

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

November 16, 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  
Town of Coventry - Town Hall Property  
1712 Main Street, Coventry, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains an existing wireless telecommunications facility at the above-referenced property address (the “Property”). The facility consists of antennas and remote radio heads attached to a tower and related equipment on the ground, near the base of the tower. The tower was originally approved and constructed by the Town of Coventry and is located behind Coventry Town Hall. Cellco’s consultants reached out to Town staff in an effort to obtain a copy of the original tower approval. However, Town staff was unable to locate that approval. Cellco’s shared use of the tower was approved by the Council in June 2004 (EM-VER-032-040614). A copy of Cellco’s approval is included in [Attachment 1](#).

Cellco now intends to modify its facility by removing six (6) existing antennas and installing three (3) new Samsung MT6407-77A antennas and six (6) NHH-65B-R2B antennas. Cellco also intends to replace six (6) existing remote radio heads (“RRHs”) with six (6) new RRHs. All new equipment will be installed on Cellco’s existing antenna mounts. A set of project plans showing Cellco’s proposed facility modifications and specification for Cellco’s new antennas and RRHs are included in [Attachment 2](#).

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance

Melanie A. Bachman, Esq.  
November 16, 2021  
Page 2

with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Coventry's Chief Executive Officer and Land Use Officer. As mentioned above, the Town of Coventry is the owner of the Property.

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

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's replacement antennas will be installed on Cellco's existing antenna platform.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative general power density table for Cellco's modified facility is included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation and antenna mounts with certain modifications, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

A copy of the parcel map and Property owner information is included in Attachment 5. A Certificate of Mailing verifying that this filing was sent to municipal officials 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.  
November 16, 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:

John Elsesser, Coventry Town Manger  
Eric Trott, Coventry Director of Land Use  
Karla Hanna

# **ATTACHMENT 1**



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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

E-Mail: [siting.council@po.state.ct.us](mailto:siting.council@po.state.ct.us)

[www.ct.gov/csc](http://www.ct.gov/csc)

June 25, 2004

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

RE: **EM-VER-032-040614** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 1776 Main Street, Coventry, Connecticut.

Dear Attorney Baldwin:

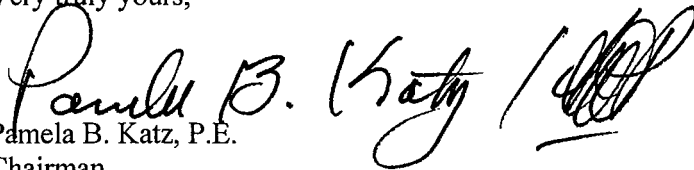
At a public meeting held on June 23, 2004, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated June 14, 2004. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. 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 will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,



Pamela B. Katz, P.E.  
Chairman

PBK/laf

c: Honorable James E. Clark, Chairman Town Council, Town of Coventry  
Eric M. Trott, Director of Planning & Development, Town of Coventry  
Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP  
Thomas F. Flynn III, Nextel Communications, Inc.

# **ATTACHMENT 2**



# WIRELESS COMMUNICATIONS FACILITY

**COVENTRY EAST CT  
1712 MAIN STREET  
COVENTRY, CT 06238**

## DRAWING INDEX

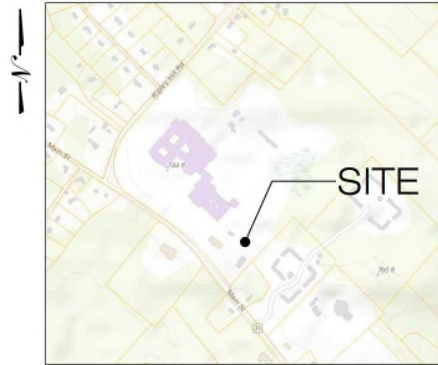
- T-1 TITLE SHEET
- C-1 COMPOUND PLAN, SOUTH TOWER ELEVATION, EQUIPMENT CONFIGURATION PLANS & ELEVATIONS.
- B-1 RF BILL OF MATERIALS, MECHANICAL SPECIFICATIONS & EQUIPMENT DETAILS.
- N-1 NOTES & SPECIFICATIONS

## SITE DIRECTIONS

**START: 20 ALEXANDER DRIVE  
WALLINGFORD, CONNECTICUT 06492**

**END: 1712 MAIN STREET  
COVENTRY, CT 06238**

- |  |         |
|--|---------|
| 1. HEAD SOUTH TOWARD ALEXANDER DRIVE   | 279 FT  |
| 2. SLIGHT RIGHT TOWARDS ALEXANDER DRIVE  | 289 FT  |
| 3. TURN RIGHT TOWARD ALEXANDER DRIVE   | 167 FT  |
| 4. TURN RIGHT ONTO ALEXANDER DRIVE   | 0.3 MI  |
| 5. TURN RIGHT ONTO BARNES INDUSTRIAL ROAD S.   | 0.1 MI  |
| 6. TURN RIGHT ONTO CT-48 E   | 1.5 MI  |
| 7. CONTINUE STRAIGHT TO STAY CT-68 E   | 0.2 MI  |
| 8. SHARP LEFT TO MERGE ONTO I-91 N TOWARD HARTFORD                                       | 0.3 MI  |
| 9. MERGE ONTO I-91 N   | 20.5 MI |
| 10. TAKE EXIT 29 TO MERGE ONTO CT-15 N/US-5N TOWARD I-48 E/<br>E HARTFORD/BOSTON         | 0.5 MI  |
| 11. CONTINUE ONTO CT-15 N  | 0.8 MI  |
| 12. USE LEFT 2 LANES TO MERGE ONTO I-84 E TOWARD BOSTON                                  | 2.4 MI  |
| 13. USE THE RIGHT 2 LANES TO TAKE EXIT 59 FOR I-384 E<br>TOWARD PROVIDENCE               | 1.3 MI  |
| 14. CONTINUE ONTO I-384  | 7.3 MI  |
| 15. CONTINUE ONTO US-44E/US-6 E  | 0.2 MI  |
| 16. KEEP LEFT AT THE FORK TO CONTINUE ON US-44 E. FOLLOW SIGNS<br>FOR COVENTRY/MANSFIELD | 4.0 MI  |
| 17. TURN RIGHT ONTO CT-31 S/ MAIN ST.  | 3.4 MI  |
| 18. TURN LEFT  | 79 FT   |
| 19. TURN RIGHT (DESTINATION WILL BE ON THE LEFT)   | 125 FT  |



**LOCATION MAP**  
SCALE: 1" = 2000'-0"

## SITE INFORMATION

VZ SITE NAME: COVENTRY EAST CT  
VZ PROJ FUZE I.D.: 182721141  
VZ LOCATION CODE: 468160  
VZ PROJECT CODE: 20212221166  
LOCATION: 1712 MAIN STREET  
COVENTRY, CT 06238

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

MAP/BLOCK/LOT: 018/----/001A

ZONING DISTRICT: GR-40 (GENERAL RESIDENTIAL ZONE)

LATITUDE: 41° 46' 47.755" N (41.779932° N)

SITE COORDINATES & GROUND ELEVATION  
OBTAINED FROM GOOGLE EARTH.

LONGITUDE: 73° 18' 34.498" W (73.309583° W)

GROUND ELEVATION: 727± AMSL

PROPERTY OWNER: VERIZON WIRELESS  
C/O DUFF & PHELPS  
P O BOX 2549  
ADDISON, TX 75001

APPLICANT: CELCO PARTNERSHIP  
d/b/a VERIZON WIRELESS  
20 ALEXANDER DRIVE  
WALLINGFORD, CT 06492

LEGAL/REGULATORY COUNSEL: ROBINSON & COLE, LLP  
KENNETH C. BALDWIN, ESQ.  
280 TRUMBULL STREET  
HARTFORD, CT 06103

ENGINEER CONTACT: ALL-POINTS TECHNOLOGY CORP., P.C.  
567 VAUXHALL STREET EXTENSION - SUITE 311  
WATERFORD, CT 06385  
(860) 663-1697

VERIZON SMART TOOL PROJECT # 10041326; 10069538

Cellco Partnership d/b/a



20 ALEXANDER DRIVE  
WALLINGFORD, CT 06492



567 VAUXHALL STREET EXTENSION - SUITE 311  
WATERFORD, CT 06385 PHONE: (860) 663-1697  
WWW.ALLPOINTSTECH.COM FAX: (860) 663-0035

### CONSTRUCTION DOCUMENTS

NO	DATE	REVISION
0	04/22/21	FOR REVIEW: JRM
1	06/18/21	REV. FOR FILING: JRM
2	07/08/21	REV. FOR FILING: JRM
3	10/21/21	REV. FOR FILING: JRM
4		
5		
6		



### DESIGN PROFESSIONALS OF RECORD

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

OWNER: VERIZON WIRELESS,  
P O BOX 2549  
ADDISON, TX 75001

### COVENTRY EAST CT

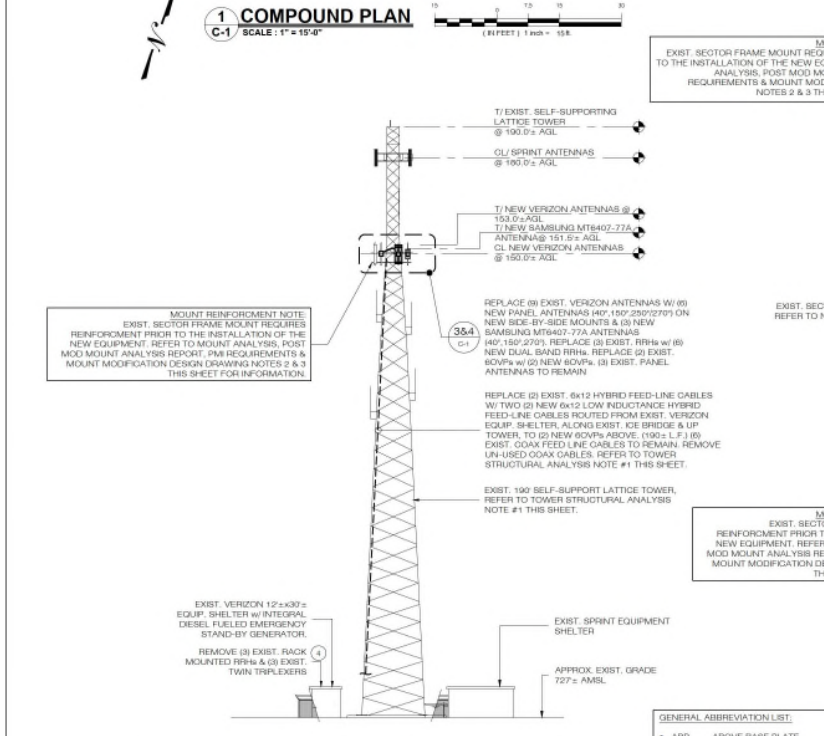
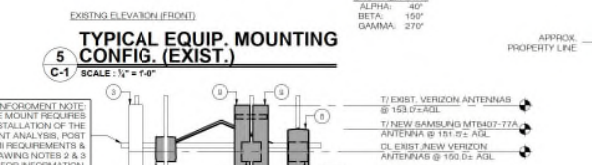
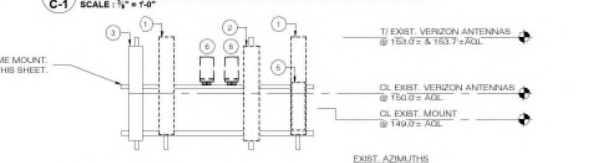
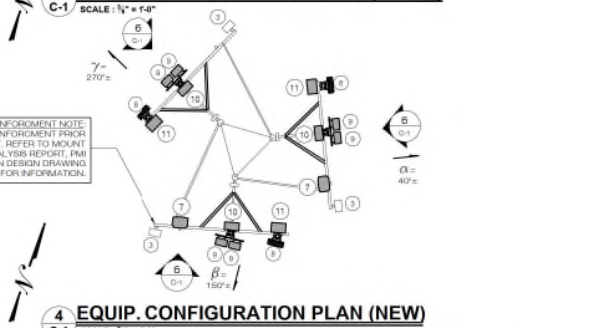
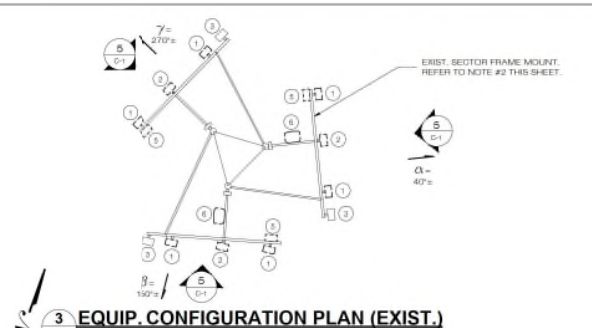
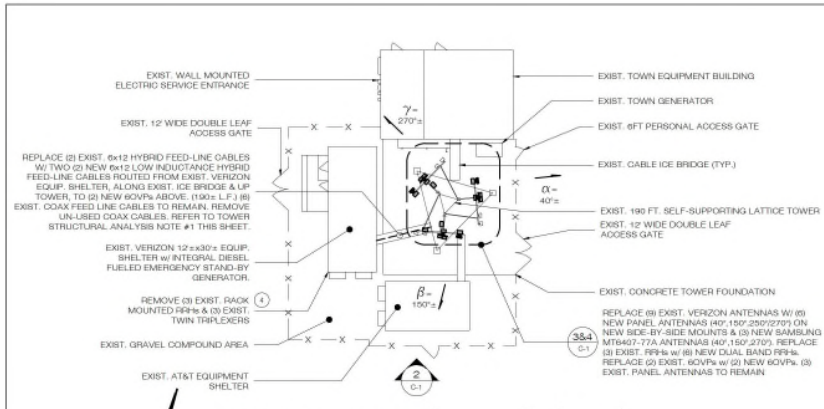
SITE: 1712 MAIN STREET  
ADDRESS: COVENTRY, CT 06238  
APT FILING NUMBER: CT141\_12679  
DRAWN BY: DRA  
CHECKED BY: JRM  
DATE: 04/22/21  
VZ PROJECT CODE: 20212221166  
VZ LOCATION CODE: 468160  
VZ FUZE ID: 182721141

### SHEET TITLE:

**TITLE SHEET**

### SHEET NUMBER:

**T-1**



- NOTES:**
- REFER TO TOWER STRUCTURAL ANALYSIS REPORT PREPARED BY ALL-POINTS TECHNOLOGY CORPORATION, P.C., MARKED REVD DATED 10/21/21 AVAILABLE UNDER SEPARATE COVER.
  - REFER TO MOUNT ANALYSIS REPORT PREPARED BY MASER CONSULTING, P.A., PROJECT #2177107A MARKED REVD, DATED 08/03/21 AVAILABLE UNDER SEPARATE COVER.
  - REFER TO POST MOD MOUNT ANALYSIS REPORT, PMI REQUIREMENTS & MOUNT MODIFICATION DESIGN DRAWING PREPARED BY MASER CONSULTING, P.A., PROJECT #2177107A DATED 08/03/21 AVAILABLE UNDER SEPARATE COVER.
  - PROJECT SCOPE INCLUDES THE FOLLOWING:
    - REPLACEMENT OF (8) EXIST. PANEL ANTENNAS w/ (8) NEW PANEL ANTENNAS ON NEW SIDE-BY-SIDE MOUNTS (PMI BSAMNT-SBS-1-2) & (3) NEW SAMSUNG MT6407-77A ANTENNAS.
    - REPLACEMENT OF (2) EXIST. RRHs w/ (8) NEW DUAL-BAND RRHs.
    - REPLACEMENT OF (2) EXIST. 60VPS w/ (2) NEW 60VPS (ALPHA & BETA).
    - REPLACEMENT OF (2) NEW 6x12 HYBRID FEED-LINE CABLES w/ (2) NEW 6x12 LOW INDUCTANCE HYBRID FEED-LINE CABLES.
    - REMOVAL OF (2) EXIST. RRHs & (3) EXIST. TWIN TRIPLEXERS FROM WITHIN EXIST. VERIZON EQUIP. SHELTER.
    - REMOVAL OF ALL UN-USED COAXIAL CABLE FEED-LINES.
  - ALL EXPOSED STEEL AND HARDWARE TO BE HOT DIP GALV. (HDD). PAINT TO MATCH EXIST. (WHERE APPLICABLE).
  - CAP & WEATHERPROOF ALL UN-USED CABLE ENTRY PORTS (WHERE APPLICABLE).
  - MOUNT & GROUND ALL NEW EQUIPMENT IN ACCORDANCE WITH NEC (NFPA-70), NESC AND MANUFACTURERS SPECIFICATION.
  - REMOVE ALL NEW ANTENNA CABLES PER MANUFACTURER RECOMMENDATIONS.
  - BOND NEW ANTENNA MOUNTING PIPES TO ANTENNA SECTOR GROUND BAR w/ # 2 AWG. BOW, (WHERE APPLICABLE).
  - CONTRACTOR SHALL INSTALL NEW SIDE-BY-SIDE & DUAL-MOUNT BRACKETS PER ANTENNA MOUNT MANUFACTURER RECOMMENDATIONS, INCLUDING VERIFICATION OF MINIMUM PIPE MAST DIAMETER REQUIRED TO INSTALL NEW MOUNT BRACKETS, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD SHOULD EXIST. PIPE MASTS REQUIRE REPLACEMENT TO SUPPORT THE NEW MOUNT BRACKETS.
  - ANTENNA CONFIGURATIONS SHOWN HEREIN ARE FRONT ELEVATIONS.
  - ANTENNA SPACING DIMENSIONS ARE TO THE CENTER OF THE EXIST. ANTENNA AND NEW ANTENNA FACE.
  - REFER TO THE FINAL RFDS PROVIDED BY VERIZON FOR THE LATEST INFORMATION REGARDING EQUIPMENT MODELS, REQUIRED CABLES & DOWN-TILT INFORMATION.
  - APPLY 3M FILM OVER ALL EXPOSED MMWAVE ANTENNAS COLOR TO MATCH EXIST. STRUCTURE (WHERE APPLICABLE) COORDINATE WITH VERIZON CONSTRUCTION MANAGER AND LL.
  - PAINT ALL NEW NON-SAMSUNG MT6407-77A ANTENNAS & APPURTENANCES TO MATCH EXIST. STRUCTURE (WHERE APPLICABLE) COORDINATE w/ VERIZON CONSTRUCTION MANAGER & BUILDING OWNER.



