	X	-17.333	5
5	MP2A	Z	-30.021	5
6	MP2A	Mx	-.011	5
7	MP2A	X	-17.333	.5
8	MP2A	Z	-30.021	.5
9	MP2A	Mx	.029	.5
10	MP2A	X	-17.333	5
11	MP2A	Z	-30.021	5
12	MP2A	Mx	.029	5
13	MP4A	X	-7.816	1.75
14	MP4A	Z	-13.537	1.75
15	MP4A	Mx	.004	1.75
16	MP4A	X	-7.816	3.75
17	MP4A	Z	-13.537	3.75
18	MP4A	Mx	.004	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	M6	X	-9.884	1.5
20	M6	Z	-17.119	1.5
21	M6	Mx	0	1.5
22	MP2A	X	-7.127	3
23	MP2A	Z	-12.345	3
24	MP2A	Mx	-.004	3
25	MP3A	X	-6.905	3
26	MP3A	Z	-11.961	3
27	MP3A	Mx	-.003	3
28	MP1A	X	-13.826	.5
29	MP1A	Z	-23.948	.5
30	MP1A	Mx	0	.5
31	MP1A	X	-13.826	5
32	MP1A	Z	-23.948	5
33	MP1A	Mx	0	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	-12.123	.5
3	MP2A	Mx	-.008	.5
4	MP2A	X	0	5
5	MP2A	Z	-12.123	5
6	MP2A	Mx	-.008	5
7	MP2A	X	0	.5
8	MP2A	Z	-12.123	.5
9	MP2A	Mx	.008	.5
10	MP2A	X	0	5
11	MP2A	Z	-12.123	5
12	MP2A	Mx	.008	5
13	MP4A	X	0	1.75
14	MP4A	Z	-5.773	1.75
15	MP4A	Mx	0	1.75
16	MP4A	X	0	3.75
17	MP4A	Z	-5.773	3.75
18	MP4A	Mx	0	3.75
19	M6	X	0	1.5
20	M6	Z	-5.278	1.5
21	M6	Mx	0	1.5
22	MP2A	X	0	3
23	MP2A	Z	-4.594	3
24	MP2A	Mx	0	3
25	MP3A	X	0	3
26	MP3A	Z	-4.594	3
27	MP3A	Mx	0	3
28	MP1A	X	0	.5
29	MP1A	Z	-7.927	.5
30	MP1A	Mx	-.002	.5
31	MP1A	X	0	5
32	MP1A	Z	-7.927	5
33	MP1A	Mx	-.002	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	5.673	.5
2	MP2A	Z	-9.825	.5
3	MP2A	Mx	-.009	.5
4	MP2A	X	5.673	5
5	MP2A	Z	-9.825	5
6	MP2A	Mx	-.009	5
7	MP2A	X	5.673	.5
8	MP2A	Z	-9.825	.5
9	MP2A	Mx	.004	.5
10	MP2A	X	5.673	5
11	MP2A	Z	-9.825	5
12	MP2A	Mx	.004	5
13	MP4A	X	2.447	1.75
14	MP4A	Z	-4.239	1.75
15	MP4A	Mx	-.001	1.75
16	MP4A	X	2.447	3.75
17	MP4A	Z	-4.239	3.75
18	MP4A	Mx	-.001	3.75
19	M6	X	2.45	1.5
20	M6	Z	-4.244	1.5
21	M6	Mx	0	1.5
22	MP2A	X	2.106	3
23	MP2A	Z	-3.649	3
24	MP2A	Mx	.001	3
25	MP3A	X	2.034	3
26	MP3A	Z	-3.522	3
27	MP3A	Mx	.001	3
28	MP1A	X	2.973	.5
29	MP1A	Z	-5.15	.5
30	MP1A	Mx	-.003	.5
31	MP1A	X	2.973	5
32	MP1A	Z	-5.15	5
33	MP1A	Mx	-.003	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	8.479	.5
2	MP2A	Z	-4.895	.5
3	MP2A	Mx	-.008	.5
4	MP2A	X	8.479	5
5	MP2A	Z	-4.895	5
6	MP2A	Mx	-.008	5
7	MP2A	X	8.479	.5
8	MP2A	Z	-4.895	.5
9	MP2A	Mx	-.000976	.5
10	MP2A	X	8.479	5
11	MP2A	Z	-4.895	5
12	MP2A	Mx	-.000976	5
13	MP4A	X	2.718	1.75
14	MP4A	Z	-1.569	1.75
15	MP4A	Mx	-.001	1.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP4A	X	2.718	3.75
17	MP4A	Z	-1.569	3.75
18	MP4A	Mx	-.001	3.75
19	M6	X	4.571	1.5
20	M6	Z	-2.639	1.5
21	M6	Mx	0	1.5
22	MP2A	X	2.989	3
23	MP2A	Z	-1.726	3
24	MP2A	Mx	.001	3
25	MP3A	X	2.61	3
26	MP3A	Z	-1.507	3
27	MP3A	Mx	.001	3
28	MP1A	X	4.292	.5
29	MP1A	Z	-2.478	.5
30	MP1A	Mx	-.002	.5
31	MP1A	X	4.292	5
32	MP1A	Z	-2.478	5
33	MP1A	Mx	-.002	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	9.013	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.005	.5
4	MP2A	X	9.013	5
5	MP2A	Z	0	5
6	MP2A	Mx	-.005	5
7	MP2A	X	9.013	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	-.005	.5
10	MP2A	X	9.013	5
11	MP2A	Z	0	5
12	MP2A	Mx	-.005	5
13	MP4A	X	2.26	1.75
14	MP4A	Z	0	1.75
15	MP4A	Mx	-.001	1.75
16	MP4A	X	2.26	3.75
17	MP4A	Z	0	3.75
18	MP4A	Mx	-.001	3.75
19	M6	X	6.034	1.5
20	M6	Z	0	1.5
21	M6	Mx	0	1.5
22	MP2A	X	3.071	3
23	MP2A	Z	0	3
24	MP2A	Mx	.002	3
25	MP3A	X	2.487	3
26	MP3A	Z	0	3
27	MP3A	Mx	.001	3
28	MP1A	X	5.946	.5
29	MP1A	Z	0	.5
30	MP1A	Mx	-.003	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP1A	X	5.946	5
32	MP1A	Z	0	5
33	MP1A	Mx	-.003	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	8.479	.5
2	MP2A	Z	4.895	.5
3	MP2A	Mx	-.000976	.5
4	MP2A	X	8.479	5
5	MP2A	Z	4.895	5
6	MP2A	Mx	-.000976	5
7	MP2A	X	8.479	.5
8	MP2A	Z	4.895	.5
9	MP2A	Mx	-.008	.5
10	MP2A	X	8.479	5
11	MP2A	Z	4.895	5
12	MP2A	Mx	-.008	5
13	MP4A	X	2.718	1.75
14	MP4A	Z	1.569	1.75
15	MP4A	Mx	-.001	1.75
16	MP4A	X	2.718	3.75
17	MP4A	Z	1.569	3.75
18	MP4A	Mx	-.001	3.75
19	M6	X	5.553	1.5
20	M6	Z	3.206	1.5
21	M6	Mx	0	1.5
22	MP2A	X	2.989	3
23	MP2A	Z	1.726	3
24	MP2A	Mx	.001	3
25	MP3A	X	2.61	3
26	MP3A	Z	1.507	3
27	MP3A	Mx	.001	3
28	MP1A	X	6.865	.5
29	MP1A	Z	3.963	.5
30	MP1A	Mx	-.002	.5
31	MP1A	X	6.865	5
32	MP1A	Z	3.963	5
33	MP1A	Mx	-.002	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	5.673	.5
2	MP2A	Z	9.825	.5
3	MP2A	Mx	.004	.5
4	MP2A	X	5.673	5
5	MP2A	Z	9.825	5
6	MP2A	Mx	.004	5
7	MP2A	X	5.673	.5
8	MP2A	Z	9.825	.5
9	MP2A	Mx	-.009	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP2A	X	5.673	5
11	MP2A	Z	9.825	5
12	MP2A	Mx	-.009	5
13	MP4A	X	2.447	1.75
14	MP4A	Z	4.239	1.75
15	MP4A	Mx	-.001	1.75
16	MP4A	X	2.447	3.75
17	MP4A	Z	4.239	3.75
18	MP4A	Mx	-.001	3.75
19	M6	X	3.017	1.5
20	M6	Z	5.225	1.5
21	M6	Mx	0	1.5
22	MP2A	X	2.106	3
23	MP2A	Z	3.649	3
24	MP2A	Mx	.001	3
25	MP3A	X	2.034	3
26	MP3A	Z	3.522	3
27	MP3A	Mx	.001	3
28	MP1A	X	4.459	.5
29	MP1A	Z	7.723	.5
30	MP1A	Mx	0	.5
31	MP1A	X	4.459	5
32	MP1A	Z	7.723	5
33	MP1A	Mx	0	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	12.123	.5
3	MP2A	Mx	.008	.5
4	MP2A	X	0	5
5	MP2A	Z	12.123	5
6	MP2A	Mx	.008	5
7	MP2A	X	0	.5
8	MP2A	Z	12.123	.5
9	MP2A	Mx	-.008	.5
10	MP2A	X	0	5
11	MP2A	Z	12.123	5
12	MP2A	Mx	-.008	5
13	MP4A	X	0	1.75
14	MP4A	Z	5.773	1.75
15	MP4A	Mx	0	1.75
16	MP4A	X	0	3.75
17	MP4A	Z	5.773	3.75
18	MP4A	Mx	0	3.75
19	M6	X	0	1.5
20	M6	Z	5.278	1.5
21	M6	Mx	0	1.5
22	MP2A	X	0	3
23	MP2A	Z	4.594	3
24	MP2A	Mx	0	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP3A	X	0	3
26	MP3A	Z	4.594	3
27	MP3A	Mx	0	3
28	MP1A	X	0	.5
29	MP1A	Z	7.927	.5
30	MP1A	Mx	.002	.5
31	MP1A	X	0	5
32	MP1A	Z	7.927	5
33	MP1A	Mx	.002	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-5.673	.5
2	MP2A	Z	9.825	.5
3	MP2A	Mx	.009	.5
4	MP2A	X	-5.673	5
5	MP2A	Z	9.825	5
6	MP2A	Mx	.009	5
7	MP2A	X	-5.673	.5
8	MP2A	Z	9.825	.5
9	MP2A	Mx	-.004	.5
10	MP2A	X	-5.673	5
11	MP2A	Z	9.825	5
12	MP2A	Mx	-.004	5
13	MP4A	X	-2.447	1.75
14	MP4A	Z	4.239	1.75
15	MP4A	Mx	.001	1.75
16	MP4A	X	-2.447	3.75
17	MP4A	Z	4.239	3.75
18	MP4A	Mx	.001	3.75
19	M6	X	-2.45	1.5
20	M6	Z	4.244	1.5
21	M6	Mx	0	1.5
22	MP2A	X	-2.106	3
23	MP2A	Z	3.649	3
24	MP2A	Mx	-.001	3
25	MP3A	X	-2.034	3
26	MP3A	Z	3.522	3
27	MP3A	Mx	-.001	3
28	MP1A	X	-2.973	.5
29	MP1A	Z	5.15	.5
30	MP1A	Mx	.003	.5
31	MP1A	X	-2.973	5
32	MP1A	Z	5.15	5
33	MP1A	Mx	.003	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-8.479	.5
2	MP2A	Z	4.895	.5
3	MP2A	Mx	.008	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP2A	X	-8.479	5
5	MP2A	Z	4.895	5
6	MP2A	Mx	.008	5
7	MP2A	X	-8.479	.5
8	MP2A	Z	4.895	.5
9	MP2A	Mx	.000976	.5
10	MP2A	X	-8.479	5
11	MP2A	Z	4.895	5
12	MP2A	Mx	.000976	5
13	MP4A	X	-2.718	1.75
14	MP4A	Z	1.569	1.75
15	MP4A	Mx	.001	1.75
16	MP4A	X	-2.718	3.75
17	MP4A	Z	1.569	3.75
18	MP4A	Mx	.001	3.75
19	M6	X	-4.571	1.5
20	M6	Z	2.639	1.5
21	M6	Mx	0	1.5
22	MP2A	X	-2.989	3
23	MP2A	Z	1.726	3
24	MP2A	Mx	-.001	3
25	MP3A	X	-2.61	3
26	MP3A	Z	1.507	3
27	MP3A	Mx	-.001	3
28	MP1A	X	-4.292	.5
29	MP1A	Z	2.478	.5
30	MP1A	Mx	.002	.5
31	MP1A	X	-4.292	5
32	MP1A	Z	2.478	5
33	MP1A	Mx	.002	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-9.013	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.005	.5
4	MP2A	X	-9.013	5
5	MP2A	Z	0	5
6	MP2A	Mx	.005	5
7	MP2A	X	-9.013	.5
8	MP2A	Z	0	.5
9	MP2A	Mx	.005	.5
10	MP2A	X	-9.013	5
11	MP2A	Z	0	5
12	MP2A	Mx	.005	5
13	MP4A	X	-2.26	1.75
14	MP4A	Z	0	1.75
15	MP4A	Mx	.001	1.75
16	MP4A	X	-2.26	3.75
17	MP4A	Z	0	3.75
18	MP4A	Mx	.001	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	M6	X	-6.034	1.5
20	M6	Z	0	1.5
21	M6	Mx	0	1.5
22	MP2A	X	-3.071	3
23	MP2A	Z	0	3
24	MP2A	Mx	-.002	3
25	MP3A	X	-2.487	3
26	MP3A	Z	0	3
27	MP3A	Mx	-.001	3
28	MP1A	X	-5.946	.5
29	MP1A	Z	0	.5
30	MP1A	Mx	.003	.5
31	MP1A	X	-5.946	5
32	MP1A	Z	0	5
33	MP1A	Mx	.003	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-8.479	.5
2	MP2A	Z	-4.895	.5
3	MP2A	Mx	.000976	.5
4	MP2A	X	-8.479	5
5	MP2A	Z	-4.895	5
6	MP2A	Mx	.000976	5
7	MP2A	X	-8.479	.5
8	MP2A	Z	-4.895	.5
9	MP2A	Mx	.008	.5
10	MP2A	X	-8.479	5
11	MP2A	Z	-4.895	5
12	MP2A	Mx	.008	5
13	MP4A	X	-2.718	1.75
14	MP4A	Z	-1.569	1.75
15	MP4A	Mx	.001	1.75
16	MP4A	X	-2.718	3.75
17	MP4A	Z	-1.569	3.75
18	MP4A	Mx	.001	3.75
19	M6	X	-5.553	1.5
20	M6	Z	-3.206	1.5
21	M6	Mx	0	1.5
22	MP2A	X	-2.989	3
23	MP2A	Z	-1.726	3
24	MP2A	Mx	-.001	3
25	MP3A	X	-2.61	3
26	MP3A	Z	-1.507	3
27	MP3A	Mx	-.001	3
28	MP1A	X	-6.865	.5
29	MP1A	Z	-3.963	.5
30	MP1A	Mx	.002	.5
31	MP1A	X	-6.865	5
32	MP1A	Z	-3.963	5
33	MP1A	Mx	.002	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-5.673	.5
2	MP2A	Z	-9.825	.5
3	MP2A	Mx	-.004	.5
4	MP2A	X	-5.673	5
5	MP2A	Z	-9.825	5
6	MP2A	Mx	-.004	5
7	MP2A	X	-5.673	.5
8	MP2A	Z	-9.825	.5
9	MP2A	Mx	.009	.5
10	MP2A	X	-5.673	5
11	MP2A	Z	-9.825	5
12	MP2A	Mx	.009	5
13	MP4A	X	-2.447	1.75
14	MP4A	Z	-4.239	1.75
15	MP4A	Mx	.001	1.75
16	MP4A	X	-2.447	3.75
17	MP4A	Z	-4.239	3.75
18	MP4A	Mx	.001	3.75
19	M6	X	-3.017	1.5
20	M6	Z	-5.225	1.5
21	M6	Mx	0	1.5
22	MP2A	X	-2.106	3
23	MP2A	Z	-3.649	3
24	MP2A	Mx	-.001	3
25	MP3A	X	-2.034	3
26	MP3A	Z	-3.522	3
27	MP3A	Mx	-.001	3
28	MP1A	X	-4.459	.5
29	MP1A	Z	-7.723	.5
30	MP1A	Mx	0	.5
31	MP1A	X	-4.459	5
32	MP1A	Z	-7.723	5
33	MP1A	Mx	0	5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M4	Y	-500	%69

