

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 4, 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
60 Industrial Park Road, Vernon, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) maintains an existing wireless telecommunications facility at the above-referenced property address (the “Property”). The facility consists of antennas and remote radio heads attached to a tower and related equipment on the ground, near the base of the tower. The tower was approved by the Town of Vernon (“Town”) in March of 2000. Cellco’s use of the tower was approved by the Council in December of 2000 (TS-VER-146-001113). A copy of the Town’s original tower approval and the Council’s TS-VER-146-001113 approval are included in [Attachment 1](#).

Cellco now intends to modify its facility by installing three (3) Samsung MT6407-77A antennas on its existing antenna mounting platform. A set of project plans showing Cellco’s proposed facility modifications and new antennas are included in [Attachment 2](#).

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

Melanie A. Bachman, Esq.
October 4, 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.
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 4, 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:

Daniel A. Champagne, Vernon Mayor
George McGregor, Town Planner
Industrial Park Road LLC
Karla Hanna

ATTACHMENT 1

Town of Vernon, Conn.

BUILDING PERMIT

No 29885

ESTIMATED COST

Structural

\$ 95,000.00

Plumbing

Heating

Wiring

and
CERTIFICATE OF ZONING COMPLIANCE

FINAL COST:

\$

FEE \$ 950.00

March 8

2000

APPLICANT'S PERMIT

Permission is hereby granted to Omnipoint Communications
 To installation of telecommunications tower
 on the side of No. 60 Industrial Park Road Owner: Beauregard

Class	Size		Heating	Air Condition
Type				Oil Burner
Foundations	Porch	X	Basement	Cement
Ext. Walls			Plumbing	Earth
Roof			Bath	Lavatory
Roofing			Fire Places	
Interior	Ceiling Height		Weatherstrip	Insulation
No. of Rooms	1st Floor	2nd Floor	Attach. Garage	Cement
Floors			Interior Finish	
Flooring			Breezeway	X
Joists				

This permit expires six (6) months from the above date.

All building permits are approved subject to field inspection.

BUILDING DEPARTMENT, TOWN OF VERNON, CONN.

Gene L. Belles

Building Official/
Zoning Enforcement Officer

December 4, 2000

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

RE: **TS-VER-146-001113** - Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 60 Industrial Park Road, Vernon, Connecticut.

Dear Ms. Carter:

At a public meeting held November 30, 2000, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

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

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

The proposed shared use is to be implemented as specified in your letter dated November 13, 2000.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/laf

c: Honorable Stephen C. Marcham, Mayor, Town of Vernon
Laurence Shaffer, Town Administrator, Town of Vernon
Milton R. Hathaway, President, Mountaintop Services, Inc.
J. Brendan Sharkey, VoiceStream Wireless

ATTACHMENT 2



MAP DATA © 2020 GOOGLE

LOCUS MAP

SCALE: N.T.S.



APPROXIMATE
SITE COORDINATES: LAT: N41° 50' 8.0"
LONG: W72° 27' 16.99"

NOTE:

AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY: HUDSON DESIGN GROUP, LLC.
DATED: AUGUST 03, 2021

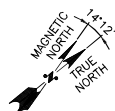
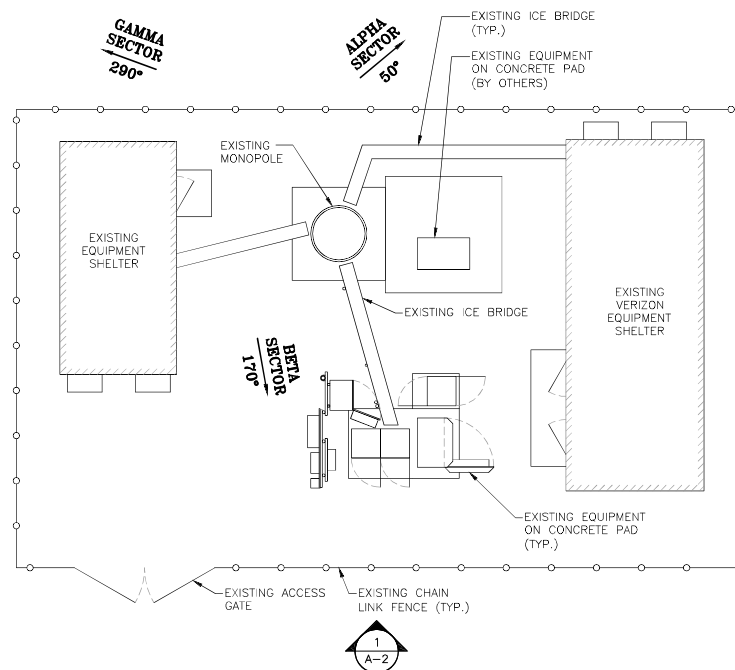
NOTE:

AN ANALYSIS FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING IS BASED UPON THE LATEST MOUNT ANALYSIS BY MASER CONSULTING P.A.

NOTE:

PROPOSED MT6407-77A ANTENNA SIZE AND WEIGHT ARE NOT TO EXCEED:

DIMENSIONS H35.12"xW16.06"xD5.51"
WEIGHT (INCLUDING INTEGRATED RRH) 87.1 LBS



COMPOUND PLAN

22x34 SCALE: 3/16"=1'-0"
11x17 SCALE: 3/32"=1'-0"



SCOPE

- EXISTING (12) ANTENNAS TO REMAIN, INSTALL (3) PROPOSED ANTENNAS PER 'RF'.
- EXISTING (9) RRHs TO REMAIN, INSTALL (3) PROPOSED RRHs PER 'RF'.
- EXISTING (1) JUNCTION BOX TO REMAIN PER 'RF'.
- EXISTING (1) HYBRID CABLES TO REMAIN PER 'RF'.
- EXISTING (6) COAX CABLES TO REMAIN PER 'RF'.
- ALL REPLACEMENT ANTENNAS TO MATCH EXISTING CONDITION & HEIGHTS.
- RECONFIGURE/RELOCATE EXISTING ANTENNA MOUNTS AS NECESSARY TO ACCOMMODATE HORIZONTAL SEPARATION, PROPOSED AZIMUTHS, AND ANTENNAS CONFIGURATION.

NEW ANTENNA CONFIGURATION

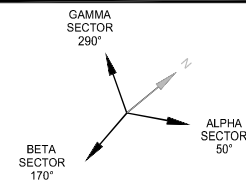
NOTE TO GENERAL CONTRACTOR:

'RF' DESIGN AND EQUIPMENT IS BASED UPON
RFDS ISSUED BY VZW DATED: 08/03/2021
THE CONTRACTOR OF RECORD SHALL CONTACT VZW PRIOR TO ANY AND ALL ORDERING/PURCHASING/INSTALLATION OF EQUIPMENT TO VERIFY THAT THE 'RF' LISTED IN THE DRAWING SET IS CURRENT AND UP TO DATE.

NOTES

- NORTH SHOWN AS APPROXIMATE.
- SOME EXISTING & PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
- ANTENNAS WILL BE CAMOUFLAGED WITH 3M WRAP OR SHERWIN-WILLIAMS PRO INDUSTRIAL DTM ACRYLIC PAINT, AS NEEDED, PER VERIZON WIRELESS AND BUILDING OWNER'S APPROVAL.
- PRIOR TO COMMENCEMENT OF ANY WORK, PROPOSED ANTENNA INSTALLATION IS PURSUANT TO FINDINGS DICTATED IN STRUCTURAL ANALYSIS. STRUCTURAL ANALYSIS TO VERIFY CAPACITY OF EXISTING STRUCTURE TO ENSURE STRUCTURAL INTEGRITY FOLLOWING INSTALLATION OF PROPOSED ANTENNAS, COAX CABLES AND REQUIRED HARDWARE. COPY OF STRUCTURAL ANALYSIS TO BE SENT TO DESIGN ENGINEER.
- CONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, VERIZON WIRELESS ANTENNA MOUNT LOCATION AND ANTENNAS TO BE INSTALLED.
- CONTRACTOR SHALL NOTIFY ENGINEERS IF FIELD CONDITIONS DIFFER FROM DESIGN.
- RAD CENTERS MEASURED IN THE FIELD WITH LASER BY HDG. RAD CENTERS MAY NOT MATCH RF ANTENNA DESIGN SHEET.

ANTENNA ORIENTATION

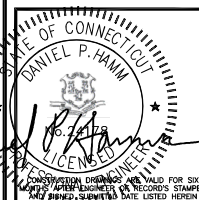


PREPARED FOR: CELCO PARTNERSHIP D.B.A.

verizon

HDG
HUDSON
Design Group LLC

45 BEECHWOOD DRIVE TEL: (978) 557-5553
N. ANDOVER, MA 01845 FAX: (978) 268-5554



CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
0	08/08/21	ISSUED FOR REVIEW	DPH

SITE NAME:

VERNON 2 CT

SITE ADDRESS:

60 INDUSTRIAL PARK ROAD
VERNON, CT 06066

SHEET TITLE

COMPOUND PLAN

SHEET NUMBER

A-1

PROPOSED ANTENNA INFORMATION

SECTOR	STATUS	AZIMUTH	CABLE LENGTH
ALPHA	EXISTING/PROPOSED	50°	200'
BETA	EXISTING/PROPOSED	170°	200'
GAMMA	EXISTING/PROPOSED	290°	200'

NOTE: CABLE LENGTH = EXACT LENGTH PLUS 25'.
CONTRACTOR TO VERIFY CABLE LENGTH PRIOR TO ORDERING.

NOTE:

AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY: HUDSON DESIGN GROUP, LLC.
DATED: AUGUST 03, 2021

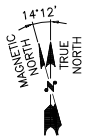
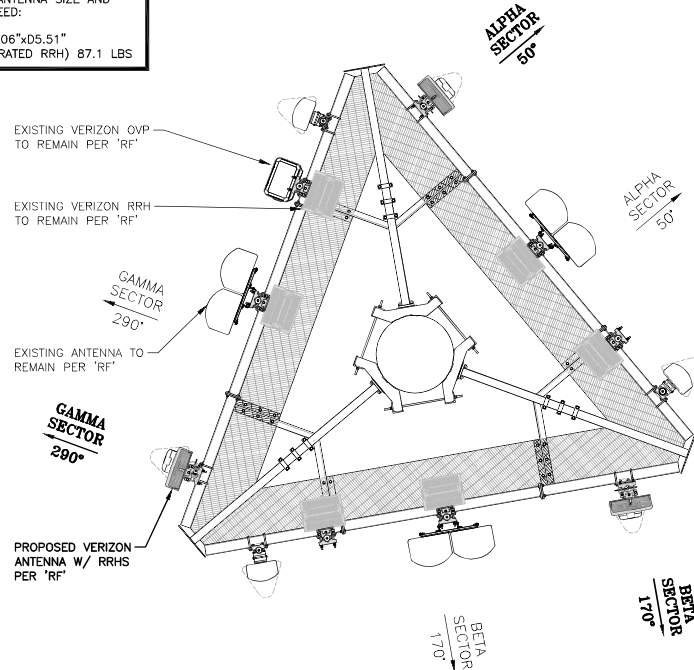
NOTE:

AN ANALYSIS FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING IS BASED UPON THE LATEST MOUNT ANALYSIS BY MASER CONSULTING P.A.

NOTE:

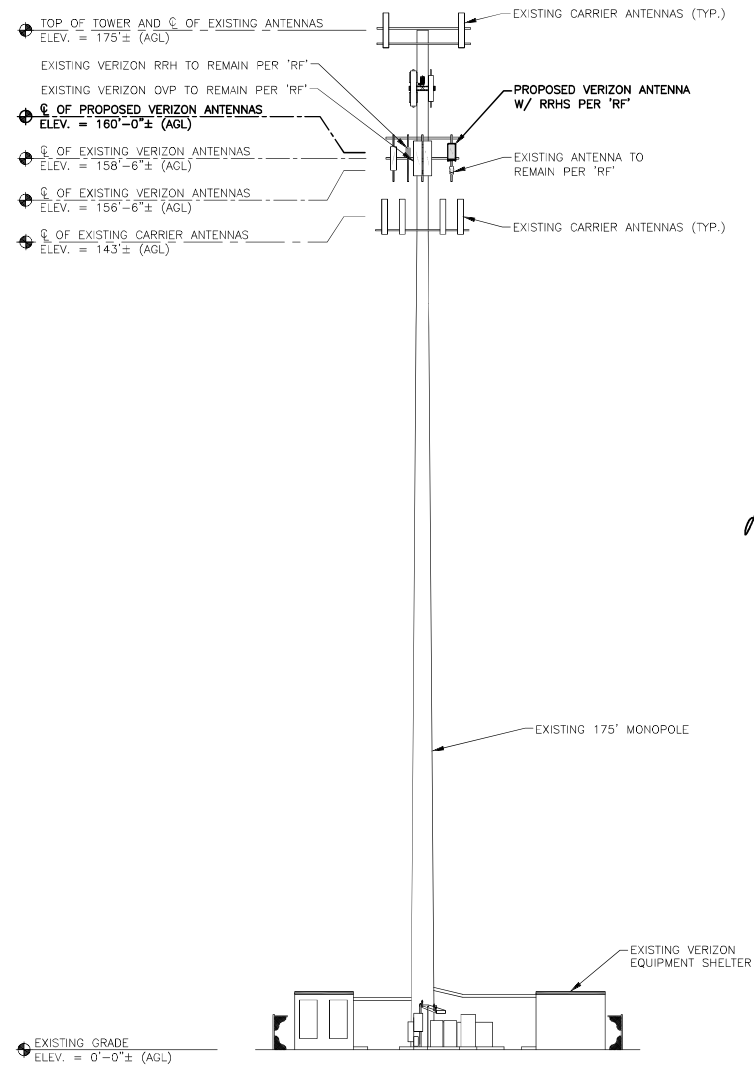
PROPOSED MT6407-77A ANTENNA SIZE AND WEIGHT ARE NOT TO EXCEED:

DIMENSIONS H35.12"xW16.06"xD5.51"
WEIGHT (INCLUDING INTEGRATED RRH) 87.1 LBS



ANTENNA PLAN
SCALE: N.T.S.

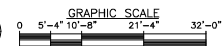
1
A-2



ELEVATION

22x34 SCALE: 3/32"=1'-0"
11x17 SCALE: 3/64"=1'-0"

2
A-2

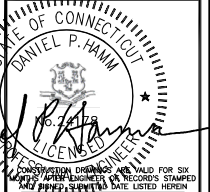


PREPARED FOR: CELCO PARTNERSHIP D.B.A.

verizon

HDG
HUDSON
Design Group LLC

45 BEECHWOOD DRIVE TEL: (978) 557-5553
14 ANDOVER, MA 01845 FAX: (978) 328-5334



CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
0	08/08/21	ISSUED FOR REVIEW	JF

SITE NAME:

VERNON 2 CT

SITE ADDRESS:

60 INDUSTRIAL PARK ROAD
VERNON, CT 06066

SHEET TITLE

ANTENNA PLAN
& ELEVATION

SHEET NUMBER

A-2

STRUCTURAL NOTES:

- DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, INTERNATIONAL BUILDING CODE, EIA/TIA-222-H STRUCTURAL STANDARDS FOR STEEL ANTENNA, TOWERS AND ANTENNA SUPPORTING STRUCTURES.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER OF RECORD.
- DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 ($F_y=50$ ksi), MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE INDICATED.
- STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.
- STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 TYPE-X "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE 3/4" DIA UON.
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
- FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, ZIRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
- CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND DLI. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "STEEL CONSTRUCTION MANUAL". 14TH EDITION.
- INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.
- UNISTRUT SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP., WAYNE, MI OR EQUAL. STRUT MEMBERS SHALL BE 1 5/8"x1 5/8"x12GA, UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
- EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS, AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-270 AND OR HY-200 SYSTEMS (AS SPECIFIED IN DWG.) OR ENGINEERS APPROVED EQUAL.
- EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, HILTI KWIK BOLT III OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.
- WHERE ROOF PENETRATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT AND COORDINATE RELATED WORK WITH THE BUILDING OWNER AND THE EXISTING ROOF INSTALLER. WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO NOT VOID THE EXISTING ROOF WARRANTY. ROOF SHALL BE WATERTIGHT.
- ALL FIBERGLASS MEMBERS USED ARE AS MANUFACTURED BY STRONGWELL COMPANY OF BRISTOL, VA 24203. ALL DESIGN CRITERIA FOR THESE MEMBERS IS BASED ON INFORMATION PROVIDED IN THE DESIGN MANUAL. ALL REQUIREMENTS PUBLISHED IN SAID MANUAL MUST BE STRICTLY ADHERED TO.
- NO MATERIALS TO BE ORDERED AND NO WORK TO BE COMPLETED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED IN WRITING.
- SUBCONTRACTOR SHALL FIREPROOF ALL STEEL TO PRE-EXISTING CONDITIONS.

SPECIAL INSPECTIONS (REFERENCE IBC CHAPTER 17):

GENERAL: WHERE APPLICATION IS MADE FOR CONSTRUCTION, THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE INSPECTION CHECKLIST ABOVE.

THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND ENGINEERS OF RECORD INVOLVED IN THE DESIGN OF THE PROJECT ARE PERMITTED TO ACT AS THE SPECIAL INSPECTOR FOR THE WORK DESIGNED BY THEM, PROVIDED THOSE PERSONNEL MEET THE QUALIFICATION REQUIREMENTS.

STATEMENT OF SPECIAL INSPECTIONS: THE APPLICANT SHALL SUBMIT A STATEMENT OF SPECIAL INSPECTIONS PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IN ACCORDANCE WITH SECTION 107.1 AS A CONDITION FOR ISSUANCE. THIS STATEMENT SHALL BE IN ACCORDANCE WITH SECTION 1705.

REPORT REQUIREMENT: SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS SHALL BE SUBMITTED.

SPECIAL INSPECTION CHECKLIST**BEFORE CONSTRUCTION**

CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
N/A	ENGINEER OF RECORD APPROVED SHOP DRAWINGS ¹
N/A	MATERIAL SPECIFICATIONS REPORT ²
N/A	FABRICATOR NDE INSPECTION
N/A	PACKING SLIPS ³

ADDITIONAL TESTING AND INSPECTIONS:**DURING CONSTRUCTION**

CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	STEEL INSPECTIONS
N/A	HIGH STRENGTH BOLT INSPECTIONS
N/A	HIGH WIND ZONE INSPECTIONS ⁴
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH, SLUMP TESTS AND PLACEMENT
N/A	POST INSTALLED ANCHOR VERIFICATION ⁵
N/A	GROUT VERIFICATION
N/A	CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
N/A	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT

ADDITIONAL TESTING AND INSPECTIONS:**AFTER CONSTRUCTION**

CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWINGS ⁶
N/A	POST INSTALLED ANCHOR PULL-OUT TESTING
REQUIRED	PHOTOGRAPHS

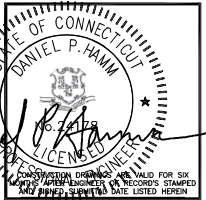
ADDITIONAL TESTING AND INSPECTIONS:**NOTES:**

- REQUIRED FOR ANY NEW SHOP FABRICATED FRP OR STEEL.
- PROVIDED BY MANUFACTURER, REQUIRED IF HIGH STRENGTH BOLTS OR STEEL.
- PROVIDED BY GENERAL CONTRACTOR; PROOF OF MATERIALS.
- HIGH WIND ZONE INSPECTION CATB 120MPH OR CAT C,D 110MPH INSPECT FRAMING OF WALLS, ANCHORING, FASTENING SCHEDULE.
- ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES. DRILLED USING A CARBIDE BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-11 D.9.2.2. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-11 D.8.2.4.
- AS REQUIRED; FOR ANY FIELD CHANGES TO THE ITEMS IN THIS TABLE.

NOTES:

- ALL CONNECTIONS TO BE SHOP WELDED & FIELD BOLTED USING 3/4" A325-X BOLTS, UNLESS OTHERWISE NOTIFIED.
- SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED BEFORE ORDERING MATERIAL.
- SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED PRIOR TO STEEL FABRICATION.
- VERIFICATION OF EXISTING ROOF CONSTRUCTION IS REQUIRED PRIOR TO THE INSTALLATION OF THE ROOF PLATFORM. ENGINEER OF RECORD IS TO APPROVE EXISTING CONDITIONS IN ORDER TO MOVE FORWARD.
- CENTERLINE OF PROPOSED STEEL PLATFORM SUPPORT COLUMNS TO BE CENTRALLY LOCATED OVER THE EXISTING BUILDING COLUMNS.
- EXISTING BRICK MASONRY COLUMNS/BEARING TO BE REPAIRED/REPLACED AT ALL PROPOSED PLATFORM SUPPORT POINTS. ENGINEER OF RECORD TO REVIEW AND APPROVE.

PREPARED FOR: CELCO PARTNERSHIP D.B.A.

verizon**HG**
HUDSON
Design Group LLC45 BEECHWOOD DRIVE TEL: (978) 557-5553
N. ANDOVER, MA 01845 FAX: (978) 254-5554

CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
0	08/08/21	ISSUED FOR REVIEW	SR

SITE NAME:

VERNON 2 CT

SITE ADDRESS:

60 INDUSTRIAL PARK ROAD
VERNON, CT 06066

SHEET TITLE

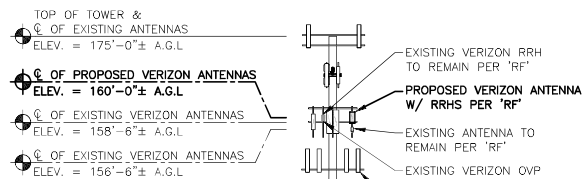
**STRUCTURAL NOTES
AND SPECIAL
INSPECTIONS**

SHEET NUMBER

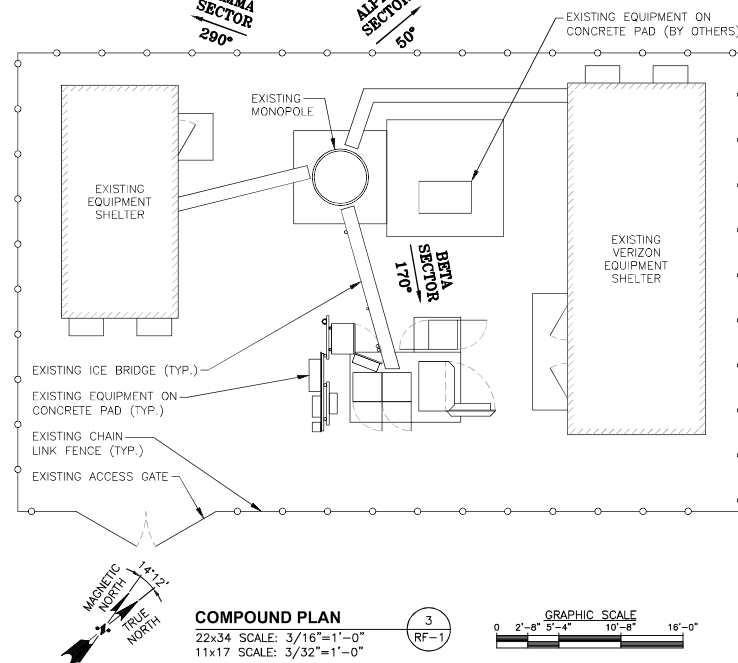
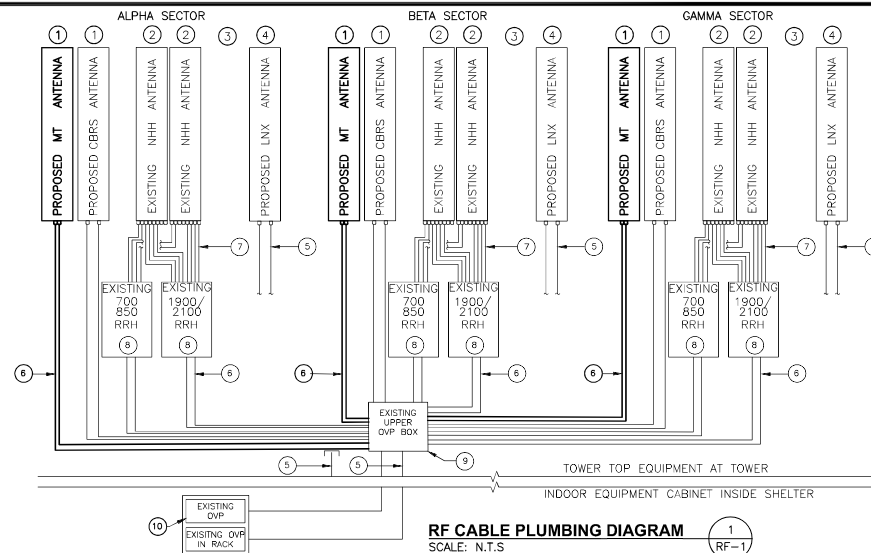
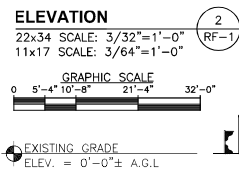
SN-1

BILL OF MATERIALS				
SITE NAME: VERNON 2 CT				
ITEM	DESCRIPTION	QTY	LENGTH	COMMENTS
①	PROPOSED MT6407-77A ANTENNA	3		MOUNTED TO EXISTING PIPE
①	EXISTING CBRS RRH WITH CLIP-ON ANTENNA	3		MOUNTED TO EXISTING PIPE
②	EXISTING NHH-65B-R2B ANTENNA	3		MOUNTED TO EXISTING PIPE
②	EXISTING NHH-65B-R2B ANTENNA	3		MOUNTED TO EXISTING PIPE
③				
④	EXISTING LNX-6513DS-A1M ANTENNA	3		MOUNTED TO EXISTING PIPE
⑤	EXISTING 6X12 HYBRID CABLE	2	200 FT.	ROUTE FROM INDOOR EQUIPMENT TO ANTENNA SECTOR
⑤	EXISTING COAX CABLES	6	200 FT.	ROUTE FROM RRH TO ANTENNA
⑥	EXISTING SAMSUNG FIBER JUMPER CABLES	9	15 FT.	ROUTE FROM OVP TO RRH
⑥	EXISTING SAMSUNG POWER JUMPER CABLES	9	15 FT.	ROUTE FROM OVP TO RRH
⑥	PROPOSED SAMSUNG FIBER JUMPER CABLES	3	15 FT.	ROUTE FROM OVP TO RRH
⑥	PROPOSED SAMSUNG POWER JUMPER CABLES	3	15 FT.	ROUTE FROM OVP TO RRH
⑦	EXISTING 1/2" TOP COAX JUMPERS	36	12 FT.	ROUTE FROM RRH TO ANTENNA
⑧	EXISTING LTE 700/850 RRH	3		SAMSUNG RRH B5/B13 RRH-BR04C PIPE MOUNTED
⑧	EXISTING PCS/AWS 1900/2100 RRH	3		SAMSUNG RRH B2/B66A RRH-BR049 PIPE MOUNTED
⑨	EXISTING UPPER OVP	1		MOUNTED TO PIPE MAST
⑩	EXISTING LOWER OVP	1		RACK MOUNTED INSIDE CABINET

THE ABOVE RF-BOM SHEET IS BASED ON INFORMATION LISTED ON ANTENNA RECOMMENDATION SHEET DATED 08/03/21



NOTE:
PROPOSED MT6407-77A ANTENNA SIZE AND WEIGHT ARE NOT TO EXCEED:
DIMENSIONS H35.12"xW16.06"xD5.51"
WEIGHT (INCLUDING INTEGRATED RRH) 87.1 LBS



PREPARED FOR: CELCO PARTNERSHIP D.B.A.

verizon

HUDSON
Design Group LLC

45 BEECHWOOD DRIVE TEL: (978) 557-5553
N. ANDOVER, MA 01845 FAX: (978) 358-5304

CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
0	08/08/21	ISSUED FOR REVIEW	SR

SITE NAME:

VERNON 2 CT

SITE ADDRESS:

60 INDUSTRIAL PARK ROAD
VERNON, CT 06066

SHEET TITLE

RF PLUMBING
DIAGRAM AND BILL
OF MATERIALS

SHEET NUMBER

RF-1

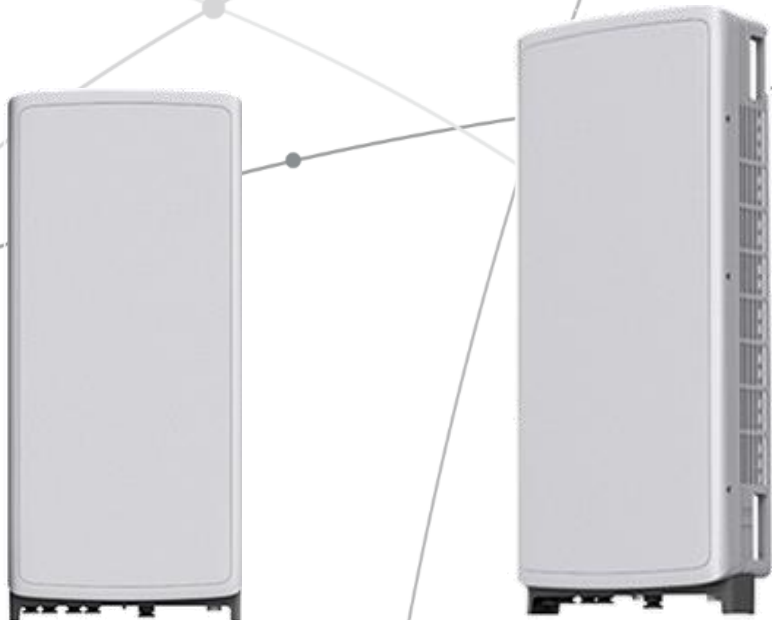
SAMSUNG

SAMSUNG C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

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

Model Code : MT6407-77A



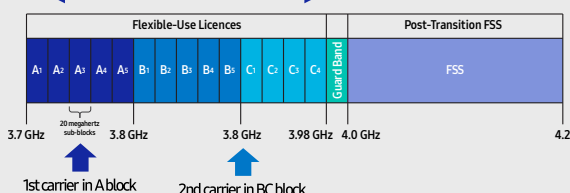
Points of Differentiation

Wide Bandwidth

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

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

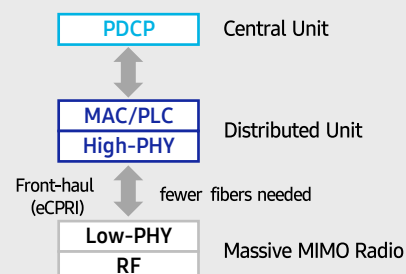
C-Band spectrum supported by Massive MIMO Radio



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.

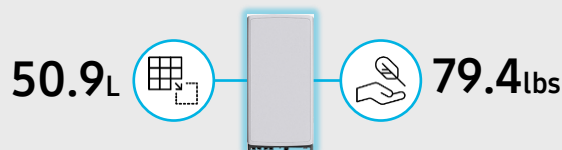
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



Well Matched Design

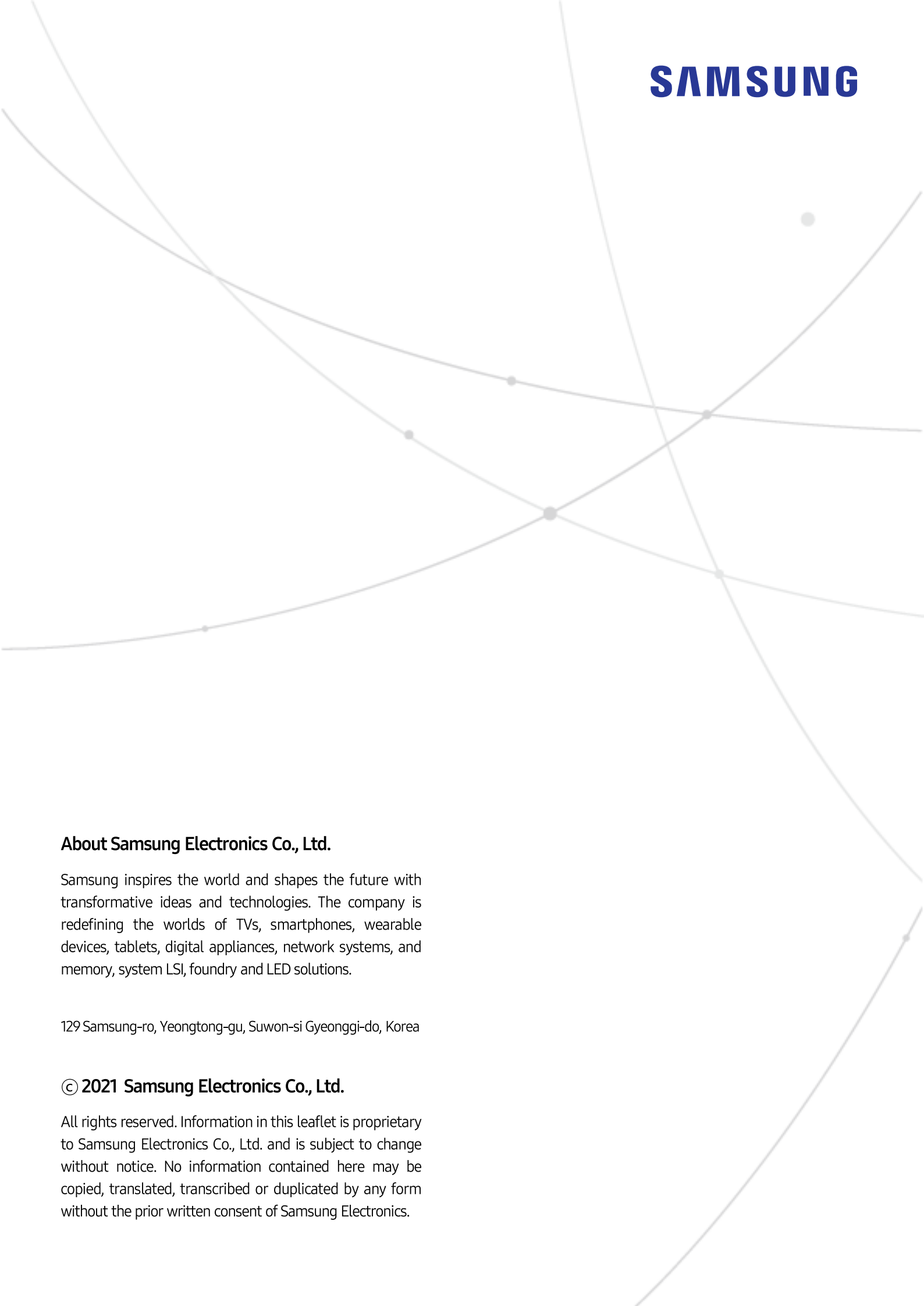
Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. Despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

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



SAMSUNG

About Samsung Electronics Co., Ltd.

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

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

© 2021 Samsung Electronics Co., Ltd.

All rights reserved. Information in this leaflet is proprietary to Samsung Electronics Co., Ltd. and is subject to change without notice. No information contained here may be copied, translated, transcribed or duplicated by any form without the prior written consent of Samsung Electronics.

ATTACHMENT 3

	General	Power	Density					
Site Name: Vernon 2								
Tower Height: Verizon @ 153ft								
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	FREQ.	CALC. POWER DENS	MAX. PERMISS. EXP.	FRACTION MPE	Total
*AT&T	1	247	165	850	0.0035	0.5667	0.06%	
*AT&T	2	1476	165	700	0.0420	0.4667	0.90%	
*AT&T	1	2951	165	700	0.0420	0.4667	0.90%	
*AT&T	1	1000	165	850	0.0142	0.5667	0.25%	
*AT&T	1	1000	165	850	0.0142	0.5667	0.25%	
*AT&T	3	3664	165	1900	0.1564	1.0000	1.56%	
*AT&T	1	3837	165	2100	0.0546	1.0000	0.55%	
*AT&T	1	1285	165	2300	0.0183	1.0000	0.18%	
*Nextel	9	100	145	851	0.0168	0.5673	0.30%	
*T-Mobile	2	592	178.6	600	0.0143	0.4000	0.36%	
*T-Mobile	1	1578	178.6	600	0.0190	0.4000	0.48%	
*T-Mobile	2	649	178.6	700	0.0157	0.4667	0.34%	
*T-Mobile	2	2204	178.6	1900	0.0532	1.0000	0.53%	
*T-Mobile	2	1295	178.6	2100	0.0313	1.0000	0.31%	
*T-Mobile	2	6413	178.6	2500	0.1548	1.0000	1.55%	
*T-Mobile	2	6413	178.6	2500	0.1548	1.0000	1.55%	
*T-Mobile	4	1028	178.6	1900	0.0496	1.0000	0.50%	
*T-Mobile	2	2057	178.6	1900	0.0497	1.0000	0.50%	
*T-Mobile	2	2308	178.6	2100	0.0557	1.0000	0.56%	
VZW 700	4	686	153	751	0.0042	0.5007	0.84%	
VZW CDMA	2	381	153	869	0.0012	0.5793	0.20%	
VZW Cellular	2	691	153	869	0.0042	0.5793	0.73%	
VZW PCS	4	1466	153	1980	0.0090	1.0000	0.90%	
VZW AWS	4	1626	153	2125	0.0100	1.0000	1.00%	
VZW CBAND	4	6531	153	3730	0.0401	1.0000	4.01%	
VZW CBRS	4	12	153	3625	0.0001	1.0000	0.01%	
* Source: Siting Council								19.31%

ATTACHMENT 4

STRUCTURAL ANALYSIS REPORT

For

SITE NAME: VERNON 2 CT

60 Industrial Park Road
Vernon, CT 06066

Antennas Mounted on the Monopole



Prepared for:

verizon✓

20 Alexander Drive
Wallingford, CT 06492

Dated: August 3, 2021

Prepared by:



HUDSON
Design Group LLC

45 Beechwood Drive
North Andover, MA 01845
(P) 978.557.5553 (F) 978.336.5586
www.hudsondesigngroupllc.com





HUDSON
Design Group LLC

SCOPE OF WORK:

Hudson Design Engineering, PLLC (HDG) has been authorized by Verizon to conduct a structural evaluation of the 175' Monopole supporting the proposed Verizon antennas located at elevation 160' above the ground level.

This report represents this office's findings, conclusions and recommendations pertaining to the support of Verizon's existing and proposed antennas listed below.

The following documents were used for our reference:

- Record Tower and Foundation Drawings prepared by Pirod Inc. dated January 28, 2000.
- Structural Analysis prepared by All-Points Technology Corporation dated October 13, 2020.
- Previous HDG Structural Analysis dated June 26, 2020.
- Mount Structural Analysis prepared by Maser Consulting dated July 1, 2021.
- Tower Mapping Report prepared by ProVertic LLC dated July 2, 2021.

CONCLUSION SUMMARY:

Based on our evaluation, we have determined that the existing monopole **is in conformance** with the ANSI/TIA-222-G Standard for the loading considered under the criteria listed in this report. The tower structure is rated at **99.2 %** - (Flange Bolts at EL.80' Controlling).

FOUNDATION SUMMARY:

Based on our evaluation, we have determined that the existing foundation **is in conformance** with the ANSI/TIA-222-G Standard for the loading considered under the criteria listed in this report. The foundation is rated at **81.3 %** - (Overturning Controlling).



APPURTENANCES CONFIGURATION:

Tenant	Appurtenances	Elev.	Mount
	(3) APXVARR24_43-C-NA20 Antennas	178'	Steel Platform
	(3) AIR6449 B41 Antennas	178'	Steel Platform
	(3) AIR 32 Antenna	178'	Steel Platform
	(3) 4449 RRH's	178'	Steel Platform
	(3) 4415 RRH's	178'	Steel Platform
	(6) TMA	178'	Steel Platform
	(3) 800-10121 Antennas	168'	Sector Frame
	(3) QS66512-2 Antennas	168'	Sector Frame
	(3) HPA-65R-LCUU-H6 Antennas	168'	Sector Frame
	(3) DMP65R-BU6DA Antennas	168'	Sector Frame
	(3) RRUS-32	168'	Sector Frame
	(3) B14 4478	168'	Sector Frame
	(3) RRUS-E2	168'	Sector Frame
	(3) 8843 RRH	168'	Sector Frame
	(3) 4449 RRH	168'	Sector Frame
	(6) TMA	168'	Sector Frame
	(3) Surge Arrestors	168'	Sector Frame
Verizon	(3) MT6407-77A Antennas	160'	Steel Platform
Verizon	(3) LNX-6513DS-A1M Antennas	158.5'	Steel Platform
Verizon	(6) NHH-65B-R2B Antennas	158.5'	Steel Platform
Verizon	(3) B2/B66A RRH-BR049 RRH's	158.5'	Steel Platform
Verizon	(3) B5/B13 RRH-BR04C RRH's	158.5'	Steel Platform
Verizon	(1) Junction Box	158.5	Steel Platform
	(1) GPS Antenna	158'	Steel Platform
Verizon	(3) XXDWMM-12.5-65-8T-CBRS Antenna w/ CBRS RRH Clip on	156.5'	Steel Platform
	(12) Mounting Pipes	144.6'	Steel Platform

***Proposed Verizon Appurtenances shown in Bold.**

VERIZON EXISTING/PROPOSED COAX CABLES:

Tenant	Coax Cables	Elev.	Mount
Verizon	(6) 1 5/8" Coax Cables	158'	Inside Monopole
Verizon	(2) 6x12 Hybrid Cables	158'	Inside Monopole

***Proposed Verizon Coax Cables shown in Bold.**



ANALYSIS RESULTS SUMMARY:

Component	Max. Stress Ratio	Elev. of Component (ft)	Pass/Fail	Comments
Pole Section-L1	36.3 %	161 – 176	PASS	
Pole Section-L2	63.0 %	141 – 161	PASS	
Pole Section-L3	76.4 %	121 – 141	PASS	
Pole Section-L4	82.5 %	101 – 121	PASS	
Pole Section-L5	85.3 %	81 – 101	PASS	
Pole Section-L6	86.5 %	61 – 81	PASS	
Pole Section-L7	86.7 %	41 – 61	PASS	
Pole Section-L8	76.4 %	21 – 41	PASS	
Pole Section-L9	70.3 %	1 – 21	PASS	
Flange Bolts	99.2 %	81	PASS	Controlling
Base Plate	65.8 %	1	PASS	

FOUNDATION COMPARISON SUMMARY:

	Stress Ratio	Pass/Fail	Comments
Bearing	77.5 %	PASS	
Overturning	81.3 %	PASS	Controlling
Shear	18.0 %	PASS	



HUDSON
Design Group LLC

DESIGN CRITERIA:

1. EIA/TIA-222-G Structural Standards for Steel Antenna Towers and Antenna Supporting Structures

County: Tolland

Ultimate Wind Speed: 125 mph (3 second gust)

Nominal Wind Speed: 97 mph

Minimum Basic Wind Speed: 95 mph (per TIA-222-G)

Structural Class: II

Exposure Category: B

Topographic Category: 1

Nominal Ice Thickness: 1 inch

2. Approximate height above grade to proposed antennas: 160'

***Calculations and referenced documents are attached.**

ASSUMPTIONS:

1. The appurtenances configuration is as stated in this report. All antennas, coax cables and waveguide cables are assumed to be properly installed and supported as per the manufacturer's requirements.
2. The tower and foundation are properly constructed and maintained. All structural members and their connections are assumed to be in good condition and are free from defects with no deterioration to its member capacities.
3. The support mounts and platforms are not analyzed and are considered adequate to support the loading. The analysis is limited to the primary support structure itself.

SUPPORT RECOMMENDATIONS:

HDG recommends that the proposed antennas be mounted on the existing steel platform supported by the monopole.

Reference HDG's Latest Construction Drawings for all component and connection requirements (attached).



HUDSON
Design Group LLC



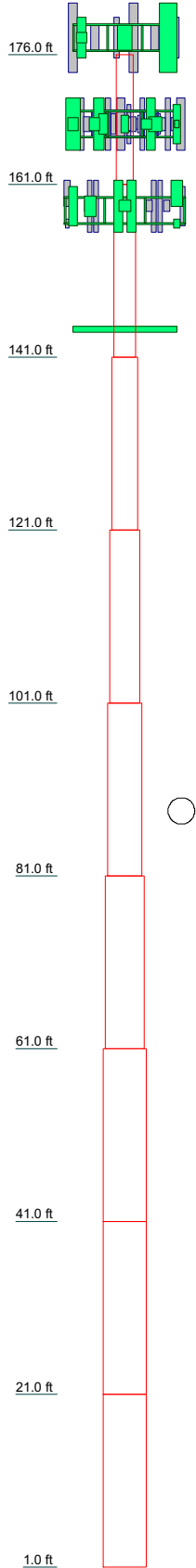
Photo 1: Photo illustrating the Tower with Appurtenances shown.