Cellco Partnership d/b/a

**verizon**

21 ALEXANDER DRIVE  
WALLINGFORD, CT 06495

ALL-POINTS TECHNOLOGY CORPORATION

887 VAUXHALL STREET EXTENSION - SUITE 311  
WATERFORD, CT 06385  
PHONE: (860) 463-9467  
WWW.ALLPOINTS.TECH.COM FAX: (860) 463-9505

**CONSTRUCTION DOCUMENTS**

NO.	DATE	REVISION
5	04/22/21	FOR REVIEW - JRM
1	06/18/21	REV. FOR FILING - JRM
2	07/08/21	REV. FOR FILING - JRM
3	10/21/21	REV. FOR FILING - JRM
4		
5		
6		



**DESIGN PROFESSIONALS OF RECORD**

PROF. MICHAEL S. TRODDEN P.E.  
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.  
ADD: 567 VAUXHALL STREET EXT. SUITE 311  
WATERFORD, CT 06385  
OWNER: VERIZON WIRELESS, P.O. BOX 2549  
ADDRESS: ADDISON, TX 75001

**CONVENTRY EAST CT**

SITE: 1712 MAIN STREET  
ADDRESS: CONVENTRY, CT 06239  
APT FILING NUMBER: CT141\_12679

DATE: 04/22/21 CHECKED BY: JRM  
VZ PROJECT CODE: 2021222146  
VZ LOCATION CODE: 468166  
VZ FUSE ID: 162721141

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

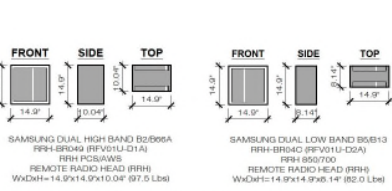
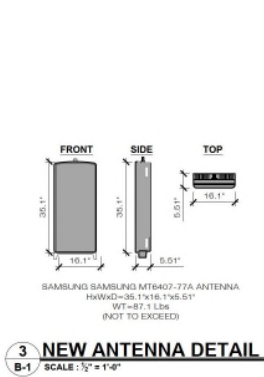
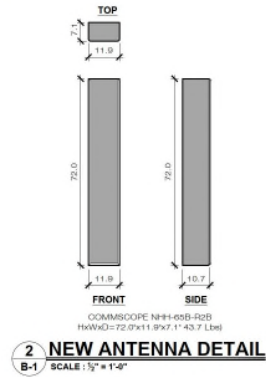
SHEET NUMBER: **C-1**

- SCOPE OF WORK (ALL) SECTORS**
- EXIST. ANTENNA (TO BE REPLACED) MODEL: ANDREW HBXK-45170S-A2M
  - EXIST. ANTENNA (TO BE REPLACED) MODEL: ANDREW LHX-61426-A1M
  - EXIST. ANTENNA (TO BE REMOVED) MODEL: ANDREW LHX-61426-A1M
  - EXIST. RRH (TO BE REPLACED) WITHIN EXIST. EQUIP. SHELTER MODEL: NOKIA B13 2x45W LTE RRH
  - EXIST. RRH (TO BE REPLACED) MODEL: NOKIA B6 RRH 2x45W AWS
  - EXIST. 6 OVP (TO BE REPLACED) (BETA & GAMMA) MODEL: RAYCAP R4DD-3315-PF-48
  - NEW 6 OVP (ALPHA & BETA) MODEL: RAYCAP R4DD-3315-PF-48
  - NEW ANTENNA MODEL: SAMSUNG MT6407-77A
  - NEW ANTENNA MOUNTED VIA NEW SIDE BY SIDE MOUNT BRACKETS (COMMSCOPE BSAMNT-SBS-1-2) MODEL: COMMSCOPE N44-05B-P08
  - NEW DUAL BAND RRH MODEL: SAMSUNG B13385 RRH-BR040 (RFV1U-D25)
  - NEW DUAL BAND RRH MODEL: SAMSUNG B06262 RRH-BR040 (RFV1U-D14)



EQUIPMENT DATA									
EQUIPMENT SPECIFICATIONS									
SECTOR	ANTENNA MAKE/MODEL	QTY	AZIMUTH	EQUIPMENT STATUS	HEIGHT (ft)	WIDTH (ft)	DEPTH (ft)	WEIGHT (LBS)	
ALPHA	SAMSUNG MT6407-77A	1	40°	NEW	35.4"	16.1"	5.5"	87.1#	
	COMMSCOPE NHH-66B-R2B	1	40°	NEW	72.0	11.9	7.1	43.7#	
	COMMSCOPE NHH-66B-R2B	1	40°	NEW	72.0	11.9	7.1	43.7#	
BETA	850-ANDREW LNX-6514DS-A1M	1	40°	ETR	72.7	11.9	7.1	36.4#	
	SAMSUNG MT6407-77A	1	150°	NEW	35.4"	16.1"	5.5"	87.1#	
	COMMSCOPE NHH-66B-R2B	1	150°	NEW	72.0	11.9	7.1	43.7#	
GAMMA	COMMSCOPE NHH-66B-R2B	1	150°	NEW	72.0	11.9	7.1	43.7#	
	850-ANDREW LNX-6514DS-A1M	1	150°	ETR	72.7	11.9	7.1	36.4#	
	SAMSUNG MT6407-77A	1	270°	NEW	35.4"	16.1"	5.5"	87.1#	
APPERTENANCE MAKE/MODEL	SAMSUNG B2/B66A RRH-BR040 (RFV01U-D1A)	3	-	NEW	14.9	14.9	10.04	97.5	
	SAMSUNG B5/B13 RRH-BR040 (RFV01U-D2A)	3	-	NEW	14.9	14.9	8.14	82.0	
	RAYCAP RH8DC-3315-PF-48	2	-	NEW	15.73	10.25	26.9	32.0	

- (1) ETR DENOTES EXIST. TO REMAIN.  
(2) WEIGHT WITHOUT MOUNTING BRACKET.  
(3) ANTENNA DATA BASED ON RFDS DATED 10/20/20.  
(4) EQUIPMENT CONFIGURATION INDICATED ABOVE VIEWED FROM THE FRONT.  
(5) NOT TO EXCEED

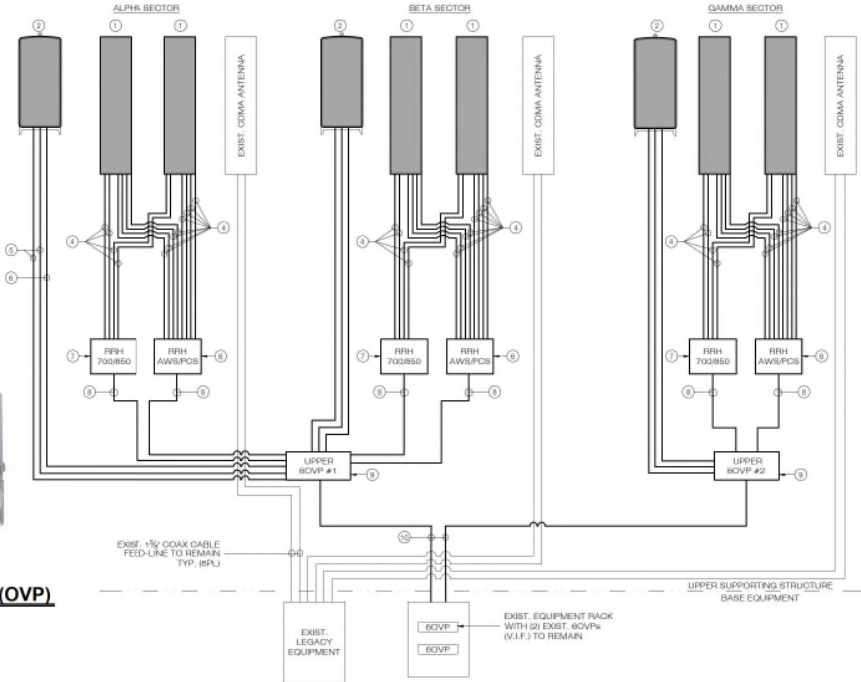


NOTE: WEIGHTS INCLUDE SOLAR SHIELD & MOUNTING BRACKET



BILL OF MATERIALS				COMMENTS
QTY	LENGTH			
6				COMMSCOPE NHH-66B-R2B MOUNTED TO EXIST. PIPE MAST VIA NEW SBS MOUNT (COMMSCOPE DSAMNT-S05-1-2)
3				MOUNTED ON EXIST. PIPE MAST
36	15 FT			ROUTE FROM RRH TO ANTENNAS
8	15 M			ROUTE FROM UPPER OVP TO ANTENNAS
3	15 M			PROPRIETARY POWER CABLE FROM UPPER OVP TO ANTENNAS
3				SAMSUNG B2/B66 RRH-BR040 (RFV01U-D1A) MOUNTED TO EXIST. PIPE MAST
3				SAMSUNG B5/B13 RRH-BR040 (RFV01U-D2A) MOUNTED TO EXIST. PIPE MAST
6	10M			PROPRIETARY POWER & FIBER CABLES
2				(RAYCAP RH8DC-3315-PF-48)
2	100 ± FT			6x12 LOW INDUCTANCE HYBRID CABLE

- NOTES: 1. INFORMATION SHOWN HEREON IS FOR USE BY VERIZON EQUIPMENT OPERATIONS.  
2. INFORMATION IS BASED ON RFDS DATED 10/20/20.  
3. \* DENOTES EQUIPMENT DESIGNATED FOR LEASING ONLY (WHERE APPLICABLE)  
4. INSTALL ALARM BATTERIES AT ALL OVPs WHERE REQUIRED. COORDINATE w/ VERIZON EQUIPMENT ENGINEERING.  
5. INSTALL UP-CONVERTERS LOCATED AT BASE OVPs WHERE REQUIRED. COORDINATE w/ VERIZON EQUIPMENT ENGINEERING AS NECESSARY.  
6. COORDINATE ANTENNA CABLING REQUIREMENTS WITH VERIZON ENGINEERING.  
7. CONTRACTOR SHALL INSTALL NEW SIDE-BY-SIDE & DUAL-MOUNT BRACKETS PER ANTENNA MOUNT MANUFACTURER RECOMMENDATIONS, INCLUDING VERIFICATION OF MINIMUM PIPE MAST DIAMETER REQUIRED TO INSTALL NEW MOUNT BRACKETS, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD SHOULD EXIST. PIPE MAST REQUIRE REPLACEMENT TO SUPPORT THE NEW MOUNT BRACKETS.



NOTE: EQUIPMENT CONFIGURATION AS VIEWED FROM BEHIND

Cellco Partnership d/b/a  
**verizon**  
28 ALEXANDER DRIVE  
WALLINGFORD, CT 06492

**ALL-POINTS TECHNOLOGY CORPORATION**  
567 VAUXHALL STREET EXTENSION - SUITE 311  
WATERFORD, CT 06385 PHONE: (860) 463-9687  
WWW.ALLPOINTS.TECH.COM FAX: (860) 463-0035

**CONSTRUCTION DOCUMENTS**

NO	DATE	REVISION
8	04/22/21	FOR REVIEW - JRM
1	06/18/21	REV. FOR FILING - JRM
2	07/08/21	REV. FOR FILING - JRM
3	10/21/21	REV. FOR FILING - JRM
4		
5		
6		

STATE OF CONNECTICUT  
MICHAEL S. TRODDEN  
33313  
LICENSED PROFESSIONAL ENGINEER

**DESIGN PROFESSIONALS OF RECORD**

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

OWNER: VERIZON WIRELESS, P.O. BOX 2549  
ADDRESS: ADDISON, TX 75001

**COVENTRY EAST CT**

SITE: 1712 MAIN STREET  
ADDRESS: COVENTRY, CT 06230

APF FILING NUMBER: CT141\_12670

DRAWN BY: JRM

DATE: 04/22/21

VZ PROJECT CODE: 20212221466

VZ LOCATION CODE: 468166

VZ FUZE ID: 162721441

**SHEET TITLE:**  
RF BILL OF MATERIALS, MECHANICAL SPECIFICATIONS & EQUIPMENT DETAILS

**SHEET NUMBER:**  
**B-1**

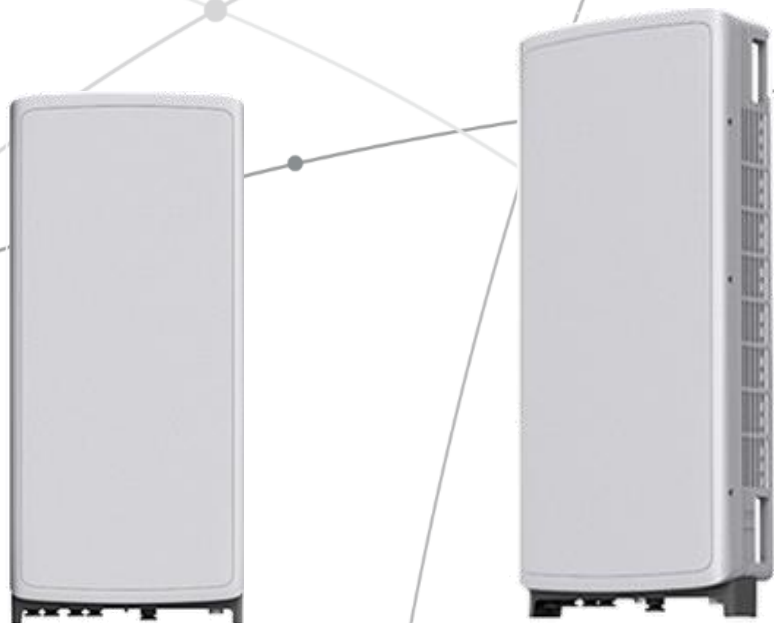


## **SAMSUNG** C-Band 64T64R Massive MIMO Radio

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



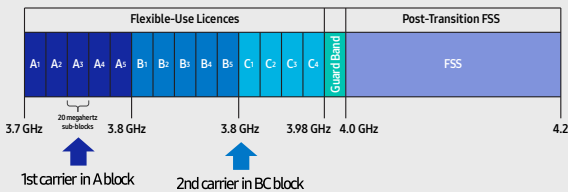
## Points of Differentiation

### 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

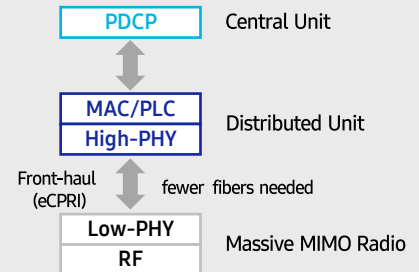
C-Band spectrum supported by Massive MIMO Radio



### 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.

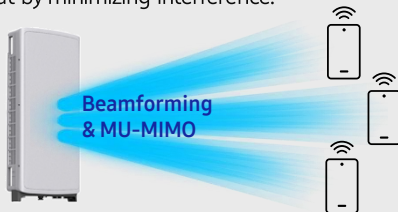


### Enhanced Performance

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.