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M3	Y	-500	%66

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M3	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M3	Y	-250	%100



Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	Y	-6.109	-6.109	0	% 100
2	M3	Y	-4.655	-4.655	0	% 100
3	M4	Y	-4.655	-4.655	0	% 100
4	M6	Y	-6.109	-6.109	0	% 100
5	M8	Y	-4.655	-4.655	0	% 100
6	M9	Y	-4.655	-4.655	0	% 100
7	M14	Y	-2.94	-2.94	0	% 100
8	M15	Y	-2.94	-2.94	0	% 100
9	M16	Y	-3.313	-3.313	0	% 100
10	MP1A	Y	-5.363	-5.363	0	% 100
11	M26	Y	-3.782	-3.782	0	% 100
12	M27	Y	-2.94	-2.94	0	% 100
13	M28	Y	-2.94	-2.94	0	% 100
14	M29	Y	-3.782	-3.782	0	% 100
15	M30	Y	-2.94	-2.94	0	% 100
16	M31	Y	-2.94	-2.94	0	% 100
17	M37	Y	-3.782	-3.782	0	% 100
18	M34	Y	-2.94	-2.94	0	% 100
19	M35	Y	-2.94	-2.94	0	% 100
20	M24	Y	-3.782	-3.782	0	% 100
21	MP2A	Y	-5.363	-5.363	0	% 100
22	MP3A	Y	-5.363	-5.363	0	% 100
23	MP4A	Y	-5.363	-5.363	0	% 100
24	M34B	Y	-7.094	-7.094	0	% 100
25	M35A	Y	-7.094	-7.094	0	% 100
26	M36	Y	-7.094	-7.094	0	% 100
27	M37A	Y	-7.094	-7.094	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	0	0	0	% 100
3	M3	X	0	0	0	% 100
4	M3	Z	-7.468	-7.468	0	% 100
5	M4	X	0	0	0	% 100
6	M4	Z	-7.468	-7.468	0	% 100
7	M6	X	0	0	0	% 100
8	M6	Z	0	0	0	% 100
9	M8	X	0	0	0	% 100
10	M8	Z	-7.468	-7.468	0	% 100
11	M9	X	0	0	0	% 100
12	M9	Z	-7.468	-7.468	0	% 100
13	M14	X	0	0	0	% 100
14	M14	Z	-2.948	-2.948	0	% 100
15	M15	X	0	0	0	% 100
16	M15	Z	-2.948	-2.948	0	% 100
17	M16	X	0	0	0	% 100
18	M16	Z	-3.06	-3.06	0	% 100
19	MP1A	X	0	0	0	% 100
20	MP1A	Z	-9.335	-9.335	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,%]
21	M26	X	0	0	0	%100
22	M26	Z	-4.959	-4.959	0	%100
23	M27	X	0	0	0	%100
24	M27	Z	-2.948	-2.948	0	%100
25	M28	X	0	0	0	%100
26	M28	Z	-2.948	-2.948	0	%100
27	M29	X	0	0	0	%100
28	M29	Z	-4.959	-4.959	0	%100
29	M30	X	0	0	0	%100
30	M30	Z	-2.948	-2.948	0	%100
31	M31	X	0	0	0	%100
32	M31	Z	-2.948	-2.948	0	%100
33	M37	X	0	0	0	%100
34	M37	Z	-2.024	-2.024	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	-2.948	-2.948	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	-2.948	-2.948	0	%100
39	M24	X	0	0	0	%100
40	M24	Z	-1.386	-1.386	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-9.335	-9.335	0	%100
43	MP3A	X	0	0	0	%100
44	MP3A	Z	-9.335	-9.335	0	%100
45	MP4A	X	0	0	0	%100
46	MP4A	Z	-9.335	-9.335	0	%100
47	M34B	X	0	0	0	%100
48	M34B	Z	-10.018	-10.018	0	%100
49	M35A	X	0	0	0	%100
50	M35A	Z	-10.018	-10.018	0	%100
51	M36	X	0	0	0	%100
52	M36	Z	-10.018	-10.018	0	%100
53	M37A	X	0	0	0	%100
54	M37A	Z	-10.018	-10.018	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	1.006	1.006	0	%100
2	M1	Z	-1.743	-1.743	0	%100
3	M3	X	2.8	2.8	0	%100
4	M3	Z	-4.851	-4.851	0	%100
5	M4	X	2.8	2.8	0	%100
6	M4	Z	-4.851	-4.851	0	%100
7	M6	X	1.006	1.006	0	%100
8	M6	Z	-1.743	-1.743	0	%100
9	M8	X	2.8	2.8	0	%100
10	M8	Z	-4.851	-4.851	0	%100
11	M9	X	2.8	2.8	0	%100
12	M9	Z	-4.851	-4.851	0	%100
13	M14	X	1.474	1.474	0	%100
14	M14	Z	-2.553	-2.553	0	%100



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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, %]
15	M15	X	1.474	1.474	0	% 100
16	M15	Z	-2.553	-2.553	0	% 100
17	M16	X	1.639	1.639	0	% 100
18	M16	Z	-2.839	-2.839	0	% 100
19	MP1A	X	4.667	4.667	0	% 100
20	MP1A	Z	-8.084	-8.084	0	% 100
21	M26	X	2.48	2.48	0	% 100
22	M26	Z	-4.295	-4.295	0	% 100
23	M27	X	1.474	1.474	0	% 100
24	M27	Z	-2.553	-2.553	0	% 100
25	M28	X	1.474	1.474	0	% 100
26	M28	Z	-2.553	-2.553	0	% 100
27	M29	X	2.48	2.48	0	% 100
28	M29	Z	-4.295	-4.295	0	% 100
29	M30	X	1.312	1.312	0	% 100
30	M30	Z	-2.272	-2.272	0	% 100
31	M31	X	1.234	1.234	0	% 100
32	M31	Z	-2.137	-2.137	0	% 100
33	M37	X	2.245	2.245	0	% 100
34	M37	Z	-3.888	-3.888	0	% 100
35	M34	X	1.474	1.474	0	% 100
36	M34	Z	-2.553	-2.553	0	% 100
37	M35	X	1.312	1.312	0	% 100
38	M35	Z	-2.272	-2.272	0	% 100
39	M24	X	.001	.001	0	% 100
40	M24	Z	-.002	-.002	0	% 100
41	MP2A	X	4.667	4.667	0	% 100
42	MP2A	Z	-8.084	-8.084	0	% 100
43	MP3A	X	4.667	4.667	0	% 100
44	MP3A	Z	-8.084	-8.084	0	% 100
45	MP4A	X	4.667	4.667	0	% 100
46	MP4A	Z	-8.084	-8.084	0	% 100
47	M34B	X	2.168	2.168	0	% 100
48	M34B	Z	-3.755	-3.755	0	% 100
49	M35A	X	7.465	7.465	0	% 100
50	M35A	Z	-12.93	-12.93	0	% 100
51	M36	X	7.465	7.465	0	% 100
52	M36	Z	-12.93	-12.93	0	% 100
53	M37A	X	2.168	2.168	0	% 100
54	M37A	Z	-3.755	-3.755	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	5.23	5.23	0	% 100
2	M1	Z	-3.019	-3.019	0	% 100
3	M3	X	1.617	1.617	0	% 100
4	M3	Z	-.933	-.933	0	% 100
5	M4	X	1.617	1.617	0	% 100
6	M4	Z	-.933	-.933	0	% 100
7	M6	X	5.23	5.23	0	% 100
8	M6	Z	-3.019	-3.019	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, %]
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100
7	M6	X	8.052	8.052	0	%100
8	M6	Z	0	0	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	0	0	0	%100
13	M14	X	2.948	2.948	0	%100
14	M14	Z	0	0	0	%100
15	M15	X	2.948	2.948	0	%100
16	M15	Z	0	0	0	%100
17	M16	X	3.93	3.93	0	%100
18	M16	Z	0	0	0	%100
19	MP1A	X	9.335	9.335	0	%100
20	MP1A	Z	0	0	0	%100
21	M26	X	4.959	4.959	0	%100
22	M26	Z	0	0	0	%100
23	M27	X	2.948	2.948	0	%100
24	M27	Z	0	0	0	%100
25	M28	X	2.948	2.948	0	%100
26	M28	Z	0	0	0	%100
27	M29	X	4.959	4.959	0	%100
28	M29	Z	0	0	0	%100
29	M30	X	1.649	1.649	0	%100
30	M30	Z	0	0	0	%100
31	M31	X	1.028	1.028	0	%100
32	M31	Z	0	0	0	%100
33	M37	X	3.144	3.144	0	%100
34	M37	Z	0	0	0	%100
35	M34	X	2.948	2.948	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	1.649	1.649	0	%100
38	M35	Z	0	0	0	%100
39	M24	X	3.783	3.783	0	%100
40	M24	Z	0	0	0	%100
41	MP2A	X	9.335	9.335	0	%100
42	MP2A	Z	0	0	0	%100
43	MP3A	X	9.335	9.335	0	%100
44	MP3A	Z	0	0	0	%100
45	MP4A	X	9.335	9.335	0	%100
46	MP4A	Z	0	0	0	%100
47	M34B	X	8.477	8.477	0	%100
48	M34B	Z	0	0	0	%100
49	M35A	X	8.477	8.477	0	%100
50	M35A	Z	0	0	0	%100
51	M36	X	8.477	8.477	0	%100
52	M36	Z	0	0	0	%100
53	M37A	X	8.477	8.477	0	%100
54	M37A	Z	0	0	0	%100



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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	5.23	5.23	0	%100
2	M1	Z	3.019	3.019	0	%100
3	M3	X	1.617	1.617	0	%100
4	M3	Z	.933	.933	0	%100
5	M4	X	1.617	1.617	0	%100
6	M4	Z	.933	.933	0	%100
7	M6	X	5.23	5.23	0	%100
8	M6	Z	3.019	3.019	0	%100
9	M8	X	1.617	1.617	0	%100
10	M8	Z	.933	.933	0	%100
11	M9	X	1.617	1.617	0	%100
12	M9	Z	.933	.933	0	%100
13	M14	X	2.553	2.553	0	%100
14	M14	Z	1.474	1.474	0	%100
15	M15	X	2.553	2.553	0	%100
16	M15	Z	1.474	1.474	0	%100
17	M16	X	3.215	3.215	0	%100
18	M16	Z	1.856	1.856	0	%100
19	MP1A	X	8.084	8.084	0	%100
20	MP1A	Z	4.667	4.667	0	%100
21	M26	X	4.295	4.295	0	%100
22	M26	Z	2.48	2.48	0	%100
23	M27	X	2.553	2.553	0	%100
24	M27	Z	1.474	1.474	0	%100
25	M28	X	2.553	2.553	0	%100
26	M28	Z	1.474	1.474	0	%100
27	M29	X	4.295	4.295	0	%100
28	M29	Z	2.48	2.48	0	%100
29	M30	X	1.709	1.709	0	%100
30	M30	Z	.987	.987	0	%100
31	M31	X	1.306	1.306	0	%100
32	M31	Z	.754	.754	0	%100
33	M37	X	.588	.588	0	%100
34	M37	Z	.34	.34	0	%100
35	M34	X	2.553	2.553	0	%100
36	M34	Z	1.474	1.474	0	%100
37	M35	X	1.709	1.709	0	%100
38	M35	Z	.987	.987	0	%100
39	M24	X	4.474	4.474	0	%100
40	M24	Z	2.583	2.583	0	%100
41	MP2A	X	8.084	8.084	0	%100
42	MP2A	Z	4.667	4.667	0	%100
43	MP3A	X	8.084	8.084	0	%100
44	MP3A	Z	4.667	4.667	0	%100
45	MP4A	X	8.084	8.084	0	%100
46	MP4A	Z	4.667	4.667	0	%100
47	M34B	X	12.262	12.262	0	%100
48	M34B	Z	7.08	7.08	0	%100
49	M35A	X	3.087	3.087	0	%100
50	M35A	Z	1.782	1.782	0	%100
51	M36	X	3.087	3.087	0	%100
52	M36	Z	1.782	1.782	0	%100