HUDSON
Design Group LLC

CALCULATIONS

Section	1	2	3	4	5	6	7	8	9	
Size	P24x3/8	P30x3/8	P36x3/8	P42x3/8	P48x3/8	P54x3/8	P60x3/8	P60x1/2	P60x5/8	
Length (ft)	15.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	
Grade	A53-B-42									
Weight (lb)	1420.6	2375.2	2856.3	3337.3	3818.4	4299.5	4780.5	6360.7	7934.1	37182.6



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
12' Platform w / handrails	178	B14 4478 RRH	168
APXVAARR24_43-U-NA20 Antenna w/ Mounting Pipe	178	RRUS-E2	168
APXVAARR24_43-U-NA20 Antenna w/ Mounting Pipe	178	RRUS-E2	168
APXVAARR24_43-U-NA20 Antenna w/ Mounting Pipe	178	8843 RRH	168
APXVAARR24_43-U-NA20 Antenna w/ Mounting Pipe	178	8843 RRH	168
AIr6449 B41 Antenna w/ Mounting Pipe	178	8843 RRH	168
AIr6449 B41 Antenna w/ Mounting Pipe	178	4449 RRH	168
AIr6449 B41 Antenna w/ Mounting Pipe	178	4449 RRH	168
AIr6449 B41 Antenna w/ Mounting Pipe	178	4449 RRH	168
AIr 32 Antenna w/ Mounting Pipe	178	Gen. TMA	168
AIr 32 Antenna w/ Mounting Pipe	178	Gen. TMA	168
AIr 32 Antenna w/ Mounting Pipe	178	Gen. TMA	168
4449 RRH	178	Gen. TMA	168
4449 RRH	178	Squid Surge Arrestor	168
4415 RRH	178	Squid Surge Arrestor	168
4415 RRH	178	MT6407-77A Antenna w/ Mounting Pipe	160
4415 RRH	178	MT6407-77A Antenna w/ Mounting Pipe	160
Gen. TMA	178	MT6407-77A Antenna w/ Mounting Pipe	160
Gen. TMA	178	LNx-6513DS-A1M Antenna w/ Mounting Pipe	158.5
Gen. TMA	178	LNx-6513DS-A1M Antenna w/ Mounting Pipe	158.5
Gen. TMA	178	LNx-6513DS-A1M Antenna w/ Mounting Pipe	158.5
12' Frame	168	NHH-65B-R2B Antenna w/ Mounting Pipe	158.5
12' Frame	168	NHH-65B-R2B Antenna w/ Mounting Pipe	158.5
12' Frame	168	NHH-65B-R2B Antenna w/ Mounting Pipe	158.5
800-10121 Antenna w/ Mounting Pipe	168	NHH-65B-R2B Antenna w/ Mounting Pipe	158.5
800-10121 Antenna w/ Mounting Pipe	168	NHH-65B-R2B Antenna w/ Mounting Pipe	158.5
800-10121 Antenna w/ Mounting Pipe	168	NHH-65B-R2B Antenna w/ Mounting Pipe	158.5
QS66512-2 Antenna w/ Mounting Pipe	168	NHH-65B-R2B Antenna w/ Mounting Pipe	158.5
QS66512-2 Antenna w/ Mounting Pipe	168	NHH-65B-R2B Antenna w/ Mounting Pipe	158.5
QS66512-2 Antenna w/ Mounting Pipe	168	NHH-65B-R2B Antenna w/ Mounting Pipe	158.5
HPA-65R-BUU-H6 Antenna w/ Mounting Pipe	168	NHH-65B-R2B Antenna w/ Mounting Pipe	158.5
HPA-65R-BUU-H6 Antenna w/ Mounting Pipe	168	B2/B66A RRH-BR049 RRH	158.5
HPA-65R-BUU-H6 Antenna w/ Mounting Pipe	168	B2/B66A RRH-BR049 RRH	158.5
DMP65R-BU6DA Antenna w/ Mounting Pipe	168	B5/13 RRH-BR04C RRH	158.5
DMP65R-BU6DA Antenna w/ Mounting Pipe	168	B5/13 RRH-BR04C RRH	158.5
DMP65R-BU6DA Antenna w/ Mounting Pipe	168	B5/13 RRH-BR04C RRH	158.5
DMP65R-BU6DA Antenna w/ Mounting Pipe	168	Junction Box	158.5
RRUS-32 RRH	168	GPS	158
RRUS-32 RRH	168	14' Platform w/ Reinforcements (Verizon)	158
RRUS-32 RRH	168	XXDWMM-12.5-65 Antenna	156.5
B14 4478 RRH	168	XXDWMM-12.5-65 Antenna	156.5
B14 4478 RRH	168	XXDWMM-12.5-65 Antenna	156.5
		14' Platform w/ 12 Mounting Pipes	144.6

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A53-B-42	42 ksi	63 ksi			

Hudson Design Group

45 Beechwood Drive
North Andover, MA
Phone: 978.557.5553
FAX: 978.336.5586

Job: 175 ft Monopole

Project: VERNON 2 CT

Client: VERIZON

Code: TIA-222-G

Path: Z:\hudson\61614\2.0\STRUCTURAL DEPARTMENT\ANALYSIS SOFTWARE\TruTower\Tru Projects\VERNON2CT\Vermon 2 CT\Vermon 2 CT.dwg

Drawn by: JD

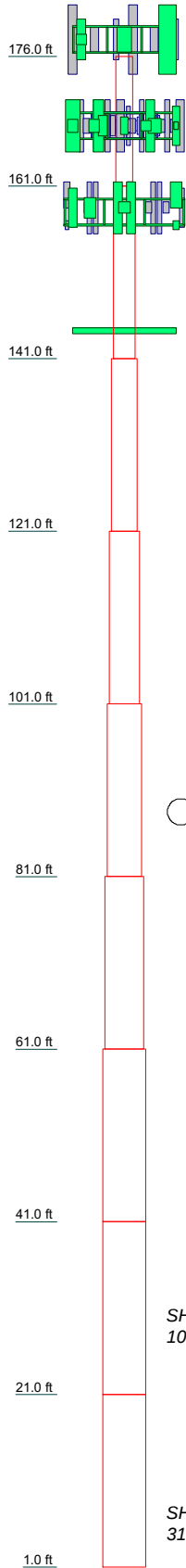
Date: 08/04/21

App'd:

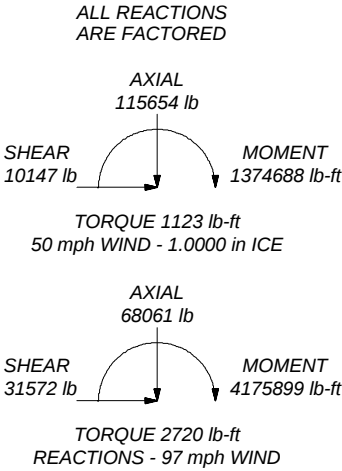
Scale: NTS

Dwg No. E-1

Section	1	2	3	4	5	6	7	8	9	
Size	P24x3/8	P30x3/8	P36x3/8	P42x3/8	P48x3/8	P54x3/8	P60x3/8	P60x1/2	P60x5/8	
Length (ft)	15.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	
Grade	A53-B-42									
Weight (lb)	1420.6	2375.2	2856.3	3337.3	3818.4	4299.5	4780.5	6360.7	7934.1	37182.6



- TOWER DESIGN NOTES
- Tower is located in Tolland County, Connecticut.
 - Tower designed for Exposure B to the TIA-222-G Standard.
 - Tower designed for a 97 mph basic wind in accordance with the TIA-222-G Standard.
 - Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
 - Deflections are based upon a 60 mph wind.
 - Tower Structure Class II.
 - Topographic Category 1 with Crest Height of 0.00 ft
 - TOWER RATING: 86.7%



tnxTower Hudson Design Group 45 Beechwood Drive North Andover, MA Phone: 978.557.5553 FAX: 978.336.5586	Job	175 ft Monopole	Page	1 of 8
	Project	VERNON 2 CT	Date	10:51:54 08/04/21
	Client	VERIZON	Designed by	ID

Tower Input Data

The tower is a monopole.

This tower is designed using the TIA-222-G standard.

The following design criteria apply:

Tower is located in Tolland County, Connecticut.

Basic wind speed of 97 mph.

Structure Class II.

Exposure Category B.

Topographic Category 1.

Crest Height 0.00 ft.

Nominal ice thickness of 1.0000 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 50 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Pole Section Geometry

Section	Elevation ft	Section Length ft	Pole Size	Pole Grade	Socket Length ft
L1	176.00-161.00	15.00	P24x3/8	A53-B-42 (42 ksi)	
L2	161.00-141.00	20.00	P30x3/8	A53-B-42 (42 ksi)	
L3	141.00-121.00	20.00	P36x3/8	A53-B-42 (42 ksi)	
L4	121.00-101.00	20.00	P42x3/8	A53-B-42 (42 ksi)	
L5	101.00-81.00	20.00	P48x3/8	A53-B-42 (42 ksi)	
L6	81.00-61.00	20.00	P54x3/8	A53-B-42 (42 ksi)	
L7	61.00-41.00	20.00	P60x3/8	A53-B-42 (42 ksi)	
L8	41.00-21.00	20.00	P60x1/2	A53-B-42 (42 ksi)	
L9	21.00-1.00	20.00	P60x5/8	A53-B-42 (42 ksi)	

tnxTower Hudson Design Group 45 Beechwood Drive North Andover, MA Phone: 978.557.5553 FAX: 978.336.5586	Job	175 ft Monopole	Page	2 of 8
	Project	VERNON 2 CT	Date	10:51:54 08/04/21
	Client	VERIZON	Designed by	ID

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft ²	in							
L1				1	1	1			
176.00-161.00									
L2				1	1	1			
161.00-141.00									
L3				1	1	1			
141.00-121.00									
L4				1	1	1			
121.00-101.00									
L5				1	1	1			
101.00-81.00									
L6 81.00-61.00				1	1	1			
L7 61.00-41.00				1	1	1			
L8 41.00-21.00				1	1	1			
L9 21.00-1.00				1	1	1			

Monopole Base Plate Data

Base Plate Data	
Base plate is square	
Base plate is grouted	
Anchor bolt grade	A615-75
Anchor bolt size	1.2500 in
Number of bolts	52
Embedment length	60.0000 in
c	4 ksi
Grout space	0.0000 in
Base plate grade	A36
Base plate thickness	2.2500 in
Bolt circle diameter	64.0000 in
Outer diameter	70.0000 in
Inner diameter	36.0000 in
Base plate type	Stiffened Plate
Bolts per stiffener l	
Stiffener thickness	0.3750 in
Stiffener height	6.5000 in

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		$C_A A_A$ ft ² /ft	Weight plf
1 5/8 (T-MOBILE)	C	No	Yes	Inside Pole	176.00 - 6.00	12	No Ice	0.00	1.04
							1/2" Ice	0.00	1.04
							1" Ice	0.00	1.04
1 1/2	C	No	Yes	Inside Pole	176.00 - 6.00	3	No Ice	0.00	1.04
							1/2" Ice	0.00	1.04
							1" Ice	0.00	1.04

1 5/8 (AT&T)	C	No	Yes	Inside Pole	168.00 - 6.00	6	No Ice	0.00	1.04
							1/2" Ice	0.00	1.04
							1" Ice	0.00	1.04

tnxTower Hudson Design Group 45 Beechwood Drive North Andover, MA Phone: 978.557.5553 FAX: 978.336.5586	Job	175 ft Monopole	Page	3 of 8
	Project	VERNON 2 CT	Date	10:51:54 08/04/21
	Client	VERIZON	Designed by	ID

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _A A _A ft ² /ft	Weight plf
5/8	C	No	Yes	Inside Pole	168.00 - 6.00	4	No Ice	0.00	0.40
							1/2" Ice	0.00	0.40
							1" Ice	0.00	0.40
Fiber	C	No	Yes	Inside Pole	168.00 - 6.00	2	No Ice	0.00	0.48
							1/2" Ice	0.00	0.48
							1" Ice	0.00	0.48
3" Conduit	C	No	Yes	Inside Pole	168.00 - 6.00	2	No Ice	0.00	2.00
							1/2" Ice	0.00	2.00
							1" Ice	0.00	2.00
2-1/4" Conduit	C	No	Yes	Inside Pole	168.00 - 6.00	1	No Ice	0.00	2.00
							1/2" Ice	0.00	2.00
							1" Ice	0.00	2.00
1" Power Cable	C	No	Yes	Inside Pole	168.00 - 6.00	2	No Ice	0.00	2.00
							1/2" Ice	0.00	2.00
							1" Ice	0.00	2.00

1/2	C	No	Yes	Inside Pole	158.00 - 6.00	4	No Ice	0.00	0.25
							1/2" Ice	0.00	0.25
							1" Ice	0.00	0.25

6X12 Hybrid Cables (Verizon)	C	No	Yes	Inside Pole	158.00 - 6.00	2	No Ice	0.00	2.18
							1/2" Ice	0.00	2.18
							1" Ice	0.00	2.18
1 5/8	C	No	Yes	Inside Pole	158.00 - 6.00	6	No Ice	0.00	1.04
							1/2" Ice	0.00	1.04
							1" Ice	0.00	1.04

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight lb
12' Platform w / handrails	C	From Face	0.00 0.00 0.00	0.0000	178.00	No Ice	26.30	26.30	1920.00
						1/2" Ice	35.60	35.60	2340.00
						1" Ice	44.90	44.90	2760.00
APXVAARR24_43-U-NA20 Antenna w/ Mounting Pipe	A	From Face	3.00 -5.00 0.00	0.0000	178.00	No Ice	20.24	10.79	157.20
						1/2" Ice	20.89	12.21	290.89
						1" Ice	21.55	13.49	435.20
APXVAARR24_43-U-NA20 Antenna w/ Mounting Pipe	B	From Face	3.00 -5.00 0.00	0.0000	178.00	No Ice	20.24	10.79	157.20
						1/2" Ice	20.89	12.21	290.89
						1" Ice	21.55	13.49	435.20
APXVAARR24_43-U-NA20 Antenna w/ Mounting Pipe	C	From Face	3.00 -5.00 0.00	0.0000	178.00	No Ice	20.24	10.79	157.20
						1/2" Ice	20.89	12.21	290.89
						1" Ice	21.55	13.49	435.20
AIR6449 B41 Antenna w/ Mounting Pipe	A	From Face	3.00 0.00 0.00	0.0000	178.00	No Ice	6.42	3.89	124.90
						1/2" Ice	7.00	4.62	179.59
						1" Ice	7.50	5.22	240.17
AIR6449 B41 Antenna w/ Mounting Pipe	B	From Face	3.00 0.00 0.00	0.0000	178.00	No Ice	6.42	3.89	124.90
						1/2" Ice	7.00	4.62	179.59
						1" Ice	7.50	5.22	240.17
AIR6449 B41 Antenna w/ Mounting Pipe	C	From Face	3.00 0.00 0.00	0.0000	178.00	No Ice	6.42	3.89	124.90
						1/2" Ice	7.00	4.62	179.59
						1" Ice	7.50	5.22	240.17

tnxTower Hudson Design Group 45 Beechwood Drive North Andover, MA Phone: 978.557.5553 FAX: 978.336.5586	Job	175 ft Monopole	Page	4 of 8
	Project	VERNON 2 CT	Date	10:51:54 08/04/21
	Client	VERIZON	Designed by	ID

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight lb
AIR 32 Antenna w/ Mounting Pipe	A	From Face	3.00 5.00 0.00	0.0000	178.00	No Ice 1/2" Ice 1" Ice	6.81 7.30 7.76	6.14 6.99 7.73	154.90 216.61 285.26
AIR 32 Antenna w/ Mounting Pipe	B	From Face	3.00 5.00 0.00	0.0000	178.00	No Ice 1/2" Ice 1" Ice	6.81 7.30 7.76	6.14 6.99 7.73	154.90 216.61 285.26
AIR 32 Antenna w/ Mounting Pipe	C	From Face	3.00 5.00 0.00	0.0000	178.00	No Ice 1/2" Ice 1" Ice	6.81 7.30 7.76	6.14 6.99 7.73	154.90 216.61 285.26
4449 RRH	A	From Face	2.00 -5.00 0.00	0.0000	178.00	No Ice 1/2" Ice 1" Ice	1.97 2.15 2.33	1.40 1.56 1.72	74.00 92.48 113.77
4449 RRH	B	From Face	2.00 -5.00 0.00	0.0000	178.00	No Ice 1/2" Ice 1" Ice	1.97 2.15 2.33	1.40 1.56 1.72	74.00 92.48 113.77
4449 RRH	C	From Face	2.00 -5.00 0.00	0.0000	178.00	No Ice 1/2" Ice 1" Ice	1.97 2.15 2.33	1.40 1.56 1.72	74.00 92.48 113.77
4415 RRH	A	From Face	2.00 5.00 0.00	0.0000	178.00	No Ice 1/2" Ice 1" Ice	1.64 1.80 1.97	0.68 0.79 0.91	44.00 56.41 71.18
4415 RRH	B	From Face	2.00 5.00 0.00	0.0000	178.00	No Ice 1/2" Ice 1" Ice	1.64 1.80 1.97	0.68 0.79 0.91	44.00 56.41 71.18
4415 RRH	C	From Face	2.00 5.00 0.00	0.0000	178.00	No Ice 1/2" Ice 1" Ice	1.64 1.80 1.97	0.68 0.79 0.91	44.00 56.41 71.18
Gen. TMA	A	From Face	2.00 -5.00 -1.00	0.0000	178.00	No Ice 1/2" Ice 1" Ice	0.50 0.59 0.69	0.33 0.41 0.50	16.00 20.70 26.89
Gen. TMA	B	From Face	2.00 -5.00 -1.00	0.0000	178.00	No Ice 1/2" Ice 1" Ice	0.50 0.59 0.69	0.33 0.41 0.50	16.00 20.70 26.89
Gen. TMA	C	From Face	2.00 -5.00 -1.00	0.0000	178.00	No Ice 1/2" Ice 1" Ice	0.50 0.59 0.69	0.33 0.41 0.50	16.00 20.70 26.89
Gen. TMA	A	From Face	2.00 -5.00 -1.00	0.0000	178.00	No Ice 1/2" Ice 1" Ice	0.50 0.59 0.69	0.33 0.41 0.50	16.00 20.70 26.89
Gen. TMA	B	From Face	2.00 -5.00 -1.00	0.0000	178.00	No Ice 1/2" Ice 1" Ice	0.50 0.59 0.69	0.33 0.41 0.50	16.00 20.70 26.89
Gen. TMA	C	From Face	2.00 -5.00 -1.00	0.0000	178.00	No Ice 1/2" Ice 1" Ice	0.50 0.59 0.69	0.33 0.41 0.50	16.00 20.70 26.89

12' Frame	A	From Face	0.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	12.20 17.60 23.00	12.20 17.60 23.00	360.00 490.00 620.00
12' Frame	B	From Face	0.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	12.20 17.60 23.00	12.20 17.60 23.00	360.00 490.00 620.00
12' Frame	C	From Face	0.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	12.20 17.60 23.00	12.20 17.60 23.00	360.00 490.00 620.00
800-10121 Antenna w/ Mounting Pipe	A	From Face	3.00 -6.00	0.0000	168.00	No Ice 1/2" Ice	5.51 5.98	4.72 5.56	68.90 117.69

tnxTower Hudson Design Group 45 Beechwood Drive North Andover, MA Phone: 978.557.5553 FAX: 978.336.5586	Job	175 ft Monopole	Page	5 of 8
	Project	VERNON 2 CT	Date	10:51:54 08/04/21
	Client	VERIZON	Designed by	ID

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight lb
800-10121 Antenna w/ Mounting Pipe	B	From Face	0.00	0.0000	168.00	1" Ice	6.43	6.29	172.94
			3.00			No Ice	5.51	4.72	68.90
			-6.00			1/2" Ice	5.98	5.56	117.69
800-10121 Antenna w/ Mounting Pipe	C	From Face	0.00	0.0000	168.00	1" Ice	6.43	6.29	172.94
			3.00			No Ice	5.51	4.72	68.90
			-6.00			1/2" Ice	5.98	5.56	117.69
QS66512-2 Antenna w/ Mounting Pipe	A	From Face	0.00	0.0000	168.00	1" Ice	6.43	6.29	172.94
			3.00			No Ice	8.13	8.22	132.90
			-3.00			1/2" Ice	8.59	9.19	205.99
QS66512-2 Antenna w/ Mounting Pipe	B	From Face	0.00	0.0000	168.00	1" Ice	9.05	10.02	287.01
			3.00			No Ice	8.13	8.22	132.90
			-3.00			1/2" Ice	8.59	9.19	205.99
QS66512-2 Antenna w/ Mounting Pipe	C	From Face	0.00	0.0000	168.00	1" Ice	9.05	10.02	287.01
			3.00			No Ice	8.13	8.22	132.90
			-3.00			1/2" Ice	8.59	9.19	205.99
HPA-65R-BUU-H6 Antenna w/ Mounting Pipe	A	From Face	0.00	0.0000	168.00	1" Ice	9.05	10.02	287.01
			3.00			No Ice	9.66	6.94	72.90
			3.00			1/2" Ice	10.13	7.90	147.22
HPA-65R-BUU-H6 Antenna w/ Mounting Pipe	B	From Face	0.00	0.0000	168.00	1" Ice	10.61	8.73	229.52
			3.00			No Ice	9.66	6.94	72.90
			3.00			1/2" Ice	10.13	7.90	147.22
HPA-65R-BUU-H6 Antenna w/ Mounting Pipe	C	From Face	0.00	0.0000	168.00	1" Ice	10.61	8.73	229.52
			3.00			No Ice	9.66	6.94	72.90
			3.00			1/2" Ice	10.13	7.90	147.22
DMP65R-BU6DA Antenna w/ Mounting Pipe	A	From Face	0.00	0.0000	168.00	1" Ice	10.61	8.73	229.52
			3.00			No Ice	12.73	7.04	117.90
			6.00			1/2" Ice	13.23	7.99	207.74
DMP65R-BU6DA Antenna w/ Mounting Pipe	B	From Face	0.00	0.0000	168.00	1" Ice	13.73	8.82	305.91
			3.00			No Ice	12.73	7.04	117.90
			6.00			1/2" Ice	13.23	7.99	207.74
DMP65R-BU6DA Antenna w/ Mounting Pipe	C	From Face	0.00	0.0000	168.00	1" Ice	13.73	8.82	305.91
			3.00			No Ice	12.73	7.04	117.90
			6.00			1/2" Ice	13.23	7.99	207.74
RRUS-32 RRH	A	From Face	0.00	0.0000	168.00	1" Ice	13.73	8.82	305.91
			2.00			No Ice	2.74	1.67	60.00
			2.50			1/2" Ice	2.96	1.86	81.11
RRUS-32 RRH	B	From Face	0.00	0.0000	168.00	1" Ice	3.19	2.05	105.42
			2.00			No Ice	2.74	1.67	60.00
			2.50			1/2" Ice	2.96	1.86	81.11
RRUS-32 RRH	C	From Face	0.00	0.0000	168.00	1" Ice	3.19	2.05	105.42
			2.00			No Ice	2.74	1.67	60.00
			2.50			1/2" Ice	2.96	1.86	81.11
B14 4478 RRH	A	From Face	0.00	0.0000	168.00	1" Ice	3.19	2.05	105.42
			2.00			No Ice	2.02	1.25	60.00
			3.50			1/2" Ice	2.20	1.40	77.66
B14 4478 RRH	B	From Face	0.00	0.0000	168.00	1" Ice	2.39	1.56	98.08
			2.00			No Ice	2.02	1.25	60.00
			3.50			1/2" Ice	2.20	1.40	77.66
B14 4478 RRH	C	From Face	0.00	0.0000	168.00	1" Ice	2.39	1.56	98.08
			2.00			No Ice	2.02	1.25	60.00
			3.50			1/2" Ice	2.20	1.40	77.66
RRUS-E2	A	From Face	0.00	0.0000	168.00	1" Ice	2.39	1.56	98.08
			2.00			No Ice	3.15	1.29	53.00
			-3.50			1/2" Ice	3.36	1.44	76.22
RRUS-E2	B	From Face	0.00	0.0000	168.00	1" Ice	3.59	1.60	102.64
			2.00			No Ice	3.15	1.29	53.00
			-3.50			1/2" Ice	3.36	1.44	76.22

tnxTower Hudson Design Group 45 Beechwood Drive North Andover, MA Phone: 978.557.5553 FAX: 978.336.5586	Job	175 ft Monopole	Page	6 of 8
	Project	VERNON 2 CT	Date	10:51:54 08/04/21
	Client	VERIZON	Designed by	ID

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight lb
RRUS-E2	C	From Face	0.00 2.00 -3.50 0.00	0.0000	168.00	1" Ice No Ice 1/2" Ice 1" Ice	3.59 3.15 3.36 3.59	1.60 1.29 1.44 1.60	102.64 53.00 76.22 102.64
8843 RRH	A	From Face	2.00 -2.50 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	1.64 1.80 1.97	1.35 1.50 1.65	72.00 89.60 109.91
8843 RRH	B	From Face	2.00 -2.50 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	1.64 1.80 1.97	1.35 1.50 1.65	72.00 89.60 109.91
8843 RRH	C	From Face	2.00 -2.50 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	1.64 1.80 1.97	1.35 1.50 1.65	72.00 89.60 109.91
4449 RRH	A	From Face	2.00 6.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	1.97 2.15 2.33	1.40 1.56 1.72	74.00 92.48 113.77
4449 RRH	B	From Face	2.00 6.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	1.97 2.15 2.33	1.40 1.56 1.72	74.00 92.48 113.77
4449 RRH	C	From Face	2.00 6.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	1.97 2.15 2.33	1.40 1.56 1.72	74.00 92.48 113.77
Gen. TMA	A	From Face	2.00 -6.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	0.50 0.59 0.69	0.33 0.41 0.50	16.00 20.70 26.89
Gen. TMA	B	From Face	2.00 -6.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	0.50 0.59 0.69	0.33 0.41 0.50	16.00 20.70 26.89
Gen. TMA	C	From Face	2.00 -6.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	0.50 0.59 0.69	0.33 0.41 0.50	16.00 20.70 26.89
Gen. TMA	A	From Face	2.00 -6.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	0.50 0.59 0.69	0.33 0.41 0.50	16.00 20.70 26.89
Gen. TMA	B	From Face	2.00 -6.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	0.50 0.59 0.69	0.33 0.41 0.50	16.00 20.70 26.89
Gen. TMA	C	From Face	2.00 -6.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	0.50 0.59 0.69	0.33 0.41 0.50	16.00 20.70 26.89
Squid Surge Arrestor	A	From Face	1.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	0.81 1.30 1.48	0.81 1.30 1.48	33.00 48.38 66.11
Squid Surge Arrestor	B	From Face	1.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	0.81 1.30 1.48	0.81 1.30 1.48	33.00 48.38 66.11
Squid Surge Arrestor	C	From Face	1.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	0.81 1.30 1.48	0.81 1.30 1.48	33.00 48.38 66.11
*** GPS	C	From Face	3.00 0.00 0.00	0.0000	158.00	No Ice 1/2" Ice 1" Ice	0.21 0.32 0.44	0.21 0.32 0.44	5.00 7.52 11.31
*** 14' Platform w/ 12 Mounting Pipes	A	None		0.0000	144.60	No Ice 1/2" Ice 1" Ice	27.60 32.15 24.79	26.84 31.65 24.62	1310.00 1596.00 1975.00

tnxTower Hudson Design Group 45 Beechwood Drive North Andover, MA Phone: 978.557.5553 FAX: 978.336.5586	Job	175 ft Monopole	Page	7 of 8
	Project	VERNON 2 CT	Date	10:51:54 08/04/21
	Client	VERIZON	Designed by	ID

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight lb

14' Platform w/ Reinforcements (Verizon)	C	From Face	0.00 0.00 0.00	0.0000	158.00	No Ice 1/2" Ice 1" Ice	26.29 32.25 56.69	25.78 31.89 56.46	2130.00 2580.00 3165.00
LNx-6513DS-A1M Antenna w/ Mounting Pipe	A	From Face	3.00 6.00 0.00	0.0000	158.50	No Ice 1/2" Ice 1" Ice	6.19 6.67 7.13	5.26 6.12 6.84	54.90 109.63 171.00
LNx-6513DS-A1M Antenna w/ Mounting Pipe	B	From Face	3.00 6.00 0.00	0.0000	158.50	No Ice 1/2" Ice 1" Ice	6.19 6.67 7.13	5.26 6.12 6.84	54.90 109.63 171.00
LNx-6513DS-A1M Antenna w/ Mounting Pipe	C	From Face	3.00 6.00 0.00	0.0000	158.50	No Ice 1/2" Ice 1" Ice	6.19 6.67 7.13	5.26 6.12 6.84	54.90 109.63 171.00
NHH-65B-R2B Antenna w/ Mounting Pipe	A	From Face	3.00 0.75 0.00	0.0000	158.50	No Ice 1/2" Ice 1" Ice	8.08 8.53 9.00	6.77 7.72 8.55	65.90 131.84 205.55
NHH-65B-R2B Antenna w/ Mounting Pipe	B	From Face	3.00 0.75 0.00	0.0000	158.50	No Ice 1/2" Ice 1" Ice	8.08 8.53 9.00	6.77 7.72 8.55	65.90 131.84 205.55
NHH-65B-R2B Antenna w/ Mounting Pipe	C	From Face	3.00 0.75 0.00	0.0000	158.50	No Ice 1/2" Ice 1" Ice	8.08 8.53 9.00	6.77 7.72 8.55	65.90 131.84 205.55
NHH-65B-R2B Antenna w/ Mounting Pipe	A	From Face	3.00 -0.75 0.00	0.0000	158.50	No Ice 1/2" Ice 1" Ice	8.08 8.53 9.00	6.77 7.72 8.55	65.90 131.84 205.55
NHH-65B-R2B Antenna w/ Mounting Pipe	B	From Face	3.00 -0.75 0.00	0.0000	158.50	No Ice 1/2" Ice 1" Ice	8.08 8.53 9.00	6.77 7.72 8.55	65.90 131.84 205.55
NHH-65B-R2B Antenna w/ Mounting Pipe	C	From Face	3.00 -0.75 0.00	0.0000	158.50	No Ice 1/2" Ice 1" Ice	8.08 8.53 9.00	6.77 7.72 8.55	65.90 131.84 205.55
XXDWMM-12.5-65 Antenna	A	From Face	3.00 -6.00 0.00	0.0000	156.50	No Ice 1/2" Ice 1" Ice	2.07 2.61 3.04	1.60 2.18 2.63	25.90 46.97 71.36
XXDWMM-12.5-65 Antenna	B	From Face	3.00 -6.00 0.00	0.0000	156.50	No Ice 1/2" Ice 1" Ice	2.07 2.61 3.04	1.60 2.18 2.63	25.90 46.97 71.36
XXDWMM-12.5-65 Antenna	C	From Face	3.00 -6.00 0.00	0.0000	156.50	No Ice 1/2" Ice 1" Ice	2.07 2.61 3.04	1.60 2.18 2.63	25.90 46.97 71.36
B2/B66A RRH-BR049 RRH	A	From Face	2.00 -6.00 0.00	0.0000	158.50	No Ice 1/2" Ice 1" Ice	1.88 2.05 2.22	1.25 1.39 1.54	98.00 116.34 137.47
B2/B66A RRH-BR049 RRH	B	From Face	2.00 0.00 0.00	0.0000	158.50	No Ice 1/2" Ice 1" Ice	1.88 2.05 2.22	1.25 1.39 1.54	98.00 116.34 137.47
B2/B66A RRH-BR049 RRH	C	From Face	2.00 0.00 0.00	0.0000	158.50	No Ice 1/2" Ice 1" Ice	1.88 2.05 2.22	1.25 1.39 1.54	98.00 116.34 137.47
B5/13 RRH-BR04C RRH	A	From Face	2.00 4.00 0.00	0.0000	158.50	No Ice 1/2" Ice 1" Ice	1.88 2.05 2.22	1.01 1.14 1.28	82.00 98.43 117.53
B5/13 RRH-BR04C RRH	B	From Face	2.00 4.00 0.00	0.0000	158.50	No Ice 1/2" Ice 1" Ice	1.88 2.05 2.22	1.01 1.14 1.28	82.00 98.43 117.53
B5/13 RRH-BR04C RRH	C	From Face	2.00 4.00	0.0000	158.50	No Ice 1/2" Ice	1.88 2.05	1.01 1.14	82.00 98.43

tnxTower Hudson Design Group 45 Beechwood Drive North Andover, MA Phone: 978.557.5553 FAX: 978.336.5586	Job	175 ft Monopole	Page	8 of 8
	Project	VERNON 2 CT	Date	10:51:54 08/04/21
	Client	VERIZON	Designed by	ID

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight lb
Junction Box	C	From Face	0.00 3.00 4.00 0.00	0.0000	158.50	1" Ice No Ice 1/2" Ice 1" Ice	2.22 3.78 4.03 4.29	1.28 2.51 2.72 2.94	117.53 32.00 63.40 98.56

MT6407-77AAntenna w/ Mounting Pipe	A	From Face	3.00 -6.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice	5.43 5.97 6.46	3.27 3.99 4.59	109.00 154.17 204.90
MT6407-77AAntenna w/ Mounting Pipe	B	From Face	3.00 -6.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice	5.43 5.97 6.46	3.27 3.99 4.59	109.00 154.17 204.90
MT6407-77AAntenna w/ Mounting Pipe	C	From Face	3.00 -6.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice	5.43 5.97 6.46	3.27 3.99 4.59	109.00 154.17 204.90
**									

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ØP _{allow} lb	% Capacity	Pass Fail
L1	176 - 161	Pole	P24x3/8	1	-28233.60	99498.70	36.3	Pass
L2	161 - 141	Pole	P30x3/8	2	-19256.60	196172.00	63.0	Pass
L3	141 - 121	Pole	P36x3/8	3	-23913.00	341118.00	76.4	Pass
L4	121 - 101	Pole	P42x3/8	4	-29178.30	544115.00	82.5	Pass
L5	101 - 81	Pole	P48x3/8	5	-35039.10	803861.00	85.3	Pass
L6	81 - 61	Pole	P54x3/8	6	-41490.70	1069090.00	86.5	Pass
L7	61 - 41	Pole	P60x3/8	7	-48531.30	1329060.00	86.7	Pass
L8	41 - 21	Pole	P60x1/2	8	-57480.30	1818800.00	76.4	Pass
L9	21 - 1	Pole	P60x5/8	9	-68054.20	2323900.00	70.3	Pass
							Summary	
							Pole (L7)	86.7 Pass
							Base Plate	65.8 Pass
							RATING =	86.7 Pass

Stiffened or Unstiffened, Exterior Flange Plate - Any Bolt Material TIA Rev G

Site Data

BU#: 0
Site Name: VERNON 2 CT
App #: 0

Pole Manufacturer: Other

Bolt Data

Qty:	44	
Diameter (in.):	1	Bolt Fu: 120
Bolt Material:	A325	Bolt Fy: 92
N/A:	100	<-- Disregard
N/A:	75	<-- Disregard
Circle (in.):	56	

Plate Data

Diam:	60	in
Thick, t:	1.25	in
Grade (Fy):	36	ksi
Strength, Fu:	58	ksi
Single-Rod B-eff:	3.86	in

Stiffener Data (Welding at Both Sides)

Config:	1	*
Weld Type:	Fillet	
Groove Depth:	0.25	<-- Disregard
Groove Angle:	45	<-- Disregard
Fillet H. Weld:	0.3125	in
Fillet V. Weld:	0.3125	in
Width:	3	in
Height:	5	in
Thick:	0.625	in
Notch:	0.5	in
Grade:	36	ksi
Weld str.:	70	ksi

Pole Data

Diam:	54	in
Thick:	0.375	in
Grade:	42	ksi
# of Sides:	0	"0" IF Round
Fu	63	ksi
Reinf. Fillet Weld	0	"0" if None

Reactions

Mu	2402.69	ft-kips
Axial, Pu:	41.49	kips
Shear, Vu:	27.21	kips
Elevation:	60	feet

Bolt Threads:

X-Excluded
$\phi V_n = \phi(0.55 A_b F_u)$
$\phi = 0.75, \phi V_n$ (kips):
38.88

If No stiffeners, Criteria: TIA G

<- Only Applicable to Unstiffened Cases

Flange Bolt Results

Bolt Tension Capacity, $\phi T_n, B1$:	54.54 kips
Adjusted ϕT_n (due to $V_u = V_u / Q_t$), B:	54.53 kips
Max Bolt <u>directly</u> applied T_u :	45.86 Kips
Min. PL "tc" for B cap. w/o Pry:	Stiffened in
Min PL "treq" for actual T w/ Pry:	Stiffened in
Min PL "t1" for actual T w/o Pry:	Stiffened in
T allowable	54.54 kips
Prying Force, q:	0.00 kips
Total Bolt Tension = $T_u + q$:	45.86 kips
Non-Prying Bolt Stress Ratio, T_u / B :	84.1% Pass

Stiffened

ϕT_n
$\phi T_n [(1 - (V_u / \phi V_n)^2)^{0.5}]$

<-- B, Stiffened
Stiffened

Exterior Flange Plate Results

Compression Side Plate Stress:	6.4 ksi
Allowable Plate Stress:	19.4 ksi
Compression Plate Stress Ratio:	32.7% Pass
Stiffened	
Tension Side Stress Ratio, $(t_{req} / t)^2$:	N/A

Shear Check Only

Stiffened

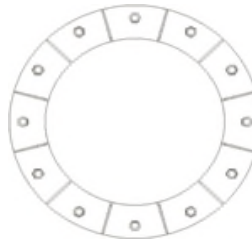
TIA G
ϕF_y
Comp. Y.L. Length:
N/A, Roark

Stiffener Results

Horizontal Weld :	83.6% Pass
Vertical Weld:	56.7% Pass
Plate Flex+Shear, $f_b / F_b + (f_v / F_v)^2$:	49.1% Pass
Plate Tension+Shear, $f_t / F_t + (f_v / F_v)^2$:	70.6% Pass
Plate Comp. (AISC Bracket):	89.8% Pass

Pole Results

Pole Punching Shear Check:	31.9% Pass
----------------------------	-------------------



* 0 = none, 1 = every bolt, 2 = every 2 bolts, 3 = 2 per bolt

** Note: for complete joint penetration groove welds the groove depth must be exactly 1/2 the stiffener thickness for calculation purposes

Stiffened or Unstiffened, Exterior Flange Plate - Any Bolt Material TIA Rev G

Site Data

BU#: 0
Site Name: VERNON 2 CT
App #: 0

Pole Manufacturer: Other

Bolt Data

Qty:	32	
Diameter (in.):	1	Bolt Fu: 120
Bolt Material:	A325	Bolt Fy: 92
N/A:	100	<-- Disregard
N/A:	75	<-- Disregard
Circle (in.):	51	

Plate Data

Diam:	54	in
Thick, t:	1.25	in
Grade (Fy):	36	ksi
Strength, Fu:	58	ksi
Single-Rod B-eff:	4.71	in

Stiffener Data (Welding at Both Sides)

Config:	2	*
Weld Type:	Fillet	
Groove Depth:	0.25	<-- Disregard
Groove Angle:	45	<-- Disregard
Fillet H. Weld:	0.3125	in
Fillet V. Weld:	0.3125	in
Width:	3	in
Height:	5	in
Thick:	0.625	in
Notch:	0.5	in
Grade:	36	ksi
Weld str.:	70	ksi

Pole Data

Diam:	48	in
Thick:	0.375	in
Grade:	42	ksi
# of Sides:	0	"0" IF Round
Fu	63	ksi
Reinf. Fillet Weld	0	"0" if None

Reactions

Mu	1876.12	ft-kips
Axial, Pu:	35.04	kips
Shear, Vu:	25.44	kips
Elevation:	80	feet

Bolt Threads:

X-Excluded
$\phi V_n = \phi(0.55 A_b F_u)$
$\phi = 0.75, \phi^* V_n$ (kips):
38.88

If No stiffeners, Criteria: TIA G

<-Only Applicable to Unstiffened Cases

Flange Bolt Results

Bolt Tension Capacity, $\phi^* T_n, B1$:	54.54 kips
Adjusted $\phi^* T_n$ (due to $V_u = V_u / Q_t$), B:	54.53 kips
Max Bolt <u>directly</u> applied T_u :	54.08 Kips
Min. PL "tc" for B cap. w/o Pry:	0.941 in
Min PL "treq" for actual T w/ Pry:	0.930 in
Min PL "t1" for actual T w/o Pry:	0.937 in
T allowable w/o Prying:	54.54 kips
Prying Force, q:	0.00 kips
Total Bolt Tension= $T_u + q$:	54.08 kips
Non-Prying Bolt Stress Ratio, T_u / B :	99.2% Pass

Rigid
$\phi^* T_n$
$\phi T_n [(1 - (V_u / \phi V_n)^2)^{0.5}]$

$\alpha' < 0$ case

Exterior Flange Plate Results

Flexural Check	
Compression Side Plate Stress:	30.6 ksi
Allowable Plate Stress:	32.4 ksi
Compression Plate Stress Ratio:	94.6% Pass
No Prying	
Tension Side Stress Ratio, $(treq/t)^2$:	55.3% Pass

Rigid
TIA G
$\phi^* F_y$
Comp. Y.L. Length:
17.23

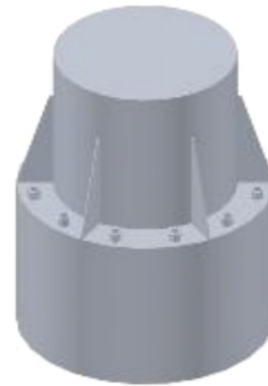
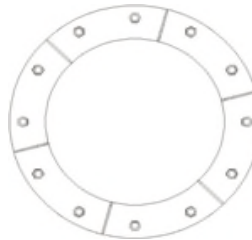
b/Le > 2, Stiffeners are not fully effective

Stiffener Results

Horizontal Weld :	n/a
Vertical Weld:	n/a
Plate Flex+Shear, $f_b / F_b + (f_v / F_v)^2$:	n/a
Plate Tension+Shear, $f_t / F_t + (f_v / F_v)^2$:	n/a
Plate Comp. (AISC Bracket):	n/a

Pole Results

Pole Punching Shear Check:	n/a
----------------------------	-----



* 0 = none, 1 = every bolt, 2 = every 2 bolts, 3 = 2 per bolt

** Note: for complete joint penetration groove welds the groove depth must be exactly 1/2 the stiffener thickness for calculation purposes

Stiffened or Unstiffened, Exterior Flange Plate - Any Bolt Material TIA Rev G

Site Data

BU#: 0
Site Name: VERNON 2 CT
App #: 0

Pole Manufacturer: Other

Bolt Data

Qty:	28	
Diameter (in.):	1	Bolt Fu: 120
Bolt Material:	A325	Bolt Fy: 92
N/A:	100	<-- Disregard
N/A:	75	<-- Disregard
Circle (in.):	45	

Plate Data

Diam:	48	in
Thick, t:	1.25	in
Grade (Fy):	36	ksi
Strength, Fu:	58	ksi
Single-Rod B-eff:	4.71	in

Stiffener Data (Welding at Both Sides)

Config:	2	*
Weld Type:	Fillet	
Groove Depth:	0.25	<-- Disregard
Groove Angle:	45	<-- Disregard
Fillet H. Weld:	0.3125	in
Fillet V. Weld:	0.3125	in
Width:	3	in
Height:	5	in
Thick:	0.625	in
Notch:	0.5	in
Grade:	36	ksi
Weld str.:	70	ksi

Pole Data

Diam:	42	in
Thick:	0.375	in
Grade:	42	ksi
# of Sides:	0	"0" IF Round
Fu	63	ksi
Reinf. Fillet Weld	0	"0" if None

Reactions

Mu	1384.70	ft-kips
Axial, Pu:	29.18	kips
Shear, Vu:	23.69	kips
Elevation:	100	feet

Bolt Threads:

X-Excluded
$\phi V_n = \phi(0.55 A_b F_u)$
$\phi = 0.75, \phi^* V_n$ (kips):
38.88

If No stiffeners, Criteria: TIA G

<-Only Applicable to Unstiffened Cases

Flange Bolt Results

Bolt Tension Capacity, $\phi^* T_n, B1$:	54.54 kips
Adjusted $\phi^* T_n$ (due to $V_u = V_u / Q_t$), B:	54.53 kips
Max Bolt <u>directly</u> applied T_u :	51.71 kips
Min. PL "tc" for B cap. w/o Pry:	0.941 in
Min PL "treq" for actual T w/ Pry:	0.865 in
Min PL "t1" for actual T w/o Pry:	0.917 in
T allowable w/o Prying:	54.54 kips
Prying Force, q:	0.00 kips
Total Bolt Tension = $T_u + q$:	51.71 kips
Non-Prying Bolt Stress Ratio, T_u / B :	94.8% Pass

Rigid
$\phi^* T_n$
$\phi T_n [(1 - (V_u / \phi V_n)^2)^{0.5}]$

$\alpha' < 0$ case

Exterior Flange Plate Results

Flexural Check	
Compression Side Plate Stress:	28.7 ksi
Allowable Plate Stress:	32.4 ksi
Compression Plate Stress Ratio:	88.5% Pass
No Prying	
Tension Side Stress Ratio, $(treq/t)^2$:	47.9% Pass

Rigid
TIA G
$\phi^* F_y$
Comp. Y.L. Length:
16.16

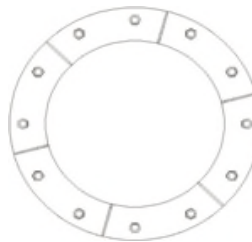
b/Le > 2, Stiffeners are not fully effective

Stiffener Results

Horizontal Weld :	n/a
Vertical Weld:	n/a
Plate Flex+Shear, $f_b / F_b + (f_v / F_v)^2$:	n/a
Plate Tension+Shear, $f_t / F_t + (f_v / F_v)^2$:	n/a
Plate Comp. (AISC Bracket):	n/a

Pole Results

Pole Punching Shear Check:	n/a
----------------------------	-----



* 0 = none, 1 = every bolt, 2 = every 2 bolts, 3 = 2 per bolt

** Note: for complete joint penetration groove welds the groove depth must be exactly 1/2 the stiffener thickness for calculation purposes

Stiffened or Unstiffened, Exterior Flange Plate - Any Bolt Material TIA Rev G

Site Data

BU#: 0
Site Name: VERNON 2 CT
App #: 0

Pole Manufacturer: Other

Bolt Data

Qty:	28	
Diameter (in.):	1	Bolt Fu: 120
Bolt Material:	A325	Bolt Fy: 92
N/A:	100	<-- Disregard
N/A:	75	<-- Disregard
Circle (in.):	38.5	

Plate Data

Diam:	42	in
Thick, t:	1.25	in
Grade (Fy):	36	ksi
Strength, Fu:	58	ksi
Single-Rod B-eff:	4.04	in

Stiffener Data (Welding at Both Sides)

Config:	2	*
Weld Type:	Fillet	
Groove Depth:	0.25	<-- Disregard
Groove Angle:	45	<-- Disregard
Fillet H. Weld:	0.3125	in
Fillet V. Weld:	0.3125	in
Width:	3	in
Height:	5	in
Thick:	0.625	in
Notch:	0.5	in
Grade:	36	ksi
Weld str.:	70	ksi

Pole Data

Diam:	36	in
Thick:	0.375	in
Grade:	42	ksi
# of Sides:	0	"0" IF Round
Fu	63	ksi
Reinf. Fillet Weld	0	"0" if None

Reactions

Mu	927.58	ft-kips
Axial, Pu:	23.91	kips
Shear, Vu:	22.01	kips
Elevation:	120	feet

Bolt Threads:

X-Excluded
$\phi V_n = \phi(0.55 A_b F_u)$
$\phi = 0.75, \phi^* V_n$ (kips):
38.88

If No stiffeners, Criteria: TIA G <-Only Applicable to Unstiffened Cases

Flange Bolt Results

Bolt Tension Capacity, $\phi^* T_n, B1$:	54.54 kips
Adjusted $\phi^* T_n$ (due to $V_u = V_u / Q_t$), B:	54.53 kips
Max Bolt <u>directly</u> applied T_u :	40.45 Kips
Min. PL "tc" for B cap. w/o Pry:	0.880 in
Min PL "treq" for actual T w/ Pry:	0.575 in
Min PL "t1" for actual T w/o Pry:	0.758 in
T allowable w/o Prying:	54.54 kips
Prying Force, q:	0.00 kips
Total Bolt Tension= $T_u + q$:	40.45 kips
Non-Prying Bolt Stress Ratio, T_u / B :	74.2% Pass

Rigid
$\phi^* T_n$
$\phi T_n [(1 - (V_u / \phi V_n)^2)^{0.5}]$

$\alpha' < 0$ case

Exterior Flange Plate Results

Flexural Check	
Compression Side Plate Stress:	21.5 ksi
Allowable Plate Stress:	32.4 ksi
Compression Plate Stress Ratio:	66.3% Pass
No Prying	
Tension Side Stress Ratio, $(treq/t)^2$:	21.2% Pass

Rigid
TIA G
$\phi^* F_y$
Comp. Y.L. Length:
13.65

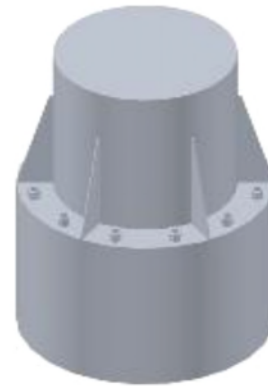
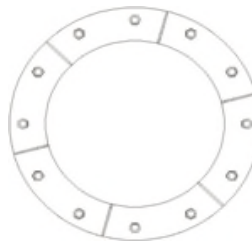
b/Le > 2, Stiffeners are not fully effective