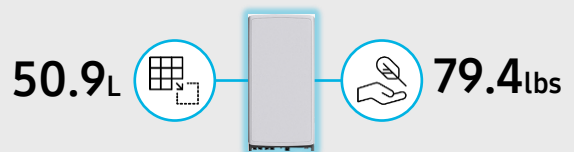
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



### 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.

# SAMSUNG

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

RFV01U-D1A

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



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

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

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

### Features and Benefits

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

### Key Technical Specifications

Duplex Type: FDD

Operating Frequencies:

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

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

Instantaneous Bandwidth:

70MHz(B66) + 60MHz(B2)

RF Chain: 4T4R/2T4R/2T2R

Output Power: Total 320W

DU-RU Interface: CPRI (10Gbps)

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

Weight: 38.3kg

Input Power: -48V DC

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

Cooling: Natural convection

# SAMSUNG

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

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



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

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

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

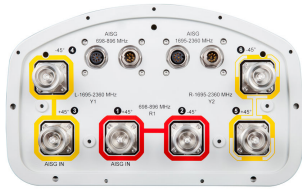
### Features and Benefits

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

### Key Technical Specifications

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

# NHH-65B-R2B



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

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

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Color</b>	Light gray
<b>Effective Projective Area (EPA), frontal</b>	0.26 m <sup>2</sup>   2.799 ft <sup>2</sup>
<b>Effective Projective Area (EPA), lateral</b>	0.22 m <sup>2</sup>   2.368 ft <sup>2</sup>
<b>Grounding Type</b>	RF connector body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
<b>RF Connector Interface</b>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	4
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, total</b>	6

## Remote Electrical Tilt (RET) Information, General

<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	2 female   2 male

## Dimensions

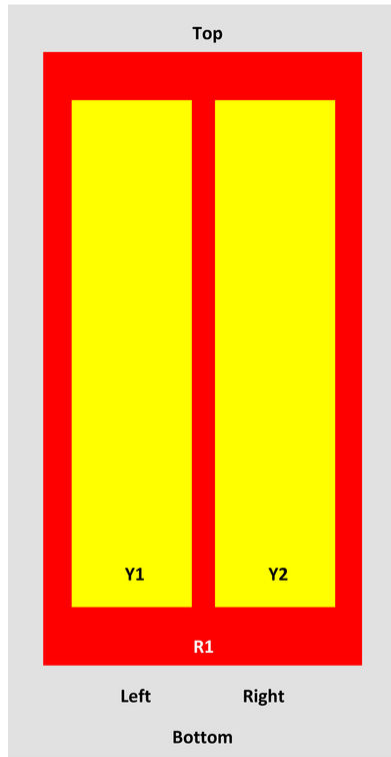
<b>Width</b>	301 mm   11.85 in
<b>Length</b>	1828 mm   71.969 in
<b>Depth</b>	180 mm   7.087 in

## Array Layout



# NHH-65B-R2B

NHH



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-896	1-2	1	ANXXXXXXXXXXXXXXXXX1
Y1	1695-2360	3-4	2	ANXXXXXXXXXXXXXXXXX2
Y2	1695-2360	5-6		

View from the front of the antenna  
(Sizes of colored boxes are not true depictions of array sizes)

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2360 MHz   698 – 896 MHz
<b>Total Input Power, maximum</b>	900 W @ 50 °C

## Remote Electrical Tilt (RET) Information, Electrical

<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Power Consumption, normal conditions, maximum</b>	13 W
<b>Input Voltage</b>	10–30 Vdc
<b>Internal Bias Tee</b>	Port 1   Port 3
<b>Internal RET</b>	High band (1)   Low band (1)

# NHH-65B-R2B

## Electrical Specifications

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

## Electrical Specifications, BASTA

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	2300–2360
Gain by all Beam Tilts, average, dBi	14.5	14.5	17.3	17.7	18.1	18.5
Gain by all Beam Tilts Tolerance, dB	±0.6	±1.1	±0.4	±0.4	±0.5	±0.3
Gain by Beam Tilt, average, dBi	0°   14.4 7°   14.6 14°   14.3	0°   14.7 7°   14.7 14°   14.1	0°   17.2 4°   17.3 7°   17.3	0°   17.6 4°   17.7 7°   17.7	0°   18.0 4°   18.2 7°   18.1	0°   18.3 4°   18.5 7°   18.6
Beamwidth, Horizontal Tolerance, degrees	±2	±2.1	±3	±4.1	±6.5	±2.9
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.7	±0.3	±0.2	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	13	14	16	16	17	15
Front-to-Back Total Power at 180° ± 30°, dB	23	22	27	27	25	25
CPR at Boresight, dB	22	21	23	23	22	19
CPR at Sector, dB	10	7	16	13	11	4

## Material Specifications

Radiator Material

Low loss circuit board

# NHH-65B-R2B

---

**Reflector Material** Aluminum

## Mechanical Specifications

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

## Packaging and Weights

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

## Regulatory Compliance/Certifications

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



## Included Products

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

## \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance

# **ATTACHMENT 3**

	General	Power	Density					
<b>Site Name: Coventry E</b>								
<b>Tower Height: Verizon @ 150ft</b>								
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	CALC. POWER DENS	FREQ.	MAX. PERMISS. EXP.	FRACTION MPE	Total
*Sprint	1	377	180	850	0.0045	0.5667	0.08%	
*Sprint	2	942	180	850	0.0224	0.5667	0.39%	
*Sprint	5	512	180	1900	0.0304	1.0000	0.30%	
*Sprint	2	1280	180	1900	0.0304	1.0000	0.30%	
*Sprint	8	778	180	2500	0.0739	1.0000	0.74%	
*Unknown	1	80	190	75.98	0.0008	0.2000	0.04%	
*Unknown	1	1000	190	449.875	0.0106	0.2999	0.35%	
*Unknown	1	200	190	33.8	0.0021	0.2000	0.11%	
*Unknown	1	750	160	450	0.0114	0.3000	0.38%	
*Unknown	1	600	160	450	0.0091	0.3000	0.30%	
*Unknown	1	100	160	450	0.0015	0.3000	0.05%	
*Unknown	1	30	140	145.63	0.0006	0.2000	0.03%	
*Unknown	1	15	140	440.925	0.0003	0.2940	0.01%	
*Unknown	1	8	140	173.20375	0.0002	0.2000	0.01%	
*Unknown	1	30	190	50.4	0.0003	0.2000	0.02%	
*Unknown	1	2	120	420.5	0.0001	0.2803	0.00%	
*Unknown	1	250	190	152.0075	0.0027	0.2000	0.13%	
*Unknown	1	4	188	903	0.0000	0.6020	0.00%	
*Unknown	1	40	95	33.44	0.0018	0.2000	0.09%	
*Unknown	1	80	75	45.4	0.0060	0.2000	0.30%	
*Unknown	1	80	95	45.14	0.0036	0.2000	0.18%	
*Unknown	1	200	75	33.8	0.0151	0.2000	0.76%	
*Unknown	1	100	120	153.955	0.0028	0.2000	0.14%	
*Unknown	1	4	188	903	0.0000	0.6020	0.00%	
*Unknown	1	80	110	45.14	0.0027	0.2000	0.13%	
*Unknown	1	50	115	47.54	0.0015	0.2000	0.08%	
*Pocket (now MetroPCS)	3	631	95	2130	0.0859	1.0000	0.86%	
<b>VZW 700</b>	<b>4</b>	<b>689</b>	<b>150</b>	<b>0.0044</b>	<b>751</b>	<b>0.5007</b>	<b>0.88%</b>	
<b>VZW CDMA</b>	<b>2</b>	<b>467</b>	<b>150</b>	<b>0.0015</b>	<b>877.26</b>	<b>0.5848</b>	<b>0.26%</b>	
<b>VZW Cellular</b>	<b>4</b>	<b>699</b>	<b>150</b>	<b>0.0045</b>	<b>874</b>	<b>0.5857</b>	<b>0.77%</b>	
<b>VZW PCS</b>	<b>4</b>	<b>1496</b>	<b>150</b>	<b>0.0096</b>	<b>1975</b>	<b>1.0000</b>	<b>0.96%</b>	
<b>VZW AWS</b>	<b>4</b>	<b>1671</b>	<b>150</b>	<b>0.0107</b>	<b>2120</b>	<b>1.0000</b>	<b>1.07%</b>	
<b>VZW CBAND</b>	<b>4</b>	<b>6531</b>	<b>150</b>	<b>0.0418</b>	<b>3730.08</b>	<b>1.0000</b>	<b>4.18%</b>	
								<b>13.90%</b>
* Source: Siting Council								

# **ATTACHMENT 4**



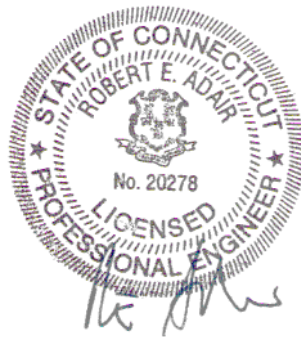
CONDITION ASSESSMENT & STRUCTURAL ANALYSIS REPORT  
FOR A PROPOSED ANTENNA & APPURTENANCE  
INSTALLATION ON AN EXISTING 190-ft SELF-SUPPORTING TOWER  
COVENTRY, CONNECTICUT

Prepared for  
Verizon Wireless

Verizon Wireless Site Ref:  
468160 Coventry East CT

Site Address: Coventry Town Hall, 1712 Main Street, Coventry, CT 06238  
APT Filing No. CT141\_12070

Rev. 0: June 18, 2021  
Rev. 1: July 9, 2021  
Rev. 2: October 21, 2021



**CONDITION ASSESSMENT & STRUCTURAL ANALYSIS REPORT**  
**190' SELF-SUPPORTING TOWER**  
**COVENTRY, CONNECTICUT**  
**prepared for**  
**Verizon Wireless**

**EXECUTIVE SUMMARY:**

All-Points Technology Corporation, P.C. (APT) performed a condition assessment and structural evaluation of an existing 190-ft self-supporting lattice tower structure to support a proposed Verizon Wireless equipment modification.

The proposed Verizon Wireless antenna and appurtenance modification consists of the replacement of nine existing panel antennas with nine new panel antennas, replacement of their three existing remote radio heads (RRHs) with six new RRHs and replacement of two existing 6-OVPs with two new 6-OVPs. Equipment will be installed on three existing 15' sector mounts at 150' which will be receiving modifications. Equipment will be fed by six 1-5/8" feed lines and two new 6x12 low inductance hybrid lines as detailed below.

Our analysis indicates that the subject tower structure meets the requirements of the International Building Code 2015, as amended by the 2018 Connecticut State Building Code, and ANSI/TIA-222-H standard with the existing and proposed equipment loading.

Evaluation of the existing foundation was limited to a global stability check of the structure and was based on dimensions included within ROHN foundation drawings. APT found the foundation to be adequately sized for the existing and proposed loading.

While on-site, **APT noticed the 15' single dipole at 50' is hanging from tower and also noticed a loose ground lug on leg A at 177'**. We recommend the dipole be properly connected to the tower and the loose ground lug nut be replaced completely and not simply tightened.

**INTRODUCTION:**

A condition assessment and structural analysis was performed on the above-mentioned communications tower by APT for Verizon Wireless. The subject tower is located at 1712 Main Street at the Town Hall in Coventry, Connecticut.

The following information was utilized in the preparation of this analysis:

- Field notes & photos from APT's site visit on February 25, 2021.
- ROHN tower and foundation drawings, drawing #A926578 dated July 25, 1996.
- Structural Analysis by APT, project #CT141370 dated March 4, 2004.
- Structural Opinion Letter by APT, project #CT141370 dated June 3, 2004.
- Structural Analysis by Centek Engineering, project #11001.CO46 dated September 8, 2011.
- Radio Frequency Emissions Analysis by EBI Consulting, project #6218004561 dated June 20, 2018.
- Mount Analysis by Maser Consulting, project #17924002A dated July 23, 2018.
- RFDS detailing VzW's proposed equipment changes dated October 20, 2020.
- Antenna Mount Analysis Report by Maser Consulting, project #21777167A dated May 6, 2021.
- Post-Mod Antenna Mount Analysis Report and PMI Requirements by Maser Consulting, project #21777167A dated June 16, 2021.
- Mount Modification Drawings by Maser Consulting, project #21777167A Rev. 0 dated June 16, 2021.
- Construction Drawings by APT, project #CT141\_12070, marked Rev. 3 dated October 21, 2021.

The structure is a 190-foot, galvanized steel, self-supporting Model SSV tower manufactured by ROHN. It is a three-legged structure with tubular steel legs and angle steel X-bracing.



The analysis was conducted using the following equipment inventory (proposed equipment shown in **bold text**):

Carrier	Antenna and Appurtenance Make/Model	Elevation (AGL)	Status	Mount Type	Coax/Feed-Line
	(2) Obstruction Lights	192'	E	Leg	1/2"
	PD1142-3 Omni Whip	192'	E	Pipe extension	1-1/4"
	(2) ASP705 20' Omni Whip	192'	E	Pipe extension	(2) 7/8"
	Halo	192'	E	Pipe extension on standoff below	1/2"
	DB420, 1' Square Panel	192'	E	Pipe extension on Leg	1-1/4"
	Ground Plane Omni	190'	E	Leg	7/8"
	(2) 3' Yagi	190'	E	Pipe extension	(2) 1/2"
	4' Omni Whip	190'	E	4' standoff	3/8"
	Paraflector Grid	187'	E	4' standoff	7/8"
	PD1142-2A Omni Whip	187'	E	4' standoff	1/2"
Sprint	(3) TD-RRH8x20-25 RRHs	183'	E	(3) 14' sector mounts w/ kicker kit	(6) 1-5/8", 1-1/4"
	(3) RFS APXVTM14-ALU-I120 & (3) Andrew NNVV-65B-R4 panels, (3) RRH4x45 1900 MHz RRHs, (6) RRH2x50 800 MHz RRHs,	180'			
	DB420	162'	E	4' sidearm	7/8"
	(2) ASP705 20' Omni Whips, 2' Microwave Dish	156'	E	(2) 4' sidearm	(2) 7/8", 7/8", 1/4"
Verizon Wireless	<b>(3) Samsung MT6407-077A antennas,</b> (3) Andrew LNX-6514DS-A1M & <b>(6) Commscope NHH-65B-R2B panels,</b> <b>(3) Samsung RFV01U-D1A RRHs,</b> <b>(3) Samsung RFV01U-D2A RRHs,</b> <b>(2) Raycap RHSDC-3315-PF-48 6-OVP</b>	150'	<b>P</b> <b>E</b> <b>P</b> <b>P</b> <b>P</b> <b>P</b>	(3) 15' T-Frame sector mounts w/ <b>(3) SFK3 reinforcement kits</b>	(6) 1-5/8", <b>(2) 6x12 LI hybrid</b>
	Paraflector	144'	E	Leg	7/8"
	3' Yagi 20' (DB436) Omni Whip, DB230-2A 4-bay Dipole, 4' Yagi	142'	E	(3) 4' sidearm	1/2", 7/8", 7/8", 1/2"
	Paraflector	140'	E	Leg	3/8"
	Single Dipole	136'	E	Leg	1/2"
	Dipole	113'	E	4' sidearm	1/2"
	14' Omni Whip	109'	E	4' sidearm	7/8"
	14' Omni Whip	103'	E	4' sidearm	7/8"
	GPS	102'	E	1' standoff plate	1/2"
	DB212 Single Dipole	94'	E	Leg	1/2"
	(2) 8" x 3" x 1-1/2" Panels	92'	E	On bracing	7/8", 1/4"
	16' Omni Whip	84'	E	4' sidearm	7/8"
	16' Omni Whip	74'	E	6' sidearm	7/8"
	PD320 Single Dipole	74'	E	Leg	1/2"
	Large Single Dipole	70'	E	Leg	1/2"
	3' Omni Whip	60'	E	2' standoff	1/2"
	DB212 Single Dipole (hanging)	50'	E	Leg	1/2"
	Large Single Dipole	50'	E	Leg	1/2"
	Large Single Dipole	32'	E	Leg	1/2"
	Large Single Dipole	31'	E	Leg	1/2"
	PD400 12' Omni Whip, 6' Yagi	17'	E	4' sidearm	(2) 1/2"

Notes:

1. E = Existing; P = Proposed.
2. Currently installed – six LNX-6514DS-A1M & six HBXX-6517DS-A2M panel antennas, three RRH2x60-AWS RRHs, and two 6-OVPs.