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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,%]
53	M37A	X	12.262	12.262	0	%100
54	M37A	Z	7.08	7.08	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	1.006	1.006	0	%100
2	M1	Z	1.743	1.743	0	%100
3	M3	X	2.8	2.8	0	%100
4	M3	Z	4.851	4.851	0	%100
5	M4	X	2.8	2.8	0	%100
6	M4	Z	4.851	4.851	0	%100
7	M6	X	1.006	1.006	0	%100
8	M6	Z	1.743	1.743	0	%100
9	M8	X	2.8	2.8	0	%100
10	M8	Z	4.851	4.851	0	%100
11	M9	X	2.8	2.8	0	%100
12	M9	Z	4.851	4.851	0	%100
13	M14	X	1.474	1.474	0	%100
14	M14	Z	2.553	2.553	0	%100
15	M15	X	1.474	1.474	0	%100
16	M15	Z	2.553	2.553	0	%100
17	M16	X	1.639	1.639	0	%100
18	M16	Z	2.839	2.839	0	%100
19	MP1A	X	4.667	4.667	0	%100
20	MP1A	Z	8.084	8.084	0	%100
21	M26	X	2.48	2.48	0	%100
22	M26	Z	4.295	4.295	0	%100
23	M27	X	1.474	1.474	0	%100
24	M27	Z	2.553	2.553	0	%100
25	M28	X	1.474	1.474	0	%100
26	M28	Z	2.553	2.553	0	%100
27	M29	X	2.48	2.48	0	%100
28	M29	Z	4.295	4.295	0	%100
29	M30	X	1.312	1.312	0	%100
30	M30	Z	2.272	2.272	0	%100
31	M31	X	1.234	1.234	0	%100
32	M31	Z	2.137	2.137	0	%100
33	M37	X	.06	.06	0	%100
34	M37	Z	.103	.103	0	%100
35	M34	X	1.474	1.474	0	%100
36	M34	Z	2.553	2.553	0	%100
37	M35	X	1.312	1.312	0	%100
38	M35	Z	2.272	2.272	0	%100
39	M24	X	1.984	1.984	0	%100
40	M24	Z	3.436	3.436	0	%100
41	MP2A	X	4.667	4.667	0	%100
42	MP2A	Z	8.084	8.084	0	%100
43	MP3A	X	4.667	4.667	0	%100
44	MP3A	Z	8.084	8.084	0	%100
45	MP4A	X	4.667	4.667	0	%100
46	MP4A	Z	8.084	8.084	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,%]
47	M34B	X	7.465	7.465	0	%100
48	M34B	Z	12.93	12.93	0	%100
49	M35A	X	2.168	2.168	0	%100
50	M35A	Z	3.755	3.755	0	%100
51	M36	X	2.168	2.168	0	%100
52	M36	Z	3.755	3.755	0	%100
53	M37A	X	7.465	7.465	0	%100
54	M37A	Z	12.93	12.93	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	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	7.468	7.468	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	7.468	7.468	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	7.468	7.468	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	7.468	7.468	0	%100
13	M14	X	0	0	0	%100
14	M14	Z	2.948	2.948	0	%100
15	M15	X	0	0	0	%100
16	M15	Z	2.948	2.948	0	%100
17	M16	X	0	0	0	%100
18	M16	Z	3.06	3.06	0	%100
19	MP1A	X	0	0	0	%100
20	MP1A	Z	9.335	9.335	0	%100
21	M26	X	0	0	0	%100
22	M26	Z	4.959	4.959	0	%100
23	M27	X	0	0	0	%100
24	M27	Z	2.948	2.948	0	%100
25	M28	X	0	0	0	%100
26	M28	Z	2.948	2.948	0	%100
27	M29	X	0	0	0	%100
28	M29	Z	4.959	4.959	0	%100
29	M30	X	0	0	0	%100
30	M30	Z	2.948	2.948	0	%100
31	M31	X	0	0	0	%100
32	M31	Z	2.948	2.948	0	%100
33	M37	X	0	0	0	%100
34	M37	Z	2.024	2.024	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	2.948	2.948	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	2.948	2.948	0	%100
39	M24	X	0	0	0	%100
40	M24	Z	1.386	1.386	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, %]
41	MP2A	X	0	0	0	%100
42	MP2A	Z	9.335	9.335	0	%100
43	MP3A	X	0	0	0	%100
44	MP3A	Z	9.335	9.335	0	%100
45	MP4A	X	0	0	0	%100
46	MP4A	Z	9.335	9.335	0	%100
47	M34B	X	0	0	0	%100
48	M34B	Z	10.018	10.018	0	%100
49	M35A	X	0	0	0	%100
50	M35A	Z	10.018	10.018	0	%100
51	M36	X	0	0	0	%100
52	M36	Z	10.018	10.018	0	%100
53	M37A	X	0	0	0	%100
54	M37A	Z	10.018	10.018	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	-1.006	-1.006	0	%100
2	M1	Z	1.743	1.743	0	%100
3	M3	X	-2.8	-2.8	0	%100
4	M3	Z	4.851	4.851	0	%100
5	M4	X	-2.8	-2.8	0	%100
6	M4	Z	4.851	4.851	0	%100
7	M6	X	-1.006	-1.006	0	%100
8	M6	Z	1.743	1.743	0	%100
9	M8	X	-2.8	-2.8	0	%100
10	M8	Z	4.851	4.851	0	%100
11	M9	X	-2.8	-2.8	0	%100
12	M9	Z	4.851	4.851	0	%100
13	M14	X	-1.474	-1.474	0	%100
14	M14	Z	2.553	2.553	0	%100
15	M15	X	-1.474	-1.474	0	%100
16	M15	Z	2.553	2.553	0	%100
17	M16	X	-1.639	-1.639	0	%100
18	M16	Z	2.839	2.839	0	%100
19	MP1A	X	-4.667	-4.667	0	%100
20	MP1A	Z	8.084	8.084	0	%100
21	M26	X	-2.48	-2.48	0	%100
22	M26	Z	4.295	4.295	0	%100
23	M27	X	-1.474	-1.474	0	%100
24	M27	Z	2.553	2.553	0	%100
25	M28	X	-1.474	-1.474	0	%100
26	M28	Z	2.553	2.553	0	%100
27	M29	X	-2.48	-2.48	0	%100
28	M29	Z	4.295	4.295	0	%100
29	M30	X	-1.312	-1.312	0	%100
30	M30	Z	2.272	2.272	0	%100
31	M31	X	-1.234	-1.234	0	%100
32	M31	Z	2.137	2.137	0	%100
33	M37	X	-2.245	-2.245	0	%100
34	M37	Z	3.888	3.888	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,%]
35	M34	X	-1.474	-1.474	0	%100
36	M34	Z	2.553	2.553	0	%100
37	M35	X	-1.312	-1.312	0	%100
38	M35	Z	2.272	2.272	0	%100
39	M24	X	-.001	-.001	0	%100
40	M24	Z	.002	.002	0	%100
41	MP2A	X	-4.667	-4.667	0	%100
42	MP2A	Z	8.084	8.084	0	%100
43	MP3A	X	-4.667	-4.667	0	%100
44	MP3A	Z	8.084	8.084	0	%100
45	MP4A	X	-4.667	-4.667	0	%100
46	MP4A	Z	8.084	8.084	0	%100
47	M34B	X	-2.168	-2.168	0	%100
48	M34B	Z	3.755	3.755	0	%100
49	M35A	X	-7.465	-7.465	0	%100
50	M35A	Z	12.93	12.93	0	%100
51	M36	X	-7.465	-7.465	0	%100
52	M36	Z	12.93	12.93	0	%100
53	M37A	X	-2.168	-2.168	0	%100
54	M37A	Z	3.755	3.755	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	-5.23	-5.23	0	%100
2	M1	Z	3.019	3.019	0	%100
3	M3	X	-1.617	-1.617	0	%100
4	M3	Z	.933	.933	0	%100
5	M4	X	-1.617	-1.617	0	%100
6	M4	Z	.933	.933	0	%100
7	M6	X	-5.23	-5.23	0	%100
8	M6	Z	3.019	3.019	0	%100
9	M8	X	-1.617	-1.617	0	%100
10	M8	Z	.933	.933	0	%100
11	M9	X	-1.617	-1.617	0	%100
12	M9	Z	.933	.933	0	%100
13	M14	X	-2.553	-2.553	0	%100
14	M14	Z	1.474	1.474	0	%100
15	M15	X	-2.553	-2.553	0	%100
16	M15	Z	1.474	1.474	0	%100
17	M16	X	-3.215	-3.215	0	%100
18	M16	Z	1.856	1.856	0	%100
19	MP1A	X	-8.084	-8.084	0	%100
20	MP1A	Z	4.667	4.667	0	%100
21	M26	X	-4.295	-4.295	0	%100
22	M26	Z	2.48	2.48	0	%100
23	M27	X	-2.553	-2.553	0	%100
24	M27	Z	1.474	1.474	0	%100
25	M28	X	-2.553	-2.553	0	%100
26	M28	Z	1.474	1.474	0	%100
27	M29	X	-4.295	-4.295	0	%100
28	M29	Z	2.48	2.48	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, %]
29	M30	X	-1.709	-1.709	0	% 100
30	M30	Z	.987	.987	0	% 100
31	M31	X	-1.306	-1.306	0	% 100
32	M31	Z	.754	.754	0	% 100
33	M37	X	-4.373	-4.373	0	% 100
34	M37	Z	2.525	2.525	0	% 100
35	M34	X	-2.553	-2.553	0	% 100
36	M34	Z	1.474	1.474	0	% 100
37	M35	X	-1.709	-1.709	0	% 100
38	M35	Z	.987	.987	0	% 100
39	M24	X	-1.04	-1.04	0	% 100
40	M24	Z	.6	.6	0	% 100
41	MP2A	X	-8.084	-8.084	0	% 100
42	MP2A	Z	4.667	4.667	0	% 100
43	MP3A	X	-8.084	-8.084	0	% 100
44	MP3A	Z	4.667	4.667	0	% 100
45	MP4A	X	-8.084	-8.084	0	% 100
46	MP4A	Z	4.667	4.667	0	% 100
47	M34B	X	-3.087	-3.087	0	% 100
48	M34B	Z	1.782	1.782	0	% 100
49	M35A	X	-12.262	-12.262	0	% 100
50	M35A	Z	7.08	7.08	0	% 100
51	M36	X	-12.262	-12.262	0	% 100
52	M36	Z	7.08	7.08	0	% 100
53	M37A	X	-3.087	-3.087	0	% 100
54	M37A	Z	1.782	1.782	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-8.052	-8.052	0	% 100
2	M1	Z	0	0	0	% 100
3	M3	X	0	0	0	% 100
4	M3	Z	0	0	0	% 100
5	M4	X	0	0	0	% 100
6	M4	Z	0	0	0	% 100
7	M6	X	-8.052	-8.052	0	% 100
8	M6	Z	0	0	0	% 100
9	M8	X	0	0	0	% 100
10	M8	Z	0	0	0	% 100
11	M9	X	0	0	0	% 100
12	M9	Z	0	0	0	% 100
13	M14	X	-2.948	-2.948	0	% 100
14	M14	Z	0	0	0	% 100
15	M15	X	-2.948	-2.948	0	% 100
16	M15	Z	0	0	0	% 100
17	M16	X	-3.93	-3.93	0	% 100
18	M16	Z	0	0	0	% 100
19	MP1A	X	-9.335	-9.335	0	% 100
20	MP1A	Z	0	0	0	% 100
21	M26	X	-4.959	-4.959	0	% 100
22	M26	Z	0	0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
23	M27	X	-2.948	-2.948	0	%100
24	M27	Z	0	0	0	%100
25	M28	X	-2.948	-2.948	0	%100
26	M28	Z	0	0	0	%100
27	M29	X	-4.959	-4.959	0	%100
28	M29	Z	0	0	0	%100
29	M30	X	-1.649	-1.649	0	%100
30	M30	Z	0	0	0	%100
31	M31	X	-1.028	-1.028	0	%100
32	M31	Z	0	0	0	%100
33	M37	X	-3.144	-3.144	0	%100
34	M37	Z	0	0	0	%100
35	M34	X	-2.948	-2.948	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	-1.649	-1.649	0	%100
38	M35	Z	0	0	0	%100
39	M24	X	-3.783	-3.783	0	%100
40	M24	Z	0	0	0	%100
41	MP2A	X	-9.335	-9.335	0	%100
42	MP2A	Z	0	0	0	%100
43	MP3A	X	-9.335	-9.335	0	%100
44	MP3A	Z	0	0	0	%100
45	MP4A	X	-9.335	-9.335	0	%100
46	MP4A	Z	0	0	0	%100
47	M34B	X	-8.477	-8.477	0	%100
48	M34B	Z	0	0	0	%100
49	M35A	X	-8.477	-8.477	0	%100
50	M35A	Z	0	0	0	%100
51	M36	X	-8.477	-8.477	0	%100
52	M36	Z	0	0	0	%100
53	M37A	X	-8.477	-8.477	0	%100
54	M37A	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	-5.23	-5.23	0	%100
2	M1	Z	-3.019	-3.019	0	%100
3	M3	X	-1.617	-1.617	0	%100
4	M3	Z	-.933	-.933	0	%100
5	M4	X	-1.617	-1.617	0	%100
6	M4	Z	-.933	-.933	0	%100
7	M6	X	-5.23	-5.23	0	%100
8	M6	Z	-3.019	-3.019	0	%100
9	M8	X	-1.617	-1.617	0	%100
10	M8	Z	-.933	-.933	0	%100
11	M9	X	-1.617	-1.617	0	%100
12	M9	Z	-.933	-.933	0	%100
13	M14	X	-2.553	-2.553	0	%100
14	M14	Z	-1.474	-1.474	0	%100
15	M15	X	-2.553	-2.553	0	%100
16	M15	Z	-1.474	-1.474	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,%]
17	M16	X	-3.215	-3.215	0 % 100
18	M16	Z	-1.856	-1.856	0 % 100
19	MP1A	X	-8.084	-8.084	0 % 100
20	MP1A	Z	-4.667	-4.667	0 % 100
21	M26	X	-4.295	-4.295	0 % 100
22	M26	Z	-2.48	-2.48	0 % 100
23	M27	X	-2.553	-2.553	0 % 100
24	M27	Z	-1.474	-1.474	0 % 100
25	M28	X	-2.553	-2.553	0 % 100
26	M28	Z	-1.474	-1.474	0 % 100
27	M29	X	-4.295	-4.295	0 % 100
28	M29	Z	-2.48	-2.48	0 % 100
29	M30	X	-1.709	-1.709	0 % 100
30	M30	Z	-.987	-.987	0 % 100
31	M31	X	-1.306	-1.306	0 % 100
32	M31	Z	-.754	-.754	0 % 100
33	M37	X	-.588	-.588	0 % 100
34	M37	Z	-.34	-.34	0 % 100
35	M34	X	-2.553	-2.553	0 % 100
36	M34	Z	-1.474	-1.474	0 % 100
37	M35	X	-1.709	-1.709	0 % 100
38	M35	Z	-.987	-.987	0 % 100
39	M24	X	-4.474	-4.474	0 % 100
40	M24	Z	-2.583	-2.583	0 % 100
41	MP2A	X	-8.084	-8.084	0 % 100
42	MP2A	Z	-4.667	-4.667	0 % 100
43	MP3A	X	-8.084	-8.084	0 % 100
44	MP3A	Z	-4.667	-4.667	0 % 100
45	MP4A	X	-8.084	-8.084	0 % 100
46	MP4A	Z	-4.667	-4.667	0 % 100
47	M34B	X	-12.262	-12.262	0 % 100
48	M34B	Z	-7.08	-7.08	0 % 100
49	M35A	X	-3.087	-3.087	0 % 100
50	M35A	Z	-1.782	-1.782	0 % 100
51	M36	X	-3.087	-3.087	0 % 100
52	M36	Z	-1.782	-1.782	0 % 100
53	M37A	X	-12.262	-12.262	0 % 100
54	M37A	Z	-7.08	-7.08	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	-1.006	-1.006	0 % 100
2	M1	Z	-1.743	-1.743	0 % 100
3	M3	X	-2.8	-2.8	0 % 100
4	M3	Z	-4.851	-4.851	0 % 100
5	M4	X	-2.8	-2.8	0 % 100
6	M4	Z	-4.851	-4.851	0 % 100
7	M6	X	-1.006	-1.006	0 % 100
8	M6	Z	-1.743	-1.743	0 % 100
9	M8	X	-2.8	-2.8	0 % 100
10	M8	Z	-4.851	-4.851	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,%]
5	M4	X	0	0	0	%100
6	M4	Z	-2.963	-2.963	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	-2.963	-2.963	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	-2.963	-2.963	0	%100
13	M14	X	0	0	0	%100
14	M14	Z	-1.786	-1.786	0	%100
15	M15	X	0	0	0	%100
16	M15	Z	-1.786	-1.786	0	%100
17	M16	X	0	0	0	%100
18	M16	Z	-1.562	-1.562	0	%100
19	MP1A	X	0	0	0	%100
20	MP1A	Z	-3.287	-3.287	0	%100
21	M26	X	0	0	0	%100
22	M26	Z	-2.135	-2.135	0	%100
23	M27	X	0	0	0	%100
24	M27	Z	-1.786	-1.786	0	%100
25	M28	X	0	0	0	%100
26	M28	Z	-1.786	-1.786	0	%100
27	M29	X	0	0	0	%100
28	M29	Z	-2.135	-2.135	0	%100
29	M30	X	0	0	0	%100
30	M30	Z	-1.913	-1.913	0	%100
31	M31	X	0	0	0	%100
32	M31	Z	-2.049	-2.049	0	%100
33	M37	X	0	0	0	%100
34	M37	Z	-1.004	-1.004	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	-1.786	-1.786	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	-1.913	-1.913	0	%100
39	M24	X	0	0	0	%100
40	M24	Z	-.687	-.687	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-3.287	-3.287	0	%100
43	MP3A	X	0	0	0	%100
44	MP3A	Z	-3.287	-3.287	0	%100
45	MP4A	X	0	0	0	%100
46	MP4A	Z	-3.287	-3.287	0	%100
47	M34B	X	0	0	0	%100
48	M34B	Z	-2.762	-2.762	0	%100
49	M35A	X	0	0	0	%100
50	M35A	Z	-2.762	-2.762	0	%100
51	M36	X	0	0	0	%100
52	M36	Z	-2.762	-2.762	0	%100
53	M37A	X	0	0	0	%100
54	M37A	Z	-2.762	-2.762	0	%100