Stiffener Results

Horizontal Weld :	n/a
Vertical Weld:	n/a
Plate Flex+Shear, $f_b / F_b + (f_v / F_v)^2$:	n/a
Plate Tension+Shear, $f_t / F_t + (f_v / F_v)^2$:	n/a
Plate Comp. (AISC Bracket):	n/a

Pole Results

Pole Punching Shear Check:	n/a
----------------------------	-----



* 0 = none, 1 = every bolt, 2 = every 2 bolts, 3 = 2 per bolt

** Note: for complete joint penetration groove welds the groove depth must be exactly 1/2 the stiffener thickness for calculation purposes

Stiffened or Unstiffened, Exterior Flange Plate - Any Bolt Material TIA Rev G

Site Data

BU#: 0
Site Name: VERNON 2 CT
App #: 0

Pole Manufacturer: Other

Bolt Data

Qty:	24	
Diameter (in.):	1	Bolt Fu: 120
Bolt Material:	A325	Bolt Fy: 92
N/A:	100	<-- Disregard
N/A:	75	<-- Disregard
Circle (in.):	32.5	

Plate Data

Diam:	36	in
Thick, t:	1.25	in
Grade (Fy):	36	ksi
Strength, Fu:	58	ksi
Single-Rod B-eff:	3.93	in

Stiffener Data (Welding at Both Sides)

Config:	2	*
Weld Type:	Fillet	
Groove Depth:	0.25	<-- Disregard
Groove Angle:	45	<-- Disregard
Fillet H. Weld:	0.3125	in
Fillet V. Weld:	0.3125	in
Width:	3	in
Height:	5	in
Thick:	0.625	in
Notch:	0.5	in
Grade:	36	ksi
Weld str.:	70	ksi

Pole Data

Diam:	30	in
Thick:	0.375	in
Grade:	42	ksi
# of Sides:	0	"0" IF Round
Fu	63	ksi
Reinf. Fillet Weld	0	"0" if None

Reactions

Mu	503.09	ft-kips
Axial, Pu:	19.26	kips
Shear, Vu:	20.42	kips
Elevation:	140	feet

Bolt Threads:

X-Excluded
$\phi V_n = \phi(0.55 A_b F_u)$
$\phi = 0.75, \phi^* V_n$ (kips):
38.88

If No stiffeners, Criteria: TIA G <-Only Applicable to Unstiffened Cases

Flange Bolt Results

Bolt Tension Capacity, $\phi^* T_n, B1$:	54.54 kips
Adjusted $\phi^* T_n$ (due to $V_u = V_u / Q_t$), B:	54.53 kips
Max Bolt <u>directly</u> applied T_u :	30.16 Kips
Min. PL "tc" for B cap. w/o Pry:	0.893 in
Min PL "treq" for actual T w/ Pry:	0.505 in
Min PL "t1" for actual T w/o Pry:	0.664 in
T allowable w/o Prying:	54.54 kips
Prying Force, q:	0.00 kips
Total Bolt Tension = $T_u + q$:	30.16 kips
Non-Prying Bolt Stress Ratio, T_u / B :	55.3% Pass

Rigid
$\phi^* T_n$
$\phi T_n [(1 - (V_u / \phi V_n)^2)^{0.5}]$

$\alpha' < 0$ case

Exterior Flange Plate Results

Flexural Check	
Compression Side Plate Stress:	16.1 ksi
Allowable Plate Stress:	32.4 ksi
Compression Plate Stress Ratio:	49.6% Pass
No Prying	
Tension Side Stress Ratio, $(treq/t)^2$:	16.3% Pass

Rigid
TIA G
$\phi^* F_y$
Comp. Y.L. Length:
12.50

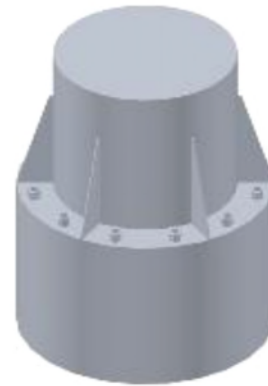
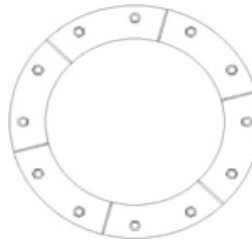
b/Le > 2, Stiffeners are not fully effective

Stiffener Results

Horizontal Weld :	n/a
Vertical Weld:	n/a
Plate Flex+Shear, $f_b / F_b + (f_v / F_v)^2$:	n/a
Plate Tension+Shear, $f_t / F_t + (f_v / F_v)^2$:	n/a
Plate Comp. (AISC Bracket):	n/a

Pole Results

Pole Punching Shear Check:	n/a
----------------------------	-----



* 0 = none, 1 = every bolt, 2 = every 2 bolts, 3 = 2 per bolt

** Note: for complete joint penetration groove welds the groove depth must be exactly 1/2 the stiffener thickness for calculation purposes

Stiffened or Unstiffened, Exterior Flange Plate - Any Bolt Material TIA Rev G

Site Data

BU#: 0
Site Name: VERNON 2 CT
App #: 0

Pole Manufacturer: Other

Bolt Data

Qty:	20		
Diameter (in.):	1	Bolt Fu:	120
Bolt Material:	A325	Bolt Fy:	92
N/A:	100	<-- Disregard	
N/A:	75	<-- Disregard	
Circle (in.):	27		

Plate Data

Diam:	30	in
Thick, t:	1.25	in
Grade (Fy):	36	ksi
Strength, Fu:	58	ksi
Single-Rod B-eff:	3.77	in

Stiffener Data (Welding at Both Sides)

Config:	2	*
Weld Type:	Fillet	
Groove Depth:	0.25	<-- Disregard
Groove Angle:	45	<-- Disregard
Fillet H. Weld:	0.3125	in
Fillet V. Weld:	0.3125	in
Width:	3	in
Height:	5	in
Thick:	0.625	in
Notch:	0.5	in
Grade:	36	ksi
Weld str.:	70	ksi

Pole Data

Diam:	24	in
Thick:	0.375	in
Grade:	42	ksi
# of Sides:	0	"0" IF Round
Fu	63	ksi
Reinf. Fillet Weld	0	"0" if None

Reactions

Mu	140.29	ft-kips
Axial, Pu:	9.78	kips
Shear, Vu:	12.32	kips
Elevation:	160	feet

Bolt Threads:

X-Excluded
$\phi V_n = \phi(0.55 A_b F_u)$
$\phi = 0.75, \phi^* V_n$ (kips):
38.88

If No stiffeners, Criteria: TIA G <-Only Applicable to Unstiffened Cases

Flange Bolt Results

Bolt Tension Capacity, $\phi^* T_n, B1$:	54.54 kips
Adjusted $\phi^* T_n$ (due to $V_u = V_u / Q_t$), B:	54.53 kips
Max Bolt <u>directly</u> applied T_u :	11.98 Kips
Min. PL "tc" for B cap. w/o Pry:	1.052 in
Min PL "treq" for actual T w/ Pry:	0.376 in
Min PL "t1" for actual T w/o Pry:	0.493 in
T allowable w/o Prying:	54.54 kips
Prying Force, q:	0.00 kips
Total Bolt Tension= $T_u + q$:	11.98 kips
Non-Prying Bolt Stress Ratio, T_u / B :	22.0% Pass

Rigid
$\phi^* T_n$
$\phi T_n [(1 - (V_u / \phi V_n)^2)^{0.5}]$

$\alpha^* < 0$ case

Exterior Flange Plate Results

Flexural Check	
Compression Side Plate Stress:	7.7 ksi
Allowable Plate Stress:	32.4 ksi
Compression Plate Stress Ratio:	23.8% Pass
No Prying	
Tension Side Stress Ratio, $(treq/t)^2$:	9.1% Pass

Rigid
TIA G
$\phi^* F_y$
Comp. Y.L. Length:
12.37

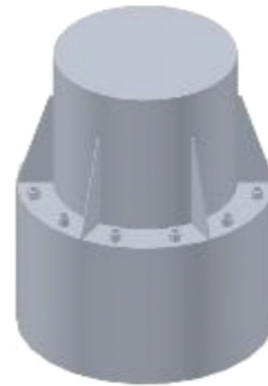
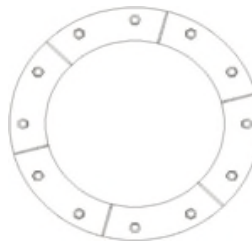
b/Le > 2, Stiffeners are not fully effective

Stiffener Results

Horizontal Weld :	n/a
Vertical Weld:	n/a
Plate Flex+Shear, $f_b / F_b + (f_v / F_v)^2$:	n/a
Plate Tension+Shear, $f_t / F_t + (f_v / F_v)^2$:	n/a
Plate Comp. (AISC Bracket):	n/a

Pole Results

Pole Punching Shear Check:	n/a
----------------------------	-----



* 0 = none, 1 = every bolt, 2 = every 2 bolts, 3 = 2 per bolt

** Note: for complete joint penetration groove welds the groove depth must be exactly 1/2 the stiffener thickness for calculation purposes

Monopole Pier and Pad Foundation

Site Name: VERNON 2 CT

TIA-222 Revision: G

Design Reactions		
Shear, S:	31.572	kips
Moment, M:	4175.899	ft-kips
Tower Height, H:	175	ft
Tower Weight, Wt:	68.061	kips
Base Diameter, BD:	5.00	ft

Foundation Dimensions		
Depth, D:	10	ft
Pad Width, W:	20	ft
Neglected Depth, N:	0	ft
Thickness, T:	3.00	ft
Pier Diameter, Pd:	7.00	ft
Ext. Above Grade, E:	0.50	ft
BP Dist. Above Pier:	3	in.
Clear Cover, Cc:	3.0	in

Soil Properties		
Soil Unit Weight, γ:	0.120	kcf
Ult. Bearing Capacity, Bc:	10.0	ksf
Angle of Friction, Φ:	34	deg
Cohesion, Co:	0.000	ksf
Passive Pressure, Pp:	0.000	ksf
Base Friction, μ :	0.30	

Material Properties		
Rebar Yield Strength, Fy:	60000	psi
Concrete Strength, F'c:	3000	psi
Concrete Unit Weight, δc:	0.150	kcf
Seismic Zone, z:	1	

Rebar Properties		
Pier Rebar Size, Sp:	9	
Pier Rebar Quantity, mp:	34	28
Pad Rebar Size, Spad:	8	
Pad Rebar Quantity, mpad:	23	12
Pier Tie Size, St:	4	3
Tie Quantity, mt:	12	7

Design Checks			
	Capacity/ Availability	Demand/ Limits	Check
<i>Req'd Pier Diam.(ft)</i>	7	7	OK
<i>Overturning (ft-kips)</i>	5136.81	4175.90	81.3%
<i>Shear Capacity (kips)</i>	175.19	31.57	18.0%
<i>Bearing (ksf)</i>	7.50	5.82	77.5%
<i>Pad Shear - 1-way (kips)</i>	640.84	397.24	62.0%
<i>Pad Shear - 2-way (kips)</i>	1954.52	128.67	6.6%
<i>Pad Moment Capacity (k-ft)</i>	2584.54	1406.85	54.4%
<i>Pier Moment Capacity (k-ft)</i>	9815.92	4412.69	45.0%



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

Antenna Mount Analysis Report with Hardware Upgrades

Mount Analysis

SMART Tool Project #: 10054697
Maser Consulting Connecticut Project #: 21777704A (REV 1)

August 6, 2021

Site Information

Site ID: 469126-VZW / VERNON 2 CT
Site Name: VERNON 2 CT
Carrier Name: Verizon Wireless
Address: 60 Industrial Park Rd.
Vernon, Connecticut 06066
Tolland County
Latitude: 41.835556°
Longitude: -72.454722°

Structure Information

Tower Type: 175-Ft Monopole
Mount Type: 15.67-Ft Platform

FUZE ID # 16242188

Analysis Results

Platform: 56.9% Pass*

*Results valid after hardware upgrades noted in the PMI Requirements are installed.

*****Contractor PMI Requirements:**

Included at the end of this MA report

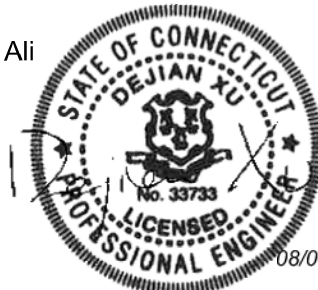
Available & Submitted via portal at <https://pmi.vzwsmart.com>

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: Sarah Ali



08/06/2021

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS Site ID: 675075, dated August 3, 2021
Mount Mapping Report	RKS Design & Engineering, LLC, Site ID: VZW:469126, dated April 11, 2021
Previous Mount Analysis	Colliers Engineering & Design, Project #: 21777704A (Rev 0), dated July 1, 2021

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), Ice Wind Speed (3-sec. Gust): Design Ice Thickness: Risk Category: Exposure Category: Topographic Category: Topographic Feature Considered: Topographic Method: Ground Elevation Factor, K_e :	118 mph 50 mph 1.50 in II B 1 N/A N/A 0.987
Seismic Parameters:	S_s : S_1 :	0.185 0.055
Maintenance Parameters:	Wind Speed (3-sec. Gust): Maintenance Live Load, L_v : Maintenance Live Load, L_m :	30 mph 250 lbs. 500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
			Samsung		Added
			Andrew		Retained
			Commscope		
			Samsung		
			Samsung		
			Raycap		
			Generic		
			Samsung		

The recent mount mapping reported existing OVP units. It is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required unless replacing an existing OVP.

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

Standard Conditions:

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

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Maser Consulting Connecticut, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - 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

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
<i>Face Horizontal</i>		<i>Pass</i>
<i>Antenna Pipe</i>		<i>Pass</i>
<i>End Plate</i>		<i>Pass</i>
<i>Standoff Horizontal</i>		<i>Pass</i>
<i>Cross Brace</i>		<i>Pass</i>
<i>Grating Support 2</i>		<i>Pass</i>
<i>Grating Support 1</i>		<i>Pass</i>
<i>Support Rail</i>		<i>Pass</i>
<i>Corner Connection</i>		<i>Pass</i>
<i>Kicker</i>		<i>Pass</i>
<i>Equipment Pipe</i>		<i>Pass</i>
<i>Mount Connection</i>		<i>Pass</i>

Structure Rating – (Controlling Utilization of all Components)	56.9%
---	--------------

Recommendation:

The existing mount will be **SUFFICIENT** for the final loading configuration upon the completion of the recommendations listed in the Special Instructions section of the below referenced PMI document.

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:

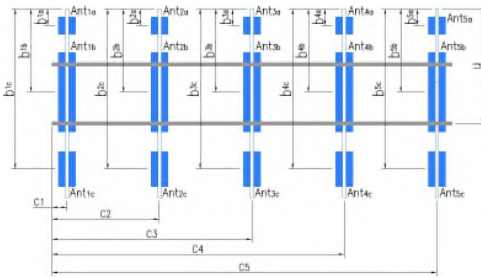
Mount Photos
Mount Mapping Report (for reference only)
Analysis Calculations
Contractor Required Post Installation Inspection (PMI) Report Deliverables
Antenna Placement Diagrams
TIA Adoption and Wind Speed Usage Letter



FCC #
UNKNOWN

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.

The diagram illustrates a triangular structure composed of three faces (FACE A, FACE B, FACE C) and three legs (LEG A, LEG B, LEG C). The structure is divided into three sectors (SECTOR A, SECTOR B, SECTOR C) by dashed lines. A callout shows a detail of the joint between a leg and a face, indicating a horizontal offset 'h'.



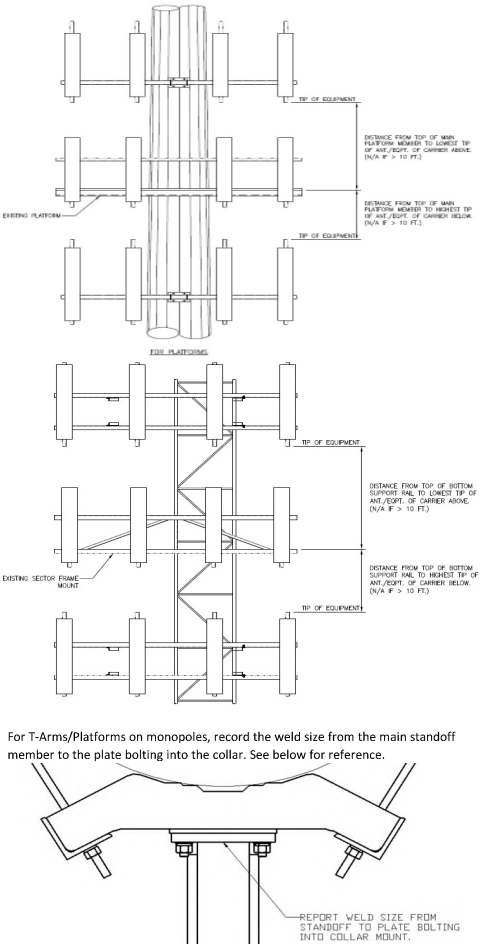
Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "y"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "y"	Horizontal Offset "C1, C2, C3, etc."
A1	Pipe 2.375"Ø X 0.15" X 83.5" Long	45.50	23.00	C1	Pipe 2.375"Ø X 0.15" X 83.5" Long	45.50	23.00
A2	Pipe 2.375"Ø X 0.15" X 83.5" Long	45.50	93.00	C2	Pipe 2.375"Ø X 0.15" X 83.5" Long	45.50	93.00
A3	Pipe 2.375"Ø X 0.15" X 83.5" Long	45.50	139.50	C3	Pipe 2.375"Ø X 0.15" X 83.5" Long	45.50	139.50
A4	Pipe 2.375"Ø X 0.15" X 83.5" Long	45.50	166.50	C4	Pipe 2.375"Ø X 0.15" X 83.5" Long	45.50	166.50
A5				C5			
A6				C6			
B1	Pipe 2.375"Ø X 0.15" X 83.5" Long	45.50	23.00	D1			
B2	Pipe 2.375"Ø X 0.15" X 83.5" Long	45.50	93.00	D2			
B3	Pipe 2.375"Ø X 0.15" X 83.5" Long	45.50	139.50	D3			
B4	Pipe 2.375"Ø X 0.15" X 83.5" Long	45.50	166.50	D4			
B5				D5			
B6				D6			
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :							30.75
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :							6
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :							
Please enter additional information or comments below.							
Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):				30.5	
For T-Arms/Platforms on monopoles, report the weld size from the main standoff to the plate bolting into the collar mount.							

[illegible]

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector				Sector B						
Sector A:	30.00	Deg	Leg A:		Deg			Ant _{1a}						
Sector B:	150.00	Deg	Leg B:		Deg			Ant _{1b}	RT4401-48A	10.00	7.00	12.00	155.129	30.00
Sector C:	270.00	Deg	Leg C:		Deg			Ant _{1c}						9.50
Sector D:		Deg	Leg D:		Deg			Ant _{2a}	RFV01U-D1A	15.00	10.00	15.00	155.838	21.50
								Ant _{2b}	(2)NHH-65B-R2B	11.90	7.10	72.00	153.963	-8.00
								Ant _{2c}						10.50
								Ant _{3a}	RFV01U-D2A	15.00	8.00	15.00	155.504	160.00
								Ant _{3b}					25.50	-7.00
								Ant _{3c}						
								Ant _{4a}						
								Ant _{4b}	LNx-6513DS-A1M	11.90	7.10	54.70	154.683	10.50
								Ant _{4c}					35.35	160.00
								Ant _{5a}						
								Ant _{5b}						
								Ant _{5c}						
								Ant on Standoff	RRFDC-6627-PF-48	15.70	10.20	25.60		30.00
								Ant on Standoff						
								Ant on Tower						
								Ant on Tower						480

Climbing Facility Information			
Location:	330.00	Deg	N/A
Climbing Facility	Corrosion Type:	N/A	
	Access:	Climbing path was unobstructed.	
	Condition:	Good condition.	

Please insert a photo of the mount centerline measurement here.



Sector C						
Ant _{1a}	GPS ANTENNA	4.00	4.00	6.00	157.629	233
Ant _{1b}	RT4401-48A	10.00	7.00	12.00	155.129	30.00
Ant _{1c}						9.50
Ant _{2a}	RFV01U-D1A	15.00	10.00	15.00	155.838	21.50
Ant _{2b}	(2)NHH-65B-R2B	11.90	7.10	72.00	153.963	-8.00
Ant _{2c}						10.50
Ant _{3a}	RFV01U-D2A	15.00	8.00	15.00	155.504	160.00
Ant _{3b}					25.50	-7.00
Ant _{3c}						
Ant _{4a}						
Ant _{4b}	LNx-6513DS-A1M	11.90	7.10	54.70	154.683	10.50
Ant _{4c}					35.35	300.00
Ant _{5a}						233
Ant _{5b}						
Ant _{5c}						
Ant on Standoff						
Ant on Standoff						
Ant on Tower						
Ant on Tower						
Sector D						
Ant _{1a}						
Ant _{1b}						
Ant _{1c}						
Ant _{2a}						
Ant _{2b}						
Ant _{2c}						
Ant _{3a}						
Ant _{3b}						
Ant _{3c}						
Ant _{4a}						
Ant _{4b}						
Ant _{4c}						
Ant _{5a}						
Ant _{5b}						
Ant _{5c}						
Ant on Standoff						
Ant on Standoff						
Ant on Tower						
Ant on Tower						

Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #
1	COAX TOTAL(11): (2)1.54"Ø HYBRID,(9)FH 1-5/8	196
2		
3		
4		
5		
6		
7		
8		

Observed Obstructions to Tower Lighting System			
If the tower lighting system is being obstructed by the carrier's equipment (for example: a light nested by the antennas), please provide photos and fill in the information below.			Photo #
Description of Obstruction:			
Type of Light:		Photo #	Additional Comments:
Lighting Technology:		Photo #	
Elevation (AGL) at base of light (Ft.):		Photo #	
Is a service loop available?		Photo #	
Is beacon installed on an extension?		Photo #	

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.



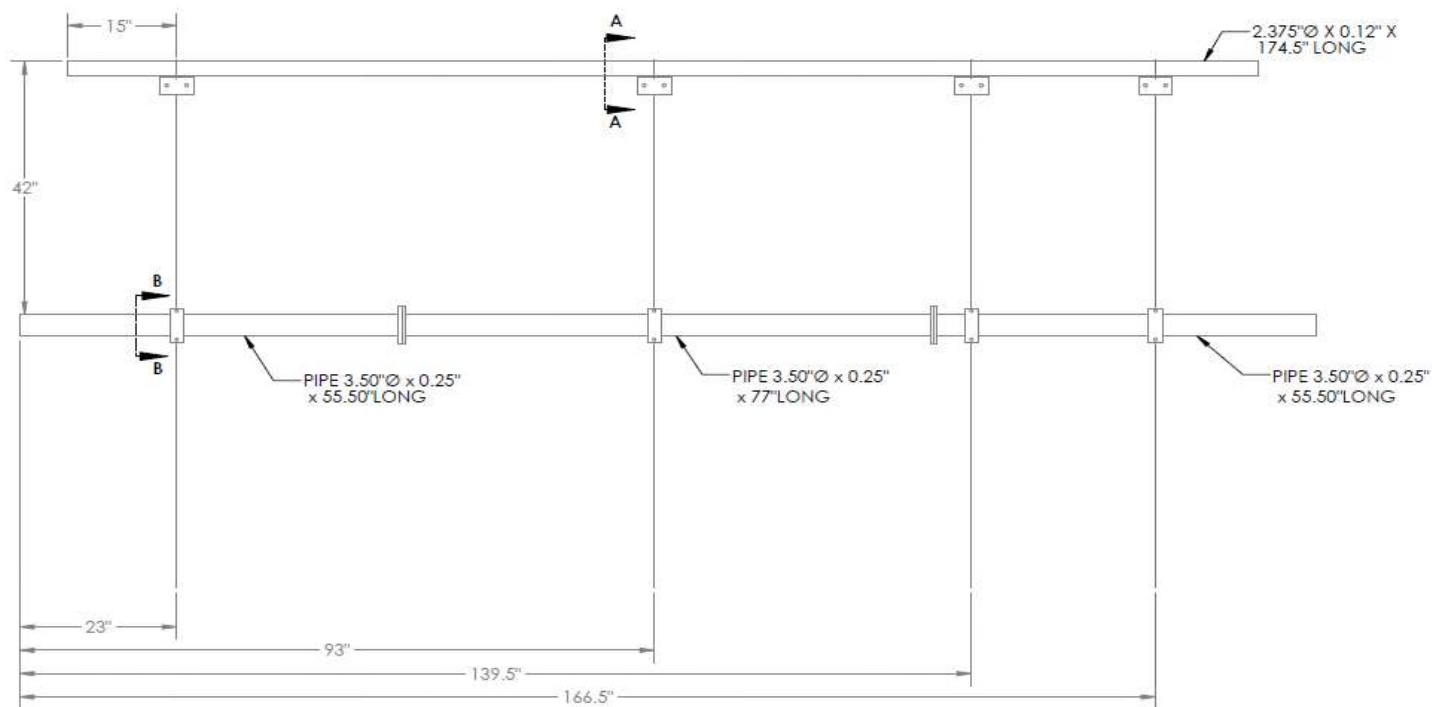
Antenna Mount Mapping Form (PATENT PENDING)

FCC #
UNKNOWN

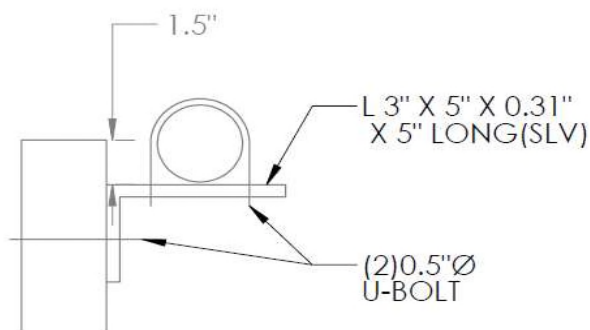
Tower Owner:	UNKNOWN	Mapping Date:	4/11/2021
Site Name:	VZW:VERNON 2 CT	Tower Type:	Monopole
Site Number or ID:	VZW:469126	Tower Height (Ft.):	UNKNOWN
Mapping Contractor:	RKS Design & Engineering, LLC	Mount Elevation (Ft.):	156.4

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.

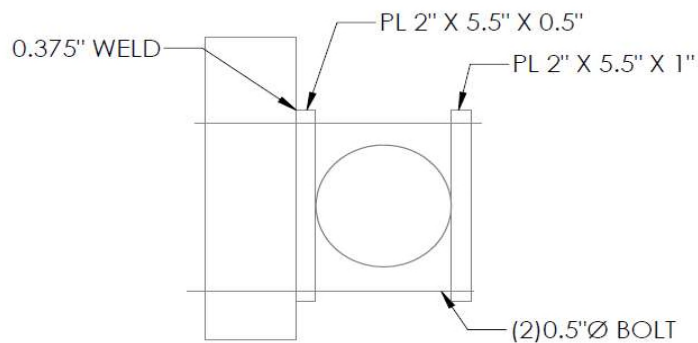
Please Insert Sketches of the Antenna Mount



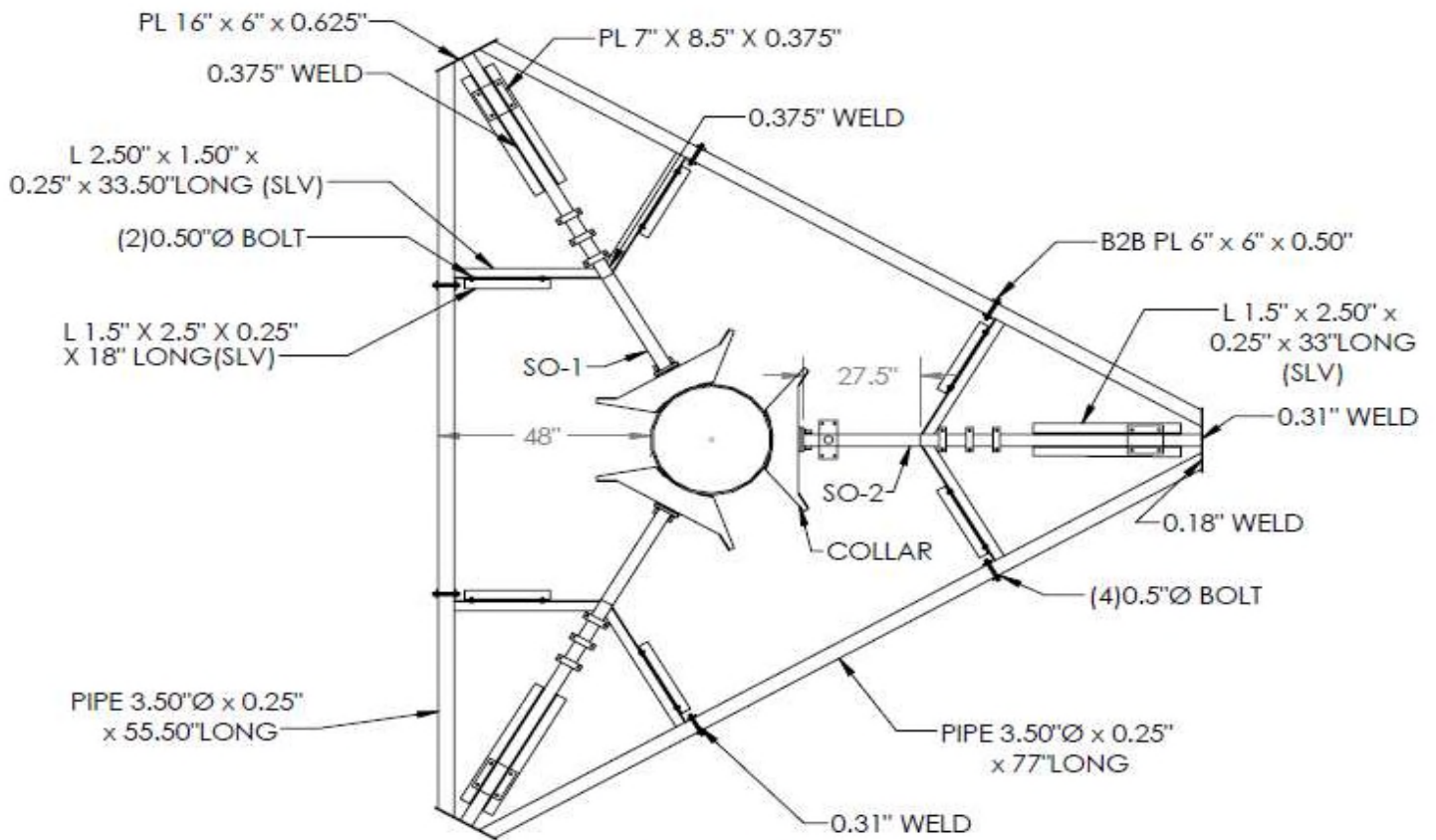
SECTION A-B & C



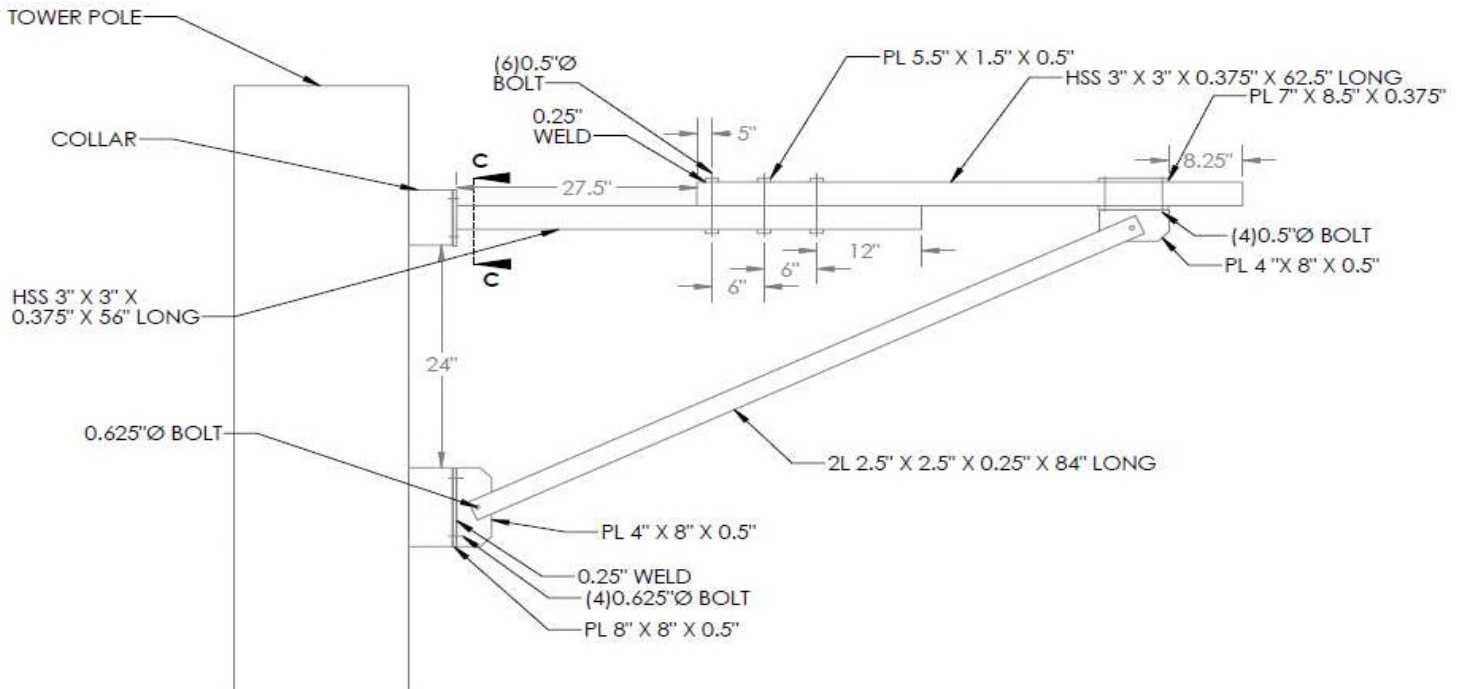
SECTION A-A



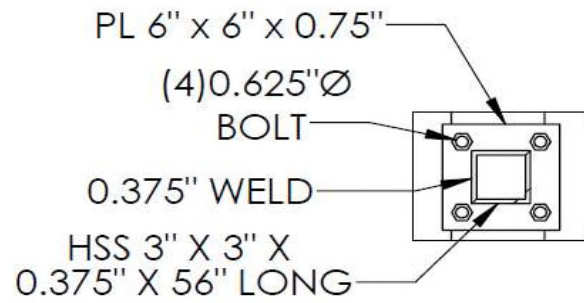
SECTION B-B



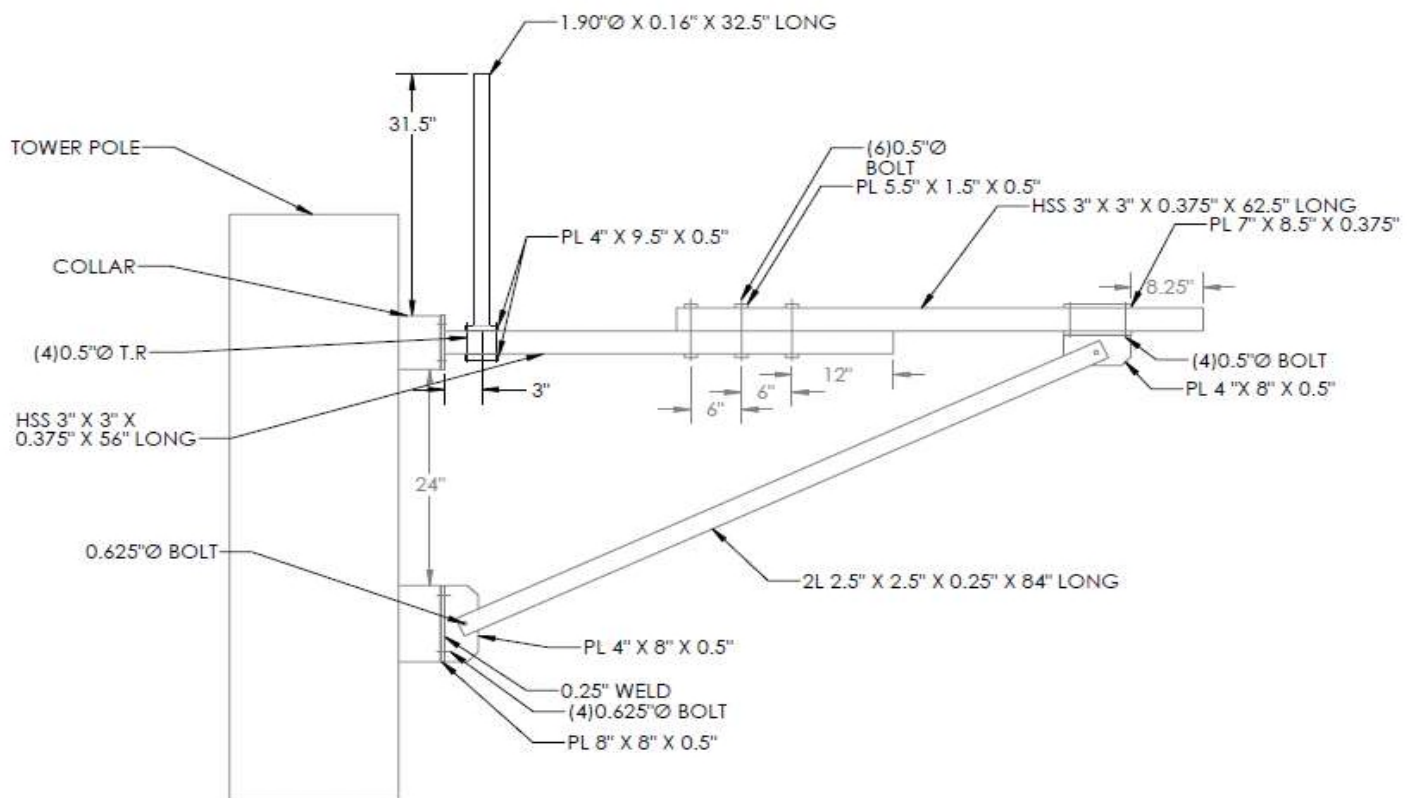
MOUNT PLAN VIEW



STAND OFF VIEW

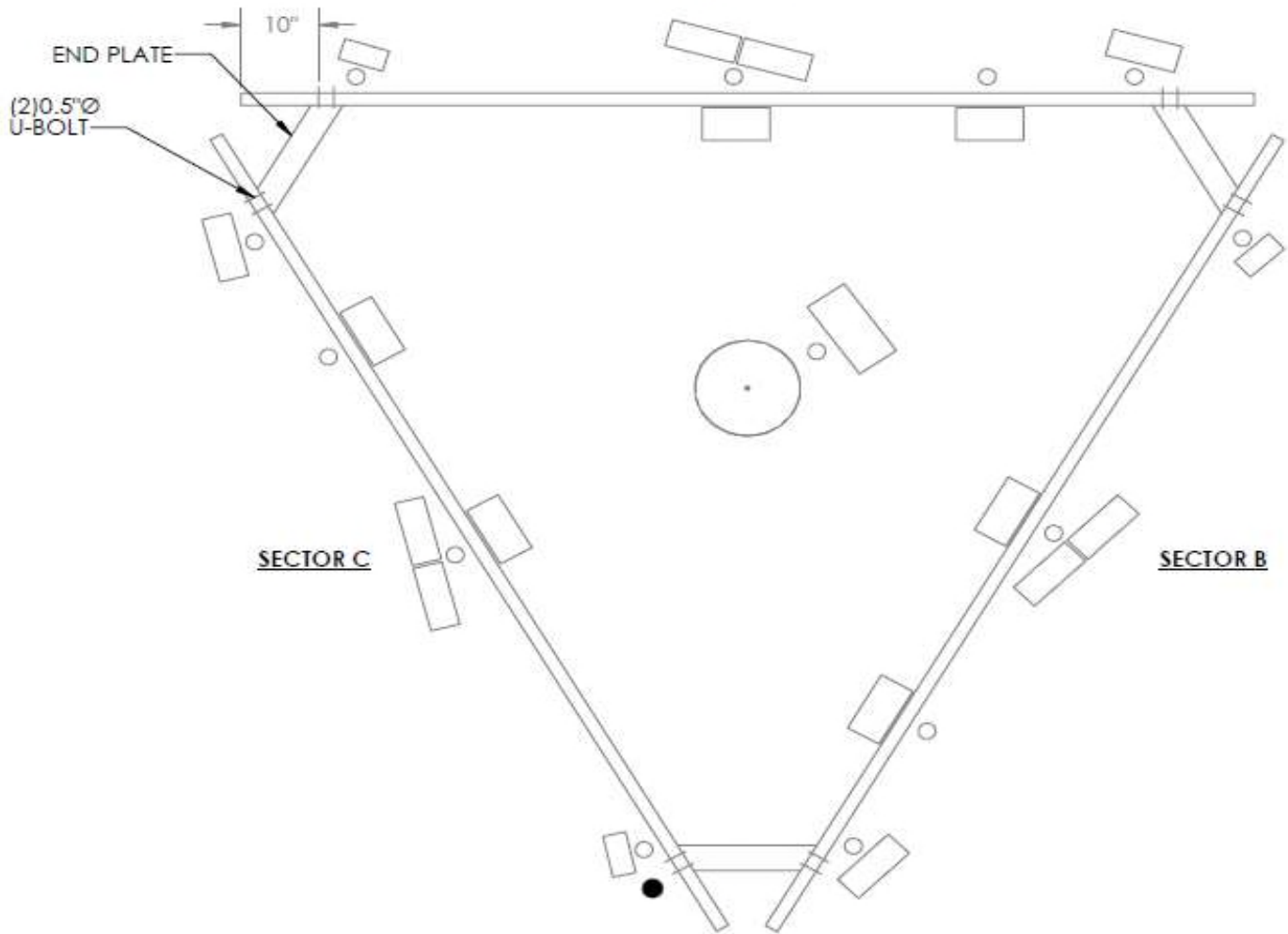


SECTION C-C

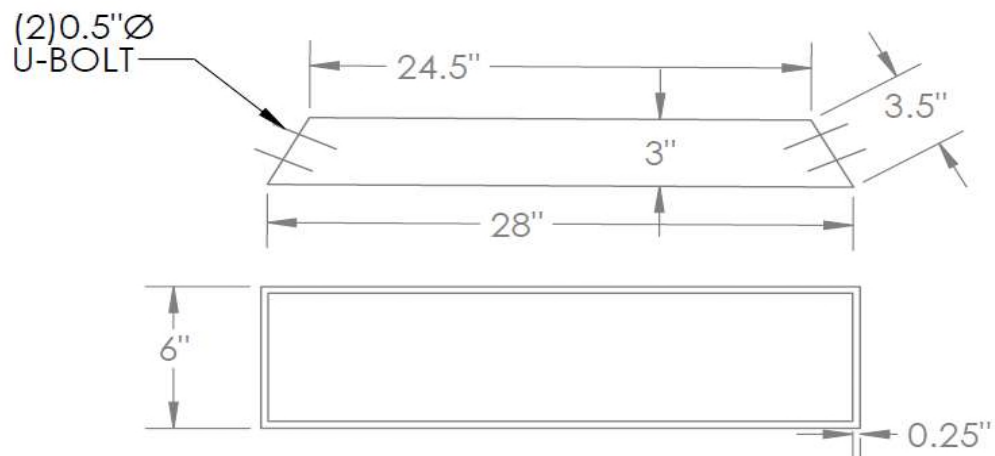


STAND OFF 2

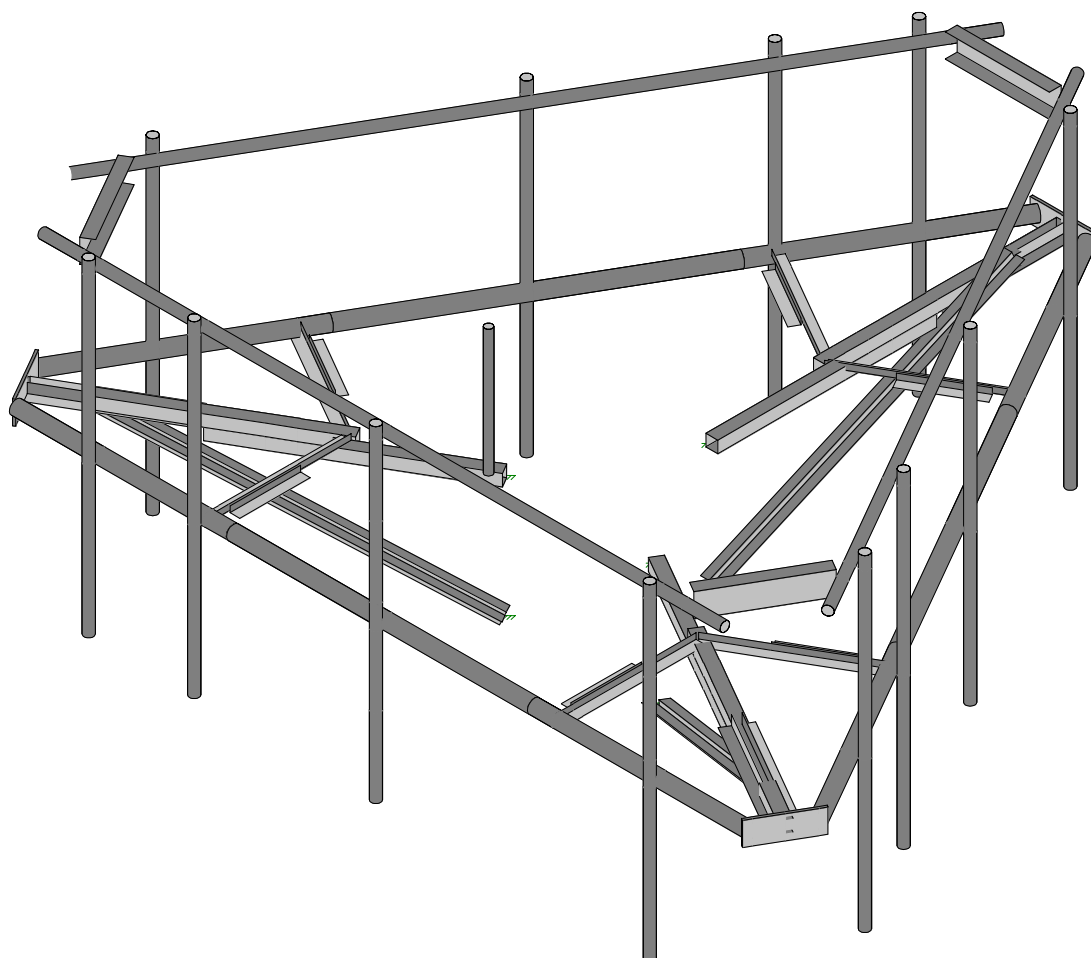
SECTOR A



ANTENNA PLAN VIEW

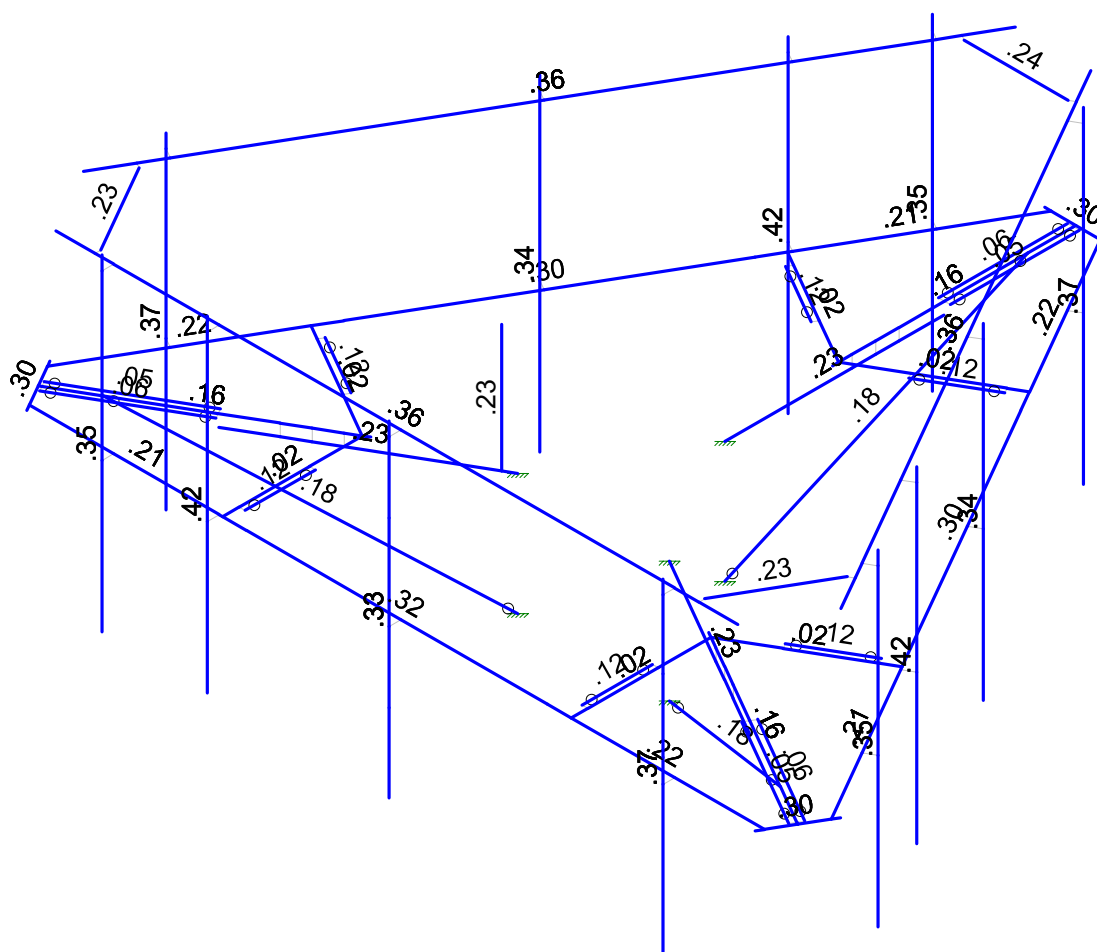
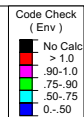