**CONDITION ASSESSMENT:**

**General Observations:** The tower, a galvanized steel structure, appeared to be in sound condition. No signs of movement or overstress of the tower were observed. **APT noticed a loose ground lug on leg A at 177'.**

**Legs:** Leg members appeared to be in sound condition.

**Bracing:** Bracing and connections were visually observed to the maximum extent practicable. All braces and connections that were observed appeared to be sound, with no loose or missing bolts noted.

**Antenna Connections:** Antenna mounting hardware was in good condition, with galvanized mounts and hardware prevalent. **APT noticed the 15' single dipole at 50' is hanging from tower.**

**Splice Connections:** Observed splice bolts and connections were in good condition. No loose or missing bolts or nuts were observed.

**Base Foundations:** Visible concrete appeared to be in good condition, with no signs of movement or overstress noted.

**STRUCTURAL ANALYSIS:**

**Methodology:**

This structural analysis has been prepared in accordance with the ANSI/TIA-222-H standard entitled "Structural Standard for Antenna Supporting Structures, Antennas and Small Wind Turbine Support Structures," the American Institute of Steel Construction (AISC) Manual of Steel Construction, and the 2015 International Building Code (IBC) as amended by the 2018 Connecticut State Building Code.

Antenna, appurtenance and mount assembly loads were evaluated utilizing the ANSI/TIA-222-H standard.

- o Load Case 1: 119 mph (3-second gust), 0" ice
- o Load Case 2: 50mph (3-second gust) w/ 1.50" ice thickness
- o Load Case 3: 60mph (3-second gust) (Service Load)
- o Structure Class II
- o Exposure Category B
- o Topographic Category 1.

**ANALYSIS RESULTS:**

The analysis was conducted in accordance with the criteria outlined above with the aforementioned existing and proposed equipment loading. The following table summarizes the results of the analysis:

Elevation	Legs <sup>1</sup>	Bracing <sup>2</sup>
180'-190'	16%	20% <sup>3</sup>
160'-180'	64%	50% <sup>3</sup>
140'-160'	86%	69% <sup>3</sup>
120'-140'	91%	51% <sup>3</sup>
100'-120'	90%	61% <sup>3</sup>
80'-100'	85%	67% <sup>3</sup>
60'-80'	88%	57% <sup>3</sup>
40'-60'	72% <sup>3</sup>	58% <sup>3</sup>
20'-40'	81%	63% <sup>3</sup>
0'-20'	82%	57%

Notes:

1. Based on ASTM A572 Gr. 50 pipes. Pipe diameter and thickness vary.
2. Based on ASTM A572 Gr. 50 and ASTM A36 angles. Angle dimensions and thickness vary.
3. Member connection controls.

**Splice and Anchor Bolts:**

Splice and anchor bolts were evaluated under the proposed loading. All bolts were found to be adequately sized for the proposed loads.

**Base Foundation:**

Evaluation of the existing base foundation was limited to a global stability check of the structure with the existing and proposed loading. Based on the ROHN foundation drawings provided to APT the existing foundation consists of a 32-ft square x 4.5-ft thick reinforced concrete pad. Subgrade conditions were based on the presumptive soil parameters per TIA-222-H Section 9 and Table F-1 (Annex F) & IBC 2015.

The calculated base reactions utilized in the analysis of the foundation system with the existing and proposed loading are as follows:

Load Effect	Calculated Reactions	Usage
Compression	323.5 k	Pass
Uplift	-285.0 k	Pass
Shear	30.3 k	Pass
Overturning Moment	5,055 kip-ft	(FS = 1.97 >1.0) Pass

\*1 kip = 1,000 lbs

**CONCLUSIONS AND RECOMMENDATIONS:**

In conclusion, we find that the existing 190-ft tall self-supporting lattice tower structure and corresponding base foundation, located at 1712 Main Street at the Coventry Town Hall in Coventry, Connecticut meets the requirements of the 2018 Connecticut State Building Code, IBC 2015 and ANSI/TIA-222-H with Verizon Wireless's proposed equipment changes.

While on-site, **APT noticed the 15' single dipole at 50' is hanging from tower and also noticed a loose ground lug on leg A at 177'**. We recommend the dipole be properly connected to the tower and the loose ground lug nut be replaced completely and not simply tightened.

Structural Analysis – Antenna & Appurtenance Installation  
Verizon Wireless Site #468160; Coventry East CT  
1712 Main Street  
Coventry, CT 06328

October 21, 2021  
Page 5  
APT Project #CT141\_12070

Sincerely,  
All-Points Technology Corporation, P.C.

Prepared By:  
All-Points Technology Corporation, P.C.



Robert E. Adair, P.E.  
Principal



Michael T. Larson, P.E.  
Project Engineer

**LIMITATIONS:**

This report is based on the following:

1. Tower/structure is properly installed and maintained.
2. All members and components are in a non-deteriorated condition.
3. All required members are in place.
4. All bolts are in place and are properly tightened.
5. Tower/structure is in plumb condition.
6. All tower members were properly designed, detailed, fabricated, and installed and have been properly maintained since erection.

All-Points Technology Corporation, P.C. (APT) is not responsible for any modifications completed prior to or hereafter which APT is not or was not directly involved. Modifications include but are not limited to:

1. Replacing or reinforcing bracing members.
2. Reinforcing members in any manner.
3. Installing antenna mounts or waveguide cables.
4. Adding or relocating antennas.
5. Extending tower/structure.

APT hereby states that this document represents the entire report and that it assumes no liability for any factual changes that may occur after the date of this report. All representations, recommendations, and conclusions are based upon the information contained and set forth herein. If you are aware of any information which is contrary to that which is contained herein, or you are aware of any defects arising from the original design, material, fabrication and erection deficiencies, you should disregard this report and immediately contact APT. APT disclaims all liability for any representation, recommendation, or conclusion not expressly stated herein.

# ***Appendix A***

*Tower Schematic*

**DESIGNED APPURTENANCE LOADING**

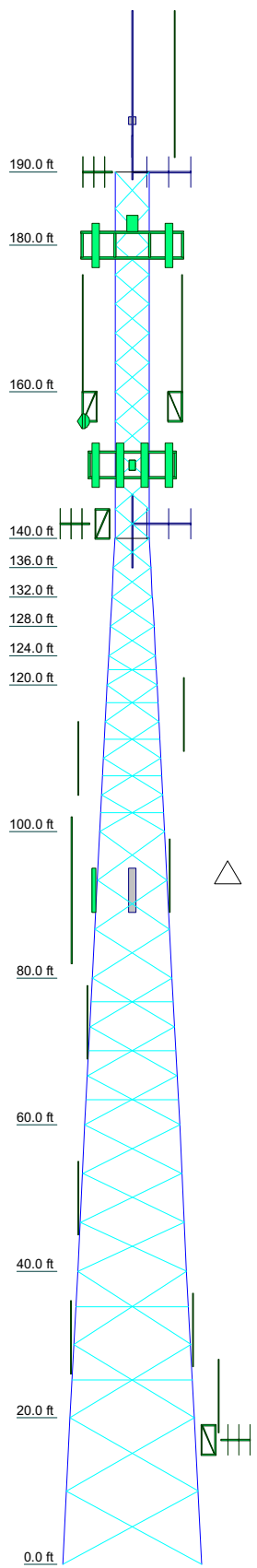
TYPE	ELEVATION	TYPE	ELEVATION
Obstruction light	190	RFV01U-D2A (Verizon Wireless)	150
Obstruction light	190	RFV01U-D2A (Verizon Wireless)	150
PD1142-3	190	RFV01U-D2A (Verizon Wireless)	150
20' x 3" omni whip	190	Raycap RHSDC-3315-PF-48 D-Box (Verizon Wireless)	150
20' x 3" omni whip	190	Raycap RHSDC-3315-PF-48 D-Box (Verizon Wireless)	150
Halo	190	Raycap RHSDC-3315-PF-48 D-Box (Verizon Wireless)	150
DB420	190	Pirot 15' T-Frame Sector Mount (1) (Verizon Wireless)	150
1' square panel	190	Pirot 15' T-Frame Sector Mount (1) (Verizon Wireless)	150
3' Yagi	190	Pirot 15' T-Frame Sector Mount (1) (Verizon Wireless)	150
3' Yagi	190	Pirot 15' T-Frame Sector Mount (1) (Verizon Wireless)	150
Ground plane omni	190	Pirot 15' T-Frame Sector Mount (1) (Verizon Wireless)	150
4' x 1" omni whip	190	Pirot 15' T-Frame Sector Mount (1) (Verizon Wireless)	150
Pirot 4' Side Mount Standoff (1)	188	SitePro1 SFK Reinf Kit (Verizon Wireless)	150
Pirot 4' Side Mount Standoff (1)	188	SitePro1 SFK Reinf Kit (Verizon Wireless)	150
Pirot 4' Side Mount Standoff (1)	188	SitePro1 SFK Reinf Kit (Verizon Wireless)	150
paraflector grid	187	SitePro1 SFK Reinf Kit (Verizon Wireless)	150
PD1142-30	187	SitePro1 SFK Reinf Kit (Verizon Wireless)	150
TD-RRH8x20-25 (Sprint)	183	MT6407-77A (Verizon Wireless)	150
TD-RRH8x20-25 (Sprint)	183	10' single dipole	146 - 136
TD-RRH8x20-25 (Sprint)	183	Paraflector	144
NNVV-65B-R4 (Sprint)	180	Pirot 4' Side Mount Standoff (1)	142
NNVV-65B-R4 (Sprint)	180	3' Yagi	142
NNVV-65B-R4 (Sprint)	180	4' yagi	142
ALU 4x45-1900 MHz RRHs (Sprint)	180	Pirot 4' Side Mount Standoff (1)	142
ALU 4x45-1900 MHz RRHs (Sprint)	180	DB230-2A	142
ALU 4x45-1900 MHz RRHs (Sprint)	180	Pirot 4' Side Mount Standoff (1)	142
(2) ALU 2x50-800 MHz RRHs (Sprint)	180	20' x 3" omni whip	142
(2) ALU 2x50-800 MHz RRHs (Sprint)	180	Paraflector	140
(2) ALU 2x50-800 MHz RRHs (Sprint)	180	14' x 3" omni whip	123 - 109
APXVTM14-ALU-120 (Sprint)	180	10' 2-bay dipole	123 - 113
APXVTM14-ALU-120 (Sprint)	180	14' x 3" omni whip	117 - 103
APXVTM14-ALU-120 (Sprint)	180	Pirot 4' Side Mount Standoff (1)	113
14' sector mount (Sprint)	180	Pirot 4' Side Mount Standoff (1)	109
Kicker kit (Sprint)	180	Pirot 4' Side Mount Standoff (1)	103
14' sector mount (Sprint)	180	1.5' x 1-1/2" standoff	102
Kicker kit (Sprint)	180	GPS on 3' standoff	102
14' sector mount (Sprint)	180	16' x 3" omni whip	100 - 84
Kicker kit (Sprint)	180	DB212-1	94
20' x 3" omni whip	176 - 156	8" x 3" X 1.5" panel	92
20' x 3" omni whip	176 - 156	8" x 3" X 1.5" panel	92
DB420	172 - 162	16' x 3" omni whip	90 - 74
4' sidearm	162	Large single dipole	85 - 70
Pirot 4' Side Mount Standoff (1)	156	4' sidearm	84
Pirot 4' Side Mount Standoff (1)	156	6' sidearm	74
2' dish with radome	156	PD320	74
MT6407-77A (Verizon Wireless)	150	3' x 2" omni whip	63 - 60
MT6407-77A (Verizon Wireless)	150	2' standoff	60
LNX-6514DS-A1M (Verizon Wireless)	150	Large single dipole (hanging)	50
LNX-6514DS-A1M (Verizon Wireless)	150	DB212-1	50
LNX-6514DS-A1M (Verizon Wireless)	150	Large single dipole	32
(2) NHH-65B-R2B (Verizon Wireless)	150	Large single dipole	31
(2) NHH-65B-R2B (Verizon Wireless)	150	PD400	29 - 17
RFV01U-D1A (Verizon Wireless)	150	6' Yagi	17
RFV01U-D1A (Verizon Wireless)	150	Pirot 4' Side Mount Standoff (1)	17
RFV01U-D1A (Verizon Wireless)	150		

**SYMBOL LIST**

MARK	SIZE	MARK	SIZE
A	ROHN 2 STD	C	L2x2x3/16
B	6" EHS w/ HSS7.625x0.375		

**MATERIAL STRENGTH**

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



Section	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13	T14
Legs		ROHN 2.5 STD	ROHN 3 EH	ROHN 3.5 EH	ROHN 4 EH	ROHN 4 EH	ROHN 5 EH	ROHN 5 EH	ROHN 6 EH	ROHN 6 EH	ROHN 6 EH	ROHN 8 EHS	ROHN 8 EHS	ROHN 8 EHS
Leg Grade														
Diagonals														
Diagonal Grade														
Top Girts														
Sec. Horizontals														
Face Width (ft)														
# Panels @ (ft)														
Weight (lb) 20485.5														

**All-Points Technology Corp.** Job: **190' Self-Supporting Tower**  
 567 Vauxhall St. Ext. Suite 311  
 Waterford, CT 06385  
 Phone: (860) 663-1697  
 FAX: (860) 663-0935

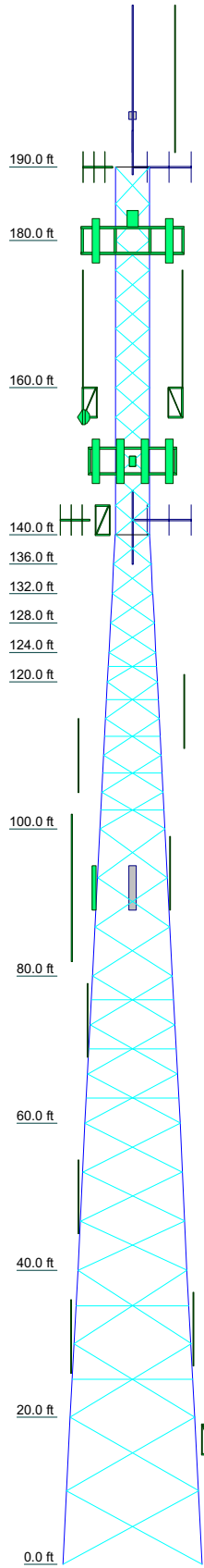
Project: <b>CT141_12070 Coventry East</b>	Client: <b>Verizon Wireless Site: Coventry East</b>	Drawn by: <b>M. Larson</b>	App'd:
Code: <b>TIA-222-H</b>	Date: <b>10/21/21</b>	Scale: <b>NTS</b>	Dwg No. <b>E-1</b>
Path: <small>C:\Users\APT User\Desktop\Work\Jobs\Verizon\CT141_12070 Coventry East\Rev\CT141_12070 Coventry East Rev3.dwg</small>			

**SYMBOL LIST**

MARK	SIZE	MARK	SIZE
A	ROHN 2 STD	C	L2x2x3/16
B	6" EHS w/ HSS7.625x0.375		

**MATERIAL STRENGTH**

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

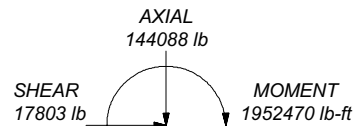


ALL REACTIONS  
ARE FACTORED

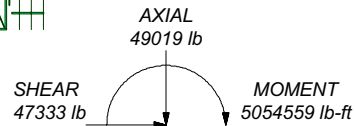
MAX. CORNER REACTIONS AT BASE:

DOWN: 323523 lb  
SHEAR: 30366 lb

UPLIFT: -285019 lb  
SHEAR: 27199 lb



TORQUE 9141 lb-ft  
50 mph WIND - 1.5000 in ICE



TORQUE 26734 lb-ft  
REACTIONS - 119 mph WIND

Section	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13	T14
Legs		ROHN 2.5 STD	ROHN 3 EH	ROHN 3.5 EH	ROHN 4 EH	ROHN 4 EH	ROHN 5 EH	ROHN 5 EH	ROHN 6 EH	ROHN 6 EH	ROHN 8 EHS			
Leg Grade														
Diagonals		L1 3/4x1 3/4x3/16	L2x2x1/4	L1 3/4x1 3/4x3/16	L2x2x3/16	L2 1/2x2 1/2x1/4	L2 1/2x2 1/2x3/16	L2 1/2x2 1/2x3/16	L3x3x1/4	L3 1/2x3 1/2x1/4	L3x3x5/16	L3x3x1/4	L3x3x1/4	L3 1/2x3 1/2x1/4
Diagonal Grade				A36										
Top Girts														
Sec. Horizontals														
Face Width (ft)														
# Panels @ (ft)														
Weight (lb) 20485.5														

<b>All-Points Technology Corp.</b>		<b>Job: 190' Self-Supporting Tower</b>	
567 Vauxhall St. Ext. Suite 311		Project: <b>CT141_12070 Coventry East</b>	
Waterford, CT 06385		Client: Verizon Wireless Site: Coventry East	Drawn by: M. Larson
Phone: (860) 663-1697		Code: TIA-222-H	Date: 10/21/21
FAX: (860) 663-0935			Scale: NTS
		Path:	Dwg No. E-1



# ***Appendix B***

*Photographs*

VERIZON WIRELESS  
190' SELF-SUPPORTING TOWER  
COVENTRY, CONNECTICUT  
VzW SITE: 468160; COVENTRY EAST CT



Overview photos of the 190' self-supporting tower located in Coventry, Connecticut.