Company : Maser Consulting
 Designer : AJH
 Job Number : Project No. 10037952
 Model Name : 469200-VZW_MT_LOT_SectorA_H

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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	.33	.33	0	%100
2	M1	Z	-.571	-.571	0	%100
3	M3	X	1.111	1.111	0	%100
4	M3	Z	-1.924	-1.924	0	%100
5	M4	X	1.111	1.111	0	%100
6	M4	Z	-1.924	-1.924	0	%100
7	M6	X	.33	.33	0	%100
8	M6	Z	-.571	-.571	0	%100
9	M8	X	1.111	1.111	0	%100
10	M8	Z	-1.924	-1.924	0	%100
11	M9	X	1.111	1.111	0	%100
12	M9	Z	-1.924	-1.924	0	%100
13	M14	X	.893	.893	0	%100
14	M14	Z	-1.546	-1.546	0	%100
15	M15	X	.893	.893	0	%100
16	M15	Z	-1.546	-1.546	0	%100
17	M16	X	.837	.837	0	%100
18	M16	Z	-1.449	-1.449	0	%100
19	MP1A	X	1.643	1.643	0	%100
20	MP1A	Z	-2.846	-2.846	0	%100
21	M26	X	1.067	1.067	0	%100
22	M26	Z	-1.849	-1.849	0	%100
23	M27	X	.893	.893	0	%100
24	M27	Z	-1.546	-1.546	0	%100
25	M28	X	.893	.893	0	%100
26	M28	Z	-1.546	-1.546	0	%100
27	M29	X	1.067	1.067	0	%100
28	M29	Z	-1.849	-1.849	0	%100
29	M30	X	.851	.851	0	%100
30	M30	Z	-1.475	-1.475	0	%100
31	M31	X	.857	.857	0	%100
32	M31	Z	-1.485	-1.485	0	%100
33	M37	X	1.113	1.113	0	%100
34	M37	Z	-1.928	-1.928	0	%100
35	M34	X	.893	.893	0	%100
36	M34	Z	-1.546	-1.546	0	%100
37	M35	X	.851	.851	0	%100
38	M35	Z	-1.475	-1.475	0	%100
39	M24	X	.000545	.000545	0	%100
40	M24	Z	-.000945	-.000945	0	%100
41	MP2A	X	1.643	1.643	0	%100
42	MP2A	Z	-2.846	-2.846	0	%100
43	MP3A	X	1.643	1.643	0	%100
44	MP3A	Z	-2.846	-2.846	0	%100
45	MP4A	X	1.643	1.643	0	%100
46	MP4A	Z	-2.846	-2.846	0	%100
47	M34B	X	.598	.598	0	%100
48	M34B	Z	-1.035	-1.035	0	%100
49	M35A	X	2.058	2.058	0	%100
50	M35A	Z	-3.564	-3.564	0	%100
51	M36	X	2.058	2.058	0	%100
52	M36	Z	-3.564	-3.564	0	%100



Company : Maser Consulting
 Designer : AJH
 Job Number : Project No. 10037952
 Model Name : 469200-VZW_MT_LOT_SectorA_H

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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,%]
53	M37A	X	.598	.598	0 %100
54	M37A	Z	-1.035	-1.035	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	1.713	1.713	0 %100
2	M1	Z	-.989	-.989	0 %100
3	M3	X	.641	.641	0 %100
4	M3	Z	-.37	-.37	0 %100
5	M4	X	.641	.641	0 %100
6	M4	Z	-.37	-.37	0 %100
7	M6	X	1.713	1.713	0 %100
8	M6	Z	-.989	-.989	0 %100
9	M8	X	.641	.641	0 %100
10	M8	Z	-.37	-.37	0 %100
11	M9	X	.641	.641	0 %100
12	M9	Z	-.37	-.37	0 %100
13	M14	X	1.546	1.546	0 %100
14	M14	Z	-.893	-.893	0 %100
15	M15	X	1.546	1.546	0 %100
16	M15	Z	-.893	-.893	0 %100
17	M16	X	1.642	1.642	0 %100
18	M16	Z	-.948	-.948	0 %100
19	MP1A	X	2.846	2.846	0 %100
20	MP1A	Z	-1.643	-1.643	0 %100
21	M26	X	1.849	1.849	0 %100
22	M26	Z	-1.067	-1.067	0 %100
23	M27	X	1.546	1.546	0 %100
24	M27	Z	-.893	-.893	0 %100
25	M28	X	1.546	1.546	0 %100
26	M28	Z	-.893	-.893	0 %100
27	M29	X	1.849	1.849	0 %100
28	M29	Z	-1.067	-1.067	0 %100
29	M30	X	1.109	1.109	0 %100
30	M30	Z	-.641	-.641	0 %100
31	M31	X	.907	.907	0 %100
32	M31	Z	-.524	-.524	0 %100
33	M37	X	2.169	2.169	0 %100
34	M37	Z	-1.252	-1.252	0 %100
35	M34	X	1.546	1.546	0 %100
36	M34	Z	-.893	-.893	0 %100
37	M35	X	1.109	1.109	0 %100
38	M35	Z	-.641	-.641	0 %100
39	M24	X	.516	.516	0 %100
40	M24	Z	-.298	-.298	0 %100
41	MP2A	X	2.846	2.846	0 %100
42	MP2A	Z	-1.643	-1.643	0 %100
43	MP3A	X	2.846	2.846	0 %100
44	MP3A	Z	-1.643	-1.643	0 %100
45	MP4A	X	2.846	2.846	0 %100
46	MP4A	Z	-1.643	-1.643	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,%]
47	M34B	X	.851	.851	0	%100
48	M34B	Z	-.491	-.491	0	%100
49	M35A	X	3.38	3.38	0	%100
50	M35A	Z	-1.952	-1.952	0	%100
51	M36	X	3.38	3.38	0	%100
52	M36	Z	-1.952	-1.952	0	%100
53	M37A	X	.851	.851	0	%100
54	M37A	Z	-.491	-.491	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	2.637	2.637	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100
7	M6	X	2.637	2.637	0	%100
8	M6	Z	0	0	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	0	0	0	%100
13	M14	X	1.786	1.786	0	%100
14	M14	Z	0	0	0	%100
15	M15	X	1.786	1.786	0	%100
16	M15	Z	0	0	0	%100
17	M16	X	2.007	2.007	0	%100
18	M16	Z	0	0	0	%100
19	MP1A	X	3.287	3.287	0	%100
20	MP1A	Z	0	0	0	%100
21	M26	X	2.135	2.135	0	%100
22	M26	Z	0	0	0	%100
23	M27	X	1.786	1.786	0	%100
24	M27	Z	0	0	0	%100
25	M28	X	1.786	1.786	0	%100
26	M28	Z	0	0	0	%100
27	M29	X	2.135	2.135	0	%100
28	M29	Z	0	0	0	%100
29	M30	X	1.07	1.07	0	%100
30	M30	Z	0	0	0	%100
31	M31	X	.714	.714	0	%100
32	M31	Z	0	0	0	%100
33	M37	X	1.559	1.559	0	%100
34	M37	Z	0	0	0	%100
35	M34	X	1.786	1.786	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	1.07	1.07	0	%100
38	M35	Z	0	0	0	%100
39	M24	X	1.876	1.876	0	%100
40	M24	Z	0	0	0	%100



Company : Maser Consulting
 Designer : AJH
 Job Number : Project No. 10037952
 Model Name : 469200-VZW_MT_LOT_SectorA_H