END PLATE DETAIL



Envelope Only Solution

Maser Consulting	Mount Analysis	SK - 1
SEA		Aug 4, 2021 at 8:08 PM
		469126-VZW_MT_LO_H.r3d

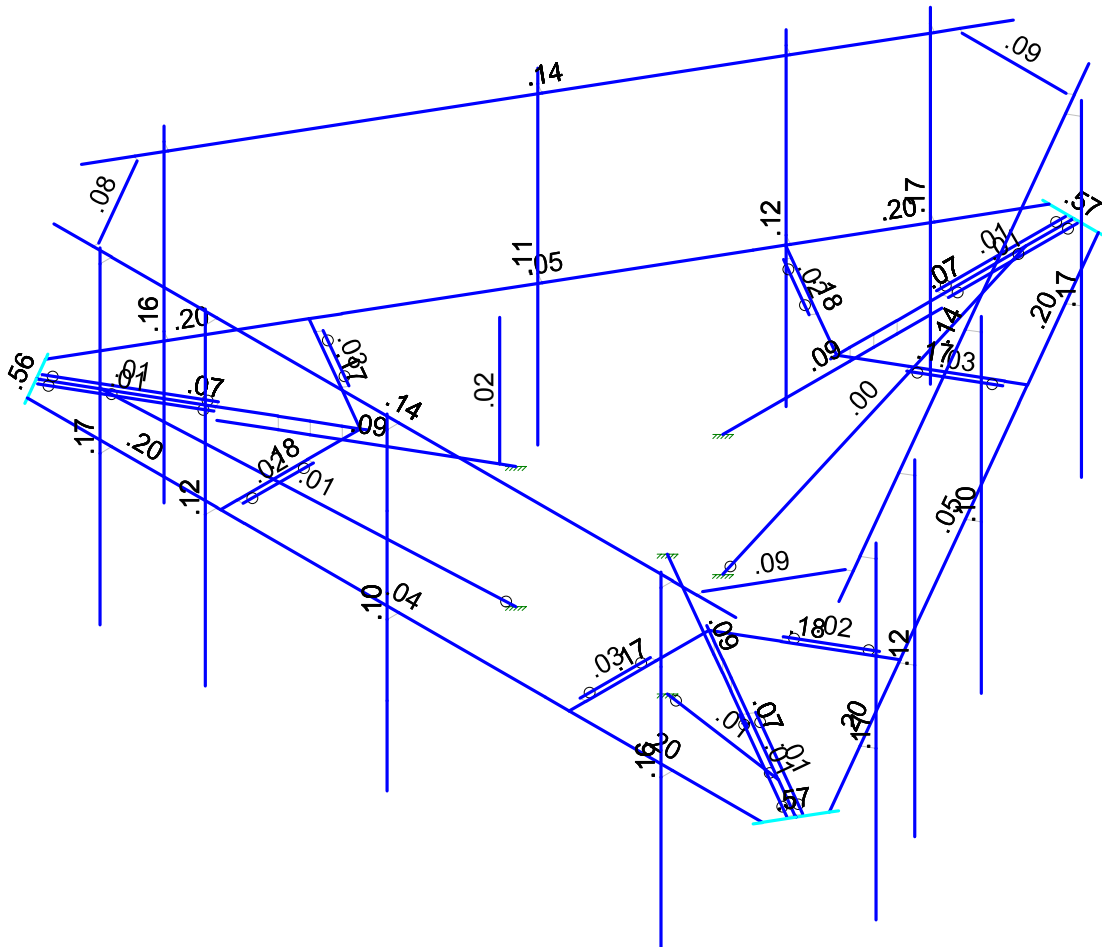
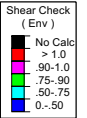


SEA

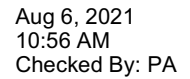
Mount Analysis

Aug 4, 2021 at 8:09 PM

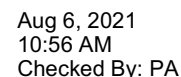
469126-VZW_MT_LO_H.r3d



Maser Consulting	Mount Analysis	SK - 3
SEA		Aug 4, 2021 at 8:10 PM
		469126-VZW_MT_LO_H.r3d

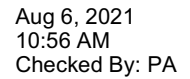


BLC Description		Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None					105		
2	Antenna Di	None					105		
3	Antenna Wo (0 Deg)	None					105		
4	Antenna Wo (30 Deg)	None					105		
5	Antenna Wo (60 Deg)	None					105		
6	Antenna Wo (90 Deg)	None					105		
7	Antenna Wo (120 Deg)	None					105		
8	Antenna Wo (150 Deg)	None					105		
9	Antenna Wo (180 Deg)	None					105		
10	Antenna Wo (210 Deg)	None					105		
11	Antenna Wo (240 Deg)	None					105		
12	Antenna Wo (270 Deg)	None					105		
13	Antenna Wo (300 Deg)	None					105		
14	Antenna Wo (330 Deg)	None					105		
15	Antenna Wi (0 Deg)	None					105		
16	Antenna Wi (30 Deg)	None					105		
17	Antenna Wi (60 Deg)	None					105		
18	Antenna Wi (90 Deg)	None					105		
19	Antenna Wi (120 Deg)	None					105		
20	Antenna Wi (150 Deg)	None					105		
21	Antenna Wi (180 Deg)	None					105		
22	Antenna Wi (210 Deg)	None					105		
23	Antenna Wi (240 Deg)	None					105		
24	Antenna Wi (270 Deg)	None					105		
25	Antenna Wi (300 Deg)	None					105		
26	Antenna Wi (330 Deg)	None					105		
27	Antenna Wm (0 Deg)	None					105		
28	Antenna Wm (30 Deg)	None					105		
29	Antenna Wm (60 Deg)	None					105		
30	Antenna Wm (90 Deg)	None					105		
31	Antenna Wm (120 De...	None					105		
32	Antenna Wm (150 De...	None					105		
33	Antenna Wm (180 De...	None					105		
34	Antenna Wm (210 De...	None					105		
35	Antenna Wm (240 De...	None					105		
36	Antenna Wm (270 De...	None					105		
37	Antenna Wm (300 De...	None					105		
38	Antenna Wm (330 De...	None					105		
39	Structure D	None		-1				3	
40	Structure Di	None						58	3
41	Structure Wo (0 Deg)	None						116	
42	Structure Wo (30 Deg)	None						116	
43	Structure Wo (60 Deg)	None						116	
44	Structure Wo (90 Deg)	None						116	
45	Structure Wo (120 D...	None						116	
46	Structure Wo (150 D...	None						116	
47	Structure Wo (180 D...	None						116	
48	Structure Wo (210 D...	None						116	
49	Structure Wo (240 D...	None						116	
50	Structure Wo (270 D...	None						116	
51	Structure Wo (300 D...	None						116	
52	Structure Wo (330 D...	None						116	
53	Structure Wi (0 Deg)	None						116	
54	Structure Wi (30 Deg)	None						116	
55	Structure Wi (60 Deg)	None						116	
56	Structure Wi (90 Deg)	None						116	

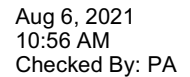


	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
57	Structure Wi (120 De...	None						116	
58	Structure Wi (150 De...	None						116	
59	Structure Wi (180 De...	None						116	
60	Structure Wi (210 De...	None						116	
61	Structure Wi (240 De...	None						116	
62	Structure Wi (270 De...	None						116	
63	Structure Wi (300 De...	None						116	
64	Structure Wi (330 De...	None						116	
65	Structure Wm (0 Deg)	None						116	
66	Structure Wm (30 De...	None						116	
67	Structure Wm (60 De...	None						116	
68	Structure Wm (90 De...	None						116	
69	Structure Wm (120 D...	None						116	
70	Structure Wm (150 D...	None						116	
71	Structure Wm (180 D...	None						116	
72	Structure Wm (210 D...	None						116	
73	Structure Wm (240 D...	None						116	
74	Structure Wm (270 D...	None						116	
75	Structure Wm (300 D...	None						116	
76	Structure Wm (330 D...	None						116	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		
81	BLC 39 Transient Are...	None						24	
82	BLC 40 Transient Are...	None						24	

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



	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
129	N132	-6.041667	3.5	5.125	0	
130	N133	-6.041667	3.5	5.375	0	
131	N135	1.480047	0	-7.686484	0	
132	N136	1.696553	0	-7.811484	0	
133	N137	1.696553	3.791667	-7.811484	0	
134	N138	1.696553	-3.166667	-7.811484	0	
135	N139	1.480047	3.5	-7.686484	0	
136	N140	1.696553	3.5	-7.811484	0	
137	N141	4.396714	0	-2.634669	0	
138	N142	4.61322	0	-2.759669	0	
139	N143	4.61322	3.791667	-2.759669	0	
140	N144	4.61322	-3.166667	-2.759669	0	
141	N145	4.396714	3.5	-2.634669	0	
142	N146	4.61322	3.5	-2.759669	0	
143	N147	6.334214	0	0.72118	0	
144	N148	6.55072	0	0.59618	0	
145	N149	6.55072	3.791667	0.59618	0	
146	N150	6.55072	-3.166667	0.59618	0	
147	N151	6.334214	3.5	0.72118	0	
148	N152	6.55072	3.5	0.59618	0	
149	N153	7.459214	0	2.669737	0	
150	N154	7.67572	0	2.544737	0	
151	N155	7.67572	3.791667	2.544737	0	
152	N156	7.67572	-3.166667	2.544737	0	
153	N157	7.459214	3.5	2.669737	0	
154	N158	7.67572	3.5	2.544737	0	
155	N160	-7.396714	0	2.561484	0	
156	N161	-7.61322	0	2.436484	0	
157	N162	-7.61322	3.791667	2.436484	0	
158	N163	-7.61322	-3.166667	2.436484	0	
159	N164	-7.396714	3.5	2.561484	0	
160	N165	-7.61322	3.5	2.436484	0	
161	N166	-4.480047	0	-2.490331	0	
162	N167	-4.696553	0	-2.615331	0	
163	N168	-4.696553	3.791667	-2.615331	0	
164	N169	-4.696553	-3.166667	-2.615331	0	
165	N170	-4.480047	3.5	-2.490331	0	
166	N171	-4.696553	3.5	-2.615331	0	
167	N172	-2.542547	0	-5.84618	0	
168	N173	-2.759053	0	-5.97118	0	
169	N174	-2.759053	3.791667	-5.97118	0	
170	N175	-2.759053	-3.166667	-5.97118	0	
171	N176	-2.542547	3.5	-5.84618	0	
172	N177	-2.759053	3.5	-5.97118	0	
173	N178	-1.417547	0	-7.794737	0	
174	N179	-1.634053	0	-7.919737	0	
175	N180	-1.634053	3.791667	-7.919737	0	
176	N181	-1.634053	-3.166667	-7.919737	0	
177	N182	-1.417547	3.5	-7.794737	0	
178	N183	-1.634053	3.5	-7.919737	0	
179	N182A	6.4375	3.5	5.125	0	
180	N183A	6.4375	3.5	5	0	
181	N184	-6.4375	3.5	5.125	0	
182	N185	-6.4375	3.5	5	0	
183	N187	1.21963	3.5	-8.137539	0	
184	N188	1.111377	3.5	-8.075039	0	
185	N189	7.65713	3.5	3.012539	0	

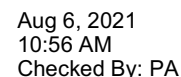


	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
186	N190	7.548877	3.5	3.075039	0	
187	N192	-7.65713	3.5	3.012539	0	
188	N193	-7.548877	3.5	3.075039	0	
189	N194	-1.21963	3.5	-8.137539	0	
190	N195	-1.111377	3.5	-8.075039	0	
191	N191	-0.	0	-8.325532	0	
192	N192A	-0.	-2.833333	-1.867199	0	
193	N194A	-7.210122	0	4.162766	0	
194	N195A	-1.617042	-2.833333	0.933599	0	
195	N197	7.210122	0	4.162766	0	
196	N198	1.617042	-2.833333	0.933599	0	
197	N197A	-1.833548	-.25	1.058599	0	
198	N198A	-1.833548	2.458333	1.058599	0	
199	ANTENNA CL	5.916667	.5	5.375	0	
200	NHH_T	5.916667	2.041667	5.375	0	
201	N201	0.083333	.5	5.375	0	
202	CBRS CL	0.083333	-1.5	5.375	0	
203	MT6407 CL	0.083333	2	5.375	0	

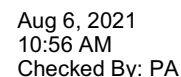
	Label	Shape	Type	Design List	Material	Design ...	A [in2]	lvy [in4]	lzz [in4]	J [in4]
1	Antenna Pipe	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Face Horizontal	PIPE 3.0	Beam	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
3	Standoff Horizontal	HSS3X3X6	Beam	Tube	A500 Gr. B 46	Typical	3.39	3.78	3.78	6.64
4	Cross Brace	L2.5x1.5x4	Beam	Single Angle	A36 Gr.36	Typical	.947	.16	.594	.021
5	End Plate	PL5/8X6	Beam	RECT	A36 Gr.36	Typical	3.75	.122	11.25	.456
6	Grating Support 1	L2.5x1.5x4	Beam	Single Angle	A36 Gr.36	Typical	.947	.16	.594	.021
7	Grating Support 2	L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical	1.19	.692	.692	.026
8	Support Rail	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
9	Corner Connection	C6X3	Beam	Channel	A36 Gr.36	Typical	2.875	2.488	15.872	.057
10	TES Corner Connection	C6X13	Beam	Channel	A36 Gr.36	Typical	3.82	1.05	17.3	.237
11	Kicker	LL2.5x2.5x4x3	Beam	Double Angle (3/8 ...	A36 Gr.36	Typical	2.38	3.31	1.38	.052
12	Equipment Pipe	PIPE 1.5	Beam	Pipe	A53 Gr. B	Typical	.749	.293	.293	.586

	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

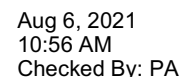
	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
1	M72	N109A	N108A			Support Rail	Beam	Pipe	A53 Gr. B	Typical
2	M73	N112A	N111A			Support Rail	Beam	Pipe	A53 Gr. B	Typical
3	M74	N115B	N114A			Support Rail	Beam	Pipe	A53 Gr. B	Typical
4	M33A	N48A	N50B			Standoff Horizontal	Beam	Tube	A500 Gr...	Typical
5	M34	N51B	N52A			Standoff Horizontal	Beam	Tube	A500 Gr...	Typical
6	M33B	N53B	N54A			Standoff Horizontal	Beam	Tube	A500 Gr...	Typical
7	M34A	N55A	N56A			Standoff Horizontal	Beam	Tube	A500 Gr...	Typical



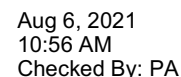
	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
8	M53	N88	N89			Standoff Horizontal	Beam	Tube	A500 Gr...	Typical
9	M54	N90	N91			Standoff Horizontal	Beam	Tube	A500 Gr...	Typical
10	M107	N116	N115			RIGID	None	None	RIGID	Typical
11	M35	N55	N58			RIGID	None	None	RIGID	Typical
12	M36	N54	N57			RIGID	None	None	RIGID	Typical
13	M37	N53A	N56			RIGID	None	None	RIGID	Typical
14	M40A	N65	N67			RIGID	None	None	RIGID	Typical
15	M41A	N65	N69			RIGID	None	None	RIGID	Typical
16	M42A	N64	N68			RIGID	None	None	RIGID	Typical
17	M43A	N64	N66			RIGID	None	None	RIGID	Typical
18	M46B	N70	N72			RIGID	None	None	RIGID	Typical
19	M47	N71	N73B			RIGID	None	None	RIGID	Typical
20	M50	N75A	N77			RIGID	None	None	RIGID	Typical
21	M51	N74A	N76A			RIGID	None	None	RIGID	Typical
22	M35A	N59A	N62A			RIGID	None	None	RIGID	Typical
23	M36A	N58A	N61A			RIGID	None	None	RIGID	Typical
24	M37A	N57A	N60A			RIGID	None	None	RIGID	Typical
25	M40	N69A	N71A			RIGID	None	None	RIGID	Typical
26	M41	N69A	N73			RIGID	None	None	RIGID	Typical
27	M42	N68A	N72A			RIGID	None	None	RIGID	Typical
28	M43	N68A	N70A			RIGID	None	None	RIGID	Typical
29	M46	N74	N76			RIGID	None	None	RIGID	Typical
30	M47A	N75	N77A			RIGID	None	None	RIGID	Typical
31	M50A	N79	N81			RIGID	None	None	RIGID	Typical
32	M51A	N78A	N80			RIGID	None	None	RIGID	Typical
33	M55	N94	N97			RIGID	None	None	RIGID	Typical
34	M56	N93	N96			RIGID	None	None	RIGID	Typical
35	M57	N92	N95			RIGID	None	None	RIGID	Typical
36	M60	N104	N106			RIGID	None	None	RIGID	Typical
37	M61	N104	N108			RIGID	None	None	RIGID	Typical
38	M62	N103	N107			RIGID	None	None	RIGID	Typical
39	M63	N103	N105			RIGID	None	None	RIGID	Typical
40	M66	N109	N111			RIGID	None	None	RIGID	Typical
41	M67	N110	N112			RIGID	None	None	RIGID	Typical
42	M70	N114	N116A			RIGID	None	None	RIGID	Typical
43	M71	N113	N115A			RIGID	None	None	RIGID	Typical
44	M75	N115C	N114B			RIGID	None	None	RIGID	Typical
45	M76	N117B	N116B			RIGID	None	None	RIGID	Typical
46	M78	N121	N120			RIGID	None	None	RIGID	Typical
47	M79	N123	N122			RIGID	None	None	RIGID	Typical
48	M81	N127	N126			RIGID	None	None	RIGID	Typical
49	M82	N129	N128			RIGID	None	None	RIGID	Typical
50	M84	N133	N132			RIGID	None	None	RIGID	Typical
51	M85	N136	N135			RIGID	None	None	RIGID	Typical
52	M87	N140	N139			RIGID	None	None	RIGID	Typical
53	M88	N142	N141			RIGID	None	None	RIGID	Typical
54	M90	N146	N145			RIGID	None	None	RIGID	Typical
55	M91	N148	N147			RIGID	None	None	RIGID	Typical
56	M93	N152	N151			RIGID	None	None	RIGID	Typical
57	M94	N154	N153			RIGID	None	None	RIGID	Typical
58	M96	N158	N157			RIGID	None	None	RIGID	Typical
59	M97	N161	N160			RIGID	None	None	RIGID	Typical
60	M99	N165	N164			RIGID	None	None	RIGID	Typical
61	M100	N167	N166			RIGID	None	None	RIGID	Typical
62	M102	N171	N170			RIGID	None	None	RIGID	Typical
63	M103	N173	N172			RIGID	None	None	RIGID	Typical
64	M105	N177	N176			RIGID	None	None	RIGID	Typical



	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
65	M106	N179	N178			RIGID	None	None	RIGID	Typical
66	M108	N183	N182			RIGID	None	None	RIGID	Typical
67	M109	N182A	N183A			RIGID	None	None	RIGID	Typical
68	M110	N184	N185			RIGID	None	None	RIGID	Typical
69	M111	N187	N188			RIGID	None	None	RIGID	Typical
70	M112	N189	N190			RIGID	None	None	RIGID	Typical
71	M113	N192	N193			RIGID	None	None	RIGID	Typical
72	M114	N194	N195			RIGID	None	None	RIGID	Typical
73	M118	N192A	N191			Kicker	Beam	Double Angl...	A36 Gr.36	Typical
74	M119	N195A	N194A			Kicker	Beam	Double Angl...	A36 Gr.36	Typical
75	M120	N198	N197			Kicker	Beam	Double Angl...	A36 Gr.36	Typical
76	M44B	N66	N67			Grating Support 2	Beam	Single Angle	A36 Gr.36	Typical
77	M45B	N68	N69		270	Grating Support 2	Beam	Single Angle	A36 Gr.36	Typical
78	M44	N70A	N71A			Grating Support 2	Beam	Single Angle	A36 Gr.36	Typical
79	M45	N72A	N73		270	Grating Support 2	Beam	Single Angle	A36 Gr.36	Typical
80	M64	N105	N106			Grating Support 2	Beam	Single Angle	A36 Gr.36	Typical
81	M65	N107	N108		270	Grating Support 2	Beam	Single Angle	A36 Gr.36	Typical
82	M48	N72	N73B		270	Grating Support 1	Beam	Single Angle	A36 Gr.36	Typical
83	M49	N76A	N75A		270	Grating Support 1	Beam	Single Angle	A36 Gr.36	Typical
84	M48A	N76	N77A		270	Grating Support 1	Beam	Single Angle	A36 Gr.36	Typical
85	M49A	N80	N79		270	Grating Support 1	Beam	Single Angle	A36 Gr.36	Typical
86	M68	N111	N112		270	Grating Support 1	Beam	Single Angle	A36 Gr.36	Typical
87	M69	N115A	N114		270	Grating Support 1	Beam	Single Angle	A36 Gr.36	Typical
88	M1	N3	N6			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
89	M3	N2	N8			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
90	M5	N8	N6			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
91	M26	N42	N43			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
92	M27	N41	N44A			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
93	M28	N44A	N43			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
94	M31	N51A	N52			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
95	M32	N50A	N53			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
96	M33	N53	N52			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
97	M121	N198A	N197A			Equipment Pipe	Beam	Pipe	A53 Gr. B	Typical
98	M32A	N59	N60			End Plate	Beam	RECT	A36 Gr.36	Typical
99	M32B	N63A	N64A			End Plate	Beam	RECT	A36 Gr.36	Typical
100	M52	N98	N99			End Plate	Beam	RECT	A36 Gr.36	Typical
101	M38	N61	N62		270	Cross Brace	Beam	Single Angle	A36 Gr.36	Typical
102	M39A	N63	N61		270	Cross Brace	Beam	Single Angle	A36 Gr.36	Typical
103	M38A	N65A	N66A		270	Cross Brace	Beam	Single Angle	A36 Gr.36	Typical
104	M39	N67A	N65A		270	Cross Brace	Beam	Single Angle	A36 Gr.36	Typical
105	M58	N100	N101		270	Cross Brace	Beam	Single Angle	A36 Gr.36	Typical
106	M59	N102	N100		270	Cross Brace	Beam	Single Angle	A36 Gr.36	Typical
107	M115	N195	N188			Corner Connection	Beam	Channel	A36 Gr.36	Typical
108	M116	N185	N193			Corner Connection	Beam	Channel	A36 Gr.36	Typical
109	M117	N190	N183A			Corner Connection	Beam	Channel	A36 Gr.36	Typical
110	MP1A	N117	N118			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
111	MP2A	N118A	N119			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
112	MP3A	N124	N125			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
113	MP4A	N130	N131			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
114	MP1C	N137	N138			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
115	MP2C	N143	N144			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
116	MP3C	N149	N150			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
117	MP4C	N155	N156			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
118	MP1B	N162	N163			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
119	MP2B	N168	N169			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
120	MP3B	N174	N175			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
121	MP4B	N180	N181			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical



	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M72						Yes	Default			None
2	M73						Yes				None
3	M74						Yes				None
4	M33A						Yes				None
5	M34						Yes	Default			None
6	M33B						Yes				None
7	M34A						Yes	Default			None
8	M53						Yes				None
9	M54						Yes	Default			None
10	M107	OOOXOX					Yes	** NA **			None
11	M35	BenPIN					Yes	** NA **			None
12	M36	BenPIN					Yes	** NA **			None
13	M37	BenPIN					Yes	** NA **			None
14	M40A						Yes	** NA **			None
15	M41A						Yes	** NA **			None
16	M42A						Yes	** NA **			None
17	M43A						Yes	** NA **			None
18	M46B						Yes	** NA **			None
19	M47						Yes	** NA **			None
20	M50						Yes	** NA **			None
21	M51						Yes	** NA **			None
22	M35A	BenPIN					Yes	** NA **			None
23	M36A	BenPIN					Yes	** NA **			None
24	M37A	BenPIN					Yes	** NA **			None
25	M40						Yes	** NA **			None
26	M41						Yes	** NA **			None
27	M42						Yes	** NA **			None
28	M43						Yes	** NA **			None
29	M46						Yes	** NA **			None
30	M47A						Yes	** NA **			None
31	M50A						Yes	** NA **			None
32	M51A						Yes	** NA **			None
33	M55	BenPIN					Yes	** NA **			None
34	M56	BenPIN					Yes	** NA **			None
35	M57	BenPIN					Yes	** NA **			None
36	M60						Yes	** NA **			None
37	M61						Yes	** NA **			None
38	M62						Yes	** NA **			None
39	M63						Yes	** NA **			None
40	M66						Yes	** NA **			None
41	M67						Yes	** NA **			None
42	M70						Yes	** NA **			None
43	M71						Yes	** NA **			None
44	M75						Yes	** NA **			None
45	M76	OOOXOX					Yes	** NA **			None
46	M78						Yes	** NA **			None
47	M79	OOOXOX					Yes	** NA **			None
48	M81						Yes	** NA **			None
49	M82	OOOXOX					Yes	** NA **			None
50	M84						Yes	** NA **			None
51	M85	OOOXOX					Yes	** NA **			None
52	M87						Yes	** NA **			None
53	M88	OOOXOX					Yes	** NA **			None
54	M90						Yes	** NA **			None
55	M91	OOOXOX					Yes	** NA **			None
56	M93						Yes	** NA **			None



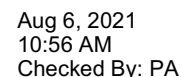
	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
57	M94	OOOXOX					Yes	** NA **			None
58	M96						Yes	** NA **			None
59	M97	OOOXOX					Yes	** NA **			None
60	M99						Yes	** NA **			None
61	M100	OOOXOX					Yes	** NA **			None
62	M102						Yes	** NA **			None
63	M103	OOOXOX					Yes	** NA **			None
64	M105						Yes	** NA **			None
65	M106	OOOXOX					Yes	** NA **			None
66	M108						Yes	** NA **			None
67	M109	OOOOOX					Yes	** NA **			None
68	M110	OOOOOX					Yes	** NA **			None
69	M111	OOOOOX					Yes	** NA **			None
70	M112	OOOOOX					Yes	** NA **			None
71	M113	OOOOOX					Yes	** NA **			None
72	M114	OOOOOX					Yes	** NA **			None
73	M118	BenPIN	BenPIN				Yes	Default			None
74	M119	BenPIN	BenPIN				Yes	Default			None
75	M120	BenPIN	BenPIN				Yes	Default			None
76	M44B	BenPIN	BenPIN				Yes	Default			None
77	M45B	BenPIN	BenPIN				Yes	Default			None
78	M44	BenPIN	BenPIN				Yes	Default			None
79	M45	BenPIN	BenPIN				Yes	Default			None
80	M64	BenPIN	BenPIN				Yes	Default			None
81	M65	BenPIN	BenPIN				Yes	Default			None
82	M48	BenPIN	BenPIN				Yes	Default			None
83	M49	BenPIN	BenPIN				Yes	Default			None
84	M48A	BenPIN	BenPIN				Yes	Default			None
85	M49A	BenPIN	BenPIN				Yes	Default			None
86	M68	BenPIN	BenPIN				Yes	Default			None
87	M69	BenPIN	BenPIN				Yes	Default			None
88	M1						Yes				None
89	M3						Yes				None
90	M5						Yes				None
91	M26						Yes				None
92	M27						Yes				None
93	M28						Yes				None
94	M31						Yes				None
95	M32						Yes				None
96	M33						Yes				None
97	M121						Yes				None
98	M32A						Yes				None
99	M32B						Yes				None
100	M52						Yes				None
101	M38					Euler Buc...	Yes				None
102	M39A					Euler Buc...	Yes				None
103	M38A					Euler Buc...	Yes				None
104	M39					Euler Buc...	Yes				None
105	M58					Euler Buc...	Yes				None
106	M59					Euler Buc...	Yes				None
107	M115						Yes				None
108	M116						Yes				None
109	M117						Yes				None
110	MP1A						Yes	** NA **			None
111	MP2A						Yes	** NA **			None
112	MP3A						Yes	** NA **			None
113	MP4A						Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
114	MP1C						Yes	** NA **			None
115	MP2C						Yes	** NA **			None
116	MP3C						Yes	** NA **			None
117	MP4C						Yes	** NA **			None
118	MP1B						Yes	** NA **			None
119	MP2B						Yes	** NA **			None
120	MP3B						Yes	** NA **			None
121	MP4B						Yes	** NA **			None

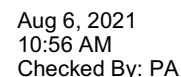
Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	Y	-43.55	.79
2	MP1A	My	-.022	.79
3	MP1A	Mz	0	.79
4	MP1A	Y	-43.55	2.79
5	MP1A	My	-.022	2.79
6	MP1A	Mz	0	2.79
7	MP1B	Y	-43.55	.79
8	MP1B	My	.011	.79
9	MP1B	Mz	-.019	.79
10	MP1B	Y	-43.55	2.79
11	MP1B	My	.011	2.79
12	MP1B	Mz	-.019	2.79
13	MP1C	Y	-43.55	.79
14	MP1C	My	.011	.79
15	MP1C	Mz	.019	.79
16	MP1C	Y	-43.55	2.79
17	MP1C	My	.011	2.79
18	MP1C	Mz	.019	2.79
19	MP4A	Y	-15.2	2.25
20	MP4A	My	-.008	2.25
21	MP4A	Mz	0	2.25
22	MP4A	Y	-15.2	4.25
23	MP4A	My	-.008	4.25
24	MP4A	Mz	0	4.25
25	MP4B	Y	-15.2	2
26	MP4B	My	.004	2
27	MP4B	Mz	-.007	2
28	MP4B	Y	-15.2	4
29	MP4B	My	.004	4
30	MP4B	Mz	-.007	4
31	MP4C	Y	-15.2	2
32	MP4C	My	.004	2
33	MP4C	Mz	.007	2
34	MP4C	Y	-15.2	4
35	MP4C	My	.004	4
36	MP4C	Mz	.007	4
37	MP2A	Y	-21.85	1.75
38	MP2A	My	-.011	1.75
39	MP2A	Mz	.013	1.75
40	MP2A	Y	-21.85	4.75
41	MP2A	My	-.011	4.75
42	MP2A	Mz	.013	4.75
43	MP2B	Y	-21.85	1.75
44	MP2B	My	-.006	1.75

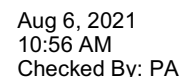


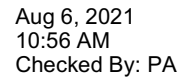
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
102	M121	Mz	0	1
103	MP1C	Y	-10	1
104	MP1C	My	.003	1
105	MP1C	Mz	.003	1

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	Y	-57.45	.79
2	MP1A	My	-.029	.79
3	MP1A	Mz	0	.79
4	MP1A	Y	-57.45	2.79
5	MP1A	My	-.029	2.79
6	MP1A	Mz	0	2.79
7	MP1B	Y	-57.45	.79
8	MP1B	My	.014	.79
9	MP1B	Mz	-.025	.79
10	MP1B	Y	-57.45	2.79
11	MP1B	My	.014	2.79
12	MP1B	Mz	-.025	2.79
13	MP1C	Y	-57.45	.79
14	MP1C	My	.014	.79
15	MP1C	Mz	.025	.79
16	MP1C	Y	-57.45	2.79
17	MP1C	My	.014	2.79
18	MP1C	Mz	.025	2.79
19	MP4A	Y	-75.886	2.25
20	MP4A	My	-.038	2.25
21	MP4A	Mz	0	2.25
22	MP4A	Y	-75.886	4.25
23	MP4A	My	-.038	4.25
24	MP4A	Mz	0	4.25
25	MP4B	Y	-75.886	2
26	MP4B	My	.019	2
27	MP4B	Mz	-.033	2
28	MP4B	Y	-75.886	4
29	MP4B	My	.019	4
30	MP4B	Mz	-.033	4
31	MP4C	Y	-75.886	2
32	MP4C	My	.019	2
33	MP4C	Mz	.033	2
34	MP4C	Y	-75.886	4
35	MP4C	My	.019	4
36	MP4C	Mz	.033	4
37	MP2A	Y	-97.307	1.75
38	MP2A	My	-.049	1.75
39	MP2A	Mz	.057	1.75
40	MP2A	Y	-97.307	4.75
41	MP2A	My	-.049	4.75
42	MP2A	Mz	.057	4.75
43	MP2B	Y	-97.307	1.75
44	MP2B	My	-.025	1.75
45	MP2B	Mz	-.071	1.75
46	MP2B	Y	-97.307	4.75
47	MP2B	My	-.025	4.75
48	MP2B	Mz	-.071	4.75
49	MP2C	Y	-97.307	1.75

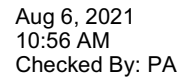


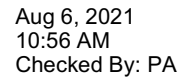
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	0	.79
2	MP1A	Z	-79.788	.79
3	MP1A	Mx	0	.79
4	MP1A	X	0	2.79
5	MP1A	Z	-79.788	2.79
6	MP1A	Mx	0	2.79
7	MP1B	X	0	.79
8	MP1B	Z	-43.375	.79
9	MP1B	Mx	.019	.79
10	MP1B	X	0	2.79
11	MP1B	Z	-43.375	2.79
12	MP1B	Mx	.019	2.79
13	MP1C	X	0	.79
14	MP1C	Z	-43.375	.79
15	MP1C	Mx	-.019	.79
16	MP1C	X	0	2.79
17	MP1C	Z	-43.375	2.79
18	MP1C	Mx	-.019	2.79
19	MP4A	X	0	2.25
20	MP4A	Z	-98.971	2.25
21	MP4A	Mx	0	2.25
22	MP4A	X	0	4.25
23	MP4A	Z	-98.971	4.25
24	MP4A	Mx	0	4.25
25	MP4B	X	0	2
26	MP4B	Z	-73.623	2
27	MP4B	Mx	.032	2
28	MP4B	X	0	4
29	MP4B	Z	-73.623	4
30	MP4B	Mx	.032	4
31	MP4C	X	0	2
32	MP4C	Z	-73.623	2
33	MP4C	Mx	-.032	2
34	MP4C	X	0	4
35	MP4C	Z	-73.623	4
36	MP4C	Mx	-.032	4
37	MP2A	X	0	1.75
38	MP2A	Z	-137.168	1.75
39	MP2A	Mx	-.08	1.75
40	MP2A	X	0	4.75
41	MP2A	Z	-137.168	4.75
42	MP2A	Mx	-.08	4.75
43	MP2B	X	0	1.75
44	MP2B	Z	-102.303	1.75
45	MP2B	Mx	.074	1.75
46	MP2B	X	0	4.75
47	MP2B	Z	-102.303	4.75
48	MP2B	Mx	.074	4.75
49	MP2C	X	0	1.75
50	MP2C	Z	-102.303	1.75
51	MP2C	Mx	-.014	1.75
52	MP2C	X	0	4.75
53	MP2C	Z	-102.303	4.75
54	MP2C	Mx	-.014	4.75
55	MP2A	X	0	1.75
56	MP2A	Z	-137.168	1.75
57	MP2A	Mx	.08	1.75

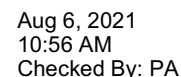




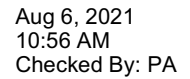
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
6	MP1A	Mx	-.017	2.79
7	MP1B	X	15.618	.79
8	MP1B	Z	-27.052	.79
9	MP1B	Mx	.016	.79
10	MP1B	X	15.618	2.79
11	MP1B	Z	-27.052	2.79
12	MP1B	Mx	.016	2.79
13	MP1C	X	33.825	.79
14	MP1C	Z	-58.587	.79
15	MP1C	Mx	-.017	.79
16	MP1C	X	33.825	2.79
17	MP1C	Z	-58.587	2.79
18	MP1C	Mx	-.017	2.79
19	MP4A	X	45.261	2.25
20	MP4A	Z	-78.394	2.25
21	MP4A	Mx	-.023	2.25
22	MP4A	X	45.261	4.25
23	MP4A	Z	-78.394	4.25
24	MP4A	Mx	-.023	4.25
25	MP4B	X	32.587	2
26	MP4B	Z	-56.442	2
27	MP4B	Mx	.033	2
28	MP4B	X	32.587	4
29	MP4B	Z	-56.442	4
30	MP4B	Mx	.033	4
31	MP4C	X	45.261	2
32	MP4C	Z	-78.394	2
33	MP4C	Mx	-.023	2
34	MP4C	X	45.261	4
35	MP4C	Z	-78.394	4
36	MP4C	Mx	-.023	4
37	MP2A	X	62.773	1.75
38	MP2A	Z	-108.726	1.75
39	MP2A	Mx	-.095	1.75
40	MP2A	X	62.773	4.75
41	MP2A	Z	-108.726	4.75
42	MP2A	Mx	-.095	4.75
43	MP2B	X	45.341	1.75
44	MP2B	Z	-78.532	1.75
45	MP2B	Mx	.045	1.75
46	MP2B	X	45.341	4.75
47	MP2B	Z	-78.532	4.75
48	MP2B	Mx	.045	4.75
49	MP2C	X	62.773	1.75
50	MP2C	Z	-108.726	1.75
51	MP2C	Mx	.032	1.75
52	MP2C	X	62.773	4.75
53	MP2C	Z	-108.726	4.75
54	MP2C	Mx	.032	4.75
55	MP2A	X	62.773	1.75
56	MP2A	Z	-108.726	1.75
57	MP2A	Mx	.032	1.75
58	MP2A	X	62.773	4.75
59	MP2A	Z	-108.726	4.75
60	MP2A	Mx	.032	4.75
61	MP2B	X	45.341	1.75
62	MP2B	Z	-78.532	1.75

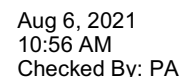
Page 19

Page 21

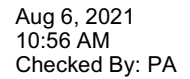


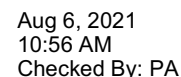
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
16	MP1C	X	67.65	2.79
17	MP1C	Z	0	2.79
18	MP1C	Mx	.017	2.79
19	MP4A	X	65.174	2.25
20	MP4A	Z	0	2.25
21	MP4A	Mx	-.033	2.25
22	MP4A	X	65.174	4.25
23	MP4A	Z	0	4.25
24	MP4A	Mx	-.033	4.25
25	MP4B	X	90.522	2
26	MP4B	Z	0	2
27	MP4B	Mx	.023	2
28	MP4B	X	90.522	4
29	MP4B	Z	0	4
30	MP4B	Mx	.023	4
31	MP4C	X	90.522	2
32	MP4C	Z	0	2
33	MP4C	Mx	.023	2
34	MP4C	X	90.522	4
35	MP4C	Z	0	4
36	MP4C	Mx	.023	4
37	MP2A	X	90.681	1.75
38	MP2A	Z	0	1.75
39	MP2A	Mx	-.045	1.75
40	MP2A	X	90.681	4.75
41	MP2A	Z	0	4.75
42	MP2A	Mx	-.045	4.75
43	MP2B	X	125.546	1.75
44	MP2B	Z	0	1.75
45	MP2B	Mx	-.032	1.75
46	MP2B	X	125.546	4.75
47	MP2B	Z	0	4.75
48	MP2B	Mx	-.032	4.75
49	MP2C	X	125.546	1.75
50	MP2C	Z	0	1.75
51	MP2C	Mx	.095	1.75
52	MP2C	X	125.546	4.75
53	MP2C	Z	0	4.75
54	MP2C	Mx	.095	4.75
55	MP2A	X	90.681	1.75
56	MP2A	Z	0	1.75
57	MP2A	Mx	-.045	1.75
58	MP2A	X	90.681	4.75
59	MP2A	Z	0	4.75
60	MP2A	Mx	-.045	4.75
61	MP2B	X	125.546	1.75
62	MP2B	Z	0	1.75
63	MP2B	Mx	.095	1.75
64	MP2B	X	125.546	4.75
65	MP2B	Z	0	4.75
66	MP2B	Mx	.095	4.75
67	MP2C	X	125.546	1.75
68	MP2C	Z	0	1.75
69	MP2C	Mx	-.032	1.75
70	MP2C	X	125.546	4.75
71	MP2C	Z	0	4.75
72	MP2C	Mx	-.032	4.75



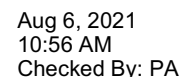


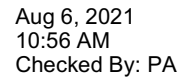
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
21	MP4A	Mx	-.032	2.25
22	MP4A	X	63.76	4.25
23	MP4A	Z	36.812	4.25
24	MP4A	Mx	-.032	4.25
25	MP4B	X	85.712	2
26	MP4B	Z	49.486	2
27	MP4B	Mx	0	2
28	MP4B	X	85.712	4
29	MP4B	Z	49.486	4
30	MP4B	Mx	0	4
31	MP4C	X	63.76	2
32	MP4C	Z	36.812	2
33	MP4C	Mx	.032	2
34	MP4C	X	63.76	4
35	MP4C	Z	36.812	4
36	MP4C	Mx	.032	4
37	MP2A	X	88.597	1.75
38	MP2A	Z	51.151	1.75
39	MP2A	Mx	-.014	1.75
40	MP2A	X	88.597	4.75
41	MP2A	Z	51.151	4.75
42	MP2A	Mx	-.014	4.75
43	MP2B	X	118.791	1.75
44	MP2B	Z	68.584	1.75
45	MP2B	Mx	-.08	1.75
46	MP2B	X	118.791	4.75
47	MP2B	Z	68.584	4.75
48	MP2B	Mx	-.08	4.75
49	MP2C	X	88.597	1.75
50	MP2C	Z	51.151	1.75
51	MP2C	Mx	.074	1.75
52	MP2C	X	88.597	4.75
53	MP2C	Z	51.151	4.75
54	MP2C	Mx	.074	4.75
55	MP2A	X	88.597	1.75
56	MP2A	Z	51.151	1.75
57	MP2A	Mx	-.074	1.75
58	MP2A	X	88.597	4.75
59	MP2A	Z	51.151	4.75
60	MP2A	Mx	-.074	4.75
61	MP2B	X	118.791	1.75
62	MP2B	Z	68.584	1.75
63	MP2B	Mx	.08	1.75
64	MP2B	X	118.791	4.75
65	MP2B	Z	68.584	4.75
66	MP2B	Mx	.08	4.75
67	MP2C	X	88.597	1.75
68	MP2C	Z	51.151	1.75
69	MP2C	Mx	.014	1.75
70	MP2C	X	88.597	4.75
71	MP2C	Z	51.151	4.75
72	MP2C	Mx	.014	4.75
73	MP1A	X	27.891	5.25
74	MP1A	Z	16.103	5.25
75	MP1A	Mx	-.014	5.25
76	MP1B	X	44.988	5.25
77	MP1B	Z	25.974	5.25



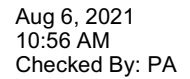


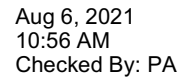
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
26	MP4B	Z	78.394	2
27	MP4B	Mx	-.023	2
28	MP4B	X	45.261	4
29	MP4B	Z	78.394	4
30	MP4B	Mx	-.023	4
31	MP4C	X	32.587	2
32	MP4C	Z	56.442	2
33	MP4C	Mx	.033	2
34	MP4C	X	32.587	4
35	MP4C	Z	56.442	4
36	MP4C	Mx	.033	4
37	MP2A	X	62.773	1.75
38	MP2A	Z	108.726	1.75
39	MP2A	Mx	.032	1.75
40	MP2A	X	62.773	4.75
41	MP2A	Z	108.726	4.75
42	MP2A	Mx	.032	4.75
43	MP2B	X	62.773	1.75
44	MP2B	Z	108.726	1.75
45	MP2B	Mx	-.095	1.75
46	MP2B	X	62.773	4.75
47	MP2B	Z	108.726	4.75
48	MP2B	Mx	-.095	4.75
49	MP2C	X	45.341	1.75
50	MP2C	Z	78.532	1.75
51	MP2C	Mx	.045	1.75
52	MP2C	X	45.341	4.75
53	MP2C	Z	78.532	4.75
54	MP2C	Mx	.045	4.75
55	MP2A	X	62.773	1.75
56	MP2A	Z	108.726	1.75
57	MP2A	Mx	-.095	1.75
58	MP2A	X	62.773	4.75
59	MP2A	Z	108.726	4.75
60	MP2A	Mx	-.095	4.75
61	MP2B	X	62.773	1.75
62	MP2B	Z	108.726	1.75
63	MP2B	Mx	.032	1.75
64	MP2B	X	62.773	4.75
65	MP2B	Z	108.726	4.75
66	MP2B	Mx	.032	4.75
67	MP2C	X	45.341	1.75
68	MP2C	Z	78.532	1.75
69	MP2C	Mx	.045	1.75
70	MP2C	X	45.341	4.75
71	MP2C	Z	78.532	4.75
72	MP2C	Mx	.045	4.75
73	MP1A	X	22.683	5.25
74	MP1A	Z	39.289	5.25
75	MP1A	Mx	-.011	5.25
76	MP1B	X	22.683	5.25
77	MP1B	Z	39.289	5.25
78	MP1B	Mx	-.011	5.25
79	MP1C	X	12.813	5.25
80	MP1C	Z	22.192	5.25
81	MP1C	Mx	.013	5.25
82	MP2A	X	29.114	1.75