Photos of typical existing equipment and mounts.

VERIZON WIRELESS  
190' SELF-SUPPORTING TOWER  
COVENTRY, CONNECTICUT  
VzW SITE: 468160; COVENTRY EAST CT



Photos of Verizon Wireless's typical existing equipment and mounts at 150'.



VERIZON WIRELESS  
190' SELF-SUPPORTING TOWER  
COVENTRY, CONNECTICUT  
VZW SITE: 468160; COVENTRY EAST CT



Additional photos of Verizon Wireless's typical existing equipment and mounts at 150'.



VERIZON WIRELESS  
190' SELF-SUPPORTING TOWER  
COVENTRY, CONNECTICUT  
VzW SITE: 468160; COVENTRY EAST CT



Photos of Sprint's typical existing equipment and mounts at 180'.



VERIZON WIRELESS  
190' SELF-SUPPORTING TOWER  
COVENTRY, CONNECTICUT  
VzW SITE: 468160; COVENTRY EAST CT



Photos of typical existing equipment and mounts.



VERIZON WIRELESS  
190' SELF-SUPPORTING TOWER  
COVENTRY, CONNECTICUT  
VzW SITE: 468160; COVENTRY EAST CT



Additional photos of typical existing equipment and mounts.



VERIZON WIRELESS  
190' SELF-SUPPORTING TOWER  
COVENTRY, CONNECTICUT  
VzW SITE: 468160; COVENTRY EAST CT



Additional photos of typical existing equipment and mounts.





VERIZON WIRELESS  
190' SELF-SUPPORTING TOWER  
COVENTRY, CONNECTICUT  
VzW SITE: 468160; COVENTRY EAST CT



Additional photos of typical existing equipment and mounts.



VERIZON WIRELESS  
190' SELF-SUPPORTING TOWER  
COVENTRY, CONNECTICUT  
VzW SITE: 468160; COVENTRY EAST CT



Photos of typical existing base foundations.



VERIZON WIRELESS  
190' SELF-SUPPORTING TOWER  
COVENTRY, CONNECTICUT  
VzW SITE: 468160; COVENTRY EAST CT



Photo of existing step bolts and safety climbing cable.



Photo of existing waveguide ladder.

# *Appendix C*

*Calculations*

<b>tnxTower</b>  <b>All-Points Technology Corp.</b> 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	<b>Job</b>	190' Self-Supporting Tower	<b>Page</b>	1 of 15
	<b>Project</b>	CT141_12070 Coventry East	<b>Date</b>	09:14:02 10/21/21
	<b>Client</b>	Verizon Wireless Site: Coventry East	<b>Designed by</b>	M. Larson

## Tower Input Data

The main tower is a 3x free standing tower with an overall height of 190.00 ft above the ground line.

The base of the tower is set at an elevation of 0.00 ft above the ground line.

The face width of the tower is 4.65 ft at the top and 19.00 ft at the base.

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

The following design criteria apply:

Tower base elevation above sea level: 0.00 ft.

Basic wind speed of 119 mph.

Risk Category II.

Exposure Category B.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 1.

Crest Height: 0.00 ft.

Nominal ice thickness of 1.5000 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 tower member design is 1.

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

## Feed Line/Linear Appurtenances

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
1/2	A	No	No	Ar (CaAa)	190.00 - 8.00	0.0000	-0.06	1	1	0.5800	0.5800		0.25
1 1/4	A	No	No	Ar (CaAa)	190.00 - 8.00	0.0000	-0.05	1	1	0.7500	1.5500		0.66
7/8	B	No	No	Ar (CaAa)	190.00 - 8.00	0.0000	0.025	2	2	1.1100	1.1100		0.54
1/2	A	No	No	Ar (CaAa)	190.00 - 8.00	0.0000	-0.04	1	1	0.5800	0.5800		0.25
1 1/4	C	No	No	Ar (CaAa)	190.00 - 8.00	0.0000	-0.04	1	1	0.7500	1.5500		0.66
7/8	C	No	No	Ar (CaAa)	190.00 - 8.00	0.0000	0.06	1	1	1.1100	1.1100		0.54
1/2	B	No	No	Ar (CaAa)	190.00 - 8.00	0.0000	0.04	2	2	0.5800	0.5800		0.25
3/8	A	No	No	Ar (CaAa)	190.00 - 8.00	0.0000	-0.07	1	1	0.4400	0.4400		0.08
7/8	B	No	No	Ar (CaAa)	187.00 - 8.00	0.0000	0.05	1	1	1.1100	1.1100		0.54
1/2	A	No	No	Ar (CaAa)	187.00 - 8.00	0.0000	-0.02	1	1	0.5800	0.5800		0.25
1 5/8 (Sprint)	A	No	No	Ar (CaAa)	180.00 - 8.00	0.0000	0	2	2	0.5000	1.9800		1.04
1 5/8 (Sprint)	B	No	No	Ar (CaAa)	180.00 - 8.00	0.0000	0	2	2	0.5000	1.9800		1.04
1 5/8	C	No	No	Ar (CaAa)	180.00 - 8.00	0.0000	0	2	2	0.5000	1.9800		1.04

<b>tnxTower</b>  <b>All-Points Technology Corp.</b> 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	<b>Job</b>	190' Self-Supporting Tower	<b>Page</b>	2 of 15
	<b>Project</b>	CT141_12070 Coventry East	<b>Date</b>	09:14:02 10/21/21
	<b>Client</b>	Verizon Wireless Site: Coventry East	<b>Designed by</b>	M. Larson

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
(Sprint) 1 1/4	C	No	No	Ar (CaAa)	8.00 180.00 -	0.0000	0	1	1	0.7500	1.5500		0.66
(Sprint) 7/8	A	No	No	Ar (CaAa)	8.00 162.00 -	0.0000	-0.1	1	1	1.1100	1.1100		0.54
7/8	A	No	No	Ar (CaAa)	8.00 156.00 -	0.0000	0.03	2	2	1.1100	1.1100		0.54
7/8	B	No	No	Ar (CaAa)	8.00 156.00 -	0.0000	0.05	1	1	1.1100	1.1100		0.54
1/4	B	No	No	Ar (CaAa)	8.00 156.00 -	0.0000	0.07	1	1	0.2500	0.2500		0.05
1 5/8 (VzW)	A	No	No	Ar (CaAa)	8.00 150.00 -	0.0000	0.4	6	6	0.5000	1.9800		1.04
6x12 LI hybrid (VzW)	A	No	No	Ar (CaAa)	8.00 150.00 -	2.0000	0.38	2	2	0.7500	1.5500		1.88
7/8	B	No	No	Ar (CaAa)	8.00 144.00 -	0.0000	0.08	1	1	1.1100	1.1100		0.54
7/8	B	No	No	Ar (CaAa)	8.00 142.00 -	0.0000	0.07	1	1	1.1100	1.1100		0.54
1/2	B	No	No	Ar (CaAa)	8.00 142.00 -	0.0000	0.06	1	1	0.5800	0.5800		0.25
1/2	C	No	No	Ar (CaAa)	8.00 142.00 -	0.0000	-0.02	1	1	0.5800	0.5800		0.25
7/8	C	No	No	Ar (CaAa)	8.00 142.00 -	0.0000	0.03	1	1	1.1100	1.1100		0.54
3/8	B	No	No	Ar (CaAa)	8.00 140.00 -	0.0000	0.1	1	1	0.4400	0.4400		0.08
1/2	C	No	No	Ar (CaAa)	8.00 136.00 -	0.0000	0.03	1	1	0.5800	0.5800		0.25
1/2	C	No	No	Ar (CaAa)	8.00 113.00 -	0.0000	0.02	1	1	0.5800	0.5800		0.25
7/8	B	No	No	Ar (CaAa)	8.00 109.00 -	0.0000	-0.06	1	1	1.1100	1.1100		0.54
7/8	C	No	No	Ar (CaAa)	8.00 103.00 -	0.0000	-0.05	1	1	1.1100	1.1100		0.54
1/2	B	No	No	Ar (CaAa)	8.00 102.00 -	0.0000	-0.02	1	1	0.5800	0.5800		0.25
1/2	A	No	No	Ar (CaAa)	8.00 94.00 - 8.00	0.0000	0.05	1	1	0.5800	0.5800		0.25
7/8	B	No	No	Ar (CaAa)	8.00 92.00 - 8.00	0.0000	0.08	1	1	1.1100	1.1100		0.54
1/4	B	No	No	Ar (CaAa)	8.00 92.00 - 8.00	0.0000	0.09	1	1	0.2500	0.2500		0.05
7/8	C	No	No	Ar (CaAa)	8.00 84.00 - 8.00	0.0000	0.05	1	1	1.1100	1.1100		0.54
7/8	C	No	No	Ar (CaAa)	8.00 74.00 - 8.00	0.0000	-0.07	1	1	1.1100	1.1100		0.54
1/2	C	No	No	Ar (CaAa)	8.00 74.00 - 8.00	0.0000	-0.08	1	1	0.5800	0.5800		0.25
1/2	A	No	No	Ar (CaAa)	8.00 70.00 - 8.00	0.0000	0.06	1	1	0.5800	0.5800		0.25
1/2	A	No	No	Ar (CaAa)	8.00 60.00 - 8.00	0.0000	0.1	1	1	0.5800	0.5800		0.25
1/2	A	No	No	Ar (CaAa)	8.00 50.00 - 8.00	0.0000	0.07	1	1	0.5800	0.5800		0.25
1/2	A	No	No	Ar (CaAa)	8.00 50.00 - 8.00	0.0000	0.09	1	1	0.5800	0.5800		0.25
1/2	A	No	No	Ar (CaAa)	8.00 32.00 - 8.00	0.0000	0.03	1	1	0.5800	0.5800		0.25
1/2	C	No	No	Ar (CaAa)	8.00 31.00 - 8.00	0.0000	-0.06	1	1	0.5800	0.5800		0.25
1/2	A	No	No	Ar (CaAa)	8.00 17.00 - 8.00	0.0000	-0.07	2	2	0.5800	0.5800		0.25
Feedline Ladder (Af)	A	No	No	Af (CaAa)	8.00 190.00 -	0.0000	0	1	1	3.0000	3.0000		8.40
Feedline Ladder (Af)	A	No	No	Af (CaAa)	8.00 190.00 -	0.0000	0.4	1	1	3.0000	3.0000		8.40
Feedline Ladder (Af)	B	No	No	Af (CaAa)	8.00 190.00 -	0.0000	0	1	1	3.0000	3.0000		8.40
Feedline Ladder (Af)	C	No	No	Af (CaAa)	8.00 190.00 -	0.0000	0	1	1	3.0000	3.0000		8.40

<b>tnxTower</b>  <b>All-Points Technology Corp.</b> 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	<b>Job</b> 190' Self-Supporting Tower	<b>Page</b> 3 of 15
	<b>Project</b> CT141_12070 Coventry East	<b>Date</b> 09:14:02 10/21/21
	<b>Client</b> Verizon Wireless Site: Coventry East	<b>Designed by</b> M. Larson

### Feed Line/Linear Appurtenances

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	C <sub>AA</sub> ft <sup>2</sup> /ft	Weight plf
3/8" safety cable	A	No	No	CaAa (Out Of Face)	190.00 - 0.00	3.0000	0	1 No	0.04	0.22
								Ice	0.14	0.83
								1/2"	0.24	1.98
								Ice	0.44	6.10
								1" Ice		
								2" Ice		

### Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C <sub>AA</sub> Front ft <sup>2</sup>	C <sub>AA</sub> Side ft <sup>2</sup>	Weight lb
Obstruction light	C	From Leg	0.50 0.00 2.00	0.0000	190.00	No Ice	0.15	8.00
						1/2" Ice	0.22	10.47
						1" Ice	0.29	13.91
						2" Ice	0.47	24.29
						No Ice	0.15	8.00
Obstruction light	C	From Leg	0.50 0.00 2.00	0.0000	190.00	1/2" Ice	0.22	10.47
						1" Ice	0.29	13.91
						2" Ice	0.47	24.29
						No Ice	0.15	8.00
						1/2" Ice	0.22	10.47
PD1142-3	A	From Leg	0.50 0.00 2.00	0.0000	190.00	1" Ice	0.29	13.91
						2" Ice	0.47	24.29
						No Ice	1.29	10.00
						1/2" Ice	2.17	20.67
						1" Ice	3.07	36.89
20' x 3" omni whip	A	From Leg	0.50 0.00 12.00	0.0000	190.00	2" Ice	4.41	86.63
						No Ice	6.00	50.00
						1/2" Ice	8.03	93.17
						1" Ice	10.08	149.01
						2" Ice	14.23	299.33
20' x 3" omni whip	B	From Leg	4.00 0.00 12.00	0.0000	190.00	No Ice	6.00	50.00
						1/2" Ice	8.03	93.17
						1" Ice	10.08	149.01
						2" Ice	14.23	299.33
						No Ice	4.00	45.00
Halo	A	From Leg	0.50 0.00 2.00	0.0000	190.00	1/2" Ice	6.03	75.77
						1" Ice	8.07	119.12
						2" Ice	12.20	244.14
						No Ice	3.33	34.00
						1/2" Ice	5.99	44.20
DB420	A	From Leg	0.50 0.00 7.00	0.0000	190.00	1" Ice	8.66	54.40
						2" Ice	13.99	74.80
						No Ice	1.20	15.00
						1/2" Ice	1.34	22.91
						1" Ice	1.48	32.76
1' square panel	A	From Leg	0.50 0.00 7.00	0.0000	190.00	2" Ice	1.79	59.07
						No Ice	2.08	30.95
						1/2" Ice	3.79	52.87
						1" Ice	5.52	85.27
						2" Ice	9.05	183.57
3' Yagi	A	From Leg	0.50 0.00 0.00	0.0000	190.00	No Ice	2.08	30.95
						1/2" Ice	3.79	52.87
						1" Ice	5.52	85.27
						2" Ice	9.05	183.57
						No Ice	2.08	30.95
3' Yagi	C	From Leg	0.50 0.00 0.00	0.0000	190.00	1/2" Ice	3.79	52.87
						1" Ice	5.52	85.27

<b>tnxTower</b>  <b>All-Points Technology Corp.</b> 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	<b>Job</b>	190' Self-Supporting Tower	<b>Page</b>	4 of 15
	<b>Project</b>	CT141_12070 Coventry East	<b>Date</b>	09:14:02 10/21/21
	<b>Client</b>	Verizon Wireless Site: Coventry East	<b>Designed by</b>	M. Larson