Apr 23, 2021
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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, %]
41	MP2A	X	3.287	3.287	0	%100
42	MP2A	Z	0	0	0	%100
43	MP3A	X	3.287	3.287	0	%100
44	MP3A	Z	0	0	0	%100
45	MP4A	X	3.287	3.287	0	%100
46	MP4A	Z	0	0	0	%100
47	M34B	X	2.337	2.337	0	%100
48	M34B	Z	0	0	0	%100
49	M35A	X	2.337	2.337	0	%100
50	M35A	Z	0	0	0	%100
51	M36	X	2.337	2.337	0	%100
52	M36	Z	0	0	0	%100
53	M37A	X	2.337	2.337	0	%100
54	M37A	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	1.713	1.713	0	%100
2	M1	Z	.989	.989	0	%100
3	M3	X	.641	.641	0	%100
4	M3	Z	.37	.37	0	%100
5	M4	X	.641	.641	0	%100
6	M4	Z	.37	.37	0	%100
7	M6	X	1.713	1.713	0	%100
8	M6	Z	.989	.989	0	%100
9	M8	X	.641	.641	0	%100
10	M8	Z	.37	.37	0	%100
11	M9	X	.641	.641	0	%100
12	M9	Z	.37	.37	0	%100
13	M14	X	1.546	1.546	0	%100
14	M14	Z	.893	.893	0	%100
15	M15	X	1.546	1.546	0	%100
16	M15	Z	.893	.893	0	%100
17	M16	X	1.642	1.642	0	%100
18	M16	Z	.948	.948	0	%100
19	MP1A	X	2.846	2.846	0	%100
20	MP1A	Z	1.643	1.643	0	%100
21	M26	X	1.849	1.849	0	%100
22	M26	Z	1.067	1.067	0	%100
23	M27	X	1.546	1.546	0	%100
24	M27	Z	.893	.893	0	%100
25	M28	X	1.546	1.546	0	%100
26	M28	Z	.893	.893	0	%100
27	M29	X	1.849	1.849	0	%100
28	M29	Z	1.067	1.067	0	%100
29	M30	X	1.109	1.109	0	%100
30	M30	Z	.641	.641	0	%100
31	M31	X	.907	.907	0	%100
32	M31	Z	.524	.524	0	%100
33	M37	X	.292	.292	0	%100
34	M37	Z	.168	.168	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,%]
35	M34	X	1.546	1.546	0	%100
36	M34	Z	.893	.893	0	%100
37	M35	X	1.109	1.109	0	%100
38	M35	Z	.641	.641	0	%100
39	M24	X	2.219	2.219	0	%100
40	M24	Z	1.281	1.281	0	%100
41	MP2A	X	2.846	2.846	0	%100
42	MP2A	Z	1.643	1.643	0	%100
43	MP3A	X	2.846	2.846	0	%100
44	MP3A	Z	1.643	1.643	0	%100
45	MP4A	X	2.846	2.846	0	%100
46	MP4A	Z	1.643	1.643	0	%100
47	M34B	X	3.38	3.38	0	%100
48	M34B	Z	1.952	1.952	0	%100
49	M35A	X	.851	.851	0	%100
50	M35A	Z	.491	.491	0	%100
51	M36	X	.851	.851	0	%100
52	M36	Z	.491	.491	0	%100
53	M37A	X	3.38	3.38	0	%100
54	M37A	Z	1.952	1.952	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	.33	.33	0	%100
2	M1	Z	.571	.571	0	%100
3	M3	X	1.111	1.111	0	%100
4	M3	Z	1.924	1.924	0	%100
5	M4	X	1.111	1.111	0	%100
6	M4	Z	1.924	1.924	0	%100
7	M6	X	.33	.33	0	%100
8	M6	Z	.571	.571	0	%100
9	M8	X	1.111	1.111	0	%100
10	M8	Z	1.924	1.924	0	%100
11	M9	X	1.111	1.111	0	%100
12	M9	Z	1.924	1.924	0	%100
13	M14	X	.893	.893	0	%100
14	M14	Z	1.546	1.546	0	%100
15	M15	X	.893	.893	0	%100
16	M15	Z	1.546	1.546	0	%100
17	M16	X	.837	.837	0	%100
18	M16	Z	1.449	1.449	0	%100
19	MP1A	X	1.643	1.643	0	%100
20	MP1A	Z	2.846	2.846	0	%100
21	M26	X	1.067	1.067	0	%100
22	M26	Z	1.849	1.849	0	%100
23	M27	X	.893	.893	0	%100
24	M27	Z	1.546	1.546	0	%100
25	M28	X	.893	.893	0	%100
26	M28	Z	1.546	1.546	0	%100
27	M29	X	1.067	1.067	0	%100
28	M29	Z	1.849	1.849	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,%]
23	M27	X	0	0	0	%100
24	M27	Z	1.786	1.786	0	%100
25	M28	X	0	0	0	%100
26	M28	Z	1.786	1.786	0	%100
27	M29	X	0	0	0	%100
28	M29	Z	2.135	2.135	0	%100
29	M30	X	0	0	0	%100
30	M30	Z	1.913	1.913	0	%100
31	M31	X	0	0	0	%100
32	M31	Z	2.049	2.049	0	%100
33	M37	X	0	0	0	%100
34	M37	Z	1.004	1.004	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	1.786	1.786	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	1.913	1.913	0	%100
39	M24	X	0	0	0	%100
40	M24	Z	.687	.687	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	3.287	3.287	0	%100
43	MP3A	X	0	0	0	%100
44	MP3A	Z	3.287	3.287	0	%100
45	MP4A	X	0	0	0	%100
46	MP4A	Z	3.287	3.287	0	%100
47	M34B	X	0	0	0	%100
48	M34B	Z	2.762	2.762	0	%100
49	M35A	X	0	0	0	%100
50	M35A	Z	2.762	2.762	0	%100
51	M36	X	0	0	0	%100
52	M36	Z	2.762	2.762	0	%100
53	M37A	X	0	0	0	%100
54	M37A	Z	2.762	2.762	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	-.33	-.33	0	%100
2	M1	Z	.571	.571	0	%100
3	M3	X	-1.111	-1.111	0	%100
4	M3	Z	1.924	1.924	0	%100
5	M4	X	-1.111	-1.111	0	%100
6	M4	Z	1.924	1.924	0	%100
7	M6	X	-.33	-.33	0	%100
8	M6	Z	.571	.571	0	%100
9	M8	X	-1.111	-1.111	0	%100
10	M8	Z	1.924	1.924	0	%100
11	M9	X	-1.111	-1.111	0	%100
12	M9	Z	1.924	1.924	0	%100
13	M14	X	-.893	-.893	0	%100
14	M14	Z	1.546	1.546	0	%100
15	M15	X	-.893	-.893	0	%100
16	M15	Z	1.546	1.546	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,%]
17	M16	X	-.837	-.837	0	%100
18	M16	Z	1.449	1.449	0	%100
19	MP1A	X	-1.643	-1.643	0	%100
20	MP1A	Z	2.846	2.846	0	%100
21	M26	X	-1.067	-1.067	0	%100
22	M26	Z	1.849	1.849	0	%100
23	M27	X	-.893	-.893	0	%100
24	M27	Z	1.546	1.546	0	%100
25	M28	X	-.893	-.893	0	%100
26	M28	Z	1.546	1.546	0	%100
27	M29	X	-1.067	-1.067	0	%100
28	M29	Z	1.849	1.849	0	%100
29	M30	X	-.851	-.851	0	%100
30	M30	Z	1.475	1.475	0	%100
31	M31	X	-.857	-.857	0	%100
32	M31	Z	1.485	1.485	0	%100
33	M37	X	-1.113	-1.113	0	%100
34	M37	Z	1.928	1.928	0	%100
35	M34	X	-.893	-.893	0	%100
36	M34	Z	1.546	1.546	0	%100
37	M35	X	-.851	-.851	0	%100
38	M35	Z	1.475	1.475	0	%100
39	M24	X	-.000545	-.000545	0	%100
40	M24	Z	.000945	.000945	0	%100
41	MP2A	X	-1.643	-1.643	0	%100
42	MP2A	Z	2.846	2.846	0	%100
43	MP3A	X	-1.643	-1.643	0	%100
44	MP3A	Z	2.846	2.846	0	%100
45	MP4A	X	-1.643	-1.643	0	%100
46	MP4A	Z	2.846	2.846	0	%100
47	M34B	X	-.598	-.598	0	%100
48	M34B	Z	1.035	1.035	0	%100
49	M35A	X	-2.058	-2.058	0	%100
50	M35A	Z	3.564	3.564	0	%100
51	M36	X	-2.058	-2.058	0	%100
52	M36	Z	3.564	3.564	0	%100
53	M37A	X	-.598	-.598	0	%100
54	M37A	Z	1.035	1.035	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	-1.713	-1.713	0	%100
2	M1	Z	.989	.989	0	%100
3	M3	X	-.641	-.641	0	%100
4	M3	Z	.37	.37	0	%100
5	M4	X	-.641	-.641	0	%100
6	M4	Z	.37	.37	0	%100
7	M6	X	-1.713	-1.713	0	%100
8	M6	Z	.989	.989	0	%100
9	M8	X	-.641	-.641	0	%100
10	M8	Z	.37	.37	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,%]
11	M9	X	-.641	-.641	0	%100
12	M9	Z	.37	.37	0	%100
13	M14	X	-1.546	-1.546	0	%100
14	M14	Z	.893	.893	0	%100
15	M15	X	-1.546	-1.546	0	%100
16	M15	Z	.893	.893	0	%100
17	M16	X	-1.642	-1.642	0	%100
18	M16	Z	.948	.948	0	%100
19	MP1A	X	-2.846	-2.846	0	%100
20	MP1A	Z	1.643	1.643	0	%100
21	M26	X	-1.849	-1.849	0	%100
22	M26	Z	1.067	1.067	0	%100
23	M27	X	-1.546	-1.546	0	%100
24	M27	Z	.893	.893	0	%100
25	M28	X	-1.546	-1.546	0	%100
26	M28	Z	.893	.893	0	%100
27	M29	X	-1.849	-1.849	0	%100
28	M29	Z	1.067	1.067	0	%100
29	M30	X	-1.109	-1.109	0	%100
30	M30	Z	.641	.641	0	%100
31	M31	X	-.907	-.907	0	%100
32	M31	Z	.524	.524	0	%100
33	M37	X	-2.169	-2.169	0	%100
34	M37	Z	1.252	1.252	0	%100
35	M34	X	-1.546	-1.546	0	%100
36	M34	Z	.893	.893	0	%100
37	M35	X	-1.109	-1.109	0	%100
38	M35	Z	.641	.641	0	%100
39	M24	X	-.516	-.516	0	%100
40	M24	Z	.298	.298	0	%100
41	MP2A	X	-2.846	-2.846	0	%100
42	MP2A	Z	1.643	1.643	0	%100
43	MP3A	X	-2.846	-2.846	0	%100
44	MP3A	Z	1.643	1.643	0	%100
45	MP4A	X	-2.846	-2.846	0	%100
46	MP4A	Z	1.643	1.643	0	%100
47	M34B	X	-.851	-.851	0	%100
48	M34B	Z	.491	.491	0	%100
49	M35A	X	-3.38	-3.38	0	%100
50	M35A	Z	1.952	1.952	0	%100
51	M36	X	-3.38	-3.38	0	%100
52	M36	Z	1.952	1.952	0	%100
53	M37A	X	-.851	-.851	0	%100
54	M37A	Z	.491	.491	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	-2.637	-2.637	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100
7	M6	X	-2.637	-2.637	0	%100
8	M6	Z	0	0	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	0	0	0	%100
13	M14	X	-1.786	-1.786	0	%100
14	M14	Z	0	0	0	%100
15	M15	X	-1.786	-1.786	0	%100
16	M15	Z	0	0	0	%100
17	M16	X	-2.007	-2.007	0	%100
18	M16	Z	0	0	0	%100
19	MP1A	X	-3.287	-3.287	0	%100
20	MP1A	Z	0	0	0	%100
21	M26	X	-2.135	-2.135	0	%100
22	M26	Z	0	0	0	%100
23	M27	X	-1.786	-1.786	0	%100
24	M27	Z	0	0	0	%100
25	M28	X	-1.786	-1.786	0	%100
26	M28	Z	0	0	0	%100
27	M29	X	-2.135	-2.135	0	%100
28	M29	Z	0	0	0	%100
29	M30	X	-1.07	-1.07	0	%100
30	M30	Z	0	0	0	%100
31	M31	X	-.714	-.714	0	%100
32	M31	Z	0	0	0	%100
33	M37	X	-1.559	-1.559	0	%100
34	M37	Z	0	0	0	%100
35	M34	X	-1.786	-1.786	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	-1.07	-1.07	0	%100
38	M35	Z	0	0	0	%100
39	M24	X	-1.876	-1.876	0	%100
40	M24	Z	0	0	0	%100
41	MP2A	X	-3.287	-3.287	0	%100
42	MP2A	Z	0	0	0	%100
43	MP3A	X	-3.287	-3.287	0	%100
44	MP3A	Z	0	0	0	%100
45	MP4A	X	-3.287	-3.287	0	%100
46	MP4A	Z	0	0	0	%100
47	M34B	X	-2.337	-2.337	0	%100
48	M34B	Z	0	0	0	%100
49	M35A	X	-2.337	-2.337	0	%100
50	M35A	Z	0	0	0	%100
51	M36	X	-2.337	-2.337	0	%100
52	M36	Z	0	0	0	%100
53	M37A	X	-2.337	-2.337	0	%100
54	M37A	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	-1.713	-1.713	0	%100
2	M1	Z	-.989	-.989	0	%100
3	M3	X	-.641	-.641	0	%100
4	M3	Z	-.37	-.37	0	%100
5	M4	X	-.641	-.641	0	%100
6	M4	Z	-.37	-.37	0	%100
7	M6	X	-1.713	-1.713	0	%100
8	M6	Z	-.989	-.989	0	%100
9	M8	X	-.641	-.641	0	%100
10	M8	Z	-.37	-.37	0	%100
11	M9	X	-.641	-.641	0	%100
12	M9	Z	-.37	-.37	0	%100
13	M14	X	-1.546	-1.546	0	%100
14	M14	Z	-.893	-.893	0	%100
15	M15	X	-1.546	-1.546	0	%100
16	M15	Z	-.893	-.893	0	%100
17	M16	X	-1.642	-1.642	0	%100
18	M16	Z	-.948	-.948	0	%100
19	MP1A	X	-2.846	-2.846	0	%100
20	MP1A	Z	-1.643	-1.643	0	%100
21	M26	X	-1.849	-1.849	0	%100
22	M26	Z	-1.067	-1.067	0	%100
23	M27	X	-1.546	-1.546	0	%100
24	M27	Z	-.893	-.893	0	%100
25	M28	X	-1.546	-1.546	0	%100
26	M28	Z	-.893	-.893	0	%100
27	M29	X	-1.849	-1.849	0	%100
28	M29	Z	-1.067	-1.067	0	%100
29	M30	X	-1.109	-1.109	0	%100
30	M30	Z	-.641	-.641	0	%100
31	M31	X	-.907	-.907	0	%100
32	M31	Z	-.524	-.524	0	%100
33	M37	X	-.292	-.292	0	%100
34	M37	Z	-.168	-.168	0	%100
35	M34	X	-1.546	-1.546	0	%100
36	M34	Z	-.893	-.893	0	%100
37	M35	X	-1.109	-1.109	0	%100
38	M35	Z	-.641	-.641	0	%100
39	M24	X	-2.219	-2.219	0	%100
40	M24	Z	-1.281	-1.281	0	%100
41	MP2A	X	-2.846	-2.846	0	%100
42	MP2A	Z	-1.643	-1.643	0	%100
43	MP3A	X	-2.846	-2.846	0	%100
44	MP3A	Z	-1.643	-1.643	0	%100
45	MP4A	X	-2.846	-2.846	0	%100
46	MP4A	Z	-1.643	-1.643	0	%100
47	M34B	X	-3.38	-3.38	0	%100
48	M34B	Z	-1.952	-1.952	0	%100
49	M35A	X	-.851	-.851	0	%100
50	M35A	Z	-.491	-.491	0	%100
51	M36	X	-.851	-.851	0	%100
52	M36	Z	-.491	-.491	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	M37A	X	-3.38	-3.38	0	%100
54	M37A	Z	-1.952	-1.952	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	- .33	- .33	0	%100
2	M1	Z	- .571	- .571	0	%100
3	M3	X	-1.111	-1.111	0	%100
4	M3	Z	-1.924	-1.924	0	%100
5	M4	X	-1.111	-1.111	0	%100
6	M4	Z	-1.924	-1.924	0	%100
7	M6	X	- .33	- .33	0	%100
8	M6	Z	- .571	- .571	0	%100
9	M8	X	-1.111	-1.111	0	%100
10	M8	Z	-1.924	-1.924	0	%100
11	M9	X	-1.111	-1.111	0	%100
12	M9	Z	-1.924	-1.924	0	%100
13	M14	X	- .893	- .893	0	%100
14	M14	Z	-1.546	-1.546	0	%100
15	M15	X	- .893	- .893	0	%100
16	M15	Z	-1.546	-1.546	0	%100
17	M16	X	- .837	- .837	0	%100
18	M16	Z	-1.449	-1.449	0	%100
19	MP1A	X	-1.643	-1.643	0	%100
20	MP1A	Z	-2.846	-2.846	0	%100
21	M26	X	-1.067	-1.067	0	%100
22	M26	Z	-1.849	-1.849	0	%100
23	M27	X	- .893	- .893	0	%100
24	M27	Z	-1.546	-1.546	0	%100
25	M28	X	- .893	- .893	0	%100
26	M28	Z	-1.546	-1.546	0	%100
27	M29	X	-1.067	-1.067	0	%100
28	M29	Z	-1.849	-1.849	0	%100
29	M30	X	- .851	- .851	0	%100
30	M30	Z	-1.475	-1.475	0	%100
31	M31	X	- .857	- .857	0	%100
32	M31	Z	-1.485	-1.485	0	%100
33	M37	X	- .03	- .03	0	%100
34	M37	Z	- .051	- .051	0	%100
35	M34	X	- .893	- .893	0	%100
36	M34	Z	-1.546	-1.546	0	%100
37	M35	X	- .851	- .851	0	%100
38	M35	Z	-1.475	-1.475	0	%100
39	M24	X	- .984	- .984	0	%100
40	M24	Z	-1.704	-1.704	0	%100
41	MP2A	X	-1.643	-1.643	0	%100
42	MP2A	Z	-2.846	-2.846	0	%100
43	MP3A	X	-1.643	-1.643	0	%100
44	MP3A	Z	-2.846	-2.846	0	%100
45	MP4A	X	-1.643	-1.643	0	%100
46	MP4A	Z	-2.846	-2.846	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,%]
47	M34B	X	-2.058	-2.058	0	% 100
48	M34B	Z	-3.564	-3.564	0	% 100
49	M35A	X	-.598	-.598	0	% 100
50	M35A	Z	-1.035	-1.035	0	% 100
51	M36	X	-.598	-.598	0	% 100
52	M36	Z	-1.035	-1.035	0	% 100
53	M37A	X	-2.058	-2.058	0	% 100
54	M37A	Z	-3.564	-3.564	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	0	0	0	% 100
3	M3	X	0	0	0	% 100
4	M3	Z	-.467	-.467	0	% 100
5	M4	X	0	0	0	% 100
6	M4	Z	-.467	-.467	0	% 100
7	M6	X	0	0	0	% 100
8	M6	Z	0	0	0	% 100
9	M8	X	0	0	0	% 100
10	M8	Z	-.467	-.467	0	% 100
11	M9	X	0	0	0	% 100
12	M9	Z	-.467	-.467	0	% 100
13	M14	X	0	0	0	% 100
14	M14	Z	-.184	-.184	0	% 100
15	M15	X	0	0	0	% 100
16	M15	Z	-.184	-.184	0	% 100
17	M16	X	0	0	0	% 100
18	M16	Z	-.191	-.191	0	% 100
19	MP1A	X	0	0	0	% 100
20	MP1A	Z	-.583	-.583	0	% 100
21	M26	X	0	0	0	% 100
22	M26	Z	-.31	-.31	0	% 100
23	M27	X	0	0	0	% 100
24	M27	Z	-.184	-.184	0	% 100
25	M28	X	0	0	0	% 100
26	M28	Z	-.184	-.184	0	% 100
27	M29	X	0	0	0	% 100
28	M29	Z	-.31	-.31	0	% 100
29	M30	X	0	0	0	% 100
30	M30	Z	-.184	-.184	0	% 100
31	M31	X	0	0	0	% 100
32	M31	Z	-.184	-.184	0	% 100
33	M37	X	0	0	0	% 100
34	M37	Z	-.127	-.127	0	% 100
35	M34	X	0	0	0	% 100
36	M34	Z	-.184	-.184	0	% 100
37	M35	X	0	0	0	% 100
38	M35	Z	-.184	-.184	0	% 100
39	M24	X	0	0	0	% 100
40	M24	Z	-.087	-.087	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,%]
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-.583	-.583	0	%100
43	MP3A	X	0	0	0	%100
44	MP3A	Z	-.583	-.583	0	%100
45	MP4A	X	0	0	0	%100
46	MP4A	Z	-.583	-.583	0	%100
47	M34B	X	0	0	0	%100
48	M34B	Z	-.626	-.626	0	%100
49	M35A	X	0	0	0	%100
50	M35A	Z	-.626	-.626	0	%100
51	M36	X	0	0	0	%100
52	M36	Z	-.626	-.626	0	%100
53	M37A	X	0	0	0	%100
54	M37A	Z	-.626	-.626	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	.063	.063	0	%100
2	M1	Z	-.109	-.109	0	%100
3	M3	X	.175	.175	0	%100
4	M3	Z	-.303	-.303	0	%100
5	M4	X	.175	.175	0	%100
6	M4	Z	-.303	-.303	0	%100
7	M6	X	.063	.063	0	%100
8	M6	Z	-.109	-.109	0	%100
9	M8	X	.175	.175	0	%100
10	M8	Z	-.303	-.303	0	%100
11	M9	X	.175	.175	0	%100
12	M9	Z	-.303	-.303	0	%100
13	M14	X	.092	.092	0	%100
14	M14	Z	-.16	-.16	0	%100
15	M15	X	.092	.092	0	%100
16	M15	Z	-.16	-.16	0	%100
17	M16	X	.102	.102	0	%100
18	M16	Z	-.177	-.177	0	%100
19	MP1A	X	.292	.292	0	%100
20	MP1A	Z	-.505	-.505	0	%100
21	M26	X	.155	.155	0	%100
22	M26	Z	-.268	-.268	0	%100
23	M27	X	.092	.092	0	%100
24	M27	Z	-.16	-.16	0	%100
25	M28	X	.092	.092	0	%100
26	M28	Z	-.16	-.16	0	%100
27	M29	X	.155	.155	0	%100
28	M29	Z	-.268	-.268	0	%100
29	M30	X	.082	.082	0	%100
30	M30	Z	-.142	-.142	0	%100
31	M31	X	.077	.077	0	%100
32	M31	Z	-.134	-.134	0	%100
33	M37	X	.14	.14	0	%100
34	M37	Z	-.243	-.243	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,%]
29	M30	X	.107	.107	0	%100
30	M30	Z	-.062	-.062	0	%100
31	M31	X	.082	.082	0	%100
32	M31	Z	-.047	-.047	0	%100
33	M37	X	.273	.273	0	%100
34	M37	Z	-.158	-.158	0	%100
35	M34	X	.16	.16	0	%100
36	M34	Z	-.092	-.092	0	%100
37	M35	X	.107	.107	0	%100
38	M35	Z	-.062	-.062	0	%100
39	M24	X	.065	.065	0	%100
40	M24	Z	-.038	-.038	0	%100
41	MP2A	X	.505	.505	0	%100
42	MP2A	Z	-.292	-.292	0	%100
43	MP3A	X	.505	.505	0	%100
44	MP3A	Z	-.292	-.292	0	%100
45	MP4A	X	.505	.505	0	%100
46	MP4A	Z	-.292	-.292	0	%100
47	M34B	X	.193	.193	0	%100
48	M34B	Z	-.111	-.111	0	%100
49	M35A	X	.766	.766	0	%100
50	M35A	Z	-.442	-.442	0	%100
51	M36	X	.766	.766	0	%100
52	M36	Z	-.442	-.442	0	%100
53	M37A	X	.193	.193	0	%100
54	M37A	Z	-.111	-.111	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	.503	.503	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100
7	M6	X	.503	.503	0	%100
8	M6	Z	0	0	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	0	0	0	%100
13	M14	X	.184	.184	0	%100
14	M14	Z	0	0	0	%100
15	M15	X	.184	.184	0	%100
16	M15	Z	0	0	0	%100
17	M16	X	.246	.246	0	%100
18	M16	Z	0	0	0	%100
19	MP1A	X	.583	.583	0	%100
20	MP1A	Z	0	0	0	%100
21	M26	X	.31	.31	0	%100
22	M26	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
23	M27	X	.184	.184	0	%100
24	M27	Z	0	0	0	%100
25	M28	X	.184	.184	0	%100
26	M28	Z	0	0	0	%100
27	M29	X	.31	.31	0	%100
28	M29	Z	0	0	0	%100
29	M30	X	.103	.103	0	%100
30	M30	Z	0	0	0	%100
31	M31	X	.064	.064	0	%100
32	M31	Z	0	0	0	%100
33	M37	X	.197	.197	0	%100
34	M37	Z	0	0	0	%100
35	M34	X	.184	.184	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	.103	.103	0	%100
38	M35	Z	0	0	0	%100
39	M24	X	.236	.236	0	%100
40	M24	Z	0	0	0	%100
41	MP2A	X	.583	.583	0	%100
42	MP2A	Z	0	0	0	%100
43	MP3A	X	.583	.583	0	%100
44	MP3A	Z	0	0	0	%100
45	MP4A	X	.583	.583	0	%100
46	MP4A	Z	0	0	0	%100
47	M34B	X	.53	.53	0	%100
48	M34B	Z	0	0	0	%100
49	M35A	X	.53	.53	0	%100
50	M35A	Z	0	0	0	%100
51	M36	X	.53	.53	0	%100
52	M36	Z	0	0	0	%100
53	M37A	X	.53	.53	0	%100
54	M37A	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	.327	.327	0	%100
2	M1	Z	.189	.189	0	%100
3	M3	X	.101	.101	0	%100
4	M3	Z	.058	.058	0	%100
5	M4	X	.101	.101	0	%100
6	M4	Z	.058	.058	0	%100
7	M6	X	.327	.327	0	%100
8	M6	Z	.189	.189	0	%100
9	M8	X	.101	.101	0	%100
10	M8	Z	.058	.058	0	%100
11	M9	X	.101	.101	0	%100
12	M9	Z	.058	.058	0	%100
13	M14	X	.16	.16	0	%100
14	M14	Z	.092	.092	0	%100
15	M15	X	.16	.16	0	%100
16	M15	Z	.092	.092	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,%]
17	M16	X	.201	.201	0	%100
18	M16	Z	.116	.116	0	%100
19	MP1A	X	.505	.505	0	%100
20	MP1A	Z	.292	.292	0	%100
21	M26	X	.268	.268	0	%100
22	M26	Z	.155	.155	0	%100
23	M27	X	.16	.16	0	%100
24	M27	Z	.092	.092	0	%100
25	M28	X	.16	.16	0	%100
26	M28	Z	.092	.092	0	%100
27	M29	X	.268	.268	0	%100
28	M29	Z	.155	.155	0	%100
29	M30	X	.107	.107	0	%100
30	M30	Z	.062	.062	0	%100
31	M31	X	.082	.082	0	%100
32	M31	Z	.047	.047	0	%100
33	M37	X	.037	.037	0	%100
34	M37	Z	.021	.021	0	%100
35	M34	X	.16	.16	0	%100
36	M34	Z	.092	.092	0	%100
37	M35	X	.107	.107	0	%100
38	M35	Z	.062	.062	0	%100
39	M24	X	.28	.28	0	%100
40	M24	Z	.161	.161	0	%100
41	MP2A	X	.505	.505	0	%100
42	MP2A	Z	.292	.292	0	%100
43	MP3A	X	.505	.505	0	%100
44	MP3A	Z	.292	.292	0	%100
45	MP4A	X	.505	.505	0	%100
46	MP4A	Z	.292	.292	0	%100
47	M34B	X	.766	.766	0	%100
48	M34B	Z	.442	.442	0	%100
49	M35A	X	.193	.193	0	%100
50	M35A	Z	.111	.111	0	%100
51	M36	X	.193	.193	0	%100
52	M36	Z	.111	.111	0	%100
53	M37A	X	.766	.766	0	%100
54	M37A	Z	.442	.442	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	.063	.063	0	%100
2	M1	Z	.109	.109	0	%100
3	M3	X	.175	.175	0	%100
4	M3	Z	.303	.303	0	%100
5	M4	X	.175	.175	0	%100
6	M4	Z	.303	.303	0	%100
7	M6	X	.063	.063	0	%100
8	M6	Z	.109	.109	0	%100
9	M8	X	.175	.175	0	%100
10	M8	Z	.303	.303	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,%]
5	M4	X	0	0	0	%100
6	M4	Z	.467	.467	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	.467	.467	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	.467	.467	0	%100
13	M14	X	0	0	0	%100
14	M14	Z	.184	.184	0	%100
15	M15	X	0	0	0	%100
16	M15	Z	.184	.184	0	%100
17	M16	X	0	0	0	%100
18	M16	Z	.191	.191	0	%100
19	MP1A	X	0	0	0	%100
20	MP1A	Z	.583	.583	0	%100
21	M26	X	0	0	0	%100
22	M26	Z	.31	.31	0	%100
23	M27	X	0	0	0	%100
24	M27	Z	.184	.184	0	%100
25	M28	X	0	0	0	%100
26	M28	Z	.184	.184	0	%100
27	M29	X	0	0	0	%100
28	M29	Z	.31	.31	0	%100
29	M30	X	0	0	0	%100
30	M30	Z	.184	.184	0	%100
31	M31	X	0	0	0	%100
32	M31	Z	.184	.184	0	%100
33	M37	X	0	0	0	%100
34	M37	Z	.127	.127	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	.184	.184	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	.184	.184	0	%100
39	M24	X	0	0	0	%100
40	M24	Z	.087	.087	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	.583	.583	0	%100
43	MP3A	X	0	0	0	%100
44	MP3A	Z	.583	.583	0	%100
45	MP4A	X	0	0	0	%100
46	MP4A	Z	.583	.583	0	%100
47	M34B	X	0	0	0	%100
48	M34B	Z	.626	.626	0	%100
49	M35A	X	0	0	0	%100
50	M35A	Z	.626	.626	0	%100
51	M36	X	0	0	0	%100
52	M36	Z	.626	.626	0	%100
53	M37A	X	0	0	0	%100
54	M37A	Z	.626	.626	0	%100