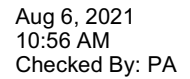


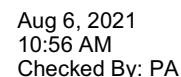
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
31	MP4C	X	0	2
32	MP4C	Z	73.623	2
33	MP4C	Mx	.032	2
34	MP4C	X	0	4
35	MP4C	Z	73.623	4
36	MP4C	Mx	.032	4
37	MP2A	X	0	1.75
38	MP2A	Z	137.168	1.75
39	MP2A	Mx	.08	1.75
40	MP2A	X	0	4.75
41	MP2A	Z	137.168	4.75
42	MP2A	Mx	.08	4.75
43	MP2B	X	0	1.75
44	MP2B	Z	102.303	1.75
45	MP2B	Mx	-.074	1.75
46	MP2B	X	0	4.75
47	MP2B	Z	102.303	4.75
48	MP2B	Mx	-.074	4.75
49	MP2C	X	0	1.75
50	MP2C	Z	102.303	1.75
51	MP2C	Mx	.014	1.75
52	MP2C	X	0	4.75
53	MP2C	Z	102.303	4.75
54	MP2C	Mx	.014	4.75
55	MP2A	X	0	1.75
56	MP2A	Z	137.168	1.75
57	MP2A	Mx	-.08	1.75
58	MP2A	X	0	4.75
59	MP2A	Z	137.168	4.75
60	MP2A	Mx	-.08	4.75
61	MP2B	X	0	1.75
62	MP2B	Z	102.303	1.75
63	MP2B	Mx	-.014	1.75
64	MP2B	X	0	4.75
65	MP2B	Z	102.303	4.75
66	MP2B	Mx	-.014	4.75
67	MP2C	X	0	1.75
68	MP2C	Z	102.303	1.75
69	MP2C	Mx	.074	1.75
70	MP2C	X	0	4.75
71	MP2C	Z	102.303	4.75
72	MP2C	Mx	.074	4.75
73	MP1A	X	0	5.25
74	MP1A	Z	51.947	5.25
75	MP1A	Mx	0	5.25
76	MP1B	X	0	5.25
77	MP1B	Z	32.206	5.25
78	MP1B	Mx	-.014	5.25
79	MP1C	X	0	5.25
80	MP1C	Z	32.206	5.25
81	MP1C	Mx	.014	5.25
82	MP2A	X	0	1.75
83	MP2A	Z	63.491	1.75
84	MP2A	Mx	0	1.75
85	MP2B	X	0	1.75
86	MP2B	Z	47.703	1.75
87	MP2B	Mx	.021	1.75



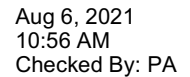


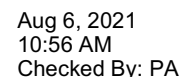
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
36	MP4C	Mx	.023	4
37	MP2A	X	-62.773	1.75
38	MP2A	Z	108.726	1.75
39	MP2A	Mx	.095	1.75
40	MP2A	X	-62.773	4.75
41	MP2A	Z	108.726	4.75
42	MP2A	Mx	.095	4.75
43	MP2B	X	-45.341	1.75
44	MP2B	Z	78.532	1.75
45	MP2B	Mx	-.045	1.75
46	MP2B	X	-45.341	4.75
47	MP2B	Z	78.532	4.75
48	MP2B	Mx	-.045	4.75
49	MP2C	X	-62.773	1.75
50	MP2C	Z	108.726	1.75
51	MP2C	Mx	-.032	1.75
52	MP2C	X	-62.773	4.75
53	MP2C	Z	108.726	4.75
54	MP2C	Mx	-.032	4.75
55	MP2A	X	-62.773	1.75
56	MP2A	Z	108.726	1.75
57	MP2A	Mx	-.032	1.75
58	MP2A	X	-62.773	4.75
59	MP2A	Z	108.726	4.75
60	MP2A	Mx	-.032	4.75
61	MP2B	X	-45.341	1.75
62	MP2B	Z	78.532	1.75
63	MP2B	Mx	-.045	1.75
64	MP2B	X	-45.341	4.75
65	MP2B	Z	78.532	4.75
66	MP2B	Mx	-.045	4.75
67	MP2C	X	-62.773	1.75
68	MP2C	Z	108.726	1.75
69	MP2C	Mx	.095	1.75
70	MP2C	X	-62.773	4.75
71	MP2C	Z	108.726	4.75
72	MP2C	Mx	.095	4.75
73	MP1A	X	-22.683	5.25
74	MP1A	Z	39.289	5.25
75	MP1A	Mx	.011	5.25
76	MP1B	X	-12.813	5.25
77	MP1B	Z	22.192	5.25
78	MP1B	Mx	-.013	5.25
79	MP1C	X	-22.683	5.25
80	MP1C	Z	39.289	5.25
81	MP1C	Mx	.011	5.25
82	MP2A	X	-29.114	1.75
83	MP2A	Z	50.427	1.75
84	MP2A	Mx	-.015	1.75
85	MP2B	X	-21.22	1.75
86	MP2B	Z	36.755	1.75
87	MP2B	Mx	.021	1.75
88	MP2C	X	-29.114	1.75
89	MP2C	Z	50.427	1.75
90	MP2C	Mx	-.015	1.75
91	MP3A	X	-28.106	1.75
92	MP3A	Z	48.681	1.75



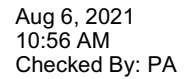


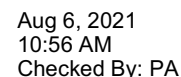
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
41	MP2A	Z	51.151	4.75
42	MP2A	Mx	.074	4.75
43	MP2B	X	-88.597	1.75
44	MP2B	Z	51.151	1.75
45	MP2B	Mx	-.014	1.75
46	MP2B	X	-88.597	4.75
47	MP2B	Z	51.151	4.75
48	MP2B	Mx	-.014	4.75
49	MP2C	X	-118.791	1.75
50	MP2C	Z	68.584	1.75
51	MP2C	Mx	-.08	1.75
52	MP2C	X	-118.791	4.75
53	MP2C	Z	68.584	4.75
54	MP2C	Mx	-.08	4.75
55	MP2A	X	-88.597	1.75
56	MP2A	Z	51.151	1.75
57	MP2A	Mx	.014	1.75
58	MP2A	X	-88.597	4.75
59	MP2A	Z	51.151	4.75
60	MP2A	Mx	.014	4.75
61	MP2B	X	-88.597	1.75
62	MP2B	Z	51.151	1.75
63	MP2B	Mx	-.074	1.75
64	MP2B	X	-88.597	4.75
65	MP2B	Z	51.151	4.75
66	MP2B	Mx	-.074	4.75
67	MP2C	X	-118.791	1.75
68	MP2C	Z	68.584	1.75
69	MP2C	Mx	.08	1.75
70	MP2C	X	-118.791	4.75
71	MP2C	Z	68.584	4.75
72	MP2C	Mx	.08	4.75
73	MP1A	X	-27.891	5.25
74	MP1A	Z	16.103	5.25
75	MP1A	Mx	.014	5.25
76	MP1B	X	-27.891	5.25
77	MP1B	Z	16.103	5.25
78	MP1B	Mx	-.014	5.25
79	MP1C	X	-44.988	5.25
80	MP1C	Z	25.974	5.25
81	MP1C	Mx	0	5.25
82	MP2A	X	-41.312	1.75
83	MP2A	Z	23.852	1.75
84	MP2A	Mx	-.021	1.75
85	MP2B	X	-41.312	1.75
86	MP2B	Z	23.852	1.75
87	MP2B	Mx	.021	1.75
88	MP2C	X	-54.985	1.75
89	MP2C	Z	31.746	1.75
90	MP2C	Mx	0	1.75
91	MP3A	X	-36.075	1.75
92	MP3A	Z	20.828	1.75
93	MP3A	Mx	-.018	1.75
94	MP3B	X	-36.075	1.75
95	MP3B	Z	20.828	1.75
96	MP3B	Mx	.018	1.75
97	MP3C	X	-54.985	1.75

Page 33

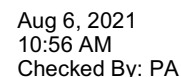


	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
46	MP2B	X	-125.546	4.75
47	MP2B	Z	0	4.75
48	MP2B	Mx	.032	4.75
49	MP2C	X	-125.546	1.75
50	MP2C	Z	0	1.75
51	MP2C	Mx	-.095	1.75
52	MP2C	X	-125.546	4.75
53	MP2C	Z	0	4.75
54	MP2C	Mx	-.095	4.75
55	MP2A	X	-90.681	1.75
56	MP2A	Z	0	1.75
57	MP2A	Mx	.045	1.75
58	MP2A	X	-90.681	4.75
59	MP2A	Z	0	4.75
60	MP2A	Mx	.045	4.75
61	MP2B	X	-125.546	1.75
62	MP2B	Z	0	1.75
63	MP2B	Mx	-.095	1.75
64	MP2B	X	-125.546	4.75
65	MP2B	Z	0	4.75
66	MP2B	Mx	-.095	4.75
67	MP2C	X	-125.546	1.75
68	MP2C	Z	0	1.75
69	MP2C	Mx	.032	1.75
70	MP2C	X	-125.546	4.75
71	MP2C	Z	0	4.75
72	MP2C	Mx	.032	4.75
73	MP1A	X	-25.626	5.25
74	MP1A	Z	0	5.25
75	MP1A	Mx	.013	5.25
76	MP1B	X	-45.367	5.25
77	MP1B	Z	0	5.25
78	MP1B	Mx	-.011	5.25
79	MP1C	X	-45.367	5.25
80	MP1C	Z	0	5.25
81	MP1C	Mx	-.011	5.25
82	MP2A	X	-42.441	1.75
83	MP2A	Z	0	1.75
84	MP2A	Mx	-.021	1.75
85	MP2B	X	-58.228	1.75
86	MP2B	Z	0	1.75
87	MP2B	Mx	.015	1.75
88	MP2C	X	-58.228	1.75
89	MP2C	Z	0	1.75
90	MP2C	Mx	.015	1.75
91	MP3A	X	-34.377	1.75
92	MP3A	Z	0	1.75
93	MP3A	Mx	-.017	1.75
94	MP3B	X	-56.213	1.75
95	MP3B	Z	0	1.75
96	MP3B	Mx	.014	1.75
97	MP3C	X	-56.213	1.75
98	MP3C	Z	0	1.75
99	MP3C	Mx	.014	1.75
100	M121	X	-124.345	1
101	M121	Z	0	1
102	M121	Mx	0	1

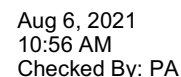
Page 35

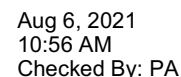


	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
51	MP2C	Mx	-.074	1.75
52	MP2C	X	-88.597	4.75
53	MP2C	Z	-51.151	4.75
54	MP2C	Mx	-.074	4.75
55	MP2A	X	-88.597	1.75
56	MP2A	Z	-51.151	1.75
57	MP2A	Mx	.074	1.75
58	MP2A	X	-88.597	4.75
59	MP2A	Z	-51.151	4.75
60	MP2A	Mx	.074	4.75
61	MP2B	X	-118.791	1.75
62	MP2B	Z	-68.584	1.75
63	MP2B	Mx	-.08	1.75
64	MP2B	X	-118.791	4.75
65	MP2B	Z	-68.584	4.75
66	MP2B	Mx	-.08	4.75
67	MP2C	X	-88.597	1.75
68	MP2C	Z	-51.151	1.75
69	MP2C	Mx	-.014	1.75
70	MP2C	X	-88.597	4.75
71	MP2C	Z	-51.151	4.75
72	MP2C	Mx	-.014	4.75
73	MP1A	X	-27.891	5.25
74	MP1A	Z	-16.103	5.25
75	MP1A	Mx	.014	5.25
76	MP1B	X	-44.988	5.25
77	MP1B	Z	-25.974	5.25
78	MP1B	Mx	0	5.25
79	MP1C	X	-27.891	5.25
80	MP1C	Z	-16.103	5.25
81	MP1C	Mx	-.014	5.25
82	MP2A	X	-41.312	1.75
83	MP2A	Z	-23.852	1.75
84	MP2A	Mx	-.021	1.75
85	MP2B	X	-54.985	1.75
86	MP2B	Z	-31.746	1.75
87	MP2B	Mx	0	1.75
88	MP2C	X	-41.312	1.75
89	MP2C	Z	-23.852	1.75
90	MP2C	Mx	.021	1.75
91	MP3A	X	-36.075	1.75
92	MP3A	Z	-20.828	1.75
93	MP3A	Mx	-.018	1.75
94	MP3B	X	-54.985	1.75
95	MP3B	Z	-31.746	1.75
96	MP3B	Mx	0	1.75
97	MP3C	X	-36.075	1.75
98	MP3C	Z	-20.828	1.75
99	MP3C	Mx	.018	1.75
100	M121	X	-118.526	1
101	M121	Z	-68.431	1
102	M121	Mx	0	1
103	MP1C	X	-15.224	1
104	MP1C	Z	-8.79	1
105	MP1C	Mx	-.007	1

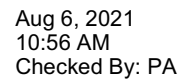


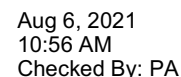
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	-33.825	.79
2	MP1A	Z	-58.587	.79
3	MP1A	Mx	.017	.79
4	MP1A	X	-33.825	2.79
5	MP1A	Z	-58.587	2.79
6	MP1A	Mx	.017	2.79
7	MP1B	X	-33.825	.79
8	MP1B	Z	-58.587	.79
9	MP1B	Mx	.017	.79
10	MP1B	X	-33.825	2.79
11	MP1B	Z	-58.587	2.79
12	MP1B	Mx	.017	2.79
13	MP1C	X	-15.618	.79
14	MP1C	Z	-27.052	.79
15	MP1C	Mx	-.016	.79
16	MP1C	X	-15.618	2.79
17	MP1C	Z	-27.052	2.79
18	MP1C	Mx	-.016	2.79
19	MP4A	X	-45.261	2.25
20	MP4A	Z	-78.394	2.25
21	MP4A	Mx	.023	2.25
22	MP4A	X	-45.261	4.25
23	MP4A	Z	-78.394	4.25
24	MP4A	Mx	.023	4.25
25	MP4B	X	-45.261	2
26	MP4B	Z	-78.394	2
27	MP4B	Mx	.023	2
28	MP4B	X	-45.261	4
29	MP4B	Z	-78.394	4
30	MP4B	Mx	.023	4
31	MP4C	X	-32.587	2
32	MP4C	Z	-56.442	2
33	MP4C	Mx	-.033	2
34	MP4C	X	-32.587	4
35	MP4C	Z	-56.442	4
36	MP4C	Mx	-.033	4
37	MP2A	X	-62.773	1.75
38	MP2A	Z	-108.726	1.75
39	MP2A	Mx	-.032	1.75
40	MP2A	X	-62.773	4.75
41	MP2A	Z	-108.726	4.75
42	MP2A	Mx	-.032	4.75
43	MP2B	X	-62.773	1.75
44	MP2B	Z	-108.726	1.75
45	MP2B	Mx	.095	1.75
46	MP2B	X	-62.773	4.75
47	MP2B	Z	-108.726	4.75
48	MP2B	Mx	.095	4.75
49	MP2C	X	-45.341	1.75
50	MP2C	Z	-78.532	1.75
51	MP2C	Mx	-.045	1.75
52	MP2C	X	-45.341	4.75
53	MP2C	Z	-78.532	4.75
54	MP2C	Mx	-.045	4.75
55	MP2A	X	-62.773	1.75
56	MP2A	Z	-108.726	1.75
57	MP2A	Mx	.095	1.75



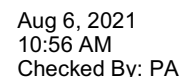


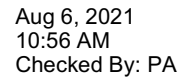
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
6	MP1A	Mx	0	2.79
7	MP1B	X	0	.79
8	MP1B	Z	-10.04	.79
9	MP1B	Mx	.004	.79
10	MP1B	X	0	2.79
11	MP1B	Z	-10.04	2.79
12	MP1B	Mx	.004	2.79
13	MP1C	X	0	.79
14	MP1C	Z	-10.04	.79
15	MP1C	Mx	-.004	.79
16	MP1C	X	0	2.79
17	MP1C	Z	-10.04	2.79
18	MP1C	Mx	-.004	2.79
19	MP4A	X	0	2.25
20	MP4A	Z	-21.112	2.25
21	MP4A	Mx	0	2.25
22	MP4A	X	0	4.25
23	MP4A	Z	-21.112	4.25
24	MP4A	Mx	0	4.25
25	MP4B	X	0	2
26	MP4B	Z	-16.285	2
27	MP4B	Mx	.007	2
28	MP4B	X	0	4
29	MP4B	Z	-16.285	4
30	MP4B	Mx	.007	4
31	MP4C	X	0	2
32	MP4C	Z	-16.285	2
33	MP4C	Mx	-.007	2
34	MP4C	X	0	4
35	MP4C	Z	-16.285	4
36	MP4C	Mx	-.007	4
37	MP2A	X	0	1.75
38	MP2A	Z	-28.592	1.75
39	MP2A	Mx	-.017	1.75
40	MP2A	X	0	4.75
41	MP2A	Z	-28.592	4.75
42	MP2A	Mx	-.017	4.75
43	MP2B	X	0	1.75
44	MP2B	Z	-22.237	1.75
45	MP2B	Mx	.016	1.75
46	MP2B	X	0	4.75
47	MP2B	Z	-22.237	4.75
48	MP2B	Mx	.016	4.75
49	MP2C	X	0	1.75
50	MP2C	Z	-22.237	1.75
51	MP2C	Mx	-.003	1.75
52	MP2C	X	0	4.75
53	MP2C	Z	-22.237	4.75
54	MP2C	Mx	-.003	4.75
55	MP2A	X	0	1.75
56	MP2A	Z	-28.592	1.75
57	MP2A	Mx	.017	1.75
58	MP2A	X	0	4.75
59	MP2A	Z	-28.592	4.75
60	MP2A	Mx	.017	4.75
61	MP2B	X	0	1.75
62	MP2B	Z	-22.237	1.75

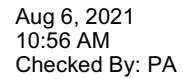
Page 40



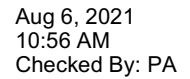
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
11	MP1B	Z	-6.628	2.79
12	MP1B	Mx	.004	2.79
13	MP1C	X	7.407	.79
14	MP1C	Z	-12.829	.79
15	MP1C	Mx	-.004	.79
16	MP1C	X	7.407	2.79
17	MP1C	Z	-12.829	2.79
18	MP1C	Mx	-.004	2.79
19	MP4A	X	9.751	2.25
20	MP4A	Z	-16.89	2.25
21	MP4A	Mx	-.005	2.25
22	MP4A	X	9.751	4.25
23	MP4A	Z	-16.89	4.25
24	MP4A	Mx	-.005	4.25
25	MP4B	X	7.338	2
26	MP4B	Z	-12.71	2
27	MP4B	Mx	.007	2
28	MP4B	X	7.338	4
29	MP4B	Z	-12.71	4
30	MP4B	Mx	.007	4
31	MP4C	X	9.751	2
32	MP4C	Z	-16.89	2
33	MP4C	Mx	-.005	2
34	MP4C	X	9.751	4
35	MP4C	Z	-16.89	4
36	MP4C	Mx	-.005	4
37	MP2A	X	13.237	1.75
38	MP2A	Z	-22.927	1.75
39	MP2A	Mx	-.02	1.75
40	MP2A	X	13.237	4.75
41	MP2A	Z	-22.927	4.75
42	MP2A	Mx	-.02	4.75
43	MP2B	X	10.06	1.75
44	MP2B	Z	-17.424	1.75
45	MP2B	Mx	.01	1.75
46	MP2B	X	10.06	4.75
47	MP2B	Z	-17.424	4.75
48	MP2B	Mx	.01	4.75
49	MP2C	X	13.237	1.75
50	MP2C	Z	-22.927	1.75
51	MP2C	Mx	.007	1.75
52	MP2C	X	13.237	4.75
53	MP2C	Z	-22.927	4.75
54	MP2C	Mx	.007	4.75
55	MP2A	X	13.237	1.75
56	MP2A	Z	-22.927	1.75
57	MP2A	Mx	.007	1.75
58	MP2A	X	13.237	4.75
59	MP2A	Z	-22.927	4.75
60	MP2A	Mx	.007	4.75
61	MP2B	X	10.06	1.75
62	MP2B	Z	-17.424	1.75
63	MP2B	Mx	.01	1.75
64	MP2B	X	10.06	4.75
65	MP2B	Z	-17.424	4.75
66	MP2B	Mx	.01	4.75
67	MP2C	X	13.237	1.75

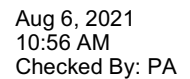


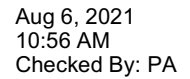


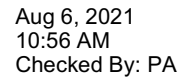


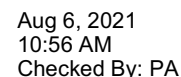
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
21	MP4A	Mx	-.007	2.25
22	MP4A	X	14.676	4.25
23	MP4A	Z	0	4.25
24	MP4A	Mx	-.007	4.25
25	MP4B	X	19.503	2
26	MP4B	Z	0	2
27	MP4B	Mx	.005	2
28	MP4B	X	19.503	4
29	MP4B	Z	0	4
30	MP4B	Mx	.005	4
31	MP4C	X	19.503	2
32	MP4C	Z	0	2
33	MP4C	Mx	.005	2
34	MP4C	X	19.503	4
35	MP4C	Z	0	4
36	MP4C	Mx	.005	4
37	MP2A	X	20.119	1.75
38	MP2A	Z	0	1.75
39	MP2A	Mx	-.01	1.75
40	MP2A	X	20.119	4.75
41	MP2A	Z	0	4.75
42	MP2A	Mx	-.01	4.75
43	MP2B	X	26.474	1.75
44	MP2B	Z	0	1.75
45	MP2B	Mx	-.007	1.75
46	MP2B	X	26.474	4.75
47	MP2B	Z	0	4.75
48	MP2B	Mx	-.007	4.75
49	MP2C	X	26.474	1.75
50	MP2C	Z	0	1.75
51	MP2C	Mx	.02	1.75
52	MP2C	X	26.474	4.75
53	MP2C	Z	0	4.75
54	MP2C	Mx	.02	4.75
55	MP2A	X	20.119	1.75
56	MP2A	Z	0	1.75
57	MP2A	Mx	-.01	1.75
58	MP2A	X	20.119	4.75
59	MP2A	Z	0	4.75
60	MP2A	Mx	-.01	4.75
61	MP2B	X	26.474	1.75
62	MP2B	Z	0	1.75
63	MP2B	Mx	.02	1.75
64	MP2B	X	26.474	4.75
65	MP2B	Z	0	4.75
66	MP2B	Mx	.02	4.75
67	MP2C	X	26.474	1.75
68	MP2C	Z	0	1.75
69	MP2C	Mx	-.007	1.75
70	MP2C	X	26.474	4.75
71	MP2C	Z	0	4.75
72	MP2C	Mx	-.007	4.75
73	MP1A	X	7.15	5.25
74	MP1A	Z	0	5.25
75	MP1A	Mx	-.004	5.25
76	MP1B	X	11.252	5.25
77	MP1B	Z	0	5.25



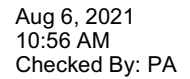


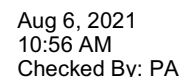






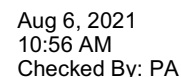
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
41	MP2A	Z	22.927	4.75
42	MP2A	Mx	.02	4.75
43	MP2B	X	-10.06	1.75
44	MP2B	Z	17.424	1.75
45	MP2B	Mx	-.01	1.75
46	MP2B	X	-10.06	4.75
47	MP2B	Z	17.424	4.75
48	MP2B	Mx	-.01	4.75
49	MP2C	X	-13.237	1.75
50	MP2C	Z	22.927	1.75
51	MP2C	Mx	-.007	1.75
52	MP2C	X	-13.237	4.75
53	MP2C	Z	22.927	4.75
54	MP2C	Mx	-.007	4.75
55	MP2A	X	-13.237	1.75
56	MP2A	Z	22.927	1.75
57	MP2A	Mx	-.007	1.75
58	MP2A	X	-13.237	4.75
59	MP2A	Z	22.927	4.75
60	MP2A	Mx	-.007	4.75
61	MP2B	X	-10.06	1.75
62	MP2B	Z	17.424	1.75
63	MP2B	Mx	-.01	1.75
64	MP2B	X	-10.06	4.75
65	MP2B	Z	17.424	4.75
66	MP2B	Mx	-.01	4.75
67	MP2C	X	-13.237	1.75
68	MP2C	Z	22.927	1.75
69	MP2C	Mx	.02	1.75
70	MP2C	X	-13.237	4.75
71	MP2C	Z	22.927	4.75
72	MP2C	Mx	.02	4.75
73	MP1A	X	-5.626	5.25
74	MP1A	Z	9.745	5.25
75	MP1A	Mx	.003	5.25
76	MP1B	X	-3.575	5.25
77	MP1B	Z	6.192	5.25
78	MP1B	Mx	-.004	5.25
79	MP1C	X	-5.626	5.25
80	MP1C	Z	9.745	5.25
81	MP1C	Mx	.003	5.25
82	MP2A	X	-6.918	1.75
83	MP2A	Z	11.982	1.75
84	MP2A	Mx	-.003	1.75
85	MP2B	X	-5.294	1.75
86	MP2B	Z	9.169	1.75
87	MP2B	Mx	.005	1.75
88	MP2C	X	-6.918	1.75
89	MP2C	Z	11.982	1.75
90	MP2C	Mx	-.003	1.75
91	MP3A	X	-6.712	1.75
92	MP3A	Z	11.625	1.75
93	MP3A	Mx	-.003	1.75
94	MP3B	X	-4.471	1.75
95	MP3B	Z	7.744	1.75
96	MP3B	Mx	.004	1.75
97	MP3C	X	-6.712	1.75



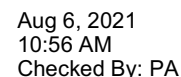


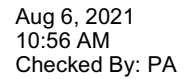
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
103	MP1C	X	-9.505	1
104	MP1C	Z	5.488	1
105	MP1C	Mx	- .002	1

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	-7.653	.79
2	MP1A	Z	0	.79
3	MP1A	Mx	.004	.79
4	MP1A	X	-7.653	2.79
5	MP1A	Z	0	2.79
6	MP1A	Mx	.004	2.79
7	MP1B	X	-14.814	.79
8	MP1B	Z	0	.79
9	MP1B	Mx	-.004	.79
10	MP1B	X	-14.814	2.79
11	MP1B	Z	0	2.79
12	MP1B	Mx	-.004	2.79
13	MP1C	X	-14.814	.79
14	MP1C	Z	0	.79
15	MP1C	Mx	-.004	.79
16	MP1C	X	-14.814	2.79
17	MP1C	Z	0	2.79
18	MP1C	Mx	-.004	2.79
19	MP4A	X	-14.676	2.25
20	MP4A	Z	0	2.25
21	MP4A	Mx	.007	2.25
22	MP4A	X	-14.676	4.25
23	MP4A	Z	0	4.25
24	MP4A	Mx	.007	4.25
25	MP4B	X	-19.503	2
26	MP4B	Z	0	2
27	MP4B	Mx	-.005	2
28	MP4B	X	-19.503	4
29	MP4B	Z	0	4
30	MP4B	Mx	-.005	4
31	MP4C	X	-19.503	2
32	MP4C	Z	0	2
33	MP4C	Mx	-.005	2
34	MP4C	X	-19.503	4
35	MP4C	Z	0	4
36	MP4C	Mx	-.005	4
37	MP2A	X	-20.119	1.75
38	MP2A	Z	0	1.75
39	MP2A	Mx	.01	1.75
40	MP2A	X	-20.119	4.75
41	MP2A	Z	0	4.75
42	MP2A	Mx	.01	4.75
43	MP2B	X	-26.474	1.75
44	MP2B	Z	0	1.75
45	MP2B	Mx	.007	1.75
46	MP2B	X	-26.474	4.75
47	MP2B	Z	0	4.75
48	MP2B	Mx	.007	4.75
49	MP2C	X	-26.474	1.75
50	MP2C	Z	0	1.75

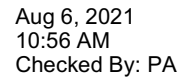


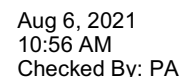
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
51	MP2C	Mx	-.02	1.75
52	MP2C	X	-26.474	4.75
53	MP2C	Z	0	4.75
54	MP2C	Mx	-.02	4.75
55	MP2A	X	-20.119	1.75
56	MP2A	Z	0	1.75
57	MP2A	Mx	.01	1.75
58	MP2A	X	-20.119	4.75
59	MP2A	Z	0	4.75
60	MP2A	Mx	.01	4.75
61	MP2B	X	-26.474	1.75
62	MP2B	Z	0	1.75
63	MP2B	Mx	-.02	1.75
64	MP2B	X	-26.474	4.75
65	MP2B	Z	0	4.75
66	MP2B	Mx	-.02	4.75
67	MP2C	X	-26.474	1.75
68	MP2C	Z	0	1.75
69	MP2C	Mx	.007	1.75
70	MP2C	X	-26.474	4.75
71	MP2C	Z	0	4.75
72	MP2C	Mx	.007	4.75
73	MP1A	X	-7.15	5.25
74	MP1A	Z	0	5.25
75	MP1A	Mx	.004	5.25
76	MP1B	X	-11.252	5.25
77	MP1B	Z	0	5.25
78	MP1B	Mx	-.003	5.25
79	MP1C	X	-11.252	5.25
80	MP1C	Z	0	5.25
81	MP1C	Mx	-.003	5.25
82	MP2A	X	-10.587	1.75
83	MP2A	Z	0	1.75
84	MP2A	Mx	-.005	1.75
85	MP2B	X	-13.835	1.75
86	MP2B	Z	0	1.75
87	MP2B	Mx	.003	1.75
88	MP2C	X	-13.835	1.75
89	MP2C	Z	0	1.75
90	MP2C	Mx	.003	1.75
91	MP3A	X	-8.942	1.75
92	MP3A	Z	0	1.75
93	MP3A	Mx	-.004	1.75
94	MP3B	X	-13.424	1.75
95	MP3B	Z	0	1.75
96	MP3B	Mx	.003	1.75
97	MP3C	X	-13.424	1.75
98	MP3C	Z	0	1.75
99	MP3C	Mx	.003	1.75
100	M121	X	-27.297	1
101	M121	Z	0	1
102	M121	Mx	0	1
103	MP1C	X	-10.976	1
104	MP1C	Z	0	1
105	MP1C	Mx	-.004	1



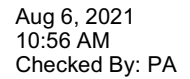


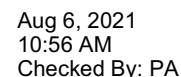
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
6	MP1A	Mx	.004	2.79
7	MP1B	X	-7.407	.79
8	MP1B	Z	-12.829	.79
9	MP1B	Mx	.004	.79
10	MP1B	X	-7.407	2.79
11	MP1B	Z	-12.829	2.79
12	MP1B	Mx	.004	2.79
13	MP1C	X	-3.827	.79
14	MP1C	Z	-6.628	.79
15	MP1C	Mx	-.004	.79
16	MP1C	X	-3.827	2.79
17	MP1C	Z	-6.628	2.79
18	MP1C	Mx	-.004	2.79
19	MP4A	X	-9.751	2.25
20	MP4A	Z	-16.89	2.25
21	MP4A	Mx	.005	2.25
22	MP4A	X	-9.751	4.25
23	MP4A	Z	-16.89	4.25
24	MP4A	Mx	.005	4.25
25	MP4B	X	-9.751	2
26	MP4B	Z	-16.89	2
27	MP4B	Mx	.005	2
28	MP4B	X	-9.751	4
29	MP4B	Z	-16.89	4
30	MP4B	Mx	.005	4
31	MP4C	X	-7.338	2
32	MP4C	Z	-12.71	2
33	MP4C	Mx	-.007	2
34	MP4C	X	-7.338	4
35	MP4C	Z	-12.71	4
36	MP4C	Mx	-.007	4
37	MP2A	X	-13.237	1.75
38	MP2A	Z	-22.927	1.75
39	MP2A	Mx	-.007	1.75
40	MP2A	X	-13.237	4.75
41	MP2A	Z	-22.927	4.75
42	MP2A	Mx	-.007	4.75
43	MP2B	X	-13.237	1.75
44	MP2B	Z	-22.927	1.75
45	MP2B	Mx	.02	1.75
46	MP2B	X	-13.237	4.75
47	MP2B	Z	-22.927	4.75
48	MP2B	Mx	.02	4.75
49	MP2C	X	-10.06	1.75
50	MP2C	Z	-17.424	1.75
51	MP2C	Mx	-.01	1.75
52	MP2C	X	-10.06	4.75
53	MP2C	Z	-17.424	4.75
54	MP2C	Mx	-.01	4.75
55	MP2A	X	-13.237	1.75
56	MP2A	Z	-22.927	1.75
57	MP2A	Mx	.02	1.75
58	MP2A	X	-13.237	4.75
59	MP2A	Z	-22.927	4.75
60	MP2A	Mx	.02	4.75
61	MP2B	X	-13.237	1.75
62	MP2B	Z	-22.927	1.75

Page 61

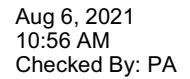


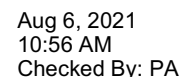
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
11	MP1B	Z	-2.804	2.79
12	MP1B	Mx	.001	2.79
13	MP1C	X	0	.79
14	MP1C	Z	-2.804	.79
15	MP1C	Mx	-.001	.79
16	MP1C	X	0	2.79
17	MP1C	Z	-2.804	2.79
18	MP1C	Mx	-.001	2.79
19	MP4A	X	0	2.25
20	MP4A	Z	-6.397	2.25
21	MP4A	Mx	0	2.25
22	MP4A	X	0	4.25
23	MP4A	Z	-6.397	4.25
24	MP4A	Mx	0	4.25
25	MP4B	X	0	2
26	MP4B	Z	-4.759	2
27	MP4B	Mx	.002	2
28	MP4B	X	0	4
29	MP4B	Z	-4.759	4
30	MP4B	Mx	.002	4
31	MP4C	X	0	2
32	MP4C	Z	-4.759	2
33	MP4C	Mx	-.002	2
34	MP4C	X	0	4
35	MP4C	Z	-4.759	4
36	MP4C	Mx	-.002	4
37	MP2A	X	0	1.75
38	MP2A	Z	-8.866	1.75
39	MP2A	Mx	-.005	1.75
40	MP2A	X	0	4.75
41	MP2A	Z	-8.866	4.75
42	MP2A	Mx	-.005	4.75
43	MP2B	X	0	1.75
44	MP2B	Z	-6.613	1.75
45	MP2B	Mx	.005	1.75
46	MP2B	X	0	4.75
47	MP2B	Z	-6.613	4.75
48	MP2B	Mx	.005	4.75
49	MP2C	X	0	1.75
50	MP2C	Z	-6.613	1.75
51	MP2C	Mx	-.000935	1.75
52	MP2C	X	0	4.75
53	MP2C	Z	-6.613	4.75
54	MP2C	Mx	-.000935	4.75
55	MP2A	X	0	1.75
56	MP2A	Z	-8.866	1.75
57	MP2A	Mx	.005	1.75
58	MP2A	X	0	4.75
59	MP2A	Z	-8.866	4.75
60	MP2A	Mx	.005	4.75
61	MP2B	X	0	1.75
62	MP2B	Z	-6.613	1.75
63	MP2B	Mx	.000935	1.75
64	MP2B	X	0	4.75
65	MP2B	Z	-6.613	4.75
66	MP2B	Mx	.000935	4.75
67	MP2C	X	0	1.75

Page 63

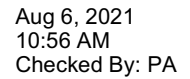


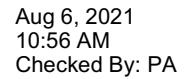
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
16	MP1C	X	2.186	2.79
17	MP1C	Z	-3.787	2.79
18	MP1C	Mx	-.001	2.79
19	MP4A	X	2.926	2.25
20	MP4A	Z	-5.067	2.25
21	MP4A	Mx	-.001	2.25
22	MP4A	X	2.926	4.25
23	MP4A	Z	-5.067	4.25
24	MP4A	Mx	-.001	4.25
25	MP4B	X	2.106	2
26	MP4B	Z	-3.648	2
27	MP4B	Mx	.002	2
28	MP4B	X	2.106	4
29	MP4B	Z	-3.648	4
30	MP4B	Mx	.002	4
31	MP4C	X	2.926	2
32	MP4C	Z	-5.067	2
33	MP4C	Mx	-.001	2
34	MP4C	X	2.926	4
35	MP4C	Z	-5.067	4
36	MP4C	Mx	-.001	4
37	MP2A	X	4.057	1.75
38	MP2A	Z	-7.028	1.75
39	MP2A	Mx	-.006	1.75
40	MP2A	X	4.057	4.75
41	MP2A	Z	-7.028	4.75
42	MP2A	Mx	-.006	4.75
43	MP2B	X	2.931	1.75
44	MP2B	Z	-5.076	1.75
45	MP2B	Mx	.003	1.75
46	MP2B	X	2.931	4.75
47	MP2B	Z	-5.076	4.75
48	MP2B	Mx	.003	4.75
49	MP2C	X	4.057	1.75
50	MP2C	Z	-7.028	1.75
51	MP2C	Mx	.002	1.75
52	MP2C	X	4.057	4.75
53	MP2C	Z	-7.028	4.75
54	MP2C	Mx	.002	4.75
55	MP2A	X	4.057	1.75
56	MP2A	Z	-7.028	1.75
57	MP2A	Mx	.002	1.75
58	MP2A	X	4.057	4.75
59	MP2A	Z	-7.028	4.75
60	MP2A	Mx	.002	4.75
61	MP2B	X	2.931	1.75
62	MP2B	Z	-5.076	1.75
63	MP2B	Mx	.003	1.75
64	MP2B	X	2.931	4.75
65	MP2B	Z	-5.076	4.75
66	MP2B	Mx	.003	4.75
67	MP2C	X	4.057	1.75
68	MP2C	Z	-7.028	1.75
69	MP2C	Mx	-.006	1.75
70	MP2C	X	4.057	4.75
71	MP2C	Z	-7.028	4.75
72	MP2C	Mx	-.006	4.75





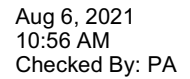
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
21	MP4A	Mx	-.002	2.25
22	MP4A	X	4.121	4.25
23	MP4A	Z	-2.379	4.25
24	MP4A	Mx	-.002	4.25
25	MP4B	X	4.121	2
26	MP4B	Z	-2.379	2
27	MP4B	Mx	.002	2
28	MP4B	X	4.121	4
29	MP4B	Z	-2.379	4
30	MP4B	Mx	.002	4
31	MP4C	X	5.54	2
32	MP4C	Z	-3.199	2
33	MP4C	Mx	0	2
34	MP4C	X	5.54	4
35	MP4C	Z	-3.199	4
36	MP4C	Mx	0	4
37	MP2A	X	5.727	1.75
38	MP2A	Z	-3.306	1.75
39	MP2A	Mx	-.005	1.75
40	MP2A	X	5.727	4.75
41	MP2A	Z	-3.306	4.75
42	MP2A	Mx	-.005	4.75
43	MP2B	X	5.727	1.75
44	MP2B	Z	-3.306	1.75
45	MP2B	Mx	.000934	1.75
46	MP2B	X	5.727	4.75
47	MP2B	Z	-3.306	4.75
48	MP2B	Mx	.000934	4.75
49	MP2C	X	7.678	1.75
50	MP2C	Z	-4.433	1.75
51	MP2C	Mx	.005	1.75
52	MP2C	X	7.678	4.75
53	MP2C	Z	-4.433	4.75
54	MP2C	Mx	.005	4.75
55	MP2A	X	5.727	1.75
56	MP2A	Z	-3.306	1.75
57	MP2A	Mx	-.000935	1.75
58	MP2A	X	5.727	4.75
59	MP2A	Z	-3.306	4.75
60	MP2A	Mx	-.000935	4.75
61	MP2B	X	5.727	1.75
62	MP2B	Z	-3.306	1.75
63	MP2B	Mx	.005	1.75
64	MP2B	X	5.727	4.75
65	MP2B	Z	-3.306	4.75
66	MP2B	Mx	.005	4.75
67	MP2C	X	7.678	1.75
68	MP2C	Z	-4.433	1.75
69	MP2C	Mx	-.005	1.75
70	MP2C	X	7.678	4.75
71	MP2C	Z	-4.433	4.75
72	MP2C	Mx	-.005	4.75
73	MP1A	X	1.803	5.25
74	MP1A	Z	-1.041	5.25
75	MP1A	Mx	-.000902	5.25
76	MP1B	X	1.803	5.25
77	MP1B	Z	-1.041	5.25

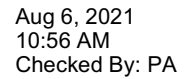




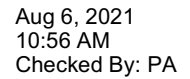
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
83	MP2A	Z	0	1.75
84	MP2A	Mx	.001	1.75
85	MP2B	X	3.764	1.75
86	MP2B	Z	0	1.75
87	MP2B	Mx	-0.000941	1.75
88	MP2C	X	3.764	1.75
89	MP2C	Z	0	1.75
90	MP2C	Mx	-0.000941	1.75
91	MP3A	X	2.222	1.75
92	MP3A	Z	0	1.75
93	MP3A	Mx	.001	1.75
94	MP3B	X	3.633	1.75
95	MP3B	Z	0	1.75
96	MP3B	Mx	-0.000908	1.75
97	MP3C	X	3.633	1.75
98	MP3C	Z	0	1.75
99	MP3C	Mx	-0.000908	1.75
100	M121	X	8.037	1
101	M121	Z	0	1
102	M121	Mx	0	1
103	MP1C	X	1.631	1
104	MP1C	Z	0	1
105	MP1C	Mx	.000521	1

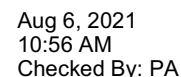
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	2.428	.79
2	MP1A	Z	1.402	.79
3	MP1A	Mx	-.001	.79
4	MP1A	X	2.428	2.79
5	MP1A	Z	1.402	2.79
6	MP1A	Mx	-.001	2.79
7	MP1B	X	4.466	.79
8	MP1B	Z	2.579	.79
9	MP1B	Mx	0	.79
10	MP1B	X	4.466	2.79
11	MP1B	Z	2.579	2.79
12	MP1B	Mx	0	2.79
13	MP1C	X	2.428	.79
14	MP1C	Z	1.402	.79
15	MP1C	Mx	.001	.79
16	MP1C	X	2.428	2.79
17	MP1C	Z	1.402	2.79
18	MP1C	Mx	.001	2.79
19	MP4A	X	4.121	2.25
20	MP4A	Z	2.379	2.25
21	MP4A	Mx	-.002	2.25
22	MP4A	X	4.121	4.25
23	MP4A	Z	2.379	4.25
24	MP4A	Mx	-.002	4.25
25	MP4B	X	5.54	2
26	MP4B	Z	3.199	2
27	MP4B	Mx	0	2
28	MP4B	X	5.54	4
29	MP4B	Z	3.199	4
30	MP4B	Mx	0	4

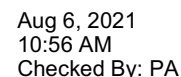




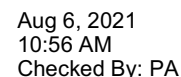
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
36	MP4C	Mx	.002	4
37	MP2A	X	4.057	1.75
38	MP2A	Z	7.028	1.75
39	MP2A	Mx	.002	1.75
40	MP2A	X	4.057	4.75
41	MP2A	Z	7.028	4.75
42	MP2A	Mx	.002	4.75
43	MP2B	X	4.057	1.75
44	MP2B	Z	7.028	1.75
45	MP2B	Mx	-.006	1.75
46	MP2B	X	4.057	4.75
47	MP2B	Z	7.028	4.75
48	MP2B	Mx	-.006	4.75
49	MP2C	X	2.931	1.75
50	MP2C	Z	5.076	1.75
51	MP2C	Mx	.003	1.75
52	MP2C	X	2.931	4.75
53	MP2C	Z	5.076	4.75
54	MP2C	Mx	.003	4.75
55	MP2A	X	4.057	1.75
56	MP2A	Z	7.028	1.75
57	MP2A	Mx	-.006	1.75
58	MP2A	X	4.057	4.75
59	MP2A	Z	7.028	4.75
60	MP2A	Mx	-.006	4.75
61	MP2B	X	4.057	1.75
62	MP2B	Z	7.028	1.75
63	MP2B	Mx	.002	1.75
64	MP2B	X	4.057	4.75
65	MP2B	Z	7.028	4.75
66	MP2B	Mx	.002	4.75
67	MP2C	X	2.931	1.75
68	MP2C	Z	5.076	1.75
69	MP2C	Mx	.003	1.75
70	MP2C	X	2.931	4.75
71	MP2C	Z	5.076	4.75
72	MP2C	Mx	.003	4.75
73	MP1A	X	1.466	5.25
74	MP1A	Z	2.539	5.25
75	MP1A	Mx	-.000733	5.25
76	MP1B	X	1.466	5.25
77	MP1B	Z	2.539	5.25
78	MP1B	Mx	-.000733	5.25
79	MP1C	X	.828	5.25
80	MP1C	Z	1.434	5.25
81	MP1C	Mx	.000828	5.25
82	MP2A	X	1.882	1.75
83	MP2A	Z	3.259	1.75
84	MP2A	Mx	.000941	1.75
85	MP2B	X	1.882	1.75
86	MP2B	Z	3.259	1.75
87	MP2B	Mx	.000941	1.75
88	MP2C	X	1.372	1.75
89	MP2C	Z	2.376	1.75
90	MP2C	Mx	-.001	1.75
91	MP3A	X	1.817	1.75
92	MP3A	Z	3.147	1.75





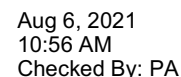


	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
46	MP2B	X	-2.931	4.75
47	MP2B	Z	5.076	4.75
48	MP2B	Mx	-.003	4.75
49	MP2C	X	-4.057	1.75
50	MP2C	Z	7.028	1.75
51	MP2C	Mx	-.002	1.75
52	MP2C	X	-4.057	4.75
53	MP2C	Z	7.028	4.75
54	MP2C	Mx	-.002	4.75
55	MP2A	X	-4.057	1.75
56	MP2A	Z	7.028	1.75
57	MP2A	Mx	-.002	1.75
58	MP2A	X	-4.057	4.75
59	MP2A	Z	7.028	4.75
60	MP2A	Mx	-.002	4.75
61	MP2B	X	-2.931	1.75
62	MP2B	Z	5.076	1.75
63	MP2B	Mx	-.003	1.75
64	MP2B	X	-2.931	4.75
65	MP2B	Z	5.076	4.75
66	MP2B	Mx	-.003	4.75
67	MP2C	X	-4.057	1.75
68	MP2C	Z	7.028	1.75
69	MP2C	Mx	.006	1.75
70	MP2C	X	-4.057	4.75
71	MP2C	Z	7.028	4.75
72	MP2C	Mx	.006	4.75
73	MP1A	X	-1.466	5.25
74	MP1A	Z	2.539	5.25
75	MP1A	Mx	.000733	5.25
76	MP1B	X	-.828	5.25
77	MP1B	Z	1.434	5.25
78	MP1B	Mx	-.000828	5.25
79	MP1C	X	-1.466	5.25
80	MP1C	Z	2.539	5.25
81	MP1C	Mx	.000733	5.25
82	MP2A	X	-1.882	1.75
83	MP2A	Z	3.259	1.75
84	MP2A	Mx	-.000941	1.75
85	MP2B	X	-1.372	1.75
86	MP2B	Z	2.376	1.75
87	MP2B	Mx	.001	1.75
88	MP2C	X	-1.882	1.75
89	MP2C	Z	3.259	1.75
90	MP2C	Mx	-.000941	1.75
91	MP3A	X	-1.817	1.75
92	MP3A	Z	3.147	1.75
93	MP3A	Mx	-.000908	1.75
94	MP3B	X	-1.111	1.75
95	MP3B	Z	1.924	1.75
96	MP3B	Mx	.001	1.75
97	MP3C	X	-1.817	1.75
98	MP3C	Z	3.147	1.75
99	MP3C	Mx	-.000908	1.75
100	M121	X	-3.431	1
101	M121	Z	5.942	1
102	M121	Mx	0	1