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C <sub>AA</sub> Front	C <sub>AA</sub> Side	Weight
			Horz	Lateral					
			ft	ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	lb
Ground plane omni	C	From Leg	0.50	0.0000	190.00	2" Ice	9.05	9.05	183.57
			0.00	No Ice		3.00	3.00	75.00	
			0.00	1/2" Ice		4.03	4.03	96.79	
			0.00	1" Ice		5.03	5.03	125.14	
4' x 1" omni whip	A	From Leg	0.50	0.0000	190.00	2" Ice	6.26	6.26	202.16
			0.00	No Ice		0.40	0.40	15.00	
			0.00	1/2" Ice		0.81	0.81	18.77	
			2.00	1" Ice		1.06	1.06	25.23	
Pirod 4' Side Mount Standoff (1)	A	None		0.0000	188.00	2" Ice	1.58	1.58	46.87
				No Ice		2.72	2.72	50.00	
				1/2" Ice		4.91	4.91	89.00	
				1" Ice		7.10	7.10	128.00	
Pirod 4' Side Mount Standoff (1)	B	None		0.0000	188.00	2" Ice	11.48	11.48	206.00
				No Ice		2.72	2.72	50.00	
				1/2" Ice		4.91	4.91	89.00	
				1" Ice		7.10	7.10	128.00	
Pirod 4' Side Mount Standoff (1)	C	None		0.0000	188.00	2" Ice	11.48	11.48	206.00
				No Ice		2.72	2.72	50.00	
				1/2" Ice		4.91	4.91	89.00	
				1" Ice		7.10	7.10	128.00	
paraflector grid	B	From Leg	4.00	0.0000	187.00	2" Ice	11.48	11.48	206.00
			0.00	No Ice		2.43	1.22	50.00	
			0.00	1/2" Ice		3.50	1.75	100.00	
			0.00	1" Ice		4.50	2.25	175.00	
PD1142-30	B	From Leg	4.00	0.0000	187.00	2" Ice	6.71	3.34	250.00
			0.00	No Ice		0.14	0.14	10.00	
			0.00	1/2" Ice		1.49	1.49	110.00	
			0.00	1" Ice		2.84	2.84	210.00	
APXVTM14-ALU-120 (Sprint)	A	From Face	4.00	0.0000	180.00	2" Ice	5.54	5.54	410.00
			0.00	No Ice		6.34	3.61	60.00	
			0.00	1/2" Ice		6.72	3.97	99.53	
			0.00	1" Ice		7.10	4.33	144.12	
APXVTM14-ALU-120 (Sprint)	B	From Face	4.00	0.0000	180.00	2" Ice	7.88	5.07	249.29
			0.00	No Ice		6.34	3.61	60.00	
			0.00	1/2" Ice		6.72	3.97	99.53	
			0.00	1" Ice		7.10	4.33	144.12	
APXVTM14-ALU-120 (Sprint)	C	From Face	4.00	0.0000	180.00	2" Ice	7.88	5.07	249.29
			0.00	No Ice		6.34	3.61	60.00	
			0.00	1/2" Ice		6.72	3.97	99.53	
			0.00	1" Ice		7.10	4.33	144.12	
NNVV-65B-R4 (Sprint)	A	From Face	4.00	0.0000	180.00	2" Ice	7.88	5.07	249.29
			0.00	No Ice		12.27	5.75	80.00	
			0.00	1/2" Ice		12.77	6.21	152.14	
			0.00	1" Ice		13.27	6.67	230.92	
NNVV-65B-R4 (Sprint)	B	From Face	4.00	0.0000	180.00	2" Ice	14.29	7.62	409.17
			0.00	No Ice		12.27	5.75	80.00	
			0.00	1/2" Ice		12.77	6.21	152.14	
			0.00	1" Ice		13.27	6.67	230.92	
NNVV-65B-R4 (Sprint)	C	From Face	4.00	0.0000	180.00	2" Ice	14.29	7.62	409.17
			0.00	No Ice		12.27	5.75	80.00	
			0.00	1/2" Ice		12.77	6.21	152.14	
			0.00	1" Ice		13.27	6.67	230.92	
ALU 4x45-1900 MHz RRHs (Sprint)	A	From Face	3.50	0.0000	180.00	2" Ice	14.29	7.62	409.17
			0.00	No Ice		2.58	2.54	60.00	
			0.00	1/2" Ice		2.79	2.75	86.47	
			0.00	1" Ice		3.01	2.97	116.36	
					2" Ice	3.47	3.43	187.13	



<b><i>tnxTower</i></b>  <b>All-Points Technology Corp.</b> 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	<b>Job</b>	190' Self-Supporting Tower	<b>Page</b>	5 of 15
	<b>Project</b>	CT141_12070 Coventry East	<b>Date</b>	09:14:02 10/21/21
	<b>Client</b>	Verizon Wireless Site: Coventry East	<b>Designed by</b>	M. Larson

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C <sub>AA</sub> Front	C <sub>AA</sub> Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	lb
ALU 4x45-1900 MHz RRHs (Sprint)	B	From Face	3.50	0.0000	180.00	No Ice	2.58	2.54	60.00
			0.00			1/2" Ice	2.79	2.75	86.47
			0.00			1" Ice	3.01	2.97	116.36
						2" Ice	3.47	3.43	187.13
ALU 4x45-1900 MHz RRHs (Sprint)	C	From Face	3.50	0.0000	180.00	No Ice	2.58	2.54	60.00
			0.00			1/2" Ice	2.79	2.75	86.47
			0.00			1" Ice	3.01	2.97	116.36
						2" Ice	3.47	3.43	187.13
(2) ALU 2x50-800 MHz RRHs (Sprint)	A	From Face	3.50	0.0000	180.00	No Ice	1.70	1.28	53.00
			0.00			1/2" Ice	1.86	1.43	70.01
			0.00			1" Ice	2.03	1.58	89.71
						2" Ice	2.40	1.91	137.95
(2) ALU 2x50-800 MHz RRHs (Sprint)	B	From Face	3.50	0.0000	180.00	No Ice	1.70	1.28	53.00
			0.00			1/2" Ice	1.86	1.43	70.01
			0.00			1" Ice	2.03	1.58	89.71
						2" Ice	2.40	1.91	137.95
(2) ALU 2x50-800 MHz RRHs (Sprint)	C	From Face	3.50	0.0000	180.00	No Ice	1.70	1.28	53.00
			0.00			1/2" Ice	1.86	1.43	70.01
			0.00			1" Ice	2.03	1.58	89.71
						2" Ice	2.40	1.91	137.95
TD-RRH8x20-25 (Sprint)	A	From Face	3.50	0.0000	183.00	No Ice	4.05	1.53	75.00
			0.00			1/2" Ice	4.30	1.71	102.14
			0.00			1" Ice	4.56	1.90	132.80
						2" Ice	5.10	2.29	205.48
TD-RRH8x20-25 (Sprint)	B	From Face	3.50	0.0000	183.00	No Ice	4.05	1.53	75.00
			0.00			1/2" Ice	4.30	1.71	102.14
			0.00			1" Ice	4.56	1.90	132.80
						2" Ice	5.10	2.29	205.48
TD-RRH8x20-25 (Sprint)	C	From Face	3.50	0.0000	183.00	No Ice	4.05	1.53	75.00
			0.00			1/2" Ice	4.30	1.71	102.14
			0.00			1" Ice	4.56	1.90	132.80
						2" Ice	5.10	2.29	205.48
14' sector mount (Sprint)	A	None		0.0000	180.00	No Ice	10.80	5.40	475.00
						1/2" Ice	12.38	6.19	700.00
						1" Ice	13.88	6.94	950.00
						2" Ice	20.40	10.20	1375.00
Kicker kit (Sprint)	A	None		0.0000	180.00	No Ice	3.38	3.38	466.00
						1/2" Ice	5.06	5.06	616.00
						1" Ice	6.75	6.75	766.00
						2" Ice	10.13	10.13	1066.00
14' sector mount (Sprint)	B	None		0.0000	180.00	No Ice	10.80	5.40	475.00
						1/2" Ice	12.38	6.19	700.00
						1" Ice	13.88	6.94	950.00
						2" Ice	20.40	10.20	1375.00
Kicker kit (Sprint)	B	None		0.0000	180.00	No Ice	3.38	3.38	466.00
						1/2" Ice	5.06	5.06	616.00
						1" Ice	6.75	6.75	766.00
						2" Ice	10.13	10.13	1066.00
14' sector mount (Sprint)	C	None		0.0000	180.00	No Ice	10.80	5.40	475.00
						1/2" Ice	12.38	6.19	700.00
						1" Ice	13.88	6.94	950.00
						2" Ice	20.40	10.20	1375.00
Kicker kit (Sprint)	C	None		0.0000	180.00	No Ice	3.38	3.38	466.00
						1/2" Ice	5.06	5.06	616.00
						1" Ice	6.75	6.75	766.00
						2" Ice	10.13	10.13	1066.00
DB420	A	From Leg	4.00	0.0000	172.00 - 162.00	No Ice	3.33	3.33	34.00

<b>tnxTower</b>  <b>All-Points Technology Corp.</b> 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	<b>Job</b>	190' Self-Supporting Tower	<b>Page</b>	6 of 15
	<b>Project</b>	CT141_12070 Coventry East	<b>Date</b>	09:14:02 10/21/21
	<b>Client</b>	Verizon Wireless Site: Coventry East	<b>Designed by</b>	M. Larson

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C <sub>AA</sub> Front	C <sub>AA</sub> Side	Weight	
			Horz	Vert						
			ft	ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	lb	
			0.00			1/2" Ice	5.99	5.99	44.20	
			0.00			1" Ice	8.66	8.66	54.40	
						2" Ice	13.99	13.99	74.80	
4' sidearm	A	From Leg	2.00		0.0000	162.00	No Ice	2.43	1.22	50.00
			0.00				1/2" Ice	3.50	1.75	100.00
			0.00				1" Ice	4.50	2.25	175.00
							2" Ice	6.71	3.34	250.00
20' x 3" omni whip	B	From Leg	4.00		0.0000	176.00 - 156.00	No Ice	6.00	6.00	50.00
			0.00				1/2" Ice	8.03	8.03	93.17
			0.00				1" Ice	10.08	10.08	149.01
							2" Ice	14.23	14.23	299.33
Pirod 4' Side Mount Standoff (1)	B	From Face	2.00		0.0000	156.00	No Ice	2.72	2.72	50.00
			0.00				1/2" Ice	4.91	4.91	89.00
			0.00				1" Ice	7.10	7.10	128.00
							2" Ice	11.48	11.48	206.00
20' x 3" omni whip	C	From Leg	4.00		0.0000	176.00 - 156.00	No Ice	6.00	6.00	50.00
			0.00				1/2" Ice	8.03	8.03	93.17
			0.00				1" Ice	10.08	10.08	149.01
							2" Ice	14.23	14.23	299.33
Pirod 4' Side Mount Standoff (1)	C	From Leg	2.00		0.0000	156.00	No Ice	2.72	2.72	50.00
			0.00				1/2" Ice	4.91	4.91	89.00
			0.00				1" Ice	7.10	7.10	128.00
							2" Ice	11.48	11.48	206.00
MT6407-77A (Verizon Wireless)	A	From Face	4.00		0.0000	150.00	No Ice	4.69	1.84	90.00
			0.00				1/2" Ice	4.98	2.06	119.24
			0.00				1" Ice	5.28	2.29	152.35
							2" Ice	5.89	2.77	230.94
MT6407-77A (Verizon Wireless)	B	From Face	4.00		0.0000	150.00	No Ice	4.69	1.84	90.00
			0.00				1/2" Ice	4.98	2.06	119.24
			0.00				1" Ice	5.28	2.29	152.35
							2" Ice	5.89	2.77	230.94
MT6407-77A (Verizon Wireless)	C	From Face	4.00		0.0000	150.00	No Ice	4.69	1.84	90.00
			0.00				1/2" Ice	4.98	2.06	119.24
			0.00				1" Ice	5.28	2.29	152.35
							2" Ice	5.89	2.77	230.94
LNX-6514DS-A1M (Verizon Wireless)	A	From Face	4.00		0.0000	150.00	No Ice	9.26	6.14	80.00
			0.00				1/2" Ice	9.77	6.65	135.65
			0.00				1" Ice	10.28	7.16	197.94
							2" Ice	11.32	8.20	343.28
LNX-6514DS-A1M (Verizon Wireless)	B	From Face	4.00		0.0000	150.00	No Ice	9.26	6.14	80.00
			0.00				1/2" Ice	9.77	6.65	135.65
			0.00				1" Ice	10.28	7.16	197.94
							2" Ice	11.32	8.20	343.28
LNX-6514DS-A1M (Verizon Wireless)	C	From Face	4.00		0.0000	150.00	No Ice	9.26	6.14	80.00
			0.00				1/2" Ice	9.77	6.65	135.65
			0.00				1" Ice	10.28	7.16	197.94
							2" Ice	11.32	8.20	343.28
(2) NHH-65B-R2B (Verizon Wireless)	A	From Face	4.00		0.0000	150.00	No Ice	8.08	5.34	50.00
			0.00				1/2" Ice	8.53	5.79	100.05
			0.00				1" Ice	9.00	6.26	156.20
							2" Ice	9.95	7.20	287.55
(2) NHH-65B-R2B (Verizon Wireless)	B	From Face	4.00		0.0000	150.00	No Ice	8.08	5.34	50.00
			0.00				1/2" Ice	8.53	5.79	100.05
			0.00				1" Ice	9.00	6.26	156.20
							2" Ice	9.95	7.20	287.55
(2) NHH-65B-R2B (Verizon Wireless)	C	From Face	4.00		0.0000	150.00	No Ice	8.08	5.34	50.00
			0.00				1/2" Ice	8.53	5.79	100.05

<b>tnxTower</b>  <b>All-Points Technology Corp.</b> 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	<b>Job</b>	190' Self-Supporting Tower	<b>Page</b>	7 of 15
	<b>Project</b>	CT141_12070 Coventry East	<b>Date</b>	09:14:02 10/21/21
	<b>Client</b>	Verizon Wireless Site: Coventry East	<b>Designed by</b>	M. Larson

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C <sub>AA</sub> Front	C <sub>AA</sub> Side	Weight	
			Horz	Lateral						
			ft	ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	lb	
			0.00				1" Ice	9.00	6.26	156.20
							2" Ice	9.95	7.20	287.55
RFV01U-D1A (Verizon Wireless)	A	From Face	3.50	0.0000	150.00	No Ice	1.88	1.25	100.00	
			0.00			1/2" Ice	2.05	1.39	118.34	
			0.00			1" Ice	2.22	1.54	139.47	
						2" Ice	2.60	1.86	190.87	
RFV01U-D1A (Verizon Wireless)	B	From Face	3.50	0.0000	150.00	No Ice	1.88	1.25	100.00	
			0.00			1/2" Ice	2.05	1.39	118.34	
			0.00			1" Ice	2.22	1.54	139.47	
						2" Ice	2.60	1.86	190.87	
RFV01U-D1A (Verizon Wireless)	C	From Face	3.50	0.0000	150.00	No Ice	1.88	1.25	100.00	
			0.00			1/2" Ice	2.05	1.39	118.34	
			0.00			1" Ice	2.22	1.54	139.47	
						2" Ice	2.60	1.86	190.87	
RFV01U-D2A (Verizon Wireless)	A	From Face	3.50	0.0000	150.00	No Ice	1.88	1.01	85.00	
			0.00			1/2" Ice	2.05	1.14	101.43	
			0.00			1" Ice	2.22	1.28	120.53	
						2" Ice	2.60	1.59	167.50	
RFV01U-D2A (Verizon Wireless)	B	From Face	3.50	0.0000	150.00	No Ice	1.88	1.01	85.00	
			0.00			1/2" Ice	2.05	1.14	101.43	
			0.00			1" Ice	2.22	1.28	120.53	
						2" Ice	2.60	1.59	167.50	
RFV01U-D2A (Verizon Wireless)	C	From Face	3.50	0.0000	150.00	No Ice	1.88	1.01	85.00	
			0.00			1/2" Ice	2.05	1.14	101.43	
			0.00			1" Ice	2.22	1.28	120.53	
						2" Ice	2.60	1.59	167.50	
Raycap RHSDC-3315-PF-48 D-Box (Verizon Wireless)	A	None		0.0000	150.00	No Ice	1.34	3.79	40.00	
						1/2" Ice	1.49	4.04	71.37	
						1" Ice	1.65	4.30	106.49	
						2" Ice	1.98	4.84	188.76	
Raycap RHSDC-3315-PF-48 D-Box (Verizon Wireless)	C	None		0.0000	150.00	No Ice	1.34	3.79	40.00	
						1/2" Ice	1.49	4.04	71.37	
						1" Ice	1.65	4.30	106.49	
						2" Ice	1.98	4.84	188.76	
Pirot 15' T-Frame Sector Mount (1) (Verizon Wireless)	A	None		0.0000	150.00	No Ice	15.00	15.00	500.00	
						1/2" Ice	20.60	20.60	650.00	
						1" Ice	26.20	26.20	800.00	
						2" Ice	37.40	37.40	1100.00	
Pirot 15' T-Frame Sector Mount (1) (Verizon Wireless)	B	None		0.0000	150.00	No Ice	15.00	15.00	500.00	
						1/2" Ice	20.60	20.60	650.00	
						1" Ice	26.20	26.20	800.00	
						2" Ice	37.40	37.40	1100.00	
Pirot 15' T-Frame Sector Mount (1) (Verizon Wireless)	C	None		0.0000	150.00	No Ice	15.00	15.00	500.00	
						1/2" Ice	20.60	20.60	650.00	
						1" Ice	26.20	26.20	800.00	
						2" Ice	37.40	37.40	1100.00	
SitePro1 SFK Reinf Kit (Verizon Wireless)	A	None		0.0000	150.00	No Ice	5.39	2.70	132.00	
						1/2" Ice	7.89	3.95	250.00	
						1" Ice	10.39	5.20	375.00	
						2" Ice	15.39	7.70	604.00	
SitePro1 SFK Reinf Kit (Verizon Wireless)	B	None		0.0000	150.00	No Ice	5.39	2.70	132.00	
						1/2" Ice	7.89	3.95	250.00	
						1" Ice	10.39	5.20	375.00	
						2" Ice	15.39	7.70	604.00	
SitePro1 SFK Reinf Kit (Verizon Wireless)	C	None		0.0000	150.00	No Ice	5.39	2.70	132.00	
						1/2" Ice	7.89	3.95	250.00	
						1" Ice	10.39	5.20	375.00	