Company : Maser Consulting
 Designer : AJH
 Job Number : Project No. 10037952
 Model Name : 469200-VZW_MT_LOT_SectorA_H

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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	-.063	-.063	0	%100
2	M1	Z	.109	.109	0	%100
3	M3	X	-.175	-.175	0	%100
4	M3	Z	.303	.303	0	%100
5	M4	X	-.175	-.175	0	%100
6	M4	Z	.303	.303	0	%100
7	M6	X	-.063	-.063	0	%100
8	M6	Z	.109	.109	0	%100
9	M8	X	-.175	-.175	0	%100
10	M8	Z	.303	.303	0	%100
11	M9	X	-.175	-.175	0	%100
12	M9	Z	.303	.303	0	%100
13	M14	X	-.092	-.092	0	%100
14	M14	Z	.16	.16	0	%100
15	M15	X	-.092	-.092	0	%100
16	M15	Z	.16	.16	0	%100
17	M16	X	-.102	-.102	0	%100
18	M16	Z	.177	.177	0	%100
19	MP1A	X	-.292	-.292	0	%100
20	MP1A	Z	.505	.505	0	%100
21	M26	X	-.155	-.155	0	%100
22	M26	Z	.268	.268	0	%100
23	M27	X	-.092	-.092	0	%100
24	M27	Z	.16	.16	0	%100
25	M28	X	-.092	-.092	0	%100
26	M28	Z	.16	.16	0	%100
27	M29	X	-.155	-.155	0	%100
28	M29	Z	.268	.268	0	%100
29	M30	X	-.082	-.082	0	%100
30	M30	Z	.142	.142	0	%100
31	M31	X	-.077	-.077	0	%100
32	M31	Z	.134	.134	0	%100
33	M37	X	-.14	-.14	0	%100
34	M37	Z	.243	.243	0	%100
35	M34	X	-.092	-.092	0	%100
36	M34	Z	.16	.16	0	%100
37	M35	X	-.082	-.082	0	%100
38	M35	Z	.142	.142	0	%100
39	M24	X	-6.9e-5	-6.9e-5	0	%100
40	M24	Z	.000119	.000119	0	%100
41	MP2A	X	-.292	-.292	0	%100
42	MP2A	Z	.505	.505	0	%100
43	MP3A	X	-.292	-.292	0	%100
44	MP3A	Z	.505	.505	0	%100
45	MP4A	X	-.292	-.292	0	%100
46	MP4A	Z	.505	.505	0	%100
47	M34B	X	-.135	-.135	0	%100
48	M34B	Z	.235	.235	0	%100
49	M35A	X	-.467	-.467	0	%100
50	M35A	Z	.808	.808	0	%100
51	M36	X	-.467	-.467	0	%100
52	M36	Z	.808	.808	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,%]
53	M37A	X	-.135	-.135	0	%100
54	M37A	Z	.235	.235	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	-.327	-.327	0	%100
2	M1	Z	.189	.189	0	%100
3	M3	X	-.101	-.101	0	%100
4	M3	Z	.058	.058	0	%100
5	M4	X	-.101	-.101	0	%100
6	M4	Z	.058	.058	0	%100
7	M6	X	-.327	-.327	0	%100
8	M6	Z	.189	.189	0	%100
9	M8	X	-.101	-.101	0	%100
10	M8	Z	.058	.058	0	%100
11	M9	X	-.101	-.101	0	%100
12	M9	Z	.058	.058	0	%100
13	M14	X	-.16	-.16	0	%100
14	M14	Z	.092	.092	0	%100
15	M15	X	-.16	-.16	0	%100
16	M15	Z	.092	.092	0	%100
17	M16	X	-.201	-.201	0	%100
18	M16	Z	.116	.116	0	%100
19	MP1A	X	-.505	-.505	0	%100
20	MP1A	Z	.292	.292	0	%100
21	M26	X	-.268	-.268	0	%100
22	M26	Z	.155	.155	0	%100
23	M27	X	-.16	-.16	0	%100
24	M27	Z	.092	.092	0	%100
25	M28	X	-.16	-.16	0	%100
26	M28	Z	.092	.092	0	%100
27	M29	X	-.268	-.268	0	%100
28	M29	Z	.155	.155	0	%100
29	M30	X	-.107	-.107	0	%100
30	M30	Z	.062	.062	0	%100
31	M31	X	-.082	-.082	0	%100
32	M31	Z	.047	.047	0	%100
33	M37	X	-.273	-.273	0	%100
34	M37	Z	.158	.158	0	%100
35	M34	X	-.16	-.16	0	%100
36	M34	Z	.092	.092	0	%100
37	M35	X	-.107	-.107	0	%100
38	M35	Z	.062	.062	0	%100
39	M24	X	-.065	-.065	0	%100
40	M24	Z	.038	.038	0	%100
41	MP2A	X	-.505	-.505	0	%100
42	MP2A	Z	.292	.292	0	%100
43	MP3A	X	-.505	-.505	0	%100
44	MP3A	Z	.292	.292	0	%100
45	MP4A	X	-.505	-.505	0	%100
46	MP4A	Z	.292	.292	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,%]
47	M34B	X	-.193	-.193	0	%100
48	M34B	Z	.111	.111	0	%100
49	M35A	X	-.766	-.766	0	%100
50	M35A	Z	.442	.442	0	%100
51	M36	X	-.766	-.766	0	%100
52	M36	Z	.442	.442	0	%100
53	M37A	X	-.193	-.193	0	%100
54	M37A	Z	.111	.111	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	-.503	-.503	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100
7	M6	X	-.503	-.503	0	%100
8	M6	Z	0	0	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	0	0	0	%100
13	M14	X	-.184	-.184	0	%100
14	M14	Z	0	0	0	%100
15	M15	X	-.184	-.184	0	%100
16	M15	Z	0	0	0	%100
17	M16	X	-.246	-.246	0	%100
18	M16	Z	0	0	0	%100
19	MP1A	X	-.583	-.583	0	%100
20	MP1A	Z	0	0	0	%100
21	M26	X	-.31	-.31	0	%100
22	M26	Z	0	0	0	%100
23	M27	X	-.184	-.184	0	%100
24	M27	Z	0	0	0	%100
25	M28	X	-.184	-.184	0	%100
26	M28	Z	0	0	0	%100
27	M29	X	-.31	-.31	0	%100
28	M29	Z	0	0	0	%100
29	M30	X	-.103	-.103	0	%100
30	M30	Z	0	0	0	%100
31	M31	X	-.064	-.064	0	%100
32	M31	Z	0	0	0	%100
33	M37	X	-.197	-.197	0	%100
34	M37	Z	0	0	0	%100
35	M34	X	-.184	-.184	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	-.103	-.103	0	%100
38	M35	Z	0	0	0	%100
39	M24	X	-.236	-.236	0	%100
40	M24	Z	0	0	0	%100



Company : Maser Consulting
 Designer : AJH
 Job Number : Project No. 10037952
 Model Name : 469200-VZW_MT_LOT_SectorA_H