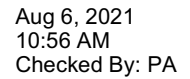


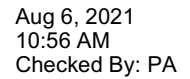
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
103	MP1C	X	-1.175	1
104	MP1C	Z	2.036	1
105	MP1C	Mx	.00017	1

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	-2.428	.79
2	MP1A	Z	1.402	.79
3	MP1A	Mx	.001	.79
4	MP1A	X	-2.428	2.79
5	MP1A	Z	1.402	2.79
6	MP1A	Mx	.001	2.79
7	MP1B	X	-2.428	.79
8	MP1B	Z	1.402	.79
9	MP1B	Mx	-.001	.79
10	MP1B	X	-2.428	2.79
11	MP1B	Z	1.402	2.79
12	MP1B	Mx	-.001	2.79
13	MP1C	X	-4.466	.79
14	MP1C	Z	2.579	.79
15	MP1C	Mx	0	.79
16	MP1C	X	-4.466	2.79
17	MP1C	Z	2.579	2.79
18	MP1C	Mx	0	2.79
19	MP4A	X	-4.121	2.25
20	MP4A	Z	2.379	2.25
21	MP4A	Mx	.002	2.25
22	MP4A	X	-4.121	4.25
23	MP4A	Z	2.379	4.25
24	MP4A	Mx	.002	4.25
25	MP4B	X	-4.121	2
26	MP4B	Z	2.379	2
27	MP4B	Mx	-.002	2
28	MP4B	X	-4.121	4
29	MP4B	Z	2.379	4
30	MP4B	Mx	-.002	4
31	MP4C	X	-5.54	2
32	MP4C	Z	3.199	2
33	MP4C	Mx	0	2
34	MP4C	X	-5.54	4
35	MP4C	Z	3.199	4
36	MP4C	Mx	0	4
37	MP2A	X	-5.727	1.75
38	MP2A	Z	3.306	1.75
39	MP2A	Mx	.005	1.75
40	MP2A	X	-5.727	4.75
41	MP2A	Z	3.306	4.75
42	MP2A	Mx	.005	4.75
43	MP2B	X	-5.727	1.75
44	MP2B	Z	3.306	1.75
45	MP2B	Mx	-.000934	1.75
46	MP2B	X	-5.727	4.75
47	MP2B	Z	3.306	4.75
48	MP2B	Mx	-.000934	4.75
49	MP2C	X	-7.678	1.75
50	MP2C	Z	4.433	1.75

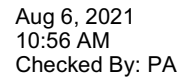


	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-2.019	.79
2	MP1A	Z	0	.79
3	MP1A	Mx	.001	.79
4	MP1A	X	-2.019	2.79
5	MP1A	Z	0	2.79
6	MP1A	Mx	.001	2.79
7	MP1B	X	-4.373	.79
8	MP1B	Z	0	.79
9	MP1B	Mx	-.001	.79
10	MP1B	X	-4.373	2.79
11	MP1B	Z	0	2.79
12	MP1B	Mx	-.001	2.79
13	MP1C	X	-4.373	.79
14	MP1C	Z	0	.79
15	MP1C	Mx	-.001	.79
16	MP1C	X	-4.373	2.79
17	MP1C	Z	0	2.79
18	MP1C	Mx	-.001	2.79
19	MP4A	X	-4.213	2.25
20	MP4A	Z	0	2.25
21	MP4A	Mx	.002	2.25
22	MP4A	X	-4.213	4.25
23	MP4A	Z	0	4.25
24	MP4A	Mx	.002	4.25
25	MP4B	X	-5.851	2
26	MP4B	Z	0	2
27	MP4B	Mx	-.001	2
28	MP4B	X	-5.851	4
29	MP4B	Z	0	4
30	MP4B	Mx	-.001	4
31	MP4C	X	-5.851	2
32	MP4C	Z	0	2
33	MP4C	Mx	-.001	2
34	MP4C	X	-5.851	4
35	MP4C	Z	0	4
36	MP4C	Mx	-.001	4
37	MP2A	X	-5.861	1.75
38	MP2A	Z	0	1.75
39	MP2A	Mx	.003	1.75
40	MP2A	X	-5.861	4.75
41	MP2A	Z	0	4.75
42	MP2A	Mx	.003	4.75
43	MP2B	X	-8.115	1.75
44	MP2B	Z	0	1.75
45	MP2B	Mx	.002	1.75
46	MP2B	X	-8.115	4.75
47	MP2B	Z	0	4.75
48	MP2B	Mx	.002	4.75
49	MP2C	X	-8.115	1.75
50	MP2C	Z	0	1.75
51	MP2C	Mx	-.006	1.75
52	MP2C	X	-8.115	4.75
53	MP2C	Z	0	4.75
54	MP2C	Mx	-.006	4.75
55	MP2A	X	-5.861	1.75
56	MP2A	Z	0	1.75
57	MP2A	Mx	.003	1.75

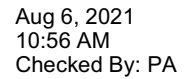


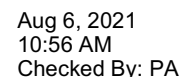


	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
6	MP1A	Mx	.001	2.79
7	MP1B	X	-4.466	.79
8	MP1B	Z	-2.579	.79
9	MP1B	Mx	0	.79
10	MP1B	X	-4.466	2.79
11	MP1B	Z	-2.579	2.79
12	MP1B	Mx	0	2.79
13	MP1C	X	-2.428	.79
14	MP1C	Z	-1.402	.79
15	MP1C	Mx	-.001	.79
16	MP1C	X	-2.428	2.79
17	MP1C	Z	-1.402	2.79
18	MP1C	Mx	-.001	2.79
19	MP4A	X	-4.121	2.25
20	MP4A	Z	-2.379	2.25
21	MP4A	Mx	.002	2.25
22	MP4A	X	-4.121	4.25
23	MP4A	Z	-2.379	4.25
24	MP4A	Mx	.002	4.25
25	MP4B	X	-5.54	2
26	MP4B	Z	-3.199	2
27	MP4B	Mx	0	2
28	MP4B	X	-5.54	4
29	MP4B	Z	-3.199	4
30	MP4B	Mx	0	4
31	MP4C	X	-4.121	2
32	MP4C	Z	-2.379	2
33	MP4C	Mx	-.002	2
34	MP4C	X	-4.121	4
35	MP4C	Z	-2.379	4
36	MP4C	Mx	-.002	4
37	MP2A	X	-5.727	1.75
38	MP2A	Z	-3.306	1.75
39	MP2A	Mx	.000935	1.75
40	MP2A	X	-5.727	4.75
41	MP2A	Z	-3.306	4.75
42	MP2A	Mx	.000935	4.75
43	MP2B	X	-7.678	1.75
44	MP2B	Z	-4.433	1.75
45	MP2B	Mx	.005	1.75
46	MP2B	X	-7.678	4.75
47	MP2B	Z	-4.433	4.75
48	MP2B	Mx	.005	4.75
49	MP2C	X	-5.727	1.75
50	MP2C	Z	-3.306	1.75
51	MP2C	Mx	-.005	1.75
52	MP2C	X	-5.727	4.75
53	MP2C	Z	-3.306	4.75
54	MP2C	Mx	-.005	4.75
55	MP2A	X	-5.727	1.75
56	MP2A	Z	-3.306	1.75
57	MP2A	Mx	.005	1.75
58	MP2A	X	-5.727	4.75
59	MP2A	Z	-3.306	4.75
60	MP2A	Mx	.005	4.75
61	MP2B	X	-7.678	1.75
62	MP2B	Z	-4.433	1.75

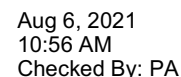


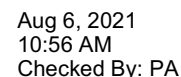
	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
11	MP1B	Z	-3.787	2.79
12	MP1B	Mx	.001	2.79
13	MP1C	X	-1.01	.79
14	MP1C	Z	-1.749	.79
15	MP1C	Mx	-.001	.79
16	MP1C	X	-1.01	2.79
17	MP1C	Z	-1.749	2.79
18	MP1C	Mx	-.001	2.79
19	MP4A	X	-2.926	2.25
20	MP4A	Z	-5.067	2.25
21	MP4A	Mx	.001	2.25
22	MP4A	X	-2.926	4.25
23	MP4A	Z	-5.067	4.25
24	MP4A	Mx	.001	4.25
25	MP4B	X	-2.926	2
26	MP4B	Z	-5.067	2
27	MP4B	Mx	.001	2
28	MP4B	X	-2.926	4
29	MP4B	Z	-5.067	4
30	MP4B	Mx	.001	4
31	MP4C	X	-2.106	2
32	MP4C	Z	-3.648	2
33	MP4C	Mx	-.002	2
34	MP4C	X	-2.106	4
35	MP4C	Z	-3.648	4
36	MP4C	Mx	-.002	4
37	MP2A	X	-4.057	1.75
38	MP2A	Z	-7.028	1.75
39	MP2A	Mx	-.002	1.75
40	MP2A	X	-4.057	4.75
41	MP2A	Z	-7.028	4.75
42	MP2A	Mx	-.002	4.75
43	MP2B	X	-4.057	1.75
44	MP2B	Z	-7.028	1.75
45	MP2B	Mx	.006	1.75
46	MP2B	X	-4.057	4.75
47	MP2B	Z	-7.028	4.75
48	MP2B	Mx	.006	4.75
49	MP2C	X	-2.931	1.75
50	MP2C	Z	-5.076	1.75
51	MP2C	Mx	-.003	1.75
52	MP2C	X	-2.931	4.75
53	MP2C	Z	-5.076	4.75
54	MP2C	Mx	-.003	4.75
55	MP2A	X	-4.057	1.75
56	MP2A	Z	-7.028	1.75
57	MP2A	Mx	.006	1.75
58	MP2A	X	-4.057	4.75
59	MP2A	Z	-7.028	4.75
60	MP2A	Mx	.006	4.75
61	MP2B	X	-4.057	1.75
62	MP2B	Z	-7.028	1.75
63	MP2B	Mx	-.002	1.75
64	MP2B	X	-4.057	4.75
65	MP2B	Z	-7.028	4.75
66	MP2B	Mx	-.002	4.75
67	MP2C	X	-2.931	1.75





	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	M1	Y	-11.276	-11.276	0	%100
2	M3	Y	-11.276	-11.276	0	%100
3	M5	Y	-11.276	-11.276	0	%100
4	MP1A	Y	-8.862	-8.862	0	%100
5	M26	Y	-11.276	-11.276	0	%100
6	M27	Y	-11.276	-11.276	0	%100
7	M28	Y	-11.276	-11.276	0	%100
8	M31	Y	-11.276	-11.276	0	%100
9	M32	Y	-11.276	-11.276	0	%100
10	M33	Y	-11.276	-11.276	0	%100
11	M32A	Y	-16.709	-16.709	0	%100
12	M33A	Y	-12.869	-12.869	0	%100
13	M34	Y	-12.869	-12.869	0	%100
14	M38	Y	-10.022	-10.022	0	%100
15	M39A	Y	-10.022	-10.022	0	%100
16	M44B	Y	-11.352	-11.352	0	%100
17	M45B	Y	-11.352	-11.352	0	%100
18	M48	Y	-10.022	-10.022	0	%100
19	M49	Y	-10.022	-10.022	0	%100
20	M32B	Y	-16.709	-16.709	0	%100
21	M33B	Y	-12.869	-12.869	0	%100
22	M34A	Y	-12.869	-12.869	0	%100
23	M38A	Y	-10.022	-10.022	0	%100
24	M39	Y	-10.022	-10.022	0	%100
25	M44	Y	-11.352	-11.352	0	%100
26	M45	Y	-11.352	-11.352	0	%100
27	M48A	Y	-10.022	-10.022	0	%100
28	M49A	Y	-10.022	-10.022	0	%100
29	M52	Y	-16.709	-16.709	0	%100
30	M53	Y	-12.869	-12.869	0	%100
31	M54	Y	-12.869	-12.869	0	%100
32	M58	Y	-10.022	-10.022	0	%100
33	M59	Y	-10.022	-10.022	0	%100
34	M64	Y	-11.352	-11.352	0	%100
35	M65	Y	-11.352	-11.352	0	%100
36	M68	Y	-10.022	-10.022	0	%100
37	M69	Y	-10.022	-10.022	0	%100
38	M72	Y	-8.862	-8.862	0	%100
39	M73	Y	-8.862	-8.862	0	%100
40	M74	Y	-8.862	-8.862	0	%100
41	MP2A	Y	-8.862	-8.862	0	%100
42	MP3A	Y	-8.862	-8.862	0	%100
43	MP4A	Y	-8.862	-8.862	0	%100
44	MP1C	Y	-8.862	-8.862	0	%100
45	MP2C	Y	-8.862	-8.862	0	%100
46	MP3C	Y	-8.862	-8.862	0	%100
47	MP4C	Y	-8.862	-8.862	0	%100
48	MP1B	Y	-8.862	-8.862	0	%100
49	MP2B	Y	-8.862	-8.862	0	%100
50	MP3B	Y	-8.862	-8.862	0	%100
51	MP4B	Y	-8.862	-8.862	0	%100
52	M115	Y	-17.446	-17.446	0	%100
53	M116	Y	-17.446	-17.446	0	%100
54	M117	Y	-17.446	-17.446	0	%100
55	M118	Y	-15.298	-15.298	0	%100
56	M119	Y	-15.298	-15.298	0	%100

Page 86



	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
52	M45	Z	-8.523	-8.523	0	%100
53	M48A	X	0	0	0	%100
54	M48A	Z	-4.477	-4.477	0	%100
55	M49A	X	0	0	0	%100
56	M49A	Z	0	0	0	%100
57	M52	X	0	0	0	%100
58	M52	Z	-5.124	-5.124	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	-7.432	-7.432	0	%100
61	M54	X	0	0	0	%100
62	M54	Z	-7.174	-7.174	0	%100
63	M58	X	0	0	0	%100
64	M58	Z	0	0	0	%100
65	M59	X	0	0	0	%100
66	M59	Z	-5.231	-5.231	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	-8.523	-8.523	0	%100
69	M65	X	0	0	0	%100
70	M65	Z	-8.523	-8.523	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	0	0	0	%100
73	M69	X	0	0	0	%100
74	M69	Z	-4.477	-4.477	0	%100
75	M72	X	0	0	0	%100
76	M72	Z	-8.064	-8.064	0	%100
77	M73	X	0	0	0	%100
78	M73	Z	-2.016	-2.016	0	%100
79	M74	X	0	0	0	%100
80	M74	Z	-2.016	-2.016	0	%100
81	MP2A	X	0	0	0	%100
82	MP2A	Z	-8.064	-8.064	0	%100
83	MP3A	X	0	0	0	%100
84	MP3A	Z	-8.064	-8.064	0	%100
85	MP4A	X	0	0	0	%100
86	MP4A	Z	-8.064	-8.064	0	%100
87	MP1C	X	0	0	0	%100
88	MP1C	Z	-8.064	-8.064	0	%100
89	MP2C	X	0	0	0	%100
90	MP2C	Z	-8.064	-8.064	0	%100
91	MP3C	X	0	0	0	%100
92	MP3C	Z	-8.064	-8.064	0	%100
93	MP4C	X	0	0	0	%100
94	MP4C	Z	-8.064	-8.064	0	%100
95	MP1B	X	0	0	0	%100
96	MP1B	Z	-8.064	-8.064	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	-8.064	-8.064	0	%100
99	MP3B	X	0	0	0	%100
100	MP3B	Z	-8.064	-8.064	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	-8.064	-8.064	0	%100
103	M115	X	0	0	0	%100
104	M115	Z	-21.839	-21.839	0	%100
105	M116	X	0	0	0	%100
106	M116	Z	-5.46	-5.46	0	%100
107	M117	X	0	0	0	%100
108	M117	Z	-5.46	-5.46	0	%100

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

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
109	M118	X	0	0	0	%100
110	M118	Z	-4.152	-4.152	0	%100
111	M119	X	0	0	0	%100
112	M119	Z	-11.648	-11.648	0	%100
113	M120	X	0	0	0	%100
114	M120	Z	-11.648	-11.648	0	%100
115	M121	X	0	0	0	%100
116	M121	Z	-5.508	-5.508	0	%100

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

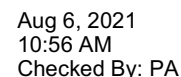
	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	M1	X	3.702	3.702	0	%100
2	M1	Z	-6.412	-6.412	0	%100
3	M3	X	3.702	3.702	0	%100
4	M3	Z	-6.412	-6.412	0	%100
5	M5	X	4.209	4.209	0	%100
6	M5	Z	-7.29	-7.29	0	%100
7	MP1A	X	4.032	4.032	0	%100
8	MP1A	Z	-6.983	-6.983	0	%100
9	M26	X	3.702	3.702	0	%100
10	M26	Z	-6.412	-6.412	0	%100
11	M27	X	3.702	3.702	0	%100
12	M27	Z	-6.412	-6.412	0	%100
13	M28	X	4.209	4.209	0	%100
14	M28	Z	-7.29	-7.29	0	%100
15	M31	X	0	0	0	%100
16	M31	Z	0	0	0	%100
17	M32	X	0	0	0	%100
18	M32	Z	0	0	0	%100
19	M33	X	0	0	0	%100
20	M33	Z	0	0	0	%100
21	M32A	X	7.686	7.686	0	%100
22	M32A	Z	-13.313	-13.313	0	%100
23	M33A	X	1.239	1.239	0	%100
24	M33A	Z	-2.145	-2.145	0	%100
25	M34	X	1.196	1.196	0	%100
26	M34	Z	-2.071	-2.071	0	%100
27	M38	X	.872	.872	0	%100
28	M38	Z	-1.51	-1.51	0	%100
29	M39A	X	3.487	3.487	0	%100
30	M39A	Z	-6.04	-6.04	0	%100
31	M44B	X	1.421	1.421	0	%100
32	M44B	Z	-2.461	-2.461	0	%100
33	M45B	X	1.421	1.421	0	%100
34	M45B	Z	-2.461	-2.461	0	%100
35	M48	X	.746	.746	0	%100
36	M48	Z	-1.293	-1.293	0	%100
37	M49	X	2.985	2.985	0	%100
38	M49	Z	-5.17	-5.17	0	%100
39	M32B	X	7.686	7.686	0	%100
40	M32B	Z	-13.313	-13.313	0	%100
41	M33B	X	1.239	1.239	0	%100
42	M33B	Z	-2.145	-2.145	0	%100
43	M34A	X	1.196	1.196	0	%100
44	M34A	Z	-2.071	-2.071	0	%100
45	M38A	X	3.487	3.487	0	%100

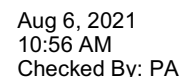
Member Distributed Loads (BLC 42 : Structure Wo (30 Deg)) (Continued)

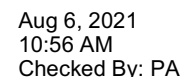
	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
103	M115	X	8.19	8.19	0	%100
104	M115	Z	-14.185	-14.185	0	%100
105	M116	X	8.19	8.19	0	%100
106	M116	Z	-14.185	-14.185	0	%100
107	M117	X	0	0	0	%100
108	M117	Z	0	0	0	%100
109	M118	X	3.325	3.325	0	%100
110	M118	Z	-5.76	-5.76	0	%100
111	M119	X	3.325	3.325	0	%100
112	M119	Z	-5.76	-5.76	0	%100
113	M120	X	7.073	7.073	0	%100
114	M120	Z	-12.252	-12.252	0	%100
115	M121	X	2.754	2.754	0	%100
116	M121	Z	-4.77	-4.77	0	%100

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

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	M1	X	2.137	2.137	0	%100
2	M1	Z	-1.234	-1.234	0	%100
3	M3	X	2.137	2.137	0	%100
4	M3	Z	-1.234	-1.234	0	%100
5	M5	X	2.43	2.43	0	%100
6	M5	Z	-1.403	-1.403	0	%100
7	MP1A	X	6.983	6.983	0	%100
8	MP1A	Z	-4.032	-4.032	0	%100
9	M26	X	8.549	8.549	0	%100
10	M26	Z	-4.936	-4.936	0	%100
11	M27	X	8.549	8.549	0	%100
12	M27	Z	-4.936	-4.936	0	%100
13	M28	X	9.72	9.72	0	%100
14	M28	Z	-5.612	-5.612	0	%100
15	M31	X	2.137	2.137	0	%100
16	M31	Z	-1.234	-1.234	0	%100
17	M32	X	2.137	2.137	0	%100
18	M32	Z	-1.234	-1.234	0	%100
19	M33	X	2.43	2.43	0	%100
20	M33	Z	-1.403	-1.403	0	%100
21	M32A	X	4.438	4.438	0	%100
22	M32A	Z	-2.562	-2.562	0	%100
23	M33A	X	6.436	6.436	0	%100
24	M33A	Z	-3.716	-3.716	0	%100
25	M34	X	6.213	6.213	0	%100
26	M34	Z	-3.587	-3.587	0	%100
27	M38	X	0	0	0	%100
28	M38	Z	0	0	0	%100
29	M39A	X	4.53	4.53	0	%100
30	M39A	Z	-2.615	-2.615	0	%100
31	M44B	X	7.382	7.382	0	%100
32	M44B	Z	-4.262	-4.262	0	%100
33	M45B	X	7.382	7.382	0	%100
34	M45B	Z	-4.262	-4.262	0	%100
35	M48	X	0	0	0	%100
36	M48	Z	0	0	0	%100
37	M49	X	3.878	3.878	0	%100
38	M49	Z	-2.239	-2.239	0	%100
39	M32B	X	17.751	17.751	0	%100







	Member Label	Direction	Start Magnitude[lb...]	End Magnitude[lb/ft,F,ksf]	Start Location[ft.%]	End Location[ft.%]
91	MP3C	X	8.064	8.064	0	%100
92	MP3C	Z	0	0	0	%100
93	MP4C	X	8.064	8.064	0	%100
94	MP4C	Z	0	0	0	%100
95	MP1B	X	8.064	8.064	0	%100
96	MP1B	Z	0	0	0	%100
97	MP2B	X	8.064	8.064	0	%100
98	MP2B	Z	0	0	0	%100
99	MP3B	X	8.064	8.064	0	%100
100	MP3B	Z	0	0	0	%100
101	MP4B	X	8.064	8.064	0	%100
102	MP4B	Z	0	0	0	%100
103	M115	X	0	0	0	%100
104	M115	Z	0	0	0	%100
105	M116	X	16.38	16.38	0	%100
106	M116	Z	0	0	0	%100
107	M117	X	16.38	16.38	0	%100
108	M117	Z	0	0	0	%100
109	M118	X	14.147	14.147	0	%100
110	M118	Z	0	0	0	%100
111	M119	X	6.651	6.651	0	%100
112	M119	Z	0	0	0	%100
113	M120	X	6.651	6.651	0	%100
114	M120	Z	0	0	0	%100
115	M121	X	5.508	5.508	0	%100
116	M121	Z	0	0	0	%100

	Member Label	Direction	Start Magnitude[lb...]	End Magnitude[lb/ft,F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	2.137	2.137	0	%100
2	M1	Z	1.234	1.234	0	%100
3	M3	X	2.137	2.137	0	%100
4	M3	Z	1.234	1.234	0	%100
5	M5	X	2.43	2.43	0	%100
6	M5	Z	1.403	1.403	0	%100
7	MP1A	X	6.983	6.983	0	%100
8	MP1A	Z	4.032	4.032	0	%100
9	M26	X	2.137	2.137	0	%100
10	M26	Z	1.234	1.234	0	%100
11	M27	X	2.137	2.137	0	%100
12	M27	Z	1.234	1.234	0	%100
13	M28	X	2.43	2.43	0	%100
14	M28	Z	1.403	1.403	0	%100
15	M31	X	8.549	8.549	0	%100
16	M31	Z	4.936	4.936	0	%100
17	M32	X	8.549	8.549	0	%100
18	M32	Z	4.936	4.936	0	%100
19	M33	X	9.72	9.72	0	%100
20	M33	Z	5.612	5.612	0	%100
21	M32A	X	4.438	4.438	0	%100
22	M32A	Z	2.562	2.562	0	%100
23	M33A	X	6.436	6.436	0	%100
24	M33A	Z	3.716	3.716	0	%100
25	M34	X	6.213	6.213	0	%100
26	M34	Z	3.587	3.587	0	%100
27	M38	X	4.53	4.53	0	%100

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

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
28	M38	Z	2.615	2.615	0	%100
29	M39A	X	0	0	0	%100
30	M39A	Z	0	0	0	%100
31	M44B	X	7.382	7.382	0	%100
32	M44B	Z	4.262	4.262	0	%100
33	M45B	X	7.382	7.382	0	%100
34	M45B	Z	4.262	4.262	0	%100
35	M48	X	3.878	3.878	0	%100
36	M48	Z	2.239	2.239	0	%100
37	M49	X	0	0	0	%100
38	M49	Z	0	0	0	%100
39	M32B	X	4.438	4.438	0	%100
40	M32B	Z	2.562	2.562	0	%100
41	M33B	X	6.436	6.436	0	%100
42	M33B	Z	3.716	3.716	0	%100
43	M34A	X	6.213	6.213	0	%100
44	M34A	Z	3.587	3.587	0	%100
45	M38A	X	0	0	0	%100
46	M38A	Z	0	0	0	%100
47	M39	X	4.53	4.53	0	%100
48	M39	Z	2.615	2.615	0	%100
49	M44	X	7.382	7.382	0	%100
50	M44	Z	4.262	4.262	0	%100
51	M45	X	7.382	7.382	0	%100
52	M45	Z	4.262	4.262	0	%100
53	M48A	X	0	0	0	%100
54	M48A	Z	0	0	0	%100
55	M49A	X	3.878	3.878	0	%100
56	M49A	Z	2.239	2.239	0	%100
57	M52	X	17.751	17.751	0	%100
58	M52	Z	10.249	10.249	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	0	0	0	%100
61	M54	X	0	0	0	%100
62	M54	Z	0	0	0	%100
63	M58	X	4.53	4.53	0	%100
64	M58	Z	2.615	2.615	0	%100
65	M59	X	4.53	4.53	0	%100
66	M59	Z	2.615	2.615	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	0	0	0	%100
69	M65	X	0	0	0	%100
70	M65	Z	0	0	0	%100
71	M68	X	3.878	3.878	0	%100
72	M68	Z	2.239	2.239	0	%100
73	M69	X	3.878	3.878	0	%100
74	M69	Z	2.239	2.239	0	%100
75	M72	X	1.746	1.746	0	%100
76	M72	Z	1.008	1.008	0	%100
77	M73	X	1.746	1.746	0	%100
78	M73	Z	1.008	1.008	0	%100
79	M74	X	6.983	6.983	0	%100
80	M74	Z	4.032	4.032	0	%100
81	MP2A	X	6.983	6.983	0	%100
82	MP2A	Z	4.032	4.032	0	%100
83	MP3A	X	6.983	6.983	0	%100
84	MP3A	Z	4.032	4.032	0	%100

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

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
85	MP4A	X	6.983	6.983	0	%100
86	MP4A	Z	4.032	4.032	0	%100
87	MP1C	X	6.983	6.983	0	%100
88	MP1C	Z	4.032	4.032	0	%100
89	MP2C	X	6.983	6.983	0	%100
90	MP2C	Z	4.032	4.032	0	%100
91	MP3C	X	6.983	6.983	0	%100
92	MP3C	Z	4.032	4.032	0	%100
93	MP4C	X	6.983	6.983	0	%100
94	MP4C	Z	4.032	4.032	0	%100
95	MP1B	X	6.983	6.983	0	%100
96	MP1B	Z	4.032	4.032	0	%100
97	MP2B	X	6.983	6.983	0	%100
98	MP2B	Z	4.032	4.032	0	%100
99	MP3B	X	6.983	6.983	0	%100
100	MP3B	Z	4.032	4.032	0	%100
101	MP4B	X	6.983	6.983	0	%100
102	MP4B	Z	4.032	4.032	0	%100
103	M115	X	4.728	4.728	0	%100
104	M115	Z	2.73	2.73	0	%100
105	M116	X	4.728	4.728	0	%100
106	M116	Z	2.73	2.73	0	%100
107	M117	X	18.913	18.913	0	%100
108	M117	Z	10.92	10.92	0	%100
109	M118	X	10.088	10.088	0	%100
110	M118	Z	5.824	5.824	0	%100
111	M119	X	10.088	10.088	0	%100
112	M119	Z	5.824	5.824	0	%100
113	M120	X	3.596	3.596	0	%100
114	M120	Z	2.076	2.076	0	%100
115	M121	X	4.77	4.77	0	%100
116	M121	Z	2.754	2.754	0	%100

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

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	M1	X	3.702	3.702	0	%100
2	M1	Z	6.412	6.412	0	%100
3	M3	X	3.702	3.702	0	%100
4	M3	Z	6.412	6.412	0	%100
5	M5	X	4.209	4.209	0	%100
6	M5	Z	7.29	7.29	0	%100
7	MP1A	X	4.032	4.032	0	%100
8	MP1A	Z	6.983	6.983	0	%100
9	M26	X	0	0	0	%100
10	M26	Z	0	0	0	%100
11	M27	X	0	0	0	%100
12	M27	Z	0	0	0	%100
13	M28	X	0	0	0	%100
14	M28	Z	0	0	0	%100
15	M31	X	3.702	3.702	0	%100
16	M31	Z	6.412	6.412	0	%100
17	M32	X	3.702	3.702	0	%100
18	M32	Z	6.412	6.412	0	%100
19	M33	X	4.209	4.209	0	%100
20	M33	Z	7.29	7.29	0	%100
21	M32A	X	7.686	7.686	0	%100

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

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
22	M32A	Z	13.313	13.313	0	%100
23	M33A	X	1.239	1.239	0	%100
24	M33A	Z	2.145	2.145	0	%100
25	M34	X	1.196	1.196	0	%100
26	M34	Z	2.071	2.071	0	%100
27	M38	X	3.487	3.487	0	%100
28	M38	Z	6.04	6.04	0	%100
29	M39A	X	.872	.872	0	%100
30	M39A	Z	1.51	1.51	0	%100
31	M44B	X	1.421	1.421	0	%100
32	M44B	Z	2.461	2.461	0	%100
33	M45B	X	1.421	1.421	0	%100
34	M45B	Z	2.461	2.461	0	%100
35	M48	X	2.985	2.985	0	%100
36	M48	Z	5.17	5.17	0	%100
37	M49	X	.746	.746	0	%100
38	M49	Z	1.293	1.293	0	%100
39	M32B	X	0	0	0	%100
40	M32B	Z	0	0	0	%100
41	M33B	X	4.954	4.954	0	%100
42	M33B	Z	8.581	8.581	0	%100
43	M34A	X	4.782	4.782	0	%100
44	M34A	Z	8.283	8.283	0	%100
45	M38A	X	.872	.872	0	%100
46	M38A	Z	1.51	1.51	0	%100
47	M39	X	.872	.872	0	%100
48	M39	Z	1.51	1.51	0	%100
49	M44	X	5.682	5.682	0	%100
50	M44	Z	9.842	9.842	0	%100
51	M45	X	5.682	5.682	0	%100
52	M45	Z	9.842	9.842	0	%100
53	M48A	X	.746	.746	0	%100
54	M48A	Z	1.293	1.293	0	%100
55	M49A	X	.746	.746	0	%100
56	M49A	Z	1.293	1.293	0	%100
57	M52	X	7.686	7.686	0	%100
58	M52	Z	13.313	13.313	0	%100
59	M53	X	1.239	1.239	0	%100
60	M53	Z	2.145	2.145	0	%100
61	M54	X	1.196	1.196	0	%100
62	M54	Z	2.071	2.071	0	%100
63	M58	X	.872	.872	0	%100
64	M58	Z	1.51	1.51	0	%100
65	M59	X	3.487	3.487	0	%100
66	M59	Z	6.04	6.04	0	%100
67	M64	X	1.421	1.421	0	%100
68	M64	Z	2.461	2.461	0	%100
69	M65	X	1.421	1.421	0	%100
70	M65	Z	2.461	2.461	0	%100
71	M68	X	.746	.746	0	%100
72	M68	Z	1.293	1.293	0	%100
73	M69	X	2.985	2.985	0	%100
74	M69	Z	5.17	5.17	0	%100
75	M72	X	3.024	3.024	0	%100
76	M72	Z	5.238	5.238	0	%100
77	M73	X	0	0	0	%100
78	M73	Z	0	0	0	%100

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

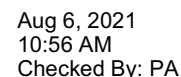
	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
79	M74	X	3.024	3.024	0	%100
80	M74	Z	5.238	5.238	0	%100
81	MP2A	X	4.032	4.032	0	%100
82	MP2A	Z	6.983	6.983	0	%100
83	MP3A	X	4.032	4.032	0	%100
84	MP3A	Z	6.983	6.983	0	%100
85	MP4A	X	4.032	4.032	0	%100
86	MP4A	Z	6.983	6.983	0	%100
87	MP1C	X	4.032	4.032	0	%100
88	MP1C	Z	6.983	6.983	0	%100
89	MP2C	X	4.032	4.032	0	%100
90	MP2C	Z	6.983	6.983	0	%100
91	MP3C	X	4.032	4.032	0	%100
92	MP3C	Z	6.983	6.983	0	%100
93	MP4C	X	4.032	4.032	0	%100
94	MP4C	Z	6.983	6.983	0	%100
95	MP1B	X	4.032	4.032	0	%100
96	MP1B	Z	6.983	6.983	0	%100
97	MP2B	X	4.032	4.032	0	%100
98	MP2B	Z	6.983	6.983	0	%100
99	MP3B	X	4.032	4.032	0	%100
100	MP3B	Z	6.983	6.983	0	%100
101	MP4B	X	4.032	4.032	0	%100
102	MP4B	Z	6.983	6.983	0	%100
103	M115	X	8.19	8.19	0	%100
104	M115	Z	14.185	14.185	0	%100
105	M116	X	0	0	0	%100
106	M116	Z	0	0	0	%100
107	M117	X	8.19	8.19	0	%100
108	M117	Z	14.185	14.185	0	%100
109	M118	X	3.325	3.325	0	%100
110	M118	Z	5.76	5.76	0	%100
111	M119	X	7.073	7.073	0	%100
112	M119	Z	12.252	12.252	0	%100
113	M120	X	3.325	3.325	0	%100
114	M120	Z	5.76	5.76	0	%100
115	M121	X	2.754	2.754	0	%100
116	M121	Z	4.77	4.77	0	%100

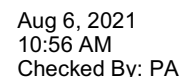
Member Distributed Loads (BLC 47 : Structure Wo (180 Deg))

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	9.871	9.871	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	9.871	9.871	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	11.223	11.223	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	8.064	8.064	0	%100
9	M26	X	0	0	0	%100
10	M26	Z	2.468	2.468	0	%100
11	M27	X	0	0	0	%100
12	M27	Z	2.468	2.468	0	%100
13	M28	X	0	0	0	%100
14	M28	Z	2.806	2.806	0	%100
15	M31	X	0	0	0	%100

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

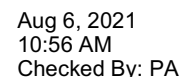
	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
16	M31	Z	2.468	2.468	0	%100
17	M32	X	0	0	0	%100
18	M32	Z	2.468	2.468	0	%100
19	M33	X	0	0	0	%100
20	M33	Z	2.806	2.806	0	%100
21	M32A	X	0	0	0	%100
22	M32A	Z	20.497	20.497	0	%100
23	M33A	X	0	0	0	%100
24	M33A	Z	0	0	0	%100
25	M34	X	0	0	0	%100
26	M34	Z	0	0	0	%100
27	M38	X	0	0	0	%100
28	M38	Z	5.231	5.231	0	%100
29	M39A	X	0	0	0	%100
30	M39A	Z	5.231	5.231	0	%100
31	M44B	X	0	0	0	%100
32	M44B	Z	0	0	0	%100
33	M45B	X	0	0	0	%100
34	M45B	Z	0	0	0	%100
35	M48	X	0	0	0	%100
36	M48	Z	4.477	4.477	0	%100
37	M49	X	0	0	0	%100
38	M49	Z	4.477	4.477	0	%100
39	M32B	X	0	0	0	%100
40	M32B	Z	5.124	5.124	0	%100
41	M33B	X	0	0	0	%100
42	M33B	Z	7.432	7.432	0	%100
43	M34A	X	0	0	0	%100
44	M34A	Z	7.174	7.174	0	%100
45	M38A	X	0	0	0	%100
46	M38A	Z	5.231	5.231	0	%100
47	M39	X	0	0	0	%100
48	M39	Z	0	0	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	8.523	8.523	0	%100
51	M45	X	0	0	0	%100
52	M45	Z	8.523	8.523	0	%100
53	M48A	X	0	0	0	%100
54	M48A	Z	4.477	4.477	0	%100
55	M49A	X	0	0	0	%100
56	M49A	Z	0	0	0	%100
57	M52	X	0	0	0	%100
58	M52	Z	5.124	5.124	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	7.432	7.432	0	%100
61	M54	X	0	0	0	%100
62	M54	Z	7.174	7.174	0	%100
63	M58	X	0	0	0	%100
64	M58	Z	0	0	0	%100
65	M59	X	0	0	0	%100
66	M59	Z	5.231	5.231	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	8.523	8.523	0	%100
69	M65	X	0	0	0	%100
70	M65	Z	8.523	8.523	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	0	0	0	%100

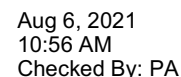
Page 100

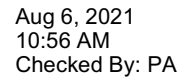


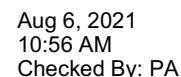
Member Distributed Loads (BLC 49 : Structure Wo (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
4	M3	Z	1.234	1.234	0	%100
5	M5	X	-2.43	-2.43	0	%100
6	M5	Z	1.403	1.403	0	%100
7	MP1A	X	-6.983	-6.983	0	%100
8	MP1A	Z	4.032	4.032	0	%100
9	M26	X	-8.549	-8.549	0	%100
10	M26	Z	4.936	4.936	0	%100
11	M27	X	-8.549	-8.549	0	%100
12	M27	Z	4.936	4.936	0	%100
13	M28	X	-9.72	-9.72	0	%100
14	M28	Z	5.612	5.612	0	%100
15	M31	X	-2.137	-2.137	0	%100
16	M31	Z	1.234	1.234	0	%100
17	M32	X	-2.137	-2.137	0	%100
18	M32	Z	1.234	1.234	0	%100
19	M33	X	-2.43	-2.43	0	%100
20	M33	Z	1.403	1.403	0	%100
21	M32A	X	-4.438	-4.438	0	%100
22	M32A	Z	2.562	2.562	0	%100
23	M33A	X	-6.436	-6.436	0	%100
24	M33A	Z	3.716	3.716	0	%100
25	M34	X	-6.213	-6.213	0	%100
26	M34	Z	3.587	3.587	0	%100
27	M38	X	0	0	0	%100
28	M38	Z	0	0	0	%100
29	M39A	X	-4.53	-4.53	0	%100
30	M39A	Z	2.615	2.615	0	%100
31	M44B	X	-7.382	-7.382	0	%100
32	M44B	Z	4.262	4.262	0	%100
33	M45B	X	-7.382	-7.382	0	%100
34	M45B	Z	4.262	4.262	0	%100
35	M48	X	0	0	0	%100
36	M48	Z	0	0	0	%100
37	M49	X	-3.878	-3.878	0	%100
38	M49	Z	2.239	2.239	0	%100
39	M32B	X	-17.751	-17.751	0	%100
40	M32B	Z	10.249	10.249	0	%100
41	M33B	X	0	0	0	%100
42	M33B	Z	0	0	0	%100
43	M34A	X	0	0	0	%100
44	M34A	Z	0	0	0	%100
45	M38A	X	-4.53	-4.53	0	%100
46	M38A	Z	2.615	2.615	0	%100
47	M39	X	-4.53	-4.53	0	%100
48	M39	Z	2.615	2.615	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	0	0	0	%100
51	M45	X	0	0	0	%100
52	M45	Z	0	0	0	%100
53	M48A	X	-3.878	-3.878	0	%100
54	M48A	Z	2.239	2.239	0	%100
55	M49A	X	-3.878	-3.878	0	%100
56	M49A	Z	2.239	2.239	0	%100
57	M52	X	-4.438	-4.438	0	%100
58	M52	Z	2.562	2.562	0	%100
59	M53	X	-6.436	-6.436	0	%100
60	M53	Z	3.716	3.716	0	%100

Page 107

Page 109

Page 111



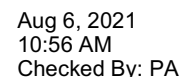
	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
40	M32B	Z	-1.253	-1.253	0	%100
41	M33B	X	0	0	0	%100
42	M33B	Z	-2.724	-2.724	0	%100
43	M34A	X	0	0	0	%100
44	M34A	Z	-2.624	-2.624	0	%100
45	M38A	X	0	0	0	%100
46	M38A	Z	-2.104	-2.104	0	%100
47	M39	X	0	0	0	%100
48	M39	Z	0	0	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	-2.672	-2.672	0	%100
51	M45	X	0	0	0	%100
52	M45	Z	-2.672	-2.672	0	%100
53	M48A	X	0	0	0	%100
54	M48A	Z	-1.819	-1.819	0	%100
55	M49A	X	0	0	0	%100
56	M49A	Z	0	0	0	%100
57	M52	X	0	0	0	%100
58	M52	Z	-1.253	-1.253	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	-2.724	-2.724	0	%100
61	M54	X	0	0	0	%100
62	M54	Z	-2.624	-2.624	0	%100
63	M58	X	0	0	0	%100
64	M58	Z	0	0	0	%100
65	M59	X	0	0	0	%100
66	M59	Z	-2.104	-2.104	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	-2.672	-2.672	0	%100
69	M65	X	0	0	0	%100
70	M65	Z	-2.672	-2.672	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	0	0	0	%100
73	M69	X	0	0	0	%100
74	M69	Z	-1.819	-1.819	0	%100
75	M72	X	0	0	0	%100
76	M72	Z	-3.589	-3.589	0	%100
77	M73	X	0	0	0	%100
78	M73	Z	-.897	-.897	0	%100
79	M74	X	0	0	0	%100
80	M74	Z	-.897	-.897	0	%100
81	MP2A	X	0	0	0	%100
82	MP2A	Z	-3.54	-3.54	0	%100
83	MP3A	X	0	0	0	%100
84	MP3A	Z	-3.54	-3.54	0	%100
85	MP4A	X	0	0	0	%100
86	MP4A	Z	-3.54	-3.54	0	%100
87	MP1C	X	0	0	0	%100
88	MP1C	Z	-3.54	-3.54	0	%100
89	MP2C	X	0	0	0	%100
90	MP2C	Z	-3.54	-3.54	0	%100
91	MP3C	X	0	0	0	%100
92	MP3C	Z	-3.54	-3.54	0	%100
93	MP4C	X	0	0	0	%100
94	MP4C	Z	-3.54	-3.54	0	%100
95	MP1B	X	0	0	0	%100
96	MP1B	Z	-3.54	-3.54	0	%100

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

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft.%]	End Location[ft.%]
97	MP2B	X	0	0	0	%100
98	MP2B	Z	-3.54	-3.54	0	%100
99	MP3B	X	0	0	0	%100
100	MP3B	Z	-3.54	-3.54	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	-3.54	-3.54	0	%100
103	M115	X	0	0	0	%100
104	M115	Z	-5.372	-5.372	0	%100
105	M116	X	0	0	0	%100
106	M116	Z	-1.343	-1.343	0	%100
107	M117	X	0	0	0	%100
108	M117	Z	-1.343	-1.343	0	%100
109	M118	X	0	0	0	%100
110	M118	Z	-1.085	-1.085	0	%100
111	M119	X	0	0	0	%100
112	M119	Z	-3.755	-3.755	0	%100
113	M120	X	0	0	0	%100
114	M120	Z	-3.755	-3.755	0	%100
115	M121	X	0	0	0	%100
116	M121	Z	-2.506	-2.506	0	%100

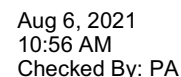
Member Distributed Loads (BLC 54 : Structure Wi (30 Deg))

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	1.331	1.331	0	%100
2	M1	Z	-2.305	-2.305	0	%100
3	M3	X	1.331	1.331	0	%100
4	M3	Z	-2.305	-2.305	0	%100
5	M5	X	1.513	1.513	0	%100
6	M5	Z	-2.62	-2.62	0	%100
7	MP1A	X	1.77	1.77	0	%100
8	MP1A	Z	-3.066	-3.066	0	%100
9	M26	X	1.331	1.331	0	%100
10	M26	Z	-2.305	-2.305	0	%100
11	M27	X	1.331	1.331	0	%100
12	M27	Z	-2.305	-2.305	0	%100
13	M28	X	1.513	1.513	0	%100
14	M28	Z	-2.62	-2.62	0	%100
15	M31	X	0	0	0	%100
16	M31	Z	0	0	0	%100
17	M32	X	0	0	0	%100
18	M32	Z	0	0	0	%100
19	M33	X	0	0	0	%100
20	M33	Z	0	0	0	%100
21	M32A	X	1.879	1.879	0	%100
22	M32A	Z	-3.254	-3.254	0	%100
23	M33A	X	.454	.454	0	%100
24	M33A	Z	-.786	-.786	0	%100
25	M34	X	.437	.437	0	%100
26	M34	Z	-.758	-.758	0	%100
27	M38	X	.351	.351	0	%100
28	M38	Z	-.607	-.607	0	%100
29	M39A	X	1.403	1.403	0	%100
30	M39A	Z	-2.43	-2.43	0	%100
31	M44B	X	.445	.445	0	%100
32	M44B	Z	-.771	-.771	0	%100
33	M45B	X	.445	.445	0	%100



	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
91	MP3C	X	1.77	1.77	0	%100
92	MP3C	Z	-3.066	-3.066	0	%100
93	MP4C	X	1.77	1.77	0	%100
94	MP4C	Z	-3.066	-3.066	0	%100
95	MP1B	X	1.77	1.77	0	%100
96	MP1B	Z	-3.066	-3.066	0	%100
97	MP2B	X	1.77	1.77	0	%100
98	MP2B	Z	-3.066	-3.066	0	%100
99	MP3B	X	1.77	1.77	0	%100
100	MP3B	Z	-3.066	-3.066	0	%100
101	MP4B	X	1.77	1.77	0	%100
102	MP4B	Z	-3.066	-3.066	0	%100
103	M115	X	2.015	2.015	0	%100
104	M115	Z	-3.489	-3.489	0	%100
105	M116	X	2.015	2.015	0	%100
106	M116	Z	-3.489	-3.489	0	%100
107	M117	X	0	0	0	%100
108	M117	Z	0	0	0	%100
109	M118	X	.988	.988	0	%100
110	M118	Z	-1.711	-1.711	0	%100
111	M119	X	.988	.988	0	%100
112	M119	Z	-1.711	-1.711	0	%100
113	M120	X	2.323	2.323	0	%100
114	M120	Z	-4.023	-4.023	0	%100
115	M121	X	1.253	1.253	0	%100
116	M121	Z	-2.17	-2.17	0	%100