<b>tnxTower</b>  <b>All-Points Technology Corp.</b> 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	<b>Job</b>	190' Self-Supporting Tower	<b>Page</b>	8 of 15
	<b>Project</b>	CT141_12070 Coventry East	<b>Date</b>	09:14:02 10/21/21
	<b>Client</b>	Verizon Wireless Site: Coventry East	<b>Designed by</b>	M. Larson

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C <sub>AA</sub> Front	C <sub>AA</sub> Side	Weight
			Horz	Lateral					
			ft	ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	lb
20' x 3" omni whip	C	From Leg	4.00	0.0000	142.00	2" Ice	15.39	7.70	604.00
			0.00	No Ice		6.00	6.00	50.00	
			0.00	1/2" Ice		8.03	8.03	93.17	
			0.00	1" Ice		10.08	10.08	149.01	
Pirod 4' Side Mount Standoff (1)	A	From Leg	2.00	0.0000	142.00	2" Ice	14.23	14.23	299.33
			0.00	No Ice		2.72	2.72	50.00	
			0.00	1/2" Ice		4.91	4.91	89.00	
			0.00	1" Ice		7.10	7.10	128.00	
DB230-2A	A	From Leg	4.00	0.0000	142.00	2" Ice	11.48	11.48	206.00
			0.00	No Ice		3.00	3.00	114.00	
			0.00	1/2" Ice		5.40	5.40	148.20	
			0.00	1" Ice		7.80	7.80	182.40	
Pirod 4' Side Mount Standoff (1)	B	None	0.0000	0.0000	142.00	2" Ice	12.60	12.60	250.80
			0.0000	No Ice		2.72	2.72	50.00	
			0.0000	1/2" Ice		4.91	4.91	89.00	
			0.0000	1" Ice		7.10	7.10	128.00	
3' Yagi	A	From Leg	4.00	0.0000	142.00	2" Ice	11.48	11.48	206.00
			0.00	No Ice		2.08	2.08	30.95	
			0.00	1/2" Ice		3.79	3.79	52.87	
			0.00	1" Ice		5.52	5.52	85.27	
4' yagi	C	From Leg	4.00	0.0000	142.00	2" Ice	9.05	9.05	183.57
			0.00	No Ice		0.50	0.50	25.00	
			0.00	1/2" Ice		0.86	0.86	29.40	
			0.00	1" Ice		1.11	1.11	36.53	
Pirod 4' Side Mount Standoff (1)	C	From Leg	2.00	0.0000	142.00	2" Ice	1.64	1.64	59.57
			0.00	No Ice		2.72	2.72	50.00	
			0.00	1/2" Ice		4.91	4.91	89.00	
			0.00	1" Ice		7.10	7.10	128.00	
Paraflector	B	From Leg	0.50	0.0000	144.00	2" Ice	11.48	11.48	206.00
			0.00	No Ice		1.20	0.32	15.00	
			0.00	1/2" Ice		1.34	0.40	22.91	
			0.00	1" Ice		1.48	0.49	32.76	
Paraflector	B	From Leg	0.50	0.0000	140.00	2" Ice	1.79	0.69	59.07
			0.00	No Ice		1.20	0.32	15.00	
			0.00	1/2" Ice		1.34	0.40	22.91	
			0.00	1" Ice		1.48	0.49	32.76	
10' single dipole	A	From Leg	0.50	0.0000	146.00 - 136.00	2" Ice	1.79	0.69	59.07
			0.00	No Ice		1.90	1.90	25.00	
			0.00	1/2" Ice		4.08	4.08	43.29	
			0.00	1" Ice		6.28	6.28	75.05	
10' 2-bay dipole	A	From Leg	4.00	0.0000	123.00 - 113.00	2" Ice	10.73	10.73	179.63
			0.00	No Ice		2.50	2.50	75.00	
			0.00	1/2" Ice		3.53	3.53	93.64	
			0.00	1" Ice		4.58	4.58	118.79	
Pirod 4' Side Mount Standoff (1)	A	None	0.0000	0.0000	113.00	2" Ice	5.98	5.98	189.26
			0.0000	No Ice		2.72	2.72	50.00	
			0.0000	1/2" Ice		4.91	4.91	89.00	
			0.0000	1" Ice		7.10	7.10	128.00	
14' x 3" omni whip	B	From Leg	4.00	0.0000	123.00 - 109.00	2" Ice	11.48	11.48	206.00
			0.00	No Ice		4.20	4.20	75.00	
			0.00	1/2" Ice		5.63	5.63	105.34	
			0.00	1" Ice		7.08	7.08	144.69	
Pirod 4' Side Mount Standoff (1)	B	None	0.0000	0.0000	109.00	2" Ice	9.95	9.95	251.03
			0.0000	No Ice		2.72	2.72	50.00	
			0.0000	1/2" Ice		4.91	4.91	89.00	
			0.0000	1" Ice		7.10	7.10	128.00	
					2" Ice	11.48	11.48	206.00	

<b><i>tnxTower</i></b>  <b>All-Points Technology Corp.</b> 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	<b>Job</b>	190' Self-Supporting Tower	<b>Page</b>	9 of 15
	<b>Project</b>	CT141_12070 Coventry East	<b>Date</b>	09:14:02 10/21/21
	<b>Client</b>	Verizon Wireless Site: Coventry East	<b>Designed by</b>	M. Larson

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C <sub>AA</sub> Front	C <sub>AA</sub> Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	lb
14' x 3" omni whip	C	From Leg	4.00	0.0000	117.00 - 103.00	No Ice	4.20	4.20	75.00
			0.00			1/2" Ice	5.63	5.63	105.34
			0.00			1" Ice	7.08	7.08	144.69
						2" Ice	9.95	9.95	251.03
Pirod 4' Side Mount Standoff (1)	C	None		0.0000	103.00	No Ice	2.72	2.72	50.00
						1/2" Ice	4.91	4.91	89.00
						1" Ice	7.10	7.10	128.00
						2" Ice	11.48	11.48	206.00
GPS on 3' standoff	B	From Leg	0.50	0.0000	102.00	No Ice	3.12	1.06	50.00
			0.00			1/2" Ice	3.34	1.21	71.14
			0.00			1" Ice	3.56	1.36	95.38
						2" Ice	4.04	1.68	153.91
1.5' x 1-1/2" standoff	B	None		0.0000	102.00	No Ice	0.17	0.17	6.00
						1/2" Ice	0.27	0.27	7.99
						1" Ice	0.38	0.38	11.21
						2" Ice	0.62	0.62	21.91
DB212-1	B	From Leg	0.50	0.0000	94.00	No Ice	4.50	4.50	31.00
			0.00			1/2" Ice	8.10	8.10	40.30
			0.00			1" Ice	11.70	11.70	49.60
						2" Ice	18.90	18.90	68.20
8" x 3" X 1.5" panel	A	From Leg	0.50	0.0000	92.00	No Ice	1.90	1.90	25.00
			0.00			1/2" Ice	4.08	4.08	43.29
			0.00			1" Ice	6.28	6.28	75.05
						2" Ice	10.73	10.73	179.63
8" x 3" X 1.5" panel	C	From Leg	0.50	0.0000	92.00	No Ice	1.90	1.90	25.00
			0.00			1/2" Ice	4.08	4.08	43.29
			0.00			1" Ice	6.28	6.28	75.05
						2" Ice	10.73	10.73	179.63
16' x 3" omni whip	C	From Leg	4.00	0.0000	100.00 - 84.00	No Ice	4.80	4.80	75.00
			0.00			1/2" Ice	6.43	6.43	109.62
			0.00			1" Ice	8.08	8.08	154.46
						2" Ice	11.43	11.43	275.47
4' sidearm	C	From Leg	2.00	0.0000	84.00	No Ice	2.43	1.22	50.00
			0.00			1/2" Ice	3.50	1.75	100.00
			0.00			1" Ice	4.50	2.25	175.00
						2" Ice	6.71	3.34	250.00
16' x 3" omni whip	A	From Leg	6.00	0.0000	90.00 - 74.00	No Ice	4.80	4.80	75.00
			0.00			1/2" Ice	6.43	6.43	109.62
			0.00			1" Ice	8.08	8.08	154.46
						2" Ice	11.43	11.43	275.47
6' sidearm	A	From Leg	3.00	0.0000	74.00	No Ice	4.17	2.09	75.00
			0.00			1/2" Ice	6.17	3.09	125.00
			0.00			1" Ice	8.17	4.09	200.00
						2" Ice	12.17	6.09	275.00
PD320	C	From Leg	0.50	0.0000	74.00	No Ice	2.03	2.03	15.00
			0.00			1/2" Ice	4.58	4.58	34.00
			0.00			1" Ice	7.13	7.13	53.00
						2" Ice	12.23	12.23	91.00
Large single dipole	B	From Leg	0.50	0.0000	85.00 - 70.00	No Ice	2.03	2.03	15.00
			0.00			1/2" Ice	4.58	4.58	34.00
			0.00			1" Ice	7.13	7.13	53.00
						2" Ice	12.23	12.23	91.00
3' x 2" omni whip	C	From Leg	2.00	0.0000	63.00 - 60.00	No Ice	0.52	0.52	15.00
			0.00			1/2" Ice	0.71	0.71	19.81
			0.00			1" Ice	0.90	0.90	26.81
						2" Ice	1.32	1.32	47.99
2' standoff	C	From Leg	1.00	0.0000	60.00	No Ice	0.60	0.07	30.00

<b>tnxTower</b>  <b>All-Points Technology Corp.</b> 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	<b>Job</b>	190' Self-Supporting Tower	<b>Page</b>	10 of 15
	<b>Project</b>	CT141_12070 Coventry East	<b>Date</b>	09:14:02 10/21/21
	<b>Client</b>	Verizon Wireless Site: Coventry East	<b>Designed by</b>	M. Larson

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C <sub>AA</sub> Front	C <sub>AA</sub> Side	Weight
			Horz Lateral	Vert					
DB212-1	B	From Leg	0.50	0.0000	50.00	No Ice	0.75	0.11	35.96
						1/2" Ice	0.91	0.16	44.06
						2" Ice	1.26	0.27	67.46
						0.00	4.50	4.50	31.00
						1/2" Ice	8.10	8.10	40.30
Large single dipole (hanging)	C	From Leg	0.50	0.0000	50.00	1" Ice	11.70	11.70	49.60
						2" Ice	18.90	18.90	68.20
						No Ice	1.90	1.90	25.00
						1/2" Ice	4.08	4.08	43.29
						1" Ice	6.28	6.28	75.05
Large single dipole	B	From Leg	0.50	0.0000	32.00	2" Ice	10.73	10.73	179.63
						No Ice	1.90	1.90	25.00
						1/2" Ice	4.08	4.08	43.29
						1" Ice	6.28	6.28	75.05
						2" Ice	10.73	10.73	179.63
Large single dipole	C	From Leg	0.50	0.0000	31.00	No Ice	1.90	1.90	25.00
						1/2" Ice	4.08	4.08	43.29
						1" Ice	6.28	6.28	75.05
						2" Ice	10.73	10.73	179.63
						No Ice	2.72	2.72	50.00
Pirod 4' Side Mount Standoff (1)	B	From Leg	2.00	0.0000	17.00	1/2" Ice	4.91	4.91	89.00
						1" Ice	7.10	7.10	128.00
						2" Ice	11.48	11.48	206.00
						No Ice	1.58	1.58	17.00
						1/2" Ice	3.56	3.56	38.00
PD400	B	From Leg	4.00	0.0000	29.00 - 17.00	1" Ice	5.54	5.54	59.00
						2" Ice	9.50	9.50	101.00
						No Ice	0.00	0.00	0.00
						1/2" Ice	0.00	0.00	0.00
						1" Ice	0.00	0.00	0.00
6' Yagi	B	From Leg	4.00	0.0000	17.00	2" Ice	0.00	0.00	0.00
						No Ice	0.00	0.00	0.00
						1/2" Ice	0.00	0.00	0.00
						1" Ice	0.00	0.00	0.00
						2" Ice	0.00	0.00	0.00

### Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets:		Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight	
				Horz Lateral	Vert							ft
2' dish with radome	C	Paraboloid w/Radome	From Leg	4.00	0.0000	156.00	°	ft	2.00	No Ice	3.14	50.00
										1/2" Ice	3.41	67.50
										1" Ice	3.68	85.00
										2" Ice	4.21	120.00
										0.00		

<b>tnxTower</b>  <b>All-Points Technology Corp.</b> 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	<b>Job</b>	190' Self-Supporting Tower	<b>Page</b>	11 of 15
	<b>Project</b>	CT141_12070 Coventry East	<b>Date</b>	09:14:02 10/21/21
	<b>Client</b>	Verizon Wireless Site: Coventry East	<b>Designed by</b>	M. Larson

## Solution Summary

### Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	190 - 180	9.146	63	0.5146	0.0533
T2	180 - 160	8.071	63	0.5082	0.0513
T3	160 - 140	5.998	63	0.4580	0.0458
T4	140 - 136	4.210	63	0.3716	0.0403
T5	136 - 132	3.902	63	0.3506	0.0376
T6	132 - 128	3.613	63	0.3300	0.0352
T7	128 - 124	3.340	63	0.3096	0.0328
T8	124 - 120	3.085	63	0.2897	0.0305
T9	120 - 100	2.845	63	0.2702	0.0283
T10	100 - 80	1.854	63	0.1927	0.0195
T11	80 - 60	1.136	67	0.1402	0.0136
T12	60 - 40	0.635	67	0.0899	0.0090
T13	40 - 20	0.291	67	0.0631	0.0052
T14	20 - 0	0.080	67	0.0287	0.0025

### Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
190.00	Obstruction light	63	9.146	0.5146	0.0533	178642
188.00	Pirod 4' Side Mount Standoff (1)	63	8.930	0.5138	0.0529	178642
187.00	paraflector grid	63	8.823	0.5134	0.0527	178642
183.00	TD-RRH8x20-25	63	8.392	0.5111	0.0519	126371
180.00	APXVTM14-ALU-120	63	8.071	0.5082	0.0513	80723
176.00	20' x 3" omni whip	63	7.644	0.5022	0.0502	46439
172.00	DB420	63	7.221	0.4939	0.0490	31313
171.00	20' x 3" omni whip	63	7.117	0.4915	0.0487	28953
167.00	DB420	63	6.702	0.4807	0.0475	22246
166.00	20' x 3" omni whip	63	6.600	0.4777	0.0473	21029
162.00	DB420	63	6.196	0.4649	0.0463	17314
161.00	20' x 3" omni whip	63	6.097	0.4614	0.0460	16647
156.00	2' dish with radome	63	5.612	0.4432	0.0452	14517
150.00	MT6407-77A	63	5.058	0.4189	0.0441	12907
146.00	10' single dipole	63	4.707	0.4010	0.0431	12019
144.00	Paraflector	63	4.537	0.3916	0.0423	11616
142.00	20' x 3" omni whip	63	4.372	0.3818	0.0414	11159
141.00	10' single dipole	63	4.290	0.3767	0.0409	10871
140.00	Paraflector	63	4.210	0.3716	0.0403	10539
136.00	10' single dipole	63	3.902	0.3506	0.0376	9950
123.00	10' 2-bay dipole	63	3.023	0.2848	0.0300	12171
118.00	10' 2-bay dipole	63	2.731	0.2609	0.0273	13288
117.00	14' x 3" omni whip	63	2.676	0.2563	0.0268	13504
116.00	14' x 3" omni whip	63	2.621	0.2519	0.0263	13726
113.00	10' 2-bay dipole	63	2.462	0.2391	0.0248	14440
110.00	14' x 3" omni whip	63	2.310	0.2271	0.0235	15232
109.00	14' x 3" omni whip	63	2.261	0.2233	0.0230	15516
103.00	14' x 3" omni whip	63	1.983	0.2022	0.0206	17454
102.00	GPS on 3' standoff	63	1.939	0.1989	0.0203	17793
100.00	16' x 3" omni whip	63	1.854	0.1927	0.0195	18392
94.67	16' x 3" omni whip	63	1.638	0.1775	0.0178	19270
94.00	DB212-1	63	1.612	0.1758	0.0176	19352