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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, %]
41	MP2A	X	-.583	-.583	0	%100
42	MP2A	Z	0	0	0	%100
43	MP3A	X	-.583	-.583	0	%100
44	MP3A	Z	0	0	0	%100
45	MP4A	X	-.583	-.583	0	%100
46	MP4A	Z	0	0	0	%100
47	M34B	X	-.53	-.53	0	%100
48	M34B	Z	0	0	0	%100
49	M35A	X	-.53	-.53	0	%100
50	M35A	Z	0	0	0	%100
51	M36	X	-.53	-.53	0	%100
52	M36	Z	0	0	0	%100
53	M37A	X	-.53	-.53	0	%100
54	M37A	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	-.327	-.327	0	%100
2	M1	Z	-.189	-.189	0	%100
3	M3	X	-.101	-.101	0	%100
4	M3	Z	-.058	-.058	0	%100
5	M4	X	-.101	-.101	0	%100
6	M4	Z	-.058	-.058	0	%100
7	M6	X	-.327	-.327	0	%100
8	M6	Z	-.189	-.189	0	%100
9	M8	X	-.101	-.101	0	%100
10	M8	Z	-.058	-.058	0	%100
11	M9	X	-.101	-.101	0	%100
12	M9	Z	-.058	-.058	0	%100
13	M14	X	-.16	-.16	0	%100
14	M14	Z	-.092	-.092	0	%100
15	M15	X	-.16	-.16	0	%100
16	M15	Z	-.092	-.092	0	%100
17	M16	X	-.201	-.201	0	%100
18	M16	Z	-.116	-.116	0	%100
19	MP1A	X	-.505	-.505	0	%100
20	MP1A	Z	-.292	-.292	0	%100
21	M26	X	-.268	-.268	0	%100
22	M26	Z	-.155	-.155	0	%100
23	M27	X	-.16	-.16	0	%100
24	M27	Z	-.092	-.092	0	%100
25	M28	X	-.16	-.16	0	%100
26	M28	Z	-.092	-.092	0	%100
27	M29	X	-.268	-.268	0	%100
28	M29	Z	-.155	-.155	0	%100
29	M30	X	-.107	-.107	0	%100
30	M30	Z	-.062	-.062	0	%100
31	M31	X	-.082	-.082	0	%100
32	M31	Z	-.047	-.047	0	%100
33	M37	X	-.037	-.037	0	%100
34	M37	Z	-.021	-.021	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,%]
35	M34	X	-.16	-.16	0	%100
36	M34	Z	-.092	-.092	0	%100
37	M35	X	-.107	-.107	0	%100
38	M35	Z	-.062	-.062	0	%100
39	M24	X	-.28	-.28	0	%100
40	M24	Z	-.161	-.161	0	%100
41	MP2A	X	-.505	-.505	0	%100
42	MP2A	Z	-.292	-.292	0	%100
43	MP3A	X	-.505	-.505	0	%100
44	MP3A	Z	-.292	-.292	0	%100
45	MP4A	X	-.505	-.505	0	%100
46	MP4A	Z	-.292	-.292	0	%100
47	M34B	X	-.766	-.766	0	%100
48	M34B	Z	-.442	-.442	0	%100
49	M35A	X	-.193	-.193	0	%100
50	M35A	Z	-.111	-.111	0	%100
51	M36	X	-.193	-.193	0	%100
52	M36	Z	-.111	-.111	0	%100
53	M37A	X	-.766	-.766	0	%100
54	M37A	Z	-.442	-.442	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	-.063	-.063	0	%100
2	M1	Z	-.109	-.109	0	%100
3	M3	X	-.175	-.175	0	%100
4	M3	Z	-.303	-.303	0	%100
5	M4	X	-.175	-.175	0	%100
6	M4	Z	-.303	-.303	0	%100
7	M6	X	-.063	-.063	0	%100
8	M6	Z	-.109	-.109	0	%100
9	M8	X	-.175	-.175	0	%100
10	M8	Z	-.303	-.303	0	%100
11	M9	X	-.175	-.175	0	%100
12	M9	Z	-.303	-.303	0	%100
13	M14	X	-.092	-.092	0	%100
14	M14	Z	-.16	-.16	0	%100
15	M15	X	-.092	-.092	0	%100
16	M15	Z	-.16	-.16	0	%100
17	M16	X	-.102	-.102	0	%100
18	M16	Z	-.177	-.177	0	%100
19	MP1A	X	-.292	-.292	0	%100
20	MP1A	Z	-.505	-.505	0	%100
21	M26	X	-.155	-.155	0	%100
22	M26	Z	-.268	-.268	0	%100
23	M27	X	-.092	-.092	0	%100
24	M27	Z	-.16	-.16	0	%100
25	M28	X	-.092	-.092	0	%100
26	M28	Z	-.16	-.16	0	%100
27	M29	X	-.155	-.155	0	%100
28	M29	Z	-.268	-.268	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,%]
29	M30	X	-.082	-.082	0	%100
30	M30	Z	-.142	-.142	0	%100
31	M31	X	-.077	-.077	0	%100
32	M31	Z	-.134	-.134	0	%100
33	M37	X	-.004	-.004	0	%100
34	M37	Z	-.006	-.006	0	%100
35	M34	X	-.092	-.092	0	%100
36	M34	Z	-.16	-.16	0	%100
37	M35	X	-.082	-.082	0	%100
38	M35	Z	-.142	-.142	0	%100
39	M24	X	-.124	-.124	0	%100
40	M24	Z	-.215	-.215	0	%100
41	MP2A	X	-.292	-.292	0	%100
42	MP2A	Z	-.505	-.505	0	%100
43	MP3A	X	-.292	-.292	0	%100
44	MP3A	Z	-.505	-.505	0	%100
45	MP4A	X	-.292	-.292	0	%100
46	MP4A	Z	-.505	-.505	0	%100
47	M34B	X	-.467	-.467	0	%100
48	M34B	Z	-.808	-.808	0	%100
49	M35A	X	-.135	-.135	0	%100
50	M35A	Z	-.235	-.235	0	%100
51	M36	X	-.135	-.135	0	%100
52	M36	Z	-.235	-.235	0	%100
53	M37A	X	-.467	-.467	0	%100
54	M37A	Z	-.808	-.808	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	250.633	2	18.631	19	331.013	2	0	51	0	51	0	51
2		min	-261.947	8	5.133	2	-351.423	8	0	1	0	1	0	1
3	N36	max	746.241	3	16.46	18	1617.185	9	0	51	0	51	0	51
4		min	-745.217	9	2.489	9	-1659.106	3	0	1	0	1	0	1
5	N9	max	168.948	2	1041.346	24	-247.551	10	-.091	6	0	51	.183	38
6		min	-158.631	8	204.609	6	-984.548	17	-.504	24	0	1	-.132	32
7	N1	max	86.545	26	413.957	24	995.673	24	-.048	6	0	51	.178	38
8		min	-85.723	49	83.253	6	-7.903	6	-.206	24	0	1	-.131	32
9	N53A	max	1255.598	9	1249.642	8	1452.641	2	.003	2	.002	32	.003	2
10		min	-1295.738	3	-1039.787	2	-1649.006	8	-.003	8	-.003	2	-.003	32
11	N54A	max	1297.926	9	1175.148	2	1564.681	2	.002	9	.003	2	.004	2
12		min	-1233.488	3	-882.934	8	-1235.082	8	-.002	2	-.003	8	-.003	8
13	Totals:	max	1567.487	10	2067.715	20	2151.798	1						
14		min	-1567.488	4	836.522	2	-2151.801	7						



Company : Maser Consulting
 Designer : AJH
 Job Number : Project No. 10037952
 Model Name : 469200-VZW_MT_LOT_SectorA_H

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

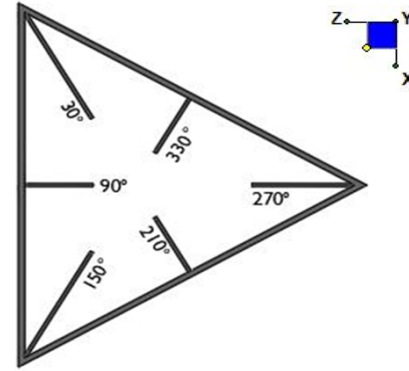
Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	M1	PIPE 2.5	.113	1.916	24	.093	1.94	37	48619.373	50715	3.596	3.596	1...	H1-1b
2	M3	PIPE 1.5	.394	4.293	8	.178	6.542	39	10535.157	23593.5	1.105	1.105	1...	H1-1b
3	M4	PIPE 1.5	.602	3.013	2	.293	3.013	3	13458.969	23593.5	1.105	1.105	1...	H1-1b
4	M6	PIPE 2.5	.149	0	24	.113	0	38	48619.373	50715	3.596	3.596	2...	H1-1b
5	M8	PIPE 1.5	.326	6.542	1	.236	6.542	2	10535.157	23593.5	1.105	1.105	2...	H1-1b
6	M9	PIPE 1.5	.692	2.957	8	.250	3.013	8	13458.969	23593.5	1.105	1.105	1...	H1-1b
7	M14	SR 0.75	.138	0	24	.025	0	2	7395.536	14313.866	.179	.179	1...	H1-1b*
8	M15	SR 0.75	.095	0	13	.017	0	2	7395.536	14313.866	.179	.179	1	H1-1b*
9	M16	SR 1	.055	1.417	24	.019	0	49	15773.947	25434	.423	.423	1...	H1-1b
10	MP1A	PIPE 2.0	.123	1.937	6	.126	1.937	2	20866.733	32130	1.872	1.872	1...	H1-1b
11	M26	PIPE 1.0	.365	.521	8	.141	.495	8	13004.476	14773.5	.465	.465	1...	H1-1b
12	M27	SR 0.75	.084	0	1	.075	0	2	7395.536	14313.866	.179	.179	1	H1-1b*
13	M28	SR 0.75	.035	0	32	.057	0	32	7395.536	14313.866	.179	.179	1...	H1-1b*
14	M29	PIPE 1.0	.015	1.25	9	.046	0	3	13004.476	14773.5	.465	.465	1...	H1-1b
15	M30	SR 0.75	.198	0	49	.016	0	37	4450.867	14313.866	.179	.179	1...	H1-1b*
16	M31	SR 0.75	.071	2.117	14	.026	0	8	2774.49	14313.866	.179	.179	1...	H1-1b
17	M37	PIPE 1.0	.135	6.501	2	.005	0	21	3080.749	14773.5	.465	.465	1...	H1-1b*
18	M34	SR 0.75	.049	2.5	12	.060	0	49	7395.536	14313.866	.179	.179	1...	H1-1b*
19	M35	SR 0.75	.060	1.671	24	.059	3.343	2	4450.867	14313.866	.179	.179	1...	H1-1b
20	M24	PIPE 1.0	.470	2.939	9	.004	0	23	3927.988	14773.5	.465	.465	1...	H1-1a
21	MP2A	PIPE 2.0	.310	1.875	7	.166	1.937	2	20866.733	32130	1.872	1.872	2...	H1-1b
22	MP3A	PIPE 2.0	.173	1.937	2	.187	1.937	33	20866.733	32130	1.872	1.872	2...	H1-1b
23	MP4A	PIPE 2.0	.592	3.437	3	.222	4.375	3	20866.733	32130	1.872	1.872	2...	H1-1b
24	M34B	L2.5x2.5x4	.114	2.236	2	.012	0	z 33	20075.333	38556	1.114	2.303	1...	H2-1
25	M35A	L2.5x2.5x4	.062	2.236	1	.028	0	z 2	20075.333	38556	1.114	2.303	1...	H2-1
26	M36	L2.5x2.5x4	.062	2.236	2	.013	0	y 49	20075.333	38556	1.114	2.303	1...	H2-1
27	M37A	L2.5x2.5x4	.110	2.143	2	.023	4.472	z 2	20075.333	38556	1.114	2.303	1...	H2-1



I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N9	90
N1	90



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:

Bolt Quantity per Reaction:

d_x (in) (Delta X of typ. bolt config. sketch) :

d_y (in) (Delta Y of typ. bolt config. sketch) :

Bolt Type:

Bolt Diameter (in):

Required Tensile Strength (kips):

Required Shear Strength (kips):

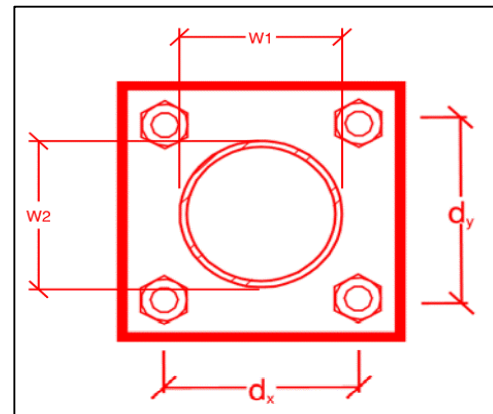
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
4
5
4
A307
0.5
4.0
1.7
6.4
3.8
15.4%*
11.2%



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

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:

Plate Width (in):

Plate Height (in):

W1 (in):

W2 (in):

Fy (ksi, plate):

t_{plate} (in):

Weld Size (1/16 in):

$\Phi \cdot R_n$ (kip/in):

Required Weld Strength (kip/in):

Plate Bending Capacity:

Weld Capacity:

Round
7
6
2.9
2.9
36
0.5
3
4.18
1.04
7.7%
24.8%

Max Plate Bending Strengths

$M_{u_{xx}}$ (kip-in) :	1.1
$\Phi \cdot M_{n_{xx}}$ (kip-in) :	14.2
$M_{u_{yy}}$ (kip-in) :	0.0
$\Phi \cdot M_{n_{yy}}$ (kip-in) :	12.2

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

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

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

Base Requirements:

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

Photo Requirements:

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

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

Material Certification:

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


















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

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

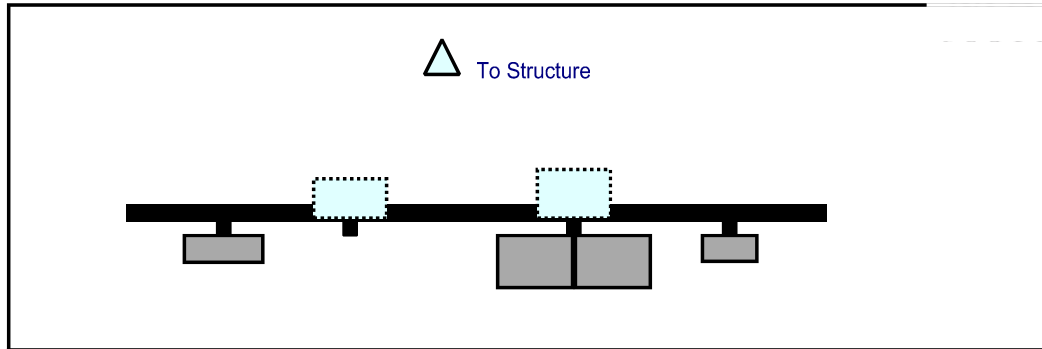
Certifying Individual: Company _____

Name _____

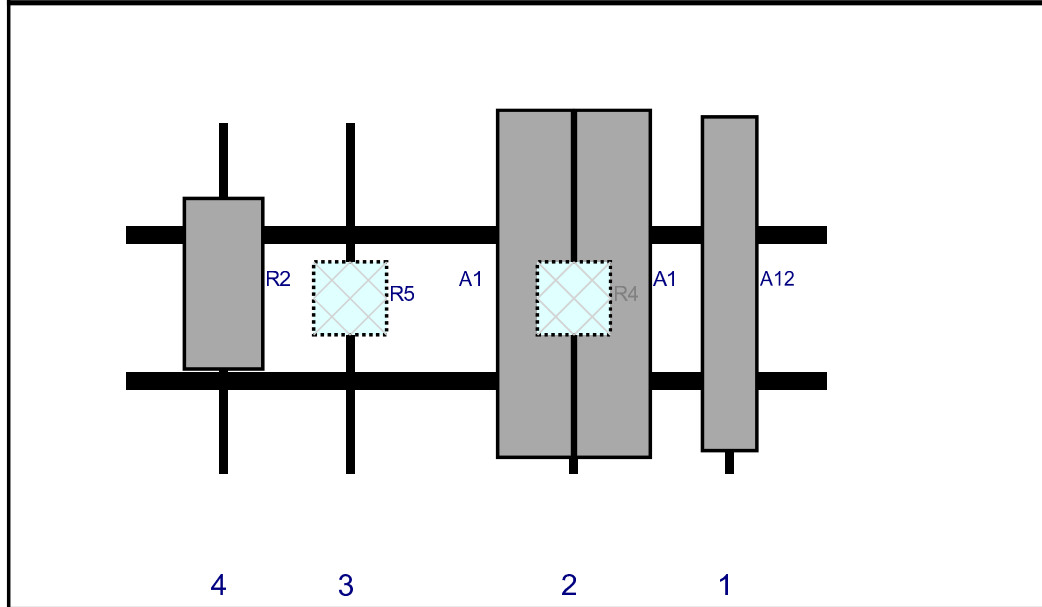
Schedule A – Photo & Document File Structure