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.768	.768	0	%100
2	M1	Z	-.444	-.444	0	%100
3	M3	X	.768	.768	0	%100
4	M3	Z	-.444	-.444	0	%100
5	M5	X	.873	.873	0	%100
6	M5	Z	-.504	-.504	0	%100
7	MP1A	X	3.066	3.066	0	%100
8	MP1A	Z	-1.77	-1.77	0	%100
9	M26	X	3.073	3.073	0	%100
10	M26	Z	-1.774	-1.774	0	%100
11	M27	X	3.073	3.073	0	%100
12	M27	Z	-1.774	-1.774	0	%100
13	M28	X	3.494	3.494	0	%100
14	M28	Z	-2.017	-2.017	0	%100
15	M31	X	.768	.768	0	%100
16	M31	Z	-.444	-.444	0	%100
17	M32	X	.768	.768	0	%100
18	M32	Z	-.444	-.444	0	%100
19	M33	X	.873	.873	0	%100
20	M33	Z	-.504	-.504	0	%100
21	M32A	X	1.085	1.085	0	%100
22	M32A	Z	-.626	-.626	0	%100
23	M33A	X	2.359	2.359	0	%100
24	M33A	Z	-1.362	-1.362	0	%100
25	M34	X	2.273	2.273	0	%100
26	M34	Z	-1.312	-1.312	0	%100
27	M38	X	0	0	0	%100



	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
28	M38	Z	0	0	0	%100
29	M39A	X	1.822	1.822	0	%100
30	M39A	Z	-1.052	-1.052	0	%100
31	M44B	X	2.314	2.314	0	%100
32	M44B	Z	-1.336	-1.336	0	%100
33	M45B	X	2.314	2.314	0	%100
34	M45B	Z	-1.336	-1.336	0	%100
35	M48	X	0	0	0	%100
36	M48	Z	0	0	0	%100
37	M49	X	1.575	1.575	0	%100
38	M49	Z	-.909	-.909	0	%100
39	M32B	X	4.339	4.339	0	%100
40	M32B	Z	-2.505	-2.505	0	%100
41	M33B	X	0	0	0	%100
42	M33B	Z	0	0	0	%100
43	M34A	X	0	0	0	%100
44	M34A	Z	0	0	0	%100
45	M38A	X	1.822	1.822	0	%100
46	M38A	Z	-1.052	-1.052	0	%100
47	M39	X	1.822	1.822	0	%100
48	M39	Z	-1.052	-1.052	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	0	0	0	%100
51	M45	X	0	0	0	%100
52	M45	Z	0	0	0	%100
53	M48A	X	1.575	1.575	0	%100
54	M48A	Z	-.909	-.909	0	%100
55	M49A	X	1.575	1.575	0	%100
56	M49A	Z	-.909	-.909	0	%100
57	M52	X	1.085	1.085	0	%100
58	M52	Z	-.626	-.626	0	%100
59	M53	X	2.359	2.359	0	%100
60	M53	Z	-1.362	-1.362	0	%100
61	M54	X	2.273	2.273	0	%100
62	M54	Z	-1.312	-1.312	0	%100
63	M58	X	1.822	1.822	0	%100
64	M58	Z	-1.052	-1.052	0	%100
65	M59	X	0	0	0	%100
66	M59	Z	0	0	0	%100
67	M64	X	2.314	2.314	0	%100
68	M64	Z	-1.336	-1.336	0	%100
69	M65	X	2.314	2.314	0	%100
70	M65	Z	-1.336	-1.336	0	%100
71	M68	X	1.575	1.575	0	%100
72	M68	Z	-.909	-.909	0	%100
73	M69	X	0	0	0	%100
74	M69	Z	0	0	0	%100
75	M72	X	.777	.777	0	%100
76	M72	Z	-.449	-.449	0	%100
77	M73	X	3.108	3.108	0	%100
78	M73	Z	-1.794	-1.794	0	%100
79	M74	X	.777	.777	0	%100
80	M74	Z	-.449	-.449	0	%100
81	MP2A	X	3.066	3.066	0	%100
82	MP2A	Z	-1.77	-1.77	0	%100
83	MP3A	X	3.066	3.066	0	%100
84	MP3A	Z	-1.77	-1.77	0	%100

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

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
85	MP4A	X	3.066	3.066	0	%100
86	MP4A	Z	-1.77	-1.77	0	%100
87	MP1C	X	3.066	3.066	0	%100
88	MP1C	Z	-1.77	-1.77	0	%100
89	MP2C	X	3.066	3.066	0	%100
90	MP2C	Z	-1.77	-1.77	0	%100
91	MP3C	X	3.066	3.066	0	%100
92	MP3C	Z	-1.77	-1.77	0	%100
93	MP4C	X	3.066	3.066	0	%100
94	MP4C	Z	-1.77	-1.77	0	%100
95	MP1B	X	3.066	3.066	0	%100
96	MP1B	Z	-1.77	-1.77	0	%100
97	MP2B	X	3.066	3.066	0	%100
98	MP2B	Z	-1.77	-1.77	0	%100
99	MP3B	X	3.066	3.066	0	%100
100	MP3B	Z	-1.77	-1.77	0	%100
101	MP4B	X	3.066	3.066	0	%100
102	MP4B	Z	-1.77	-1.77	0	%100
103	M115	X	1.163	1.163	0	%100
104	M115	Z	-.672	-.672	0	%100
105	M116	X	4.652	4.652	0	%100
106	M116	Z	-2.686	-2.686	0	%100
107	M117	X	1.163	1.163	0	%100
108	M117	Z	-.672	-.672	0	%100
109	M118	X	3.252	3.252	0	%100
110	M118	Z	-1.878	-1.878	0	%100
111	M119	X	.94	.94	0	%100
112	M119	Z	-.543	-.543	0	%100
113	M120	X	3.252	3.252	0	%100
114	M120	Z	-1.878	-1.878	0	%100
115	M121	X	2.17	2.17	0	%100
116	M121	Z	-1.253	-1.253	0	%100

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

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	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	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	MP1A	X	3.54	3.54	0	%100
8	MP1A	Z	0	0	0	%100
9	M26	X	2.661	2.661	0	%100
10	M26	Z	0	0	0	%100
11	M27	X	2.661	2.661	0	%100
12	M27	Z	0	0	0	%100
13	M28	X	3.026	3.026	0	%100
14	M28	Z	0	0	0	%100
15	M31	X	2.661	2.661	0	%100
16	M31	Z	0	0	0	%100
17	M32	X	2.661	2.661	0	%100
18	M32	Z	0	0	0	%100
19	M33	X	3.026	3.026	0	%100
20	M33	Z	0	0	0	%100
21	M32A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
79	M74	X	2.692	2.692	0	%100
80	M74	Z	0	0	0	%100
81	MP2A	X	3.54	3.54	0	%100
82	MP2A	Z	0	0	0	%100
83	MP3A	X	3.54	3.54	0	%100
84	MP3A	Z	0	0	0	%100
85	MP4A	X	3.54	3.54	0	%100
86	MP4A	Z	0	0	0	%100
87	MP1C	X	3.54	3.54	0	%100
88	MP1C	Z	0	0	0	%100
89	MP2C	X	3.54	3.54	0	%100
90	MP2C	Z	0	0	0	%100
91	MP3C	X	3.54	3.54	0	%100
92	MP3C	Z	0	0	0	%100
93	MP4C	X	3.54	3.54	0	%100
94	MP4C	Z	0	0	0	%100
95	MP1B	X	3.54	3.54	0	%100
96	MP1B	Z	0	0	0	%100
97	MP2B	X	3.54	3.54	0	%100
98	MP2B	Z	0	0	0	%100
99	MP3B	X	3.54	3.54	0	%100
100	MP3B	Z	0	0	0	%100
101	MP4B	X	3.54	3.54	0	%100
102	MP4B	Z	0	0	0	%100
103	M115	X	0	0	0	%100
104	M115	Z	0	0	0	%100
105	M116	X	4.029	4.029	0	%100
106	M116	Z	0	0	0	%100
107	M117	X	4.029	4.029	0	%100
108	M117	Z	0	0	0	%100
109	M118	X	4.645	4.645	0	%100
110	M118	Z	0	0	0	%100
111	M119	X	1.975	1.975	0	%100
112	M119	Z	0	0	0	%100
113	M120	X	1.975	1.975	0	%100
114	M120	Z	0	0	0	%100
115	M121	X	2.506	2.506	0	%100
116	M121	Z	0	0	0	%100

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

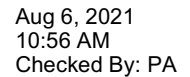
	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.768	.768	0	%100
2	M1	Z	.444	.444	0	%100
3	M3	X	.768	.768	0	%100
4	M3	Z	.444	.444	0	%100
5	M5	X	.873	.873	0	%100
6	M5	Z	.504	.504	0	%100
7	MP1A	X	3.066	3.066	0	%100
8	MP1A	Z	1.77	1.77	0	%100
9	M26	X	.768	.768	0	%100
10	M26	Z	.444	.444	0	%100
11	M27	X	.768	.768	0	%100
12	M27	Z	.444	.444	0	%100
13	M28	X	.873	.873	0	%100
14	M28	Z	.504	.504	0	%100
15	M31	X	3.073	3.073	0	%100

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

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
73	M69	X	1.575	1.575	0	%100
74	M69	Z	.909	.909	0	%100
75	M72	X	.777	.777	0	%100
76	M72	Z	.449	.449	0	%100
77	M73	X	.777	.777	0	%100
78	M73	Z	.449	.449	0	%100
79	M74	X	3.108	3.108	0	%100
80	M74	Z	1.794	1.794	0	%100
81	MP2A	X	3.066	3.066	0	%100
82	MP2A	Z	1.77	1.77	0	%100
83	MP3A	X	3.066	3.066	0	%100
84	MP3A	Z	1.77	1.77	0	%100
85	MP4A	X	3.066	3.066	0	%100
86	MP4A	Z	1.77	1.77	0	%100
87	MP1C	X	3.066	3.066	0	%100
88	MP1C	Z	1.77	1.77	0	%100
89	MP2C	X	3.066	3.066	0	%100
90	MP2C	Z	1.77	1.77	0	%100
91	MP3C	X	3.066	3.066	0	%100
92	MP3C	Z	1.77	1.77	0	%100
93	MP4C	X	3.066	3.066	0	%100
94	MP4C	Z	1.77	1.77	0	%100
95	MP1B	X	3.066	3.066	0	%100
96	MP1B	Z	1.77	1.77	0	%100
97	MP2B	X	3.066	3.066	0	%100
98	MP2B	Z	1.77	1.77	0	%100
99	MP3B	X	3.066	3.066	0	%100
100	MP3B	Z	1.77	1.77	0	%100
101	MP4B	X	3.066	3.066	0	%100
102	MP4B	Z	1.77	1.77	0	%100
103	M115	X	1.163	1.163	0	%100
104	M115	Z	.672	.672	0	%100
105	M116	X	1.163	1.163	0	%100
106	M116	Z	.672	.672	0	%100
107	M117	X	4.652	4.652	0	%100
108	M117	Z	2.686	2.686	0	%100
109	M118	X	3.252	3.252	0	%100
110	M118	Z	1.878	1.878	0	%100
111	M119	X	3.252	3.252	0	%100
112	M119	Z	1.878	1.878	0	%100
113	M120	X	.94	.94	0	%100
114	M120	Z	.543	.543	0	%100
115	M121	X	2.17	2.17	0	%100
116	M121	Z	1.253	1.253	0	%100

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

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.331	1.331	0	%100
2	M1	Z	2.305	2.305	0	%100
3	M3	X	1.331	1.331	0	%100
4	M3	Z	2.305	2.305	0	%100
5	M5	X	1.513	1.513	0	%100
6	M5	Z	2.62	2.62	0	%100
7	MP1A	X	1.77	1.77	0	%100
8	MP1A	Z	3.066	3.066	0	%100
9	M26	X	0	0	0	%100



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

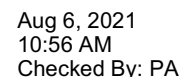
	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
4	M3	Z	3.549	3.549	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	4.034	4.034	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	3.54	3.54	0	%100
9	M26	X	0	0	0	%100
10	M26	Z	.887	.887	0	%100
11	M27	X	0	0	0	%100
12	M27	Z	.887	.887	0	%100
13	M28	X	0	0	0	%100
14	M28	Z	1.009	1.009	0	%100
15	M31	X	0	0	0	%100
16	M31	Z	.887	.887	0	%100
17	M32	X	0	0	0	%100
18	M32	Z	.887	.887	0	%100
19	M33	X	0	0	0	%100
20	M33	Z	1.009	1.009	0	%100
21	M32A	X	0	0	0	%100
22	M32A	Z	5.011	5.011	0	%100
23	M33A	X	0	0	0	%100
24	M33A	Z	0	0	0	%100
25	M34	X	0	0	0	%100
26	M34	Z	0	0	0	%100
27	M38	X	0	0	0	%100
28	M38	Z	2.104	2.104	0	%100
29	M39A	X	0	0	0	%100
30	M39A	Z	2.104	2.104	0	%100
31	M44B	X	0	0	0	%100
32	M44B	Z	0	0	0	%100
33	M45B	X	0	0	0	%100
34	M45B	Z	0	0	0	%100
35	M48	X	0	0	0	%100
36	M48	Z	1.819	1.819	0	%100
37	M49	X	0	0	0	%100
38	M49	Z	1.819	1.819	0	%100
39	M32B	X	0	0	0	%100
40	M32B	Z	1.253	1.253	0	%100
41	M33B	X	0	0	0	%100
42	M33B	Z	2.724	2.724	0	%100
43	M34A	X	0	0	0	%100
44	M34A	Z	2.624	2.624	0	%100
45	M38A	X	0	0	0	%100
46	M38A	Z	2.104	2.104	0	%100
47	M39	X	0	0	0	%100
48	M39	Z	0	0	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	2.672	2.672	0	%100
51	M45	X	0	0	0	%100
52	M45	Z	2.672	2.672	0	%100
53	M48A	X	0	0	0	%100
54	M48A	Z	1.819	1.819	0	%100
55	M49A	X	0	0	0	%100
56	M49A	Z	0	0	0	%100
57	M52	X	0	0	0	%100
58	M52	Z	1.253	1.253	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	2.724	2.724	0	%100

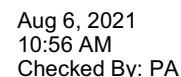
Member Distributed Loads (BLC 59 : Structure Wi (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
61	M54	X	0	0	0	%100
62	M54	Z	2.624	2.624	0	%100
63	M58	X	0	0	0	%100
64	M58	Z	0	0	0	%100
65	M59	X	0	0	0	%100
66	M59	Z	2.104	2.104	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	2.672	2.672	0	%100
69	M65	X	0	0	0	%100
70	M65	Z	2.672	2.672	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	0	0	0	%100
73	M69	X	0	0	0	%100
74	M69	Z	1.819	1.819	0	%100
75	M72	X	0	0	0	%100
76	M72	Z	3.589	3.589	0	%100
77	M73	X	0	0	0	%100
78	M73	Z	.897	.897	0	%100
79	M74	X	0	0	0	%100
80	M74	Z	.897	.897	0	%100
81	MP2A	X	0	0	0	%100
82	MP2A	Z	3.54	3.54	0	%100
83	MP3A	X	0	0	0	%100
84	MP3A	Z	3.54	3.54	0	%100
85	MP4A	X	0	0	0	%100
86	MP4A	Z	3.54	3.54	0	%100
87	MP1C	X	0	0	0	%100
88	MP1C	Z	3.54	3.54	0	%100
89	MP2C	X	0	0	0	%100
90	MP2C	Z	3.54	3.54	0	%100
91	MP3C	X	0	0	0	%100
92	MP3C	Z	3.54	3.54	0	%100
93	MP4C	X	0	0	0	%100
94	MP4C	Z	3.54	3.54	0	%100
95	MP1B	X	0	0	0	%100
96	MP1B	Z	3.54	3.54	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	3.54	3.54	0	%100
99	MP3B	X	0	0	0	%100
100	MP3B	Z	3.54	3.54	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	3.54	3.54	0	%100
103	M115	X	0	0	0	%100
104	M115	Z	5.372	5.372	0	%100
105	M116	X	0	0	0	%100
106	M116	Z	1.343	1.343	0	%100
107	M117	X	0	0	0	%100
108	M117	Z	1.343	1.343	0	%100
109	M118	X	0	0	0	%100
110	M118	Z	1.085	1.085	0	%100
111	M119	X	0	0	0	%100
112	M119	Z	3.755	3.755	0	%100
113	M120	X	0	0	0	%100
114	M120	Z	3.755	3.755	0	%100
115	M121	X	0	0	0	%100
116	M121	Z	2.506	2.506	0	%100

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

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.331	-1.331	0	%100
2	M1	Z	2.305	2.305	0	%100
3	M3	X	-1.331	-1.331	0	%100
4	M3	Z	2.305	2.305	0	%100
5	M5	X	-1.513	-1.513	0	%100
6	M5	Z	2.62	2.62	0	%100
7	MP1A	X	-1.77	-1.77	0	%100
8	MP1A	Z	3.066	3.066	0	%100
9	M26	X	-1.331	-1.331	0	%100
10	M26	Z	2.305	2.305	0	%100
11	M27	X	-1.331	-1.331	0	%100
12	M27	Z	2.305	2.305	0	%100
13	M28	X	-1.513	-1.513	0	%100
14	M28	Z	2.62	2.62	0	%100
15	M31	X	0	0	0	%100
16	M31	Z	0	0	0	%100
17	M32	X	0	0	0	%100
18	M32	Z	0	0	0	%100
19	M33	X	0	0	0	%100
20	M33	Z	0	0	0	%100
21	M32A	X	-1.879	-1.879	0	%100
22	M32A	Z	3.254	3.254	0	%100
23	M33A	X	-.454	-.454	0	%100
24	M33A	Z	.786	.786	0	%100
25	M34	X	-.437	-.437	0	%100
26	M34	Z	.758	.758	0	%100
27	M38	X	-.351	-.351	0	%100
28	M38	Z	.607	.607	0	%100
29	M39A	X	-1.403	-1.403	0	%100
30	M39A	Z	2.43	2.43	0	%100
31	M44B	X	-.445	-.445	0	%100
32	M44B	Z	.771	.771	0	%100
33	M45B	X	-.445	-.445	0	%100
34	M45B	Z	.771	.771	0	%100
35	M48	X	-.303	-.303	0	%100
36	M48	Z	.525	.525	0	%100
37	M49	X	-1.212	-1.212	0	%100
38	M49	Z	2.1	2.1	0	%100
39	M32B	X	-1.879	-1.879	0	%100
40	M32B	Z	3.254	3.254	0	%100
41	M33B	X	-.454	-.454	0	%100
42	M33B	Z	.786	.786	0	%100
43	M34A	X	-.437	-.437	0	%100
44	M34A	Z	.758	.758	0	%100
45	M38A	X	-1.403	-1.403	0	%100
46	M38A	Z	2.43	2.43	0	%100
47	M39	X	-.351	-.351	0	%100
48	M39	Z	.607	.607	0	%100
49	M44	X	-.445	-.445	0	%100
50	M44	Z	.771	.771	0	%100
51	M45	X	-.445	-.445	0	%100
52	M45	Z	.771	.771	0	%100
53	M48A	X	-1.212	-1.212	0	%100
54	M48A	Z	2.1	2.1	0	%100
55	M49A	X	-.303	-.303	0	%100
56	M49A	Z	.525	.525	0	%100
57	M52	X	0	0	0	%100

Page 128



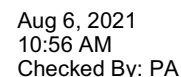
	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
52	M45	Z	0	0	0	%100
53	M48A	X	-1.575	-1.575	0	%100
54	M48A	Z	.909	.909	0	%100
55	M49A	X	-1.575	-1.575	0	%100
56	M49A	Z	.909	.909	0	%100
57	M52	X	-1.085	-1.085	0	%100
58	M52	Z	.626	.626	0	%100
59	M53	X	-2.359	-2.359	0	%100
60	M53	Z	1.362	1.362	0	%100
61	M54	X	-2.273	-2.273	0	%100
62	M54	Z	1.312	1.312	0	%100
63	M58	X	-1.822	-1.822	0	%100
64	M58	Z	1.052	1.052	0	%100
65	M59	X	0	0	0	%100
66	M59	Z	0	0	0	%100
67	M64	X	-2.314	-2.314	0	%100
68	M64	Z	1.336	1.336	0	%100
69	M65	X	-2.314	-2.314	0	%100
70	M65	Z	1.336	1.336	0	%100
71	M68	X	-1.575	-1.575	0	%100
72	M68	Z	.909	.909	0	%100
73	M69	X	0	0	0	%100
74	M69	Z	0	0	0	%100
75	M72	X	-.777	-.777	0	%100
76	M72	Z	.449	.449	0	%100
77	M73	X	-3.108	-3.108	0	%100
78	M73	Z	1.794	1.794	0	%100
79	M74	X	-.777	-.777	0	%100
80	M74	Z	.449	.449	0	%100
81	MP2A	X	-3.066	-3.066	0	%100
82	MP2A	Z	1.77	1.77	0	%100
83	MP3A	X	-3.066	-3.066	0	%100
84	MP3A	Z	1.77	1.77	0	%100
85	MP4A	X	-3.066	-3.066	0	%100
86	MP4A	Z	1.77	1.77	0	%100
87	MP1C	X	-3.066	-3.066	0	%100
88	MP1C	Z	1.77	1.77	0	%100
89	MP2C	X	-3.066	-3.066	0	%100
90	MP2C	Z	1.77	1.77	0	%100
91	MP3C	X	-3.066	-3.066	0	%100
92	MP3C	Z	1.77	1.77	0	%100
93	MP4C	X	-3.066	-3.066	0	%100
94	MP4C	Z	1.77	1.77	0	%100
95	MP1B	X	-3.066	-3.066	0	%100
96	MP1B	Z	1.77	1.77	0	%100
97	MP2B	X	-3.066	-3.066	0	%100
98	MP2B	Z	1.77	1.77	0	%100
99	MP3B	X	-3.066	-3.066	0	%100
100	MP3B	Z	1.77	1.77	0	%100
101	MP4B	X	-3.066	-3.066	0	%100
102	MP4B	Z	1.77	1.77	0	%100
103	M115	X	-1.163	-1.163	0	%100
104	M115	Z	.672	.672	0	%100
105	M116	X	-4.652	-4.652	0	%100
106	M116	Z	2.686	2.686	0	%100
107	M117	X	-1.163	-1.163	0	%100
108	M117	Z	.672	.672	0	%100

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

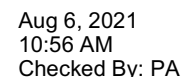
	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
109	M118	X	-3.252	-3.252	0	%100
110	M118	Z	1.878	1.878	0	%100
111	M119	X	-.94	-.94	0	%100
112	M119	Z	.543	.543	0	%100
113	M120	X	-3.252	-3.252	0	%100
114	M120	Z	1.878	1.878	0	%100
115	M121	X	-2.17	-2.17	0	%100
116	M121	Z	1.253	1.253	0	%100

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

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	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	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	MP1A	X	-3.54	-3.54	0	%100
8	MP1A	Z	0	0	0	%100
9	M26	X	-2.661	-2.661	0	%100
10	M26	Z	0	0	0	%100
11	M27	X	-2.661	-2.661	0	%100
12	M27	Z	0	0	0	%100
13	M28	X	-3.026	-3.026	0	%100
14	M28	Z	0	0	0	%100
15	M31	X	-2.661	-2.661	0	%100
16	M31	Z	0	0	0	%100
17	M32	X	-2.661	-2.661	0	%100
18	M32	Z	0	0	0	%100
19	M33	X	-3.026	-3.026	0	%100
20	M33	Z	0	0	0	%100
21	M32A	X	0	0	0	%100
22	M32A	Z	0	0	0	%100
23	M33A	X	-3.632	-3.632	0	%100
24	M33A	Z	0	0	0	%100
25	M34	X	-3.499	-3.499	0	%100
26	M34	Z	0	0	0	%100
27	M38	X	-.701	-.701	0	%100
28	M38	Z	0	0	0	%100
29	M39A	X	-.701	-.701	0	%100
30	M39A	Z	0	0	0	%100
31	M44B	X	-3.563	-3.563	0	%100
32	M44B	Z	0	0	0	%100
33	M45B	X	-3.563	-3.563	0	%100
34	M45B	Z	0	0	0	%100
35	M48	X	-.606	-.606	0	%100
36	M48	Z	0	0	0	%100
37	M49	X	-.606	-.606	0	%100
38	M49	Z	0	0	0	%100
39	M32B	X	-3.758	-3.758	0	%100
40	M32B	Z	0	0	0	%100
41	M33B	X	-.908	-.908	0	%100
42	M33B	Z	0	0	0	%100
43	M34A	X	-.875	-.875	0	%100
44	M34A	Z	0	0	0	%100
45	M38A	X	-.701	-.701	0	%100



	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
46	M38A	Z	0	0	0	%100
47	M39	X	-2.806	-2.806	0	%100
48	M39	Z	0	0	0	%100
49	M44	X	-.891	-.891	0	%100
50	M44	Z	0	0	0	%100
51	M45	X	-.891	-.891	0	%100
52	M45	Z	0	0	0	%100
53	M48A	X	-.606	-.606	0	%100
54	M48A	Z	0	0	0	%100
55	M49A	X	-2.425	-2.425	0	%100
56	M49A	Z	0	0	0	%100
57	M52	X	-3.758	-3.758	0	%100
58	M52	Z	0	0	0	%100
59	M53	X	-.908	-.908	0	%100
60	M53	Z	0	0	0	%100
61	M54	X	-.875	-.875	0	%100
62	M54	Z	0	0	0	%100
63	M58	X	-2.806	-2.806	0	%100
64	M58	Z	0	0	0	%100
65	M59	X	-.701	-.701	0	%100
66	M59	Z	0	0	0	%100
67	M64	X	-.891	-.891	0	%100
68	M64	Z	0	0	0	%100
69	M65	X	-.891	-.891	0	%100
70	M65	Z	0	0	0	%100
71	M68	X	-2.425	-2.425	0	%100
72	M68	Z	0	0	0	%100
73	M69	X	-.606	-.606	0	%100
74	M69	Z	0	0	0	%100
75	M72	X	0	0	0	%100
76	M72	Z	0	0	0	%100
77	M73	X	-2.692	-2.692	0	%100
78	M73	Z	0	0	0	%100
79	M74	X	-2.692	-2.692	0	%100
80	M74	Z	0	0	0	%100
81	MP2A	X	-3.54	-3.54	0	%100
82	MP2A	Z	0	0	0	%100
83	MP3A	X	-3.54	-3.54	0	%100
84	MP3A	Z	0	0	0	%100
85	MP4A	X	-3.54	-3.54	0	%100
86	MP4A	Z	0	0	0	%100
87	MP1C	X	-3.54	-3.54	0	%100
88	MP1C	Z	0	0	0	%100
89	MP2C	X	-3.54	-3.54	0	%100
90	MP2C	Z	0	0	0	%100
91	MP3C	X	-3.54	-3.54	0	%100
92	MP3C	Z	0	0	0	%100
93	MP4C	X	-3.54	-3.54	0	%100
94	MP4C	Z	0	0	0	%100
95	MP1B	X	-3.54	-3.54	0	%100
96	MP1B	Z	0	0	0	%100
97	MP2B	X	-3.54	-3.54	0	%100
98	MP2B	Z	0	0	0	%100
99	MP3B	X	-3.54	-3.54	0	%100
100	MP3B	Z	0	0	0	%100
101	MP4B	X	-3.54	-3.54	0	%100
102	MP4B	Z	0	0	0	%100



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

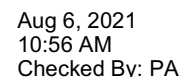
	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
40	M32B	Z	-0.626	-0.626	0	%100
41	M33B	X	-2.359	-2.359	0	%100
42	M33B	Z	-1.362	-1.362	0	%100
43	M34A	X	-2.273	-2.273	0	%100
44	M34A	Z	-1.312	-1.312	0	%100
45	M38A	X	0	0	0	%100
46	M38A	Z	0	0	0	%100
47	M39	X	-1.822	-1.822	0	%100
48	M39	Z	-1.052	-1.052	0	%100
49	M44	X	-2.314	-2.314	0	%100
50	M44	Z	-1.336	-1.336	0	%100
51	M45	X	-2.314	-2.314	0	%100
52	M45	Z	-1.336	-1.336	0	%100
53	M48A	X	0	0	0	%100
54	M48A	Z	0	0	0	%100
55	M49A	X	-1.575	-1.575	0	%100
56	M49A	Z	-0.909	-0.909	0	%100
57	M52	X	-4.339	-4.339	0	%100
58	M52	Z	-2.505	-2.505	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	0	0	0	%100
61	M54	X	0	0	0	%100
62	M54	Z	0	0	0	%100
63	M58	X	-1.822	-1.822	0	%100
64	M58	Z	-1.052	-1.052	0	%100
65	M59	X	-1.822	-1.822	0	%100
66	M59	Z	-1.052	-1.052	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	0	0	0	%100
69	M65	X	0	0	0	%100
70	M65	Z	0	0	0	%100
71	M68	X	-1.575	-1.575	0	%100
72	M68	Z	-0.909	-0.909	0	%100
73	M69	X	-1.575	-1.575	0	%100
74	M69	Z	-0.909	-0.909	0	%100
75	M72	X	-0.777	-0.777	0	%100
76	M72	Z	-0.449	-0.449	0	%100
77	M73	X	-0.777	-0.777	0	%100
78	M73	Z	-0.449	-0.449	0	%100
79	M74	X	-3.108	-3.108	0	%100
80	M74	Z	-1.794	-1.794	0	%100
81	MP2A	X	-3.066	-3.066	0	%100
82	MP2A	Z	-1.77	-1.77	0	%100
83	MP3A	X	-3.066	-3.066	0	%100
84	MP3A	Z	-1.77	-1.77	0	%100
85	MP4A	X	-3.066	-3.066	0	%100
86	MP4A	Z	-1.77	-1.77	0	%100
87	MP1C	X	-3.066	-3.066	0	%100
88	MP1C	Z	-1.77	-1.77	0	%100
89	MP2C	X	-3.066	-3.066	0	%100
90	MP2C	Z	-1.77	-1.77	0	%100
91	MP3C	X	-3.066	-3.066	0	%100
92	MP3C	Z	-1.77	-1.77	0	%100
93	MP4C	X	-3.066	-3.066	0	%100
94	MP4C	Z	-1.77	-1.77	0	%100
95	MP1B	X	-3.066	-3.066	0	%100
96	MP1B	Z	-1.77	-1.77	0	%100

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

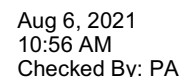
	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
97	MP2B	X	-3.066	-3.066	0	%100
98	MP2B	Z	-1.77	-1.77	0	%100
99	MP3B	X	-3.066	-3.066	0	%100
100	MP3B	Z	-1.77	-1.77	0	%100
101	MP4B	X	-3.066	-3.066	0	%100
102	MP4B	Z	-1.77	-1.77	0	%100
103	M115	X	-1.163	-1.163	0	%100
104	M115	Z	-.672	-.672	0	%100
105	M116	X	-1.163	-1.163	0	%100
106	M116	Z	-.672	-.672	0	%100
107	M117	X	-4.652	-4.652	0	%100
108	M117	Z	-2.686	-2.686	0	%100
109	M118	X	-3.252	-3.252	0	%100
110	M118	Z	-1.878	-1.878	0	%100
111	M119	X	-3.252	-3.252	0	%100
112	M119	Z	-1.878	-1.878	0	%100
113	M120	X	-.94	-.94	0	%100
114	M120	Z	-.543	-.543	0	%100
115	M121	X	-2.17	-2.17	0	%100
116	M121	Z	-1.253	-1.253	0	%100

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

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.331	-1.331	0	%100
2	M1	Z	-2.305	-2.305	0	%100
3	M3	X	-1.331	-1.331	0	%100
4	M3	Z	-2.305	-2.305	0	%100
5	M5	X	-1.513	-1.513	0	%100
6	M5	Z	-2.62	-2.62	0	%100
7	MP1A	X	-1.77	-1.77	0	%100
8	MP1A	Z	-3.066	-3.066	0	%100
9	M26	X	0	0	0	%100
10	M26	Z	0	0	0	%100
11	M27	X	0	0	0	%100
12	M27	Z	0	0	0	%100
13	M28	X	0	0	0	%100
14	M28	Z	0	0	0	%100
15	M31	X	-1.331	-1.331	0	%100
16	M31	Z	-2.305	-2.305	0	%100
17	M32	X	-1.331	-1.331	0	%100
18	M32	Z	-2.305	-2.305	0	%100
19	M33	X	-1.513	-1.513	0	%100
20	M33	Z	-2.62	-2.62	0	%100
21	M32A	X	-1.879	-1.879	0	%100
22	M32A	Z	-3.254	-3.254	0	%100
23	M33A	X	-.454	-.454	0	%100
24	M33A	Z	-.786	-.786	0	%100
25	M34	X	-.437	-.437	0	%100
26	M34	Z	-.758	-.758	0	%100
27	M38	X	-1.403	-1.403	0	%100
28	M38	Z	-2.43	-2.43	0	%100
29	M39A	X	-.351	-.351	0	%100
30	M39A	Z	-.607	-.607	0	%100
31	M44B	X	-.445	-.445	0	%100
32	M44B	Z	-.771	-.771	0	%100
33	M45B	X	-.445	-.445	0	%100



	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
34	M45B	Z	-771	-771	0	%100
35	M48	X	-1.212	-1.212	0	%100
36	M48	Z	-2.1	-2.1	0	%100
37	M49	X	-303	-303	0	%100
38	M49	Z	-525	-525	0	%100
39	M32B	X	0	0	0	%100
40	M32B	Z	0	0	0	%100
41	M33B	X	-1.816	-1.816	0	%100
42	M33B	Z	-3.145	-3.145	0	%100
43	M34A	X	-1.75	-1.75	0	%100
44	M34A	Z	-3.03	-3.03	0	%100
45	M38A	X	-351	-351	0	%100
46	M38A	Z	-607	-607	0	%100
47	M39	X	-351	-351	0	%100
48	M39	Z	-607	-607	0	%100
49	M44	X	-1.781	-1.781	0	%100
50	M44	Z	-3.085	-3.085	0	%100
51	M45	X	-1.781	-1.781	0	%100
52	M45	Z	-3.085	-3.085	0	%100
53	M48A	X	-303	-303	0	%100
54	M48A	Z	-525	-525	0	%100
55	M49A	X	-303	-303	0	%100
56	M49A	Z	-525	-525	0	%100
57	M52	X	-1.879	-1.879	0	%100
58	M52	Z	-3.254	-3.254	0	%100
59	M53	X	-454	-454	0	%100
60	M53	Z	-786	-786	0	%100
61	M54	X	-437	-437	0	%100
62	M54	Z	-758	-758	0	%100
63	M58	X	-351	-351	0	%100
64	M58	Z	-607	-607	0	%100
65	M59	X	-1.403	-1.403	0	%100
66	M59	Z	-2.43	-2.43	0	%100
67	M64	X	-445	-445	0	%100
68	M64	Z	-771	-771	0	%100
69	M65	X	-445	-445	0	%100
70	M65	Z	-771	-771	0	%100
71	M68	X	-303	-303	0	%100
72	M68	Z	-525	-525	0	%100
73	M69	X	-1.212	-1.212	0	%100
74	M69	Z	-2.1	-2.1	0	%100
75	M72	X	-1.346	-1.346	0	%100
76	M72	Z	-2.331	-2.331	0	%100
77	M73	X	0	0	0	%100
78	M73	Z	0	0	0	%100
79	M74	X	-1.346	-1.346	0	%100
80	M74	Z	-2.331	-2.331	0	%100
81	MP2A	X	-1.77	-1.77	0	%100
82	MP2A	Z	-3.066	-3.066	0	%100
83	MP3A	X	-1.77	-1.77	0	%100
84	MP3A	Z	-3.066	-3.066	0	%100
85	MP4A	X	-1.77	-1.77	0	%100
86	MP4A	Z	-3.066	-3.066	0	%100
87	MP1C	X	-1.77	-1.77	0	%100
88	MP1C	Z	-3.066	-3.066	0	%100
89	MP2C	X	-1.77	-1.77	0	%100
90	MP2C	Z	-3.066	-3.066	0	%100

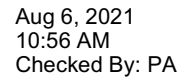


Member Distributed Loads (BLC 65 : Structure Wm (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
85	MP4A	X	0	0	0	%100
86	MP4A	Z	-.521	-.521	0	%100
87	MP1C	X	0	0	0	%100
88	MP1C	Z	-.521	-.521	0	%100
89	MP2C	X	0	0	0	%100
90	MP2C	Z	-.521	-.521	0	%100
91	MP3C	X	0	0	0	%100
92	MP3C	Z	-.521	-.521	0	%100
93	MP4C	X	0	0	0	%100
94	MP4C	Z	-.521	-.521	0	%100
95	MP1B	X	0	0	0	%100
96	MP1B	Z	-.521	-.521	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	-.521	-.521	0	%100
99	MP3B	X	0	0	0	%100
100	MP3B	Z	-.521	-.521	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	-.521	-.521	0	%100
103	M115	X	0	0	0	%100
104	M115	Z	-1.412	-1.412	0	%100
105	M116	X	0	0	0	%100
106	M116	Z	-.353	-.353	0	%100
107	M117	X	0	0	0	%100
108	M117	Z	-.353	-.353	0	%100
109	M118	X	0	0	0	%100
110	M118	Z	-.268	-.268	0	%100
111	M119	X	0	0	0	%100
112	M119	Z	-.753	-.753	0	%100
113	M120	X	0	0	0	%100
114	M120	Z	-.753	-.753	0	%100
115	M121	X	0	0	0	%100
116	M121	Z	-.356	-.356	0	%100

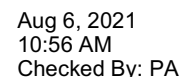
Member Distributed Loads (BLC 66 : Structure Wm (30 Deg))

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.239	.239	0	%100
2	M1	Z	-.414	-.414	0	%100
3	M3	X	.239	.239	0	%100
4	M3	Z	-.414	-.414	0	%100
5	M5	X	.272	.272	0	%100
6	M5	Z	-.471	-.471	0	%100
7	MP1A	X	.261	.261	0	%100
8	MP1A	Z	-.451	-.451	0	%100
9	M26	X	.239	.239	0	%100
10	M26	Z	-.414	-.414	0	%100
11	M27	X	.239	.239	0	%100
12	M27	Z	-.414	-.414	0	%100
13	M28	X	.272	.272	0	%100
14	M28	Z	-.471	-.471	0	%100
15	M31	X	0	0	0	%100
16	M31	Z	0	0	0	%100
17	M32	X	0	0	0	%100
18	M32	Z	0	0	0	%100
19	M33	X	0	0	0	%100
20	M33	Z	0	0	0	%100
21	M32A	X	.497	.497	0	%100

Page 140

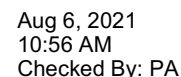
Member Distributed Loads (BLC 67 : Structure Wm (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
16	M31	Z	-.08	-.08	0	%100
17	M32	X	.138	.138	0	%100
18	M32	Z	-.08	-.08	0	%100
19	M33	X	.157	.157	0	%100
20	M33	Z	-.091	-.091	0	%100
21	M32A	X	.287	.287	0	%100
22	M32A	Z	-.166	-.166	0	%100
23	M33A	X	.416	.416	0	%100
24	M33A	Z	-.24	-.24	0	%100
25	M34	X	.402	.402	0	%100
26	M34	Z	-.232	-.232	0	%100
27	M38	X	0	0	0	%100
28	M38	Z	0	0	0	%100
29	M39A	X	.293	.293	0	%100
30	M39A	Z	-.169	-.169	0	%100
31	M44B	X	.477	.477	0	%100
32	M44B	Z	-.275	-.275	0	%100
33	M45B	X	.477	.477	0	%100
34	M45B	Z	-.275	-.275	0	%100
35	M48	X	0	0	0	%100
36	M48	Z	0	0	0	%100
37	M49	X	.251	.251	0	%100
38	M49	Z	-.145	-.145	0	%100
39	M32B	X	1.147	1.147	0	%100
40	M32B	Z	-.662	-.662	0	%100
41	M33B	X	0	0	0	%100
42	M33B	Z	0	0	0	%100
43	M34A	X	0	0	0	%100
44	M34A	Z	0	0	0	%100
45	M38A	X	.293	.293	0	%100
46	M38A	Z	-.169	-.169	0	%100
47	M39	X	.293	.293	0	%100
48	M39	Z	-.169	-.169	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	0	0	0	%100
51	M45	X	0	0	0	%100
52	M45	Z	0	0	0	%100
53	M48A	X	.251	.251	0	%100
54	M48A	Z	-.145	-.145	0	%100
55	M49A	X	.251	.251	0	%100
56	M49A	Z	-.145	-.145	0	%100
57	M52	X	.287	.287	0	%100
58	M52	Z	-.166	-.166	0	%100
59	M53	X	.416	.416	0	%100
60	M53	Z	-.24	-.24	0	%100
61	M54	X	.402	.402	0	%100
62	M54	Z	-.232	-.232	0	%100
63	M58	X	.293	.293	0	%100
64	M58	Z	-.169	-.169	0	%100
65	M59	X	0	0	0	%100
66	M59	Z	0	0	0	%100
67	M64	X	.477	.477	0	%100
68	M64	Z	-.275	-.275	0	%100
69	M65	X	.477	.477	0	%100
70	M65	Z	-.275	-.275	0	%100
71	M68	X	.251	.251	0	%100
72	M68	Z	-.145	-.145	0	%100

Page 142

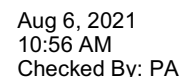
Member Distributed Loads (BLC 68 : Structure Wm (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
10	M26	Z	0	0	0	%100
11	M27	X	.479	.479	0	%100
12	M27	Z	0	0	0	%100
13	M28	X	.544	.544	0	%100
14	M28	Z	0	0	0	%100
15	M31	X	.479	.479	0	%100
16	M31	Z	0	0	0	%100
17	M32	X	.479	.479	0	%100
18	M32	Z	0	0	0	%100
19	M33	X	.544	.544	0	%100
20	M33	Z	0	0	0	%100
21	M32A	X	0	0	0	%100
22	M32A	Z	0	0	0	%100
23	M33A	X	.64	.64	0	%100
24	M33A	Z	0	0	0	%100
25	M34	X	.618	.618	0	%100
26	M34	Z	0	0	0	%100
27	M38	X	.113	.113	0	%100
28	M38	Z	0	0	0	%100
29	M39A	X	.113	.113	0	%100
30	M39A	Z	0	0	0	%100
31	M44B	X	.735	.735	0	%100
32	M44B	Z	0	0	0	%100
33	M45B	X	.735	.735	0	%100
34	M45B	Z	0	0	0	%100
35	M48	X	.096	.096	0	%100
36	M48	Z	0	0	0	%100
37	M49	X	.096	.096	0	%100
38	M49	Z	0	0	0	%100
39	M32B	X	.994	.994	0	%100
40	M32B	Z	0	0	0	%100
41	M33B	X	.16	.16	0	%100
42	M33B	Z	0	0	0	%100
43	M34A	X	.155	.155	0	%100
44	M34A	Z	0	0	0	%100
45	M38A	X	.113	.113	0	%100
46	M38A	Z	0	0	0	%100
47	M39	X	.451	.451	0	%100
48	M39	Z	0	0	0	%100
49	M44	X	.184	.184	0	%100
50	M44	Z	0	0	0	%100
51	M45	X	.184	.184	0	%100
52	M45	Z	0	0	0	%100
53	M48A	X	.096	.096	0	%100
54	M48A	Z	0	0	0	%100
55	M49A	X	.386	.386	0	%100
56	M49A	Z	0	0	0	%100
57	M52	X	.994	.994	0	%100
58	M52	Z	0	0	0	%100
59	M53	X	.16	.16	0	%100
60	M53	Z	0	0	0	%100
61	M54	X	.155	.155	0	%100
62	M54	Z	0	0	0	%100
63	M58	X	.451	.451	0	%100
64	M58	Z	0	0	0	%100
65	M59	X	.113	.113	0	%100
66	M59	Z	0	0	0	%100

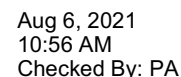


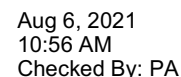
Member Distributed Loads (BLC 69 : Structure Wm (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
4	M3	Z	.08	.08	0	%100
5	M5	X	.157	.157	0	%100
6	M5	Z	.091	.091	0	%100
7	MP1A	X	.451	.451	0	%100
8	MP1A	Z	.261	.261	0	%100
9	M26	X	.138	.138	0	%100
10	M26	Z	.08	.08	0	%100
11	M27	X	.138	.138	0	%100
12	M27	Z	.08	.08	0	%100
13	M28	X	.157	.157	0	%100
14	M28	Z	.091	.091	0	%100
15	M31	X	.553	.553	0	%100
16	M31	Z	.319	.319	0	%100
17	M32	X	.553	.553	0	%100
18	M32	Z	.319	.319	0	%100
19	M33	X	.628	.628	0	%100
20	M33	Z	.363	.363	0	%100
21	M32A	X	.287	.287	0	%100
22	M32A	Z	.166	.166	0	%100
23	M33A	X	.416	.416	0	%100
24	M33A	Z	.24	.24	0	%100
25	M34	X	.402	.402	0	%100
26	M34	Z	.232	.232	0	%100
27	M38	X	.293	.293	0	%100
28	M38	Z	.169	.169	0	%100
29	M39A	X	0	0	0	%100
30	M39A	Z	0	0	0	%100
31	M44B	X	.477	.477	0	%100
32	M44B	Z	.275	.275	0	%100
33	M45B	X	.477	.477	0	%100
34	M45B	Z	.275	.275	0	%100
35	M48	X	.251	.251	0	%100
36	M48	Z	.145	.145	0	%100
37	M49	X	0	0	0	%100
38	M49	Z	0	0	0	%100
39	M32B	X	.287	.287	0	%100
40	M32B	Z	.166	.166	0	%100
41	M33B	X	.416	.416	0	%100
42	M33B	Z	.24	.24	0	%100
43	M34A	X	.402	.402	0	%100
44	M34A	Z	.232	.232	0	%100
45	M38A	X	0	0	0	%100
46	M38A	Z	0	0	0	%100
47	M39	X	.293	.293	0	%100
48	M39	Z	.169	.169	0	%100
49	M44	X	.477	.477	0	%100
50	M44	Z	.275	.275	0	%100
51	M45	X	.477	.477	0	%100
52	M45	Z	.275	.275	0	%100
53	M48A	X	0	0	0	%100
54	M48A	Z	0	0	0	%100
55	M49A	X	.251	.251	0	%100
56	M49A	Z	.145	.145	0	%100
57	M52	X	1.147	1.147	0	%100
58	M52	Z	.662	.662	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	0	0	0	%100