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

Plan View

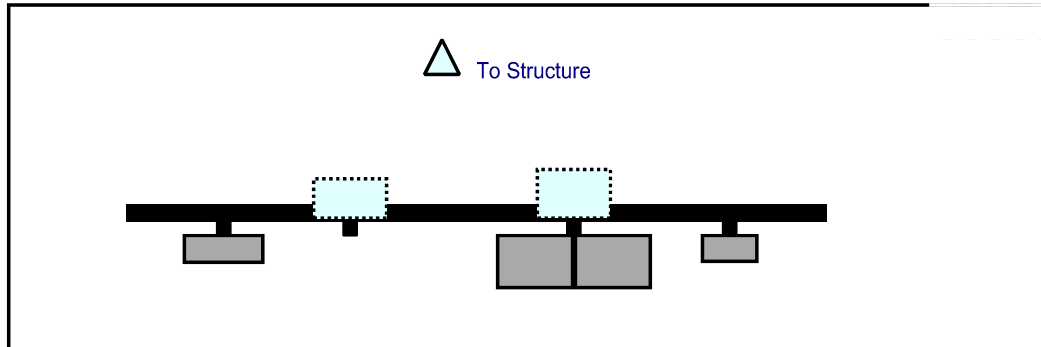


Front View
Looking at Structure

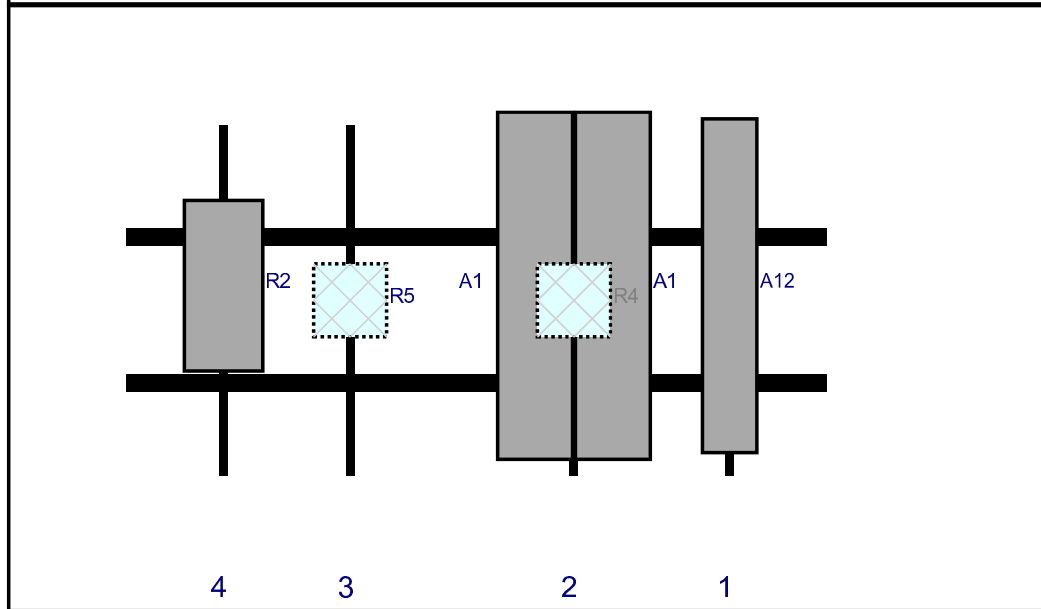


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A12	BXA-80063-6BF-EDIN-X	68.6	11.2	124	1	a	Front	33	0	Retained	02/23/2021
A1	MX06FRO660-03	71.3	15.4	92	2	a	Front	33	8	Added	
A1	MX06FRO660-03	71.3	15.4	92	2	b	Front	33	-8	Added	
R4	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	92	2	a	Behind	36	0	Added	
R5	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	46	3	a	Behind	36	0	Added	
R2	MT6407-77A	35.1	16.1	20	4	a	Front	33	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
A12	BXA-80063-6BF-EDIN-X	68.6	11.2	124	1	a	Front	33	0	Retained	02/23/2021
A1	MX06FRO660-03	71.3	15.4	92	2	a	Front	33	8	Added	
A1	MX06FRO660-03	71.3	15.4	92	2	b	Front	33	-8	Added	
R4	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	92	2	a	Behind	36	0	Added	
R5	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	46	3	a	Behind	36	0	Added	
R2	MT6407-77A	35.1	16.1	20	4	a	Front	33	0	Added	

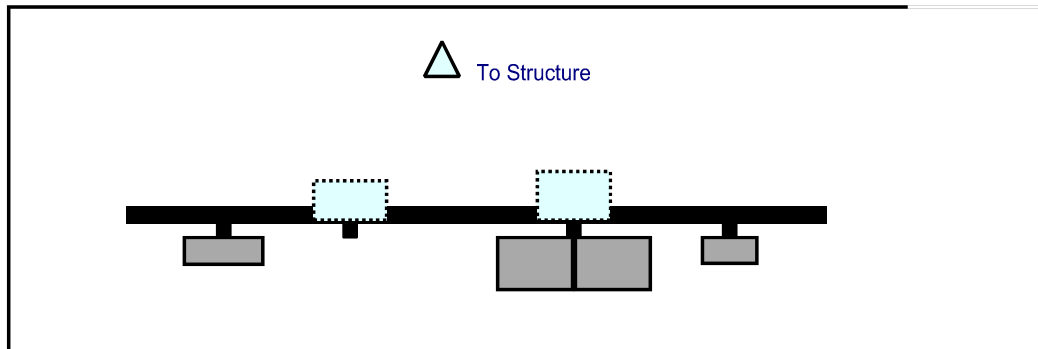
Sector: C
 Structure Type: Guyed
 Mount Elev: 242.75

4/23/2021

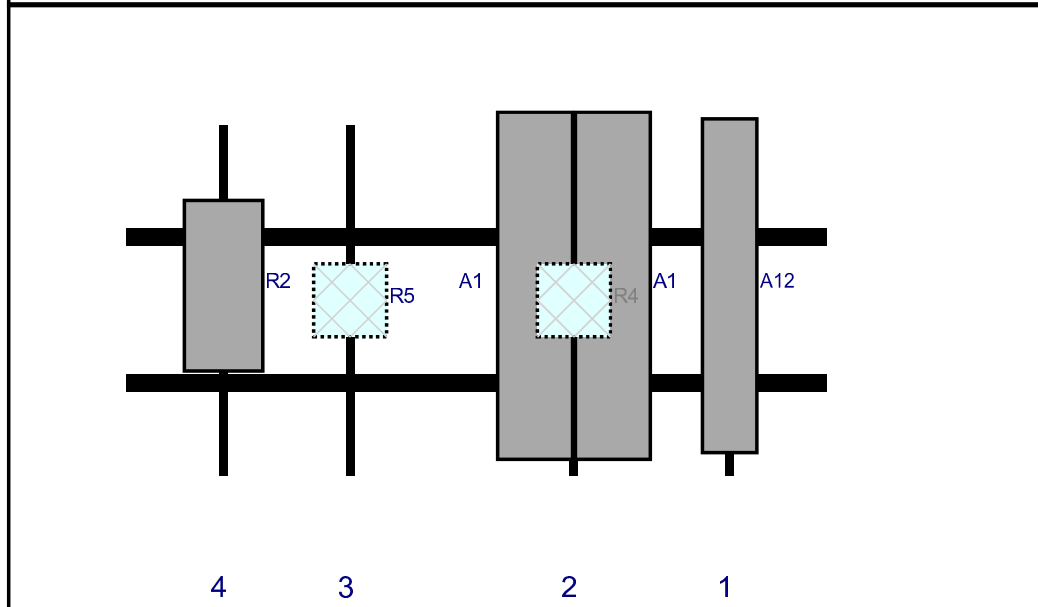
Page: 3



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
A12	BXA-80063-6BF-EDIN-X	68.6	11.2	124	1	a	Front	33	0	Retained	02/23/2021
A1	MX06FRO660-03	71.3	15.4	92	2	a	Front	33	8	Added	
A1	MX06FRO660-03	71.3	15.4	92	2	b	Front	33	-8	Added	
R4	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	92	2	a	Behind	36	0	Added	
R5	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	46	3	a	Behind	36	0	Added	
R2	MT6407-77A	35.1	16.1	20	4	a	Front	33	0	Added	

Maser Consulting Connecticut

Subject

TIA-222-H Usage

Site Information

Site ID: 469200-VZW /
THOMPSON CT
Site Name: THOMPSON CT
Carrier Name: Verizon Wireless
Address:
61 Lowell Davis Rd
Thompson, Connecticut 06255
Windham County

Latitude: 41.978944°
Longitude: -71.852572°

Structure Information

Tower Type: 250-Ft Guyed
Mount Type: 12.00-Ft T-Frame

To Whom It May Concern,

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

The 2018 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. 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.

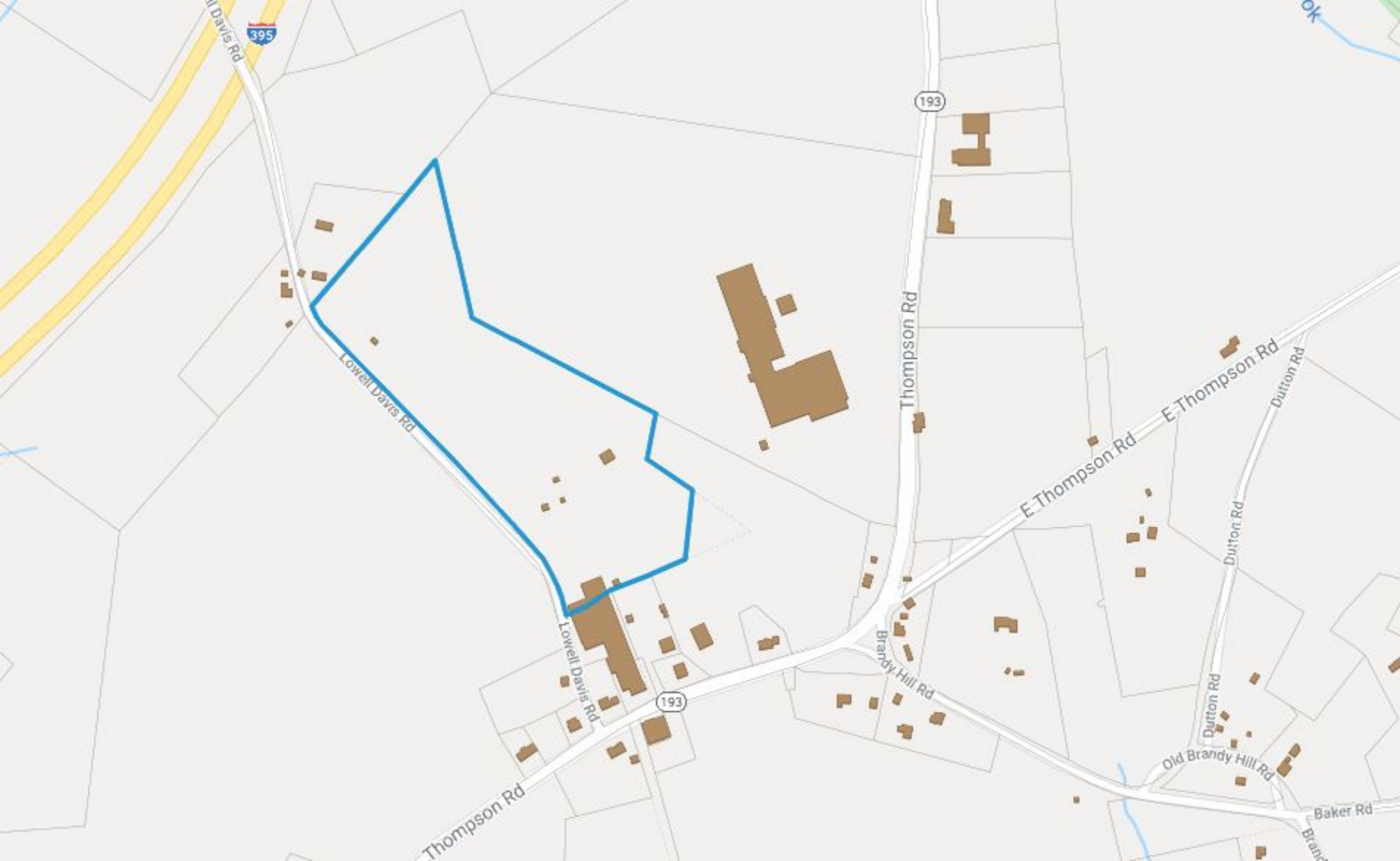
Sincerely,



Digitally signed by Justin Linette
Date: 2021.04.28 16:25:28-04'00'

Justin Linette, PE
Sr. Technical Specialist

ATTACHMENT 5





THOMPSON,CT

61 LOWELL DAVIS RD

Location

61 LOWELL DAVIS RD

Mblu

120/ 30/ 2/ /

Acct#

003514

Owner

NUMA TOOL COMPANY

Assessment

\$190,000

Appraisal

\$271,300

PID

3715

Building Count

1

Current Value

Appraisal

Valuation Year	Improvements	Land	Total
2019	\$800	\$270,500	\$271,300

Assessment

Valuation Year	Improvements	Land	Total
2019	\$600	\$189,400	\$190,000

Owner of Record**Owner** NUMA TOOL COMPANY**Co-Owner****Address** PO BOX 348
THOMPSON, CT 06277**Sale Price** \$0**Certificate****Book & Page** 0180/0181**Sale Date** 07/30/1985

Ownership History

Ownership History

Owner	Sale Price	Certificate	Book & Page	Sale Date
NUMA TOOL COMPANY	\$0		0180/0181	07/30/1985

Building Information

Building 1 : Section 1

Year Built:**Living Area:** 0**Replacement Cost:** \$0**Building Percent Good:****Replacement Cost****Less Depreciation:** \$0

Building Attributes

Field	Description
Style	Outbuildings
Model	
Grade:	
Stories:	

ATTACHMENT 6



THOMPSON
Certificate of Mailing — Firm

Name and Address of Sender Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™ 3	Affix Stamp Here <i>Postmark with Date of Receipt.</i>		
	Postmaster, per (name of receiving employee) [Signature]				

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Amy St. Onge, First Selectman Town of Thompson 815 Riverside Drive North Grosvenordale, CT 06255				
2.	Tyra Penn-Gesek, Director of Planning and Development Town of Thompson 815 Riverside Drive North Grosvenordale, CT 06255				
3.	NUMA Tool Company P.O. Box 348 Thompson, CT 06277				
4.					
5.					
6.					