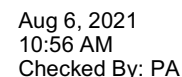
	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
58	M52	Z	.861	.861	0	%100
59	M53	X	.08	.08	0	%100
60	M53	Z	.139	.139	0	%100
61	M54	X	.077	.077	0	%100
62	M54	Z	.134	.134	0	%100
63	M58	X	.056	.056	0	%100
64	M58	Z	.098	.098	0	%100
65	M59	X	.225	.225	0	%100
66	M59	Z	.39	.39	0	%100
67	M64	X	.092	.092	0	%100
68	M64	Z	.159	.159	0	%100
69	M65	X	.092	.092	0	%100
70	M65	Z	.159	.159	0	%100
71	M68	X	.048	.048	0	%100
72	M68	Z	.084	.084	0	%100
73	M69	X	.193	.193	0	%100
74	M69	Z	.334	.334	0	%100
75	M72	X	.195	.195	0	%100
76	M72	Z	.339	.339	0	%100
77	M73	X	0	0	0	%100
78	M73	Z	0	0	0	%100
79	M74	X	.195	.195	0	%100
80	M74	Z	.339	.339	0	%100
81	MP2A	X	.261	.261	0	%100
82	MP2A	Z	.451	.451	0	%100
83	MP3A	X	.261	.261	0	%100
84	MP3A	Z	.451	.451	0	%100
85	MP4A	X	.261	.261	0	%100
86	MP4A	Z	.451	.451	0	%100
87	MP1C	X	.261	.261	0	%100
88	MP1C	Z	.451	.451	0	%100
89	MP2C	X	.261	.261	0	%100
90	MP2C	Z	.451	.451	0	%100
91	MP3C	X	.261	.261	0	%100
92	MP3C	Z	.451	.451	0	%100
93	MP4C	X	.261	.261	0	%100
94	MP4C	Z	.451	.451	0	%100
95	MP1B	X	.261	.261	0	%100
96	MP1B	Z	.451	.451	0	%100
97	MP2B	X	.261	.261	0	%100
98	MP2B	Z	.451	.451	0	%100
99	MP3B	X	.261	.261	0	%100
100	MP3B	Z	.451	.451	0	%100
101	MP4B	X	.261	.261	0	%100
102	MP4B	Z	.451	.451	0	%100
103	M115	X	.529	.529	0	%100
104	M115	Z	.917	.917	0	%100
105	M116	X	0	0	0	%100
106	M116	Z	0	0	0	%100
107	M117	X	.529	.529	0	%100
108	M117	Z	.917	.917	0	%100
109	M118	X	.215	.215	0	%100
110	M118	Z	.372	.372	0	%100
111	M119	X	.457	.457	0	%100
112	M119	Z	.792	.792	0	%100
113	M120	X	.215	.215	0	%100
114	M120	Z	.372	.372	0	%100

Page 149



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

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
46	M38A	Z	.39	.39	0	%100
47	M39	X	-.056	-.056	0	%100
48	M39	Z	.098	.098	0	%100
49	M44	X	-.092	-.092	0	%100
50	M44	Z	.159	.159	0	%100
51	M45	X	-.092	-.092	0	%100
52	M45	Z	.159	.159	0	%100
53	M48A	X	-.193	-.193	0	%100
54	M48A	Z	.334	.334	0	%100
55	M49A	X	-.048	-.048	0	%100
56	M49A	Z	.084	.084	0	%100
57	M52	X	0	0	0	%100
58	M52	Z	0	0	0	%100
59	M53	X	-.32	-.32	0	%100
60	M53	Z	.555	.555	0	%100
61	M54	X	-.309	-.309	0	%100
62	M54	Z	.535	.535	0	%100
63	M58	X	-.056	-.056	0	%100
64	M58	Z	.098	.098	0	%100
65	M59	X	-.056	-.056	0	%100
66	M59	Z	.098	.098	0	%100
67	M64	X	-.367	-.367	0	%100
68	M64	Z	.636	.636	0	%100
69	M65	X	-.367	-.367	0	%100
70	M65	Z	.636	.636	0	%100
71	M68	X	-.048	-.048	0	%100
72	M68	Z	.084	.084	0	%100
73	M69	X	-.048	-.048	0	%100
74	M69	Z	.084	.084	0	%100
75	M72	X	-.195	-.195	0	%100
76	M72	Z	.339	.339	0	%100
77	M73	X	-.195	-.195	0	%100
78	M73	Z	.339	.339	0	%100
79	M74	X	0	0	0	%100
80	M74	Z	0	0	0	%100
81	MP2A	X	-.261	-.261	0	%100
82	MP2A	Z	.451	.451	0	%100
83	MP3A	X	-.261	-.261	0	%100
84	MP3A	Z	.451	.451	0	%100
85	MP4A	X	-.261	-.261	0	%100
86	MP4A	Z	.451	.451	0	%100
87	MP1C	X	-.261	-.261	0	%100
88	MP1C	Z	.451	.451	0	%100
89	MP2C	X	-.261	-.261	0	%100
90	MP2C	Z	.451	.451	0	%100
91	MP3C	X	-.261	-.261	0	%100
92	MP3C	Z	.451	.451	0	%100
93	MP4C	X	-.261	-.261	0	%100
94	MP4C	Z	.451	.451	0	%100
95	MP1B	X	-.261	-.261	0	%100
96	MP1B	Z	.451	.451	0	%100
97	MP2B	X	-.261	-.261	0	%100
98	MP2B	Z	.451	.451	0	%100
99	MP3B	X	-.261	-.261	0	%100
100	MP3B	Z	.451	.451	0	%100
101	MP4B	X	-.261	-.261	0	%100
102	MP4B	Z	.451	.451	0	%100

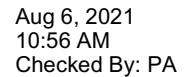


Member Distributed Loads (BLC 73 : Structure Wm (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
97	MP2B	X	-.451	-.451	0	%100
98	MP2B	Z	.261	.261	0	%100
99	MP3B	X	-.451	-.451	0	%100
100	MP3B	Z	.261	.261	0	%100
101	MP4B	X	-.451	-.451	0	%100
102	MP4B	Z	.261	.261	0	%100
103	M115	X	-.306	-.306	0	%100
104	M115	Z	.176	.176	0	%100
105	M116	X	-1.222	-1.222	0	%100
106	M116	Z	.706	.706	0	%100
107	M117	X	-.306	-.306	0	%100
108	M117	Z	.176	.176	0	%100
109	M118	X	-.652	-.652	0	%100
110	M118	Z	.376	.376	0	%100
111	M119	X	-.232	-.232	0	%100
112	M119	Z	.134	.134	0	%100
113	M120	X	-.652	-.652	0	%100
114	M120	Z	.376	.376	0	%100
115	M121	X	-.308	-.308	0	%100
116	M121	Z	.178	.178	0	%100

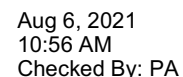
Member Distributed Loads (BLC 74 : Structure Wm (270 Deg))

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	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	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	MP1A	X	-.521	-.521	0	%100
8	MP1A	Z	0	0	0	%100
9	M26	X	-.479	-.479	0	%100
10	M26	Z	0	0	0	%100
11	M27	X	-.479	-.479	0	%100
12	M27	Z	0	0	0	%100
13	M28	X	-.544	-.544	0	%100
14	M28	Z	0	0	0	%100
15	M31	X	-.479	-.479	0	%100
16	M31	Z	0	0	0	%100
17	M32	X	-.479	-.479	0	%100
18	M32	Z	0	0	0	%100
19	M33	X	-.544	-.544	0	%100
20	M33	Z	0	0	0	%100
21	M32A	X	0	0	0	%100
22	M32A	Z	0	0	0	%100
23	M33A	X	-.64	-.64	0	%100
24	M33A	Z	0	0	0	%100
25	M34	X	-.618	-.618	0	%100
26	M34	Z	0	0	0	%100
27	M38	X	-.113	-.113	0	%100
28	M38	Z	0	0	0	%100
29	M39A	X	-.113	-.113	0	%100
30	M39A	Z	0	0	0	%100
31	M44B	X	-.735	-.735	0	%100
32	M44B	Z	0	0	0	%100
33	M45B	X	-.735	-.735	0	%100



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

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
28	M38	Z	-.169	-.169	0	%100
29	M39A	X	0	0	0	%100
30	M39A	Z	0	0	0	%100
31	M44B	X	-.477	-.477	0	%100
32	M44B	Z	-.275	-.275	0	%100
33	M45B	X	-.477	-.477	0	%100
34	M45B	Z	-.275	-.275	0	%100
35	M48	X	-.251	-.251	0	%100
36	M48	Z	-.145	-.145	0	%100
37	M49	X	0	0	0	%100
38	M49	Z	0	0	0	%100
39	M32B	X	-.287	-.287	0	%100
40	M32B	Z	-.166	-.166	0	%100
41	M33B	X	-.416	-.416	0	%100
42	M33B	Z	-.24	-.24	0	%100
43	M34A	X	-.402	-.402	0	%100
44	M34A	Z	-.232	-.232	0	%100
45	M38A	X	0	0	0	%100
46	M38A	Z	0	0	0	%100
47	M39	X	-.293	-.293	0	%100
48	M39	Z	-.169	-.169	0	%100
49	M44	X	-.477	-.477	0	%100
50	M44	Z	-.275	-.275	0	%100
51	M45	X	-.477	-.477	0	%100
52	M45	Z	-.275	-.275	0	%100
53	M48A	X	0	0	0	%100
54	M48A	Z	0	0	0	%100
55	M49A	X	-.251	-.251	0	%100
56	M49A	Z	-.145	-.145	0	%100
57	M52	X	-1.147	-1.147	0	%100
58	M52	Z	-.662	-.662	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	0	0	0	%100
61	M54	X	0	0	0	%100
62	M54	Z	0	0	0	%100
63	M58	X	-.293	-.293	0	%100
64	M58	Z	-.169	-.169	0	%100
65	M59	X	-.293	-.293	0	%100
66	M59	Z	-.169	-.169	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	0	0	0	%100
69	M65	X	0	0	0	%100
70	M65	Z	0	0	0	%100
71	M68	X	-.251	-.251	0	%100
72	M68	Z	-.145	-.145	0	%100
73	M69	X	-.251	-.251	0	%100
74	M69	Z	-.145	-.145	0	%100
75	M72	X	-.113	-.113	0	%100
76	M72	Z	-.065	-.065	0	%100
77	M73	X	-.113	-.113	0	%100
78	M73	Z	-.065	-.065	0	%100
79	M74	X	-.451	-.451	0	%100
80	M74	Z	-.261	-.261	0	%100
81	MP2A	X	-.451	-.451	0	%100
82	MP2A	Z	-.261	-.261	0	%100
83	MP3A	X	-.451	-.451	0	%100
84	MP3A	Z	-.261	-.261	0	%100

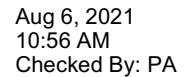


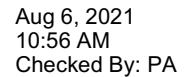
Member Distributed Loads (BLC 76 : Structure Wm (330 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
79	M74	X	-.195	-.195	0	%100
80	M74	Z	-.339	-.339	0	%100
81	MP2A	X	-.261	-.261	0	%100
82	MP2A	Z	-.451	-.451	0	%100
83	MP3A	X	-.261	-.261	0	%100
84	MP3A	Z	-.451	-.451	0	%100
85	MP4A	X	-.261	-.261	0	%100
86	MP4A	Z	-.451	-.451	0	%100
87	MP1C	X	-.261	-.261	0	%100
88	MP1C	Z	-.451	-.451	0	%100
89	MP2C	X	-.261	-.261	0	%100
90	MP2C	Z	-.451	-.451	0	%100
91	MP3C	X	-.261	-.261	0	%100
92	MP3C	Z	-.451	-.451	0	%100
93	MP4C	X	-.261	-.261	0	%100
94	MP4C	Z	-.451	-.451	0	%100
95	MP1B	X	-.261	-.261	0	%100
96	MP1B	Z	-.451	-.451	0	%100
97	MP2B	X	-.261	-.261	0	%100
98	MP2B	Z	-.451	-.451	0	%100
99	MP3B	X	-.261	-.261	0	%100
100	MP3B	Z	-.451	-.451	0	%100
101	MP4B	X	-.261	-.261	0	%100
102	MP4B	Z	-.451	-.451	0	%100
103	M115	X	-.529	-.529	0	%100
104	M115	Z	-.917	-.917	0	%100
105	M116	X	0	0	0	%100
106	M116	Z	0	0	0	%100
107	M117	X	-.529	-.529	0	%100
108	M117	Z	-.917	-.917	0	%100
109	M118	X	-.215	-.215	0	%100
110	M118	Z	-.372	-.372	0	%100
111	M119	X	-.457	-.457	0	%100
112	M119	Z	-.792	-.792	0	%100
113	M120	X	-.215	-.215	0	%100
114	M120	Z	-.372	-.372	0	%100
115	M121	X	-.178	-.178	0	%100
116	M121	Z	-.308	-.308	0	%100

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

	Member Label	Direction	Start Magnitude[lb...	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	M45	Y	-6.315	-6.557	0	.917
2	M45	Y	-6.557	-8.321	.917	1.833
3	M45	Y	-8.321	-11.609	1.833	2.75
4	M64	Y	-6.315	-6.557	0	.917
5	M64	Y	-6.557	-8.321	.917	1.833
6	M64	Y	-8.321	-11.609	1.833	2.75
7	M49A	Y	-76.42	-6.557	0	1.5
8	M68	Y	-76.42	-6.557	0	1.5
9	M45B	Y	-6.315	-6.557	0	.917
10	M45B	Y	-6.557	-8.321	.917	1.833
11	M45B	Y	-8.321	-11.609	1.833	2.75
12	M44	Y	-6.315	-6.557	0	.917
13	M44	Y	-6.557	-8.321	.917	1.833
14	M44	Y	-8.321	-11.609	1.833	2.75
15	M49	Y	-76.42	-6.557	0	1.5





	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N52A	max	1120.822	10	570.733	19	6438.75	13	1.155	20	2.025	4	.268	4
2		min	-1115.365	4	64.985	1	-719.016	7	.333	2	-2.011	10	-.269	10
3	N56A	max	5545.494	21	783.34	15	542.394	2	.247	12	1.994	12	-.169	5
4		min	-743.811	3	106.448	9	-3236.936	20	-.713	18	-1.98	6	-1.075	24
5	N91	max	652.704	11	575.076	23	384.431	1	-.016	2	1.969	8	1.032	14
6		min	-5548.84	17	65.568	5	-3190.618	19	-.621	20	-1.956	2	.198	8
7	N192A	max	45.616	10	3024.269	13	-1516.32	7	0	51	0	8	0	2
8		min	-45.256	4	692.937	7	-6700.237	13	0	1	0	2	0	8
9	N195A	max	-1269.004	3	3002.083	21	3324.466	21	0	10	.002	40	.002	40
10		min	-5758.793	21	670.498	3	732.313	3	-.004	40	0	10	0	10
11	N198	max	5768.672	17	3007.335	17	3331.393	17	0	12	0	12	0	12
12		min	1291.967	11	682.226	11	746.037	11	-.003	42	-.002	42	-.002	42
13	Totals:	max	4507.352	10	10514.489	24	4505.39	1						
14		min	-4507.359	4	3907.35	6	-4505.39	7						

Member	Shape	Code Check	Loc[ft]	LC	Sh	Lo.....	LC	phi*....	phi*....	phi*....	phi*....	Eqn
1	M72 PIPE_...	.358	7.422	17	.136	1....	8	4651...	32130	1.872	1.872	...H1-...
2	M73 PIPE_...	.360	7.422	13	.141	1....	4	4651...	32130	1.872	1.872	...H1-...
3	M74 PIPE_...	.363	1.363	2	.135	1....	12	4651...	32130	1.872	1.872	...H1-...
4	M33A HSS3...	.157	3.729	23	.069	4....y	13	1110...	1403...	11.2...	11.2...	...H1-...
5	M34 HSS3...	.230	4.667	10	.088	.972y	13	1161...	1403...	11.2...	11.2...	...H1-...
6	M33B HSS3...	.157	3.729	19	.069	4....y	21	1110...	1403...	11.2...	11.2...	...H1-...
7	M34A HSS3...	.228	4.667	6	.088	.972y	21	1161...	1403...	11.2...	11.2...	...H1-...
8	M53 HSS3...	.157	3.729	15	.069	4....y	17	1110...	1403...	11.2...	11.2...	...H1-...
9	M54 HSS3...	.225	4.667	2	.088	.972y	17	1161...	1403...	11.2...	11.2...	...H1-...
10	M118 LL2.5x...	.183	0	13	.005	7....y	20	4024...	77112	5.321	3.294	1H1-...
11	M119 LL2.5x...	.181	0	21	.012	0 y	40	4024...	77112	5.321	3.294	1H1-...
12	M120 LL2.5x...	.182	0	17	.012	0 y	42	4024...	77112	5.321	3.294	1H1-...
13	M44B L2.5x2...	.052	1.432	14	.005	2.75y	14	3012...	38556	1.114	2.507	...H2-1
14	M45B L2.5x2...	.055	1.432	24	.005	2.75z	14	3012...	38556	1.114	2.507	...H2-1
15	M44 L2.5x2...	.052	1.432	22	.005	2.75y	22	3012...	38556	1.114	2.507	...H2-1
16	M45 L2.5x2...	.055	1.432	20	.005	2.75z	22	3012...	38556	1.114	2.507	...H2-1
17	M64 L2.5x2...	.052	1.432	18	.005	2.75y	18	3012...	38556	1.114	2.507	...H2-1
18	M65 L2.5x2...	.055	1.432	16	.005	2.75z	18	3012...	38556	1.114	2.507	...H2-1
19	M48 L2.5x1...	.117	.656	16	.033	0 z	22	2600...	3068...	.461	1.597	...H2-1
20	M49 L2.5x1...	.116	.656	22	.018	0 z	14	2600...	3068...	.461	1.597	...H2-1
21	M48A L2.5x1...	.116	.656	24	.033	0 z	18	2600...	3068...	.461	1.597	...H2-1
22	M49A L2.5x1...	.117	.656	18	.019	0 z	22	2600...	3068...	.461	1.597	...H2-1
23	M68 L2.5x1...	.117	.656	20	.034	0 z	14	2600...	3068...	.461	1.597	...H2-1
24	M69 L2.5x1...	.116	.656	14	.018	0 z	18	2600...	3068...	.461	1.597	...H2-1
25	M1 PIPE_...	.208	0	15	.197	0	20	5815...	65205	5.749	5.749	...H1-...
26	M3 PIPE_...	.219	0	13	.201	0	16	5815...	65205	5.749	5.749	...H1-...
27	M5 PIPE_...	.324	3.141	39	.040	0	13	5230...	65205	5.749	5.749	...H1-...
28	M26 PIPE_...	.210	0	23	.199	0	16	5815...	65205	5.749	5.749	...H1-...
29	M27 PIPE_...	.219	0	22	.201	0	24	5815...	65205	5.749	5.749	...H1-...
30	M28 PIPE_...	.297	3.141	23	.050	6....	38	5230...	65205	5.749	5.749	...H1-...
31	M31 PIPE_...	.210	0	21	.200	0	24	5815...	65205	5.749	5.749	...H1-...
32	M32 PIPE_...	.218	0	17	.199	0	20	5815...	65205	5.749	5.749	...H1-...
33	M33 PIPE_...	.296	3.141	19	.053	0	41	5230...	65205	5.749	5.749	...H1-...
34	M121 PIPE_...	.231	2.708	11	.021	2....	11	2054...	2359...	1.105	1.105	...H1-...
35	M32A PL5/8X6	.301	.667	19	.569	.667y	24	8031...	1215			



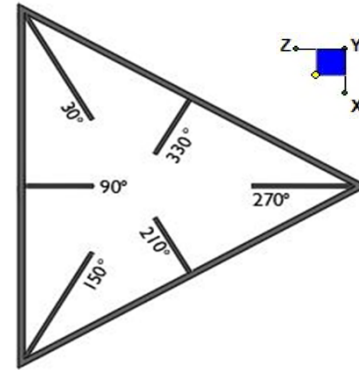
Client:	Verizon Wireless	Date:	8/4/2021
Site Name:	VERNON 2 CT		
Project No.	21777704A		
Title:	Antenna Mount Re-Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N52A	270
N56A	30
N91	150



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):

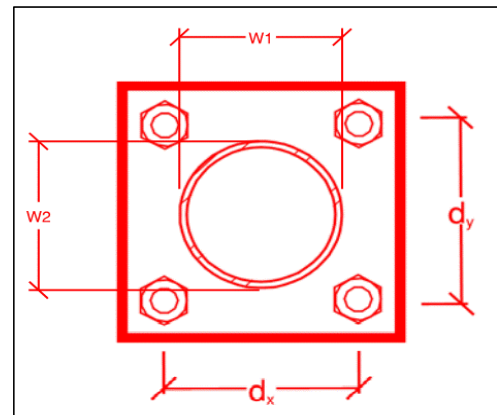
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
4
4
4
A325N
0.625
14.5
4.4
20.7
12.4
17.6%*
8.8%



*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):

Weld Capacity:

Rect
6
6
3
3
36
0.75
6
8.35
2.26
27.1%

Max Plate Bending Strengths

$M_{u_{xx}}$ (kip-in):	0.8
$\Phi \cdot M_{n_{xx}}$ (kip-in):	27.3
$\Phi \cdot M_{n_{yy}}$ (kip-in):	27.3

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – **Passing Mount Analysis**

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

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

Base Requirements:

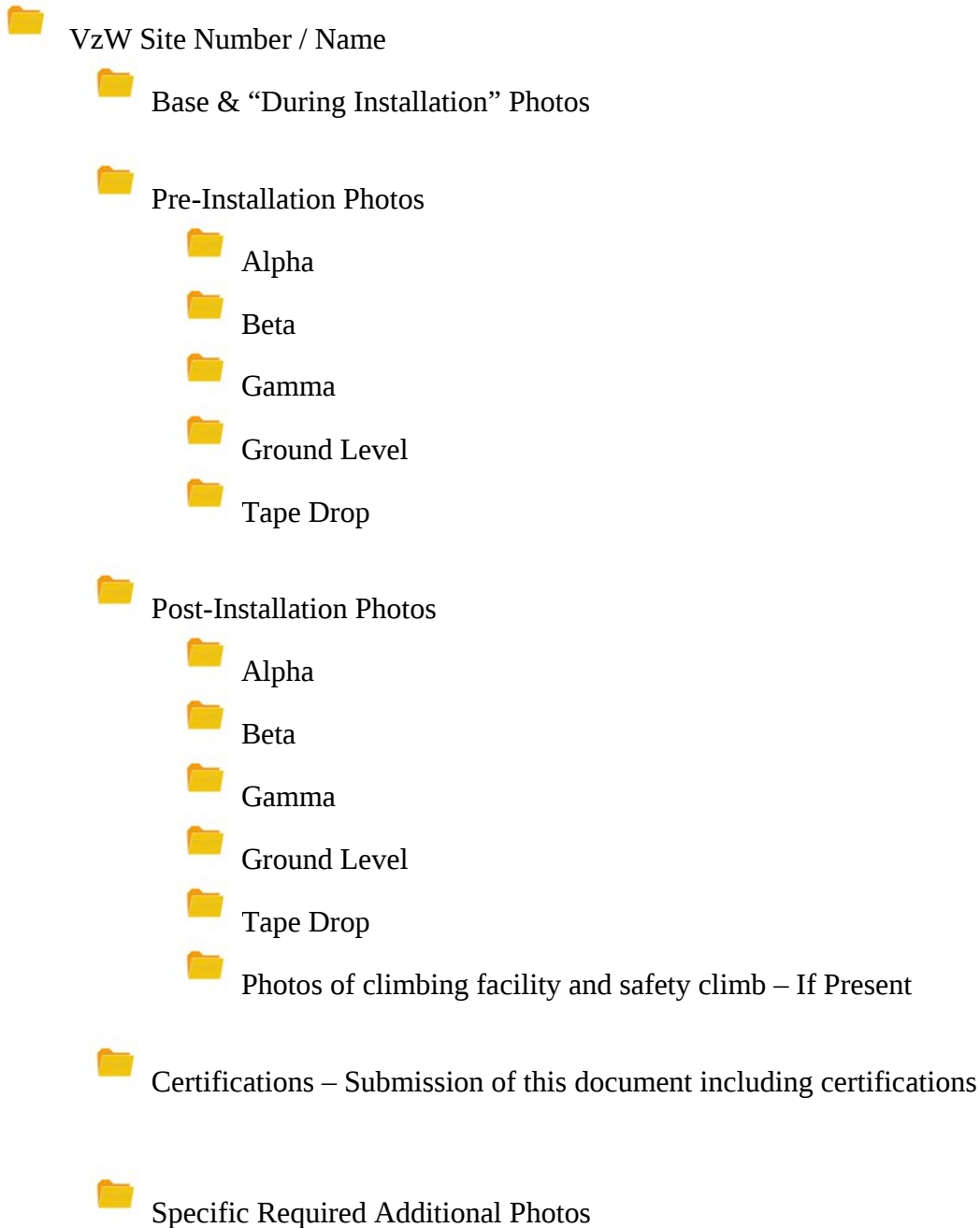
- Any special photos outside of the standard requirements will be indicated on the passing MA
- Verification that loading is as communicated in the Passing Mount Analysis. NOTE If loading is different than what is conveyed contact Maser Consulting Connecticut immediately.
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope.
- The photos in the file structure should be uploaded to <https://pmi.vzwsmart.com> as depicted on the drawings

Photo Requirements:

- Base and “During Installation Photos”
 - Base pictures include
 - Photo of Gate Signs showing the tower owner, site name, and number
 - Photo of carrier shelter showing the carrier site name and number if available
 - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
 - “During Installation Photos if provided - must be placed only in this folder
- Photos taken at ground level
 - Overall tower structure before and after installation of the equipment modifications
 - Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed
- Photos taken at Mount Elevation
 - Photos showing each individual sector before and also after installation of equipment. These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis

- | |
|--|
| |
|--|

Schedule A – Photo & Document File Structure



Sector: **A**
 Structure Type: Monopole
 Mount Elev: 158.00

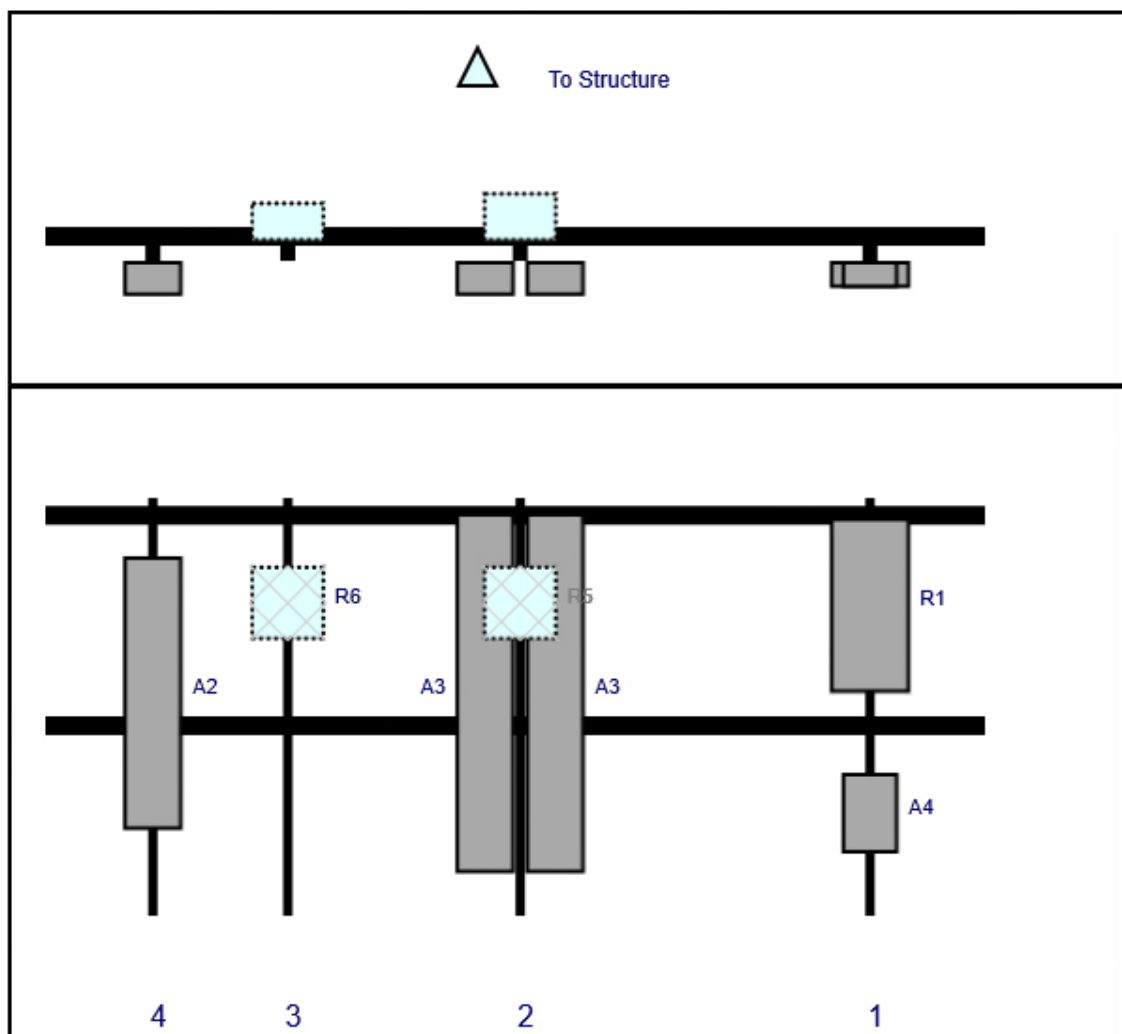
10054697

8/4/2021

Page: 1



Plan View



Front View
 Looking at Structure

Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A4	XXDWMM-12.5-65-8T-CBRS	16.2	11.4	165	1	a	Front	63	0	Retained	04/11/2021
R1	MT6407-77A	35.1	16.1	165	1	a	Front	21.48	0	Added	
A3	NHH-65B-R2B	72	11.9	95	2	a	Front	39	7	Retained	04/11/2021
A3	NHH-65B-R2B	72	11.9	95	2	b	Front	39	-7	Retained	04/11/2021
R5	B2/B66A RRR-BR049	15	15	95	2	a	Behind	21	0	Retained	04/11/2021
R6	B5/B13 RRR-BR04C	15	15	48.5	3	a	Behind	21	0	Retained	04/11/2021
A2	LNx-6513DS-A1M	54.7	11.9	21.5	4	a	Front	39	0	Retained	04/11/2021

Sector: **B**
 Structure Type: Monopole
 Mount Elev: 158.00

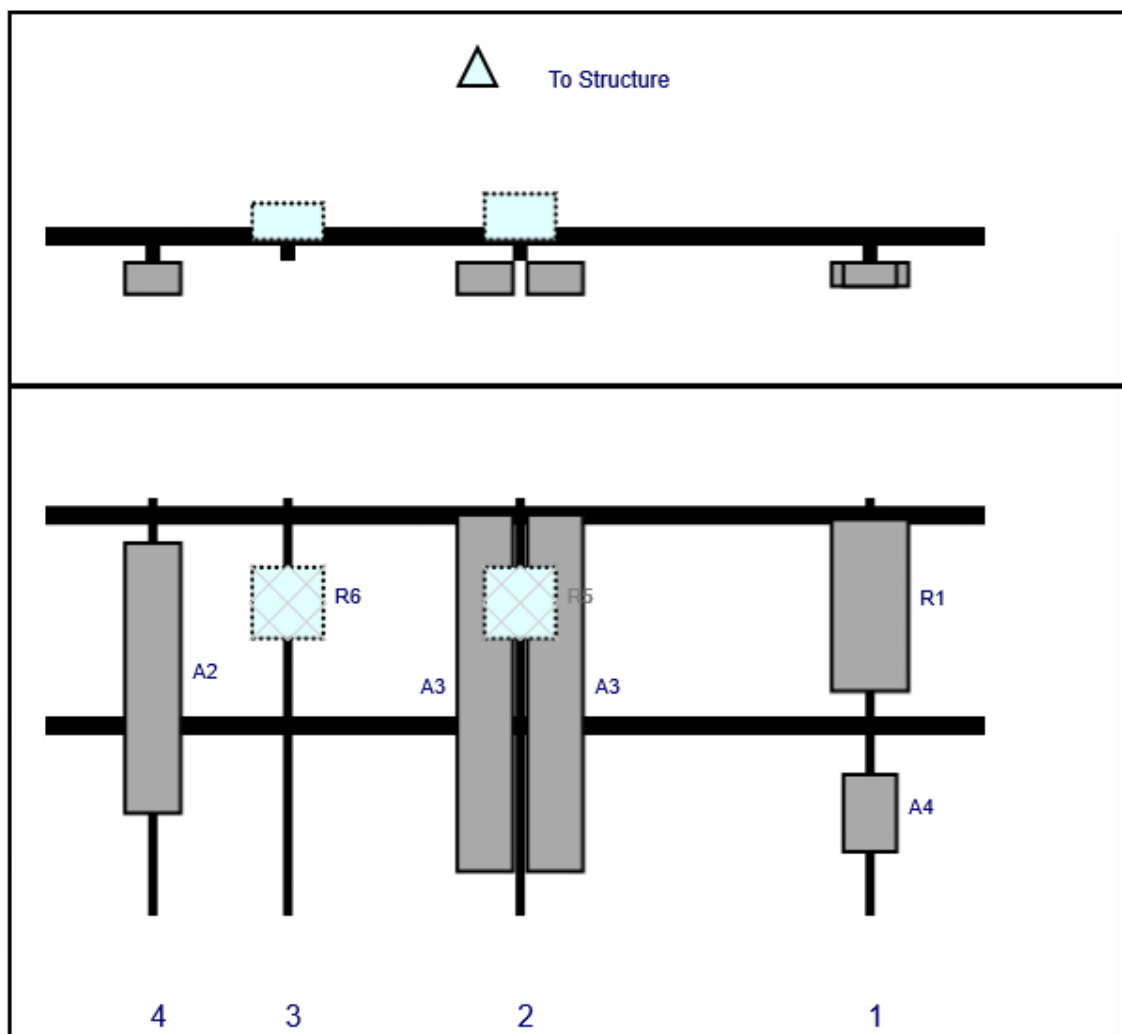
10054697

8/4/2021

Page: 2



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
A4	XXDWMM-12.5-65-8T-CBRS	16.2	11.4	165	1	a	Front	63	0	Retained	04/11/2021
R1	MT6407-77A	35.1	16.1	165	1	a	Front	21.48	0	Added	
A3	NHH-65B-R2B	72	11.9	95	2	a	Front	39	7	Retained	04/11/2021
A3	NHH-65B-R2B	72	11.9	95	2	b	Front	39	-7	Retained	04/11/2021
R5	B2/B66A RRR-BR049	15	15	95	2	a	Behind	21	0	Retained	04/11/2021
R6	B5/B13 RRR-BR04C	15	15	48.5	3	a	Behind	21	0	Retained	04/11/2021
A2	LNx-6513DS-A1M	54.7	11.9	21.5	4	a	Front	36	0	Retained	04/11/2021

Sector: C

8/4/2021

Structure Type: Monopole

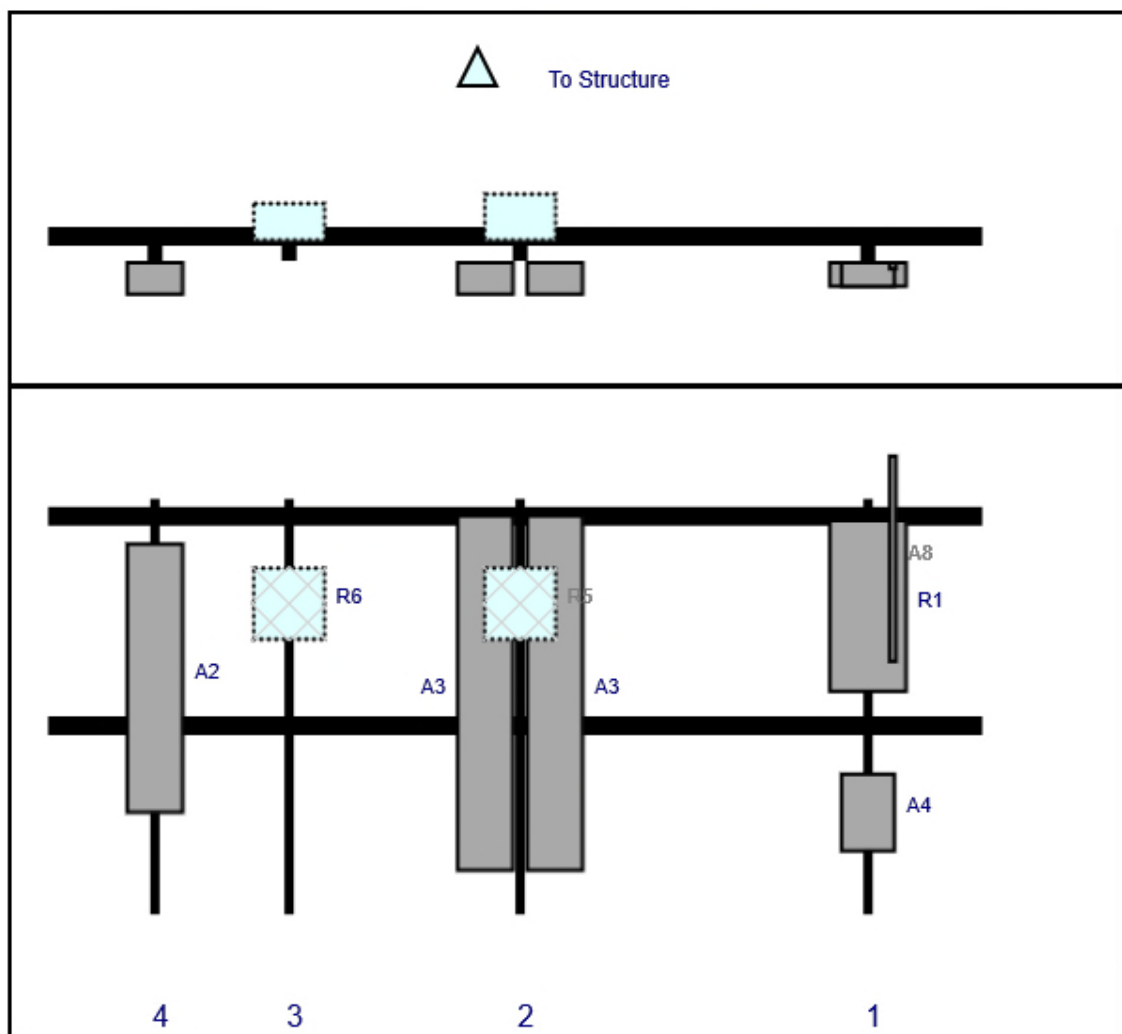
10054697

Mount Elev: 158.00

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
A4	XXDWMM-12.5-65-8T-CBRS	16.2	11.4	165	1	a	Front	63	0	Retained	04/11/2021
R1	MT6407-77A	35.1	16.1	165	1	a	Front	21.48	0	Added	
A8	2" x 4" GPS	42	2	165	1	a	Front	12	5	Retained	04/11/2021
A3	NHH-65B-R2B	72	11.9	95	2	a	Front	39	7	Retained	04/11/2021
A3	NHH-65B-R2B	72	11.9	95	2	b	Front	39	-7	Retained	04/11/2021
R5	B2/B66A RRH-BR049	15	15	95	2	a	Behind	21	0	Retained	04/11/2021
R6	B5/B13 RRH-BR04C	15	15	48.5	3	a	Behind	21	0	Retained	04/11/2021
A2	LNx-6513DS-A1M	54.7	11.9	21.5	4	a	Front	36	0	Retained	04/11/2021

Maser Consulting Connecticut

Subject*TIA-222-H Usage***Site Information**

Site ID: 469126-VZW / VERNON 2 CT
Site Name: VERNON 2 CT
Carrier Name: Verizon Wireless
Address: 60 Industrial Park Rd.
Vernon, Connecticut 06066
Tolland County
Latitude: 41.835556°
Longitude: -72.454722°

Structure Information

Tower Type: 175-Ft Monopole
Mount Type: 15.67-Ft Platform Mount

To Whom It May Concern,

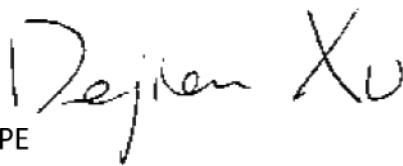
We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

The 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. 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,



Dejian Xu, PE
Technical Manager

ATTACHMENT 5



INDUSTRIAL PARK ROAD LLC 75 GERBER ROAD EAST SOUTH WINDSOR, CT 06074 CENSUS TRACT: 530600 Neighborhood Number 12100 Neighborhood Name General Commercial TAXING DISTRICT INFORMATION Jurisdiction NameTown of Vernon Area146 Routing Number5044	Tax ID 30-0133-0005G										Printed 02/06/2019										Card No. 1 of 1																													
	Transfer of Ownership																																																	
	Owner										Consideration										Transfer Date										Deed Book/Page										Deed Type									
	DJV REAL ESTATE LLC										0										03/22/2018										2546 253										W									
	LILYMAXJACK LLC										700000										10/30/2017										2529 193										W									
	BEAUREGARD GEORGE W										0										07/05/2005										1744 267										Q									
	BEAUREGARD GEORGE W & KAREN S										0										07/05/2005										1744 264										Q									
	BEAUREGARD KAREN S & GEORGE W										0										03/07/2000										1244 40										Q									
	BEAUREGARD GEORGE W										0										04/13/1999										1200 11										Q									
Site Description Topography Public Utilities Water, Sewer, Gas, Electric Street or Road Paved Neighborhood Zoning: Industrial Legal Acres: 5.1000	Valuation Record																																																	
	Assessment Year					2011					2016					2017					2018																													
	Reason for Change																																																	
						2011 REVAL					2016 Reval					BAA					2018 ASMT																													
	Market					L					313380					245720					245720					245720																								
						I					668250					1449820					754280					574280																								
						T					981630					1695540					1000000					820000																								
	70% Assessed/Use					L					219370					172000					172000					172000																								
						I					467770					1014880					528000					401990																								
						T					687140					1186880					700000					573990																								



Land Size				
Land Type	Rating, Soil ID - or - Actual Frontage	Acreage - or - Effective Frontage	Square Feet - or - Effective Depth	Influence Factor

Physical Characteristics

ROOFING

Built-up
Insulation

WALLS

	B	1	2	U
Frame		Yes		
Guard	Yes	Yes	Yes	Yes

FRAMING

	B	1	2	U
F Res	0	34908	0	4000

FINISH

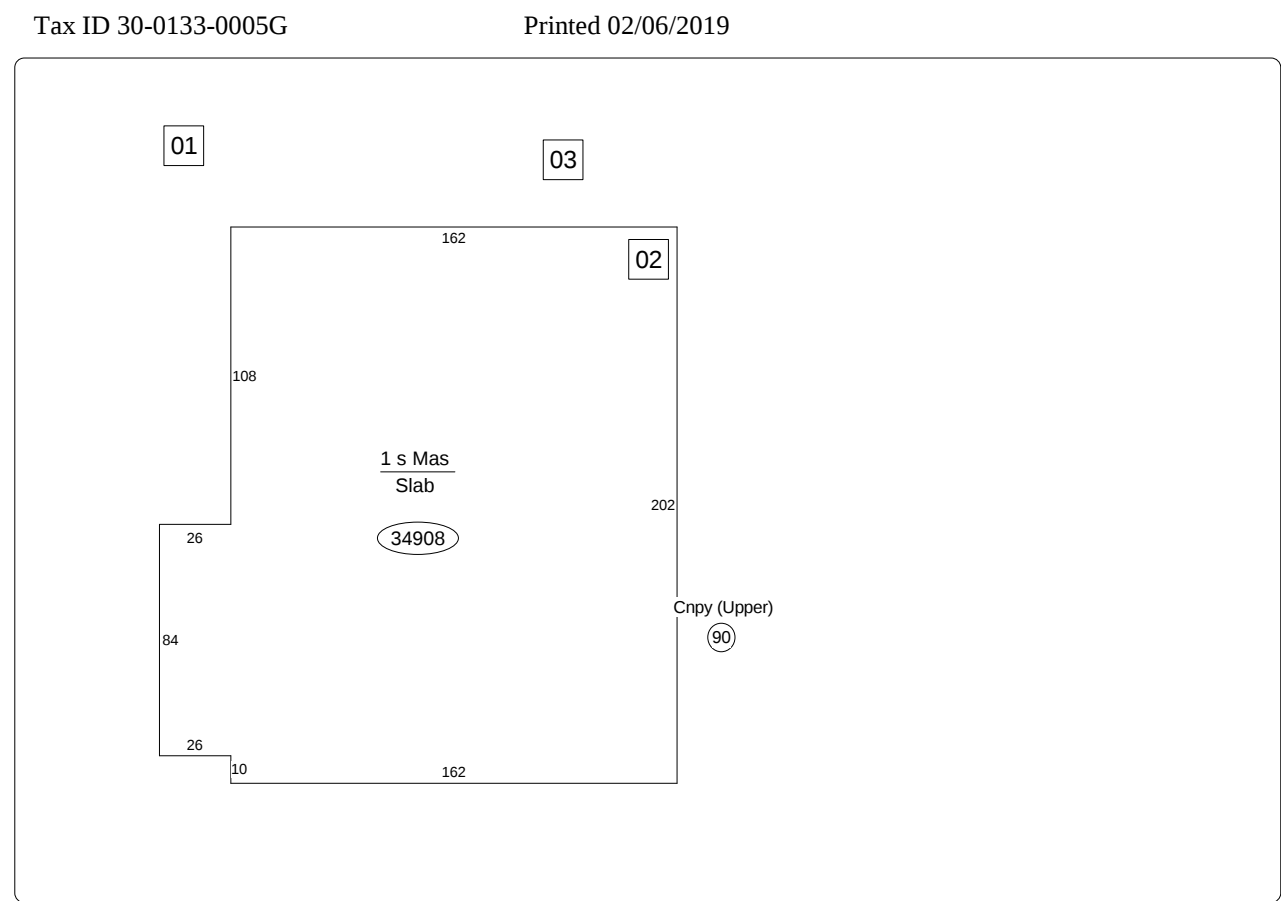
	UF	SF	FO	FD
1	34908	0	0	0
U	4000	0	0	0
Total	38908	0	0	0

HEATING AND AIR CONDITIONING

	B	1	2	U
Heat	0	34908	0	4000
Sprink	0	34908	0	4000

PLUMBING

	Residential	Commercial		
	#	TF	#	TF
Full Baths				
Half Baths			3	6
Extra Fixtures				
TOTAL		0		6



	Special Features		Summary of Improvements								
	Description		ID	USE	Story Height	Const Type	Grade	Year Cons	Eff Year	Cond	Size or Area
			C	LMFG	0.00	85	Fair	1968	1970	FR	34908
			01	PAVING	0.00		Avg	1968	1968	AV	23800
		02	MEZZSF	1.00	Fair		1968	1968	AV	4000	
		03	TOWERMON	0.00	Avg		2000	2000	AV	380	

ATTACHMENT 6



VERNON 2
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 3	TOTAL NO. of Pieces Received at Post Office™ 3	Affix Stamp Here Postmark with Date of Receipt. neopost 10/04/2021 US POSTAGE \$002.99 ⁰  ZIP 06103 041L12203937
	Postmaster, per (name of receiving employee) 		

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Daniel A. Champagne, Mayor Town of Vernon 14 Park Place Vernon, CT 06066				
2.	George McGregor, Town Planner Town of Vernon 14 Park Place Vernon, CT 06066				
3.	Industrial Park Road LLC 75 Gerber Road East South Windsor, CT 06074				
4.					
5.					
6.					