<b>tnxTower</b>  <b>All-Points Technology Corp.</b> 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	<b>Job</b>	190' Self-Supporting Tower	<b>Page</b>	12 of 15
	<b>Project</b>	CT141_12070 Coventry East	<b>Date</b>	09:14:02 10/21/21
	<b>Client</b>	Verizon Wireless Site: Coventry East	<b>Designed by</b>	M. Larson

Elevation	Appurtenance	Gov. Load	Deflection	Tilt	Twist	Radius of Curvature
ft		Comb.	in	°	°	ft
92.00	8" x 3" X 1.5" panel	67	1.537	0.1705	0.0169	19601
90.00	16' x 3" omni whip	67	1.464	0.1654	0.0163	19856
89.33	16' x 3" omni whip	67	1.440	0.1638	0.0161	19943
85.00	Large single dipole	67	1.293	0.1529	0.0149	20525
84.67	16' x 3" omni whip	67	1.282	0.1521	0.0148	20572
84.00	16' x 3" omni whip	67	1.260	0.1504	0.0147	20666
80.00	Large single dipole	67	1.136	0.1402	0.0136	21417
79.33	16' x 3" omni whip	67	1.116	0.1384	0.0134	21599
75.00	Large single dipole	67	0.992	0.1267	0.0124	23194
74.00	16' x 3" omni whip	67	0.965	0.1240	0.0121	23629
70.00	Large single dipole	67	0.862	0.1132	0.0112	25543
63.00	3' x 2" omni whip	67	0.699	0.0961	0.0096	29739
61.50	3' x 2" omni whip	67	0.666	0.0929	0.0093	30718
60.00	3' x 2" omni whip	67	0.635	0.0899	0.0090	31603
50.00	DB212-1	67	0.446	0.0753	0.0069	35244
32.00	Large single dipole	67	0.190	0.0501	0.0040	34423
31.00	Large single dipole	67	0.179	0.0484	0.0039	33909
29.00	PD400	67	0.157	0.0448	0.0036	32926
23.00	PD400	67	0.103	0.0339	0.0028	30397
17.00	Pirod 4' Side Mount Standoff (1)	67	0.062	0.0238	0.0021	34401

### Maximum Tower Deflections - Design Wind

Section No.	Elevation	Horz. Deflection	Gov. Load	Tilt	Twist
	ft	in	Comb.	°	°
T1	190 - 180	35.831	18	2.0056	0.2137
T2	180 - 160	31.640	18	1.9823	0.2052
T3	160 - 140	23.553	18	1.7881	0.1829
T4	140 - 136	16.567	18	1.4530	0.1603
T5	136 - 132	15.360	18	1.3719	0.1496
T6	132 - 128	14.228	18	1.2922	0.1398
T7	128 - 124	13.159	18	1.2133	0.1304
T8	124 - 120	12.156	18	1.1360	0.1213
T9	120 - 100	11.216	18	1.0600	0.1124
T10	100 - 80	7.317	18	0.7576	0.0777
T11	80 - 60	4.479	18	0.5516	0.0539
T12	60 - 40	2.501	18	0.3541	0.0355
T13	40 - 20	1.143	18	0.2485	0.0207
T14	20 - 0	0.315	18	0.1130	0.0099

### Critical Deflections and Radius of Curvature - Design Wind

Elevation	Appurtenance	Gov. Load	Deflection	Tilt	Twist	Radius of Curvature
ft		Comb.	in	°	°	ft
190.00	Obstruction light	18	35.831	2.0056	0.2137	44299
188.00	Pirod 4' Side Mount Standoff (1)	18	34.991	2.0030	0.2122	44299
187.00	paraflector grid	18	34.571	2.0015	0.2114	44299
183.00	TD-RRH8x20-25	18	32.894	1.9931	0.2081	31566
180.00	APXVTM14-ALU-120	18	31.640	1.9823	0.2052	21433
176.00	20' x 3" omni whip	18	29.976	1.9595	0.2008	12112
172.00	DB420	18	28.327	1.9274	0.1960	8101
171.00	20' x 3" omni whip	18	27.918	1.9182	0.1948	7481
167.00	DB420	18	26.300	1.8763	0.1900	5727
166.00	20' x 3" omni whip	18	25.900	1.8648	0.1888	5410



<p style="text-align: center;"><b>tnxTower</b></p> <p style="text-align: center;"><b>All-Points Technology Corp.</b> 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935</p>	<b>Job</b>	190' Self-Supporting Tower	<b>Page</b>	13 of 15
	<b>Project</b>	CT141_12070 Coventry East	<b>Date</b>	09:14:02 10/21/21
	<b>Client</b>	Verizon Wireless Site: Coventry East	<b>Designed by</b>	M. Larson

Elevation	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
162.00	DB420	18	24.325	1.8150	0.1847	4445
161.00	20' x 3" omni whip	18	23.938	1.8017	0.1838	4273
156.00	2' dish with radome	18	22.045	1.7309	0.1801	3722
150.00	MT6407-77A	18	19.880	1.6361	0.1758	3308
146.00	10' single dipole	18	18.508	1.5667	0.1715	3079
144.00	Paraflector	18	17.845	1.5301	0.1685	2975
142.00	20' x 3" omni whip	18	17.198	1.4922	0.1648	2860
141.00	10' single dipole	18	16.881	1.4728	0.1627	2789
140.00	Paraflector	18	16.567	1.4530	0.1603	2707
136.00	10' single dipole	18	15.360	1.3719	0.1496	2566
123.00	10' 2-bay dipole	18	11.916	1.1167	0.1190	3119
118.00	10' 2-bay dipole	18	10.768	1.0237	0.1082	3407
117.00	14' x 3" omni whip	18	10.550	1.0060	0.1062	3462
116.00	14' x 3" omni whip	18	10.335	0.9887	0.1042	3519
113.00	10' 2-bay dipole	18	9.709	0.9389	0.0985	3701
110.00	14' x 3" omni whip	18	9.113	0.8922	0.0933	3904
109.00	14' x 3" omni whip	18	8.920	0.8773	0.0916	3976
103.00	14' x 3" omni whip	18	7.827	0.7946	0.0821	4463
102.00	GPS on 3' standoff	18	7.654	0.7820	0.0806	4548
100.00	16' x 3" omni whip	18	7.317	0.7576	0.0777	4697
94.67	16' x 3" omni whip	18	6.466	0.6982	0.0705	4916
94.00	DB212-1	18	6.365	0.6913	0.0697	4936
92.00	8" x 3" X 1.5" panel	18	6.067	0.6708	0.0672	4997
90.00	16' x 3" omni whip	18	5.779	0.6508	0.0648	5061
89.33	16' x 3" omni whip	18	5.686	0.6442	0.0640	5082
85.00	Large single dipole	18	5.101	0.6017	0.0591	5226
84.67	16' x 3" omni whip	18	5.057	0.5984	0.0588	5237
84.00	16' x 3" omni whip	18	4.972	0.5918	0.0580	5261
80.00	Large single dipole	18	4.479	0.5516	0.0539	5448
79.33	16' x 3" omni whip	18	4.401	0.5447	0.0532	5494
75.00	Large single dipole	18	3.913	0.4987	0.0489	5900
74.00	16' x 3" omni whip	18	3.806	0.4879	0.0480	6010
70.00	Large single dipole	18	3.398	0.4456	0.0442	6498
63.00	3' x 2" omni whip	18	2.753	0.3782	0.0380	7567
61.50	3' x 2" omni whip	18	2.625	0.3657	0.0367	7817
60.00	3' x 2" omni whip	18	2.501	0.3541	0.0355	8041
50.00	DB212-1	18	1.755	0.2966	0.0276	8951
32.00	Large single dipole	18	0.745	0.1976	0.0160	8727
31.00	Large single dipole	18	0.701	0.1906	0.0155	8597
29.00	PD400	18	0.617	0.1764	0.0144	8349
23.00	PD400	18	0.402	0.1336	0.0114	7710
17.00	Pirod 4' Side Mount Standoff (1)	18	0.242	0.0937	0.0084	8727

### Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt lb	Allowable Load per Bolt lb	Ratio Load Allowable	Allowable Ratio	Criteria
T1	190	Leg	A325N	0.6250	4	1010.71	20340.10	0.050	✓	1 Bolt Tension
		Diagonal	A325N	0.6250	1	1534.94	7830.00	0.196	✓	1 Member Bearing
		Top Girt	A325N	0.6250	1	351.81	7830.00	0.045	✓	1 Member Bearing
T2	180	Leg	A325N	0.7500	4	8654.75	30101.40	0.288	✓	1 Bolt Tension
		Diagonal	A325N	0.6250	1	3901.18	7830.00	0.498	✓	1 Member Bearing
T3	160	Leg	A325N	0.8750	4	22660.40	41556.00	0.545	✓	1 Bolt Tension
		Diagonal	A325N	0.6250	1	7104.16	10440.00	0.680	✓	1 Member Bearing

<b>tnxTower</b>  <b>All-Points Technology Corp.</b> 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	<b>Job</b> 190' Self-Supporting Tower	<b>Page</b> 14 of 15
	<b>Project</b> CT141_12070 Coventry East	<b>Date</b> 09:14:02 10/21/21
	<b>Client</b> Verizon Wireless Site: Coventry East	<b>Designed by</b> M. Larson

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt lb	Allowable Load per Bolt lb	Ratio Load Allowable	Allowable Ratio	Criteria	
T4	140	Leg	A325N	0.8750	4	25596.40	41556.00	0.616	✓	1	Bolt Tension
		Diagonal	A325N	0.6250	1	3852.64	7830.00	0.492	✓	1	Member Bearing
		Top Girt	A325N	0.6250	1	1984.47	7830.00	0.253	✓	1	Member Bearing
T5	136	Diagonal	A325N	0.6250	1	3679.64	7830.00	0.470	✓	1	Member Bearing
T6	132	Diagonal	A325N	0.6250	1	3444.14	7830.00	0.440	✓	1	Member Bearing
T7	128	Diagonal	A325N	0.6250	1	3569.77	7830.00	0.456	✓	1	Member Bearing
T8	124	Diagonal	A325N	0.6250	1	3963.85	7830.00	0.506	✓	1	Member Bearing
		Secondary Horizontal	A325N	0.6250	1	2471.98	10440.00	0.237	✓	1	Member Bearing
		Leg	A325N	1.0000	4	38987.10	54517.00	0.715	✓	1	Bolt Tension
T9	120	Diagonal	A325N	0.6250	1	4754.38	7830.00	0.607	✓	1	Member Bearing
		Secondary Horizontal	A325N	0.6250	2	1498.80	13805.80	0.109	✓	1	Bolt Shear
		Leg	A325N	1.0000	4	45761.90	54517.00	0.839	✓	1	Bolt Tension
T10	100	Diagonal	A325N	0.6250	1	5233.79	7830.00	0.668	✓	1	Member Bearing
		Leg	A325N	1.0000	6	34685.10	54517.00	0.636	✓	1	Bolt Tension
T11	80	Diagonal	A325N	0.6250	1	5973.52	10440.00	0.572	✓	1	Member Bearing
		Secondary Horizontal	A325N	0.6250	2	2011.41	13805.80	0.146	✓	1	Bolt Shear
		Leg	A325N	1.0000	6	39255.00	54517.00	0.720	✓	1	Bolt Tension
T12	60	Diagonal	A325N	0.6250	1	6811.21	11700.00	0.582	✓	1	Member Bearing
		Leg	A325N	1.0000	6	42645.00	54517.00	0.782	✓	1	Bolt Tension
		Diagonal	A325N	0.6250	1	7340.66	11700.00	0.627	✓	1	Member Bearing
T13	40	Secondary Horizontal	A325N	0.6250	2	2504.42	13805.80	0.181	✓	1	Bolt Shear
		Leg	A325N	1.0000	8	34898.50	54517.00	0.640	✓	1	Bolt Tension
		Diagonal	A325N	0.7500	1	7907.08	14137.50	0.559	✓	1	Member Bearing

### Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	$\phi P_{allow}$ lb	% Capacity	Pass Fail
T1	190 - 180	Leg	ROHN 2 STD	3	-5036.89	31617.20	15.9	Pass
		Diagonal	L1 3/4x1 3/4x3/16	9	-1546.40	13458.30	11.5	Pass
		Top Girt	L2x2x3/16	4	-378.23	12432.40	3.0	Pass
T2	180 - 160	Leg	ROHN 2.5 STD	21	-40427.90	63560.30	63.6	Pass
		Diagonal	L1 3/4x1 3/4x3/16	25	-3979.62	14823.90	26.8	Pass
		Top Girt	L2x2x3/16	4	-378.23	12432.40	3.0	Pass
T3	160 - 140	Leg	ROHN 3 EH	54	-102013.00	119117.00	85.6	Pass
		Diagonal	L2x2x1/4	60	-7520.56	24372.70	30.9	Pass
		Top Girt	L2x2x3/16	4	-378.23	12432.40	3.0	Pass
T4	140 - 136	Leg	ROHN 3.5 EH	87	-114425.00	149924.00	76.3	Pass
		Diagonal	L1 3/4x1 3/4x3/16	96	-4211.06	14186.90	29.7	Pass
		Top Girt	L2x2x3/16	89	-1984.47	12827.70	15.5	Pass

<b>tnxTower</b>  <b>All-Points Technology Corp.</b> 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	<b>Job</b>	190' Self-Supporting Tower	<b>Page</b>	15 of 15
	<b>Project</b>	CT141_12070 Coventry East	<b>Date</b>	09:14:02 10/21/21
	<b>Client</b>	Verizon Wireless Site: Coventry East	<b>Designed by</b>	M. Larson

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	$\phi P_{allow}$ lb	% Capacity	Pass Fail	
							25.3 (b)		
<b>T5</b>	<b>136 - 132</b>	<b>Leg</b> Diagonal	<b>ROHN 3.5 EH</b> L1 3/4x1 3/4x3/16	<b>99</b> 105	<b>-123001.00</b> -3781.64	<b>149924.00</b> 13525.40	<b>82.0</b> 28.0	<b>Pass</b> Pass	
<b>T6</b>	<b>132 - 128</b>	<b>Leg</b> Diagonal	<b>ROHN 3.5 EH</b> L1 3/4x1 3/4x3/16	<b>108</b> 114	<b>-129750.00</b> -3654.21	<b>149924.00</b> 12820.80	<b>86.5</b> 28.5	<b>Pass</b> Pass	
<b>T7</b>	<b>128 - 124</b>	<b>Leg</b> Diagonal	<b>ROHN 3.5 EH</b> L1 3/4x1 3/4x3/16	<b>117</b> 123	<b>-136559.00</b> -3731.76	<b>149924.00</b> 12019.20	<b>91.1</b> 31.0	<b>Pass</b> Pass	
<b>T8</b>	<b>124 - 120</b>	<b>Leg</b> Diagonal	<b>ROHN 3.5 EH</b> L1 3/4x1 3/4x3/16	<b>126</b> 129	<b>-142535.00</b> -4262.74	<b>161229.00</b> 10960.90	<b>88.4</b> 38.9	<b>Pass</b> Pass	
		Secondary Horizontal	L2x2x1/4	134	-2471.98	18760.90	50.6 (b) 13.2	Pass	
<b>T9</b>	<b>120 - 100</b>	<b>Leg</b> Diagonal	<b>ROHN 4 EH</b> L2x2x3/16	<b>137</b> 150	<b>-172836.00</b> -5156.06	<b>191981.00</b> 10629.10	<b>90.0</b> 48.5	<b>Pass</b> Pass	
		Secondary Horizontal	L2x2x1/4	145	-2997.60	11386.90	60.7 (b) 26.3	Pass	
<b>T10</b>	<b>100 - 80</b>	<b>Leg</b> Diagonal	<b>ROHN 5 EH</b> L2 1/2x2 1/2x3/16	<b>176</b> 180	<b>-202957.00</b> -5499.33	<b>239388.00</b> 12116.60	<b>84.8</b> 45.4	<b>Pass</b> Pass	
<b>T11</b>	<b>80 - 60</b>	<b>Leg</b> Diagonal	<b>ROHN 5 EH</b> L2 1/2x2 1/2x1/4	<b>197</b> 201	<b>-231942.00</b> -6531.19	<b>265071.00</b> 11871.10	<b>87.5</b> 55.0	<b>Pass</b> Pass	
		Secondary Horizontal	L2 1/2x2 1/2x1/4	205	-4022.82	10213.40	57.2 (b) 39.4	Pass	
<b>T12</b>	<b>60 - 40</b>	<b>Leg</b> Diagonal	<b>6" EHS w/ HSS7.625x0.375</b> L3x3x1/4	<b>227</b> 231	<b>-264007.00</b> -6929.46	<b>449415.00</b> 16915.70	<b>58.7</b> 41.0	<b>Pass</b> Pass	
<b>T13</b>	<b>40 - 20</b>	<b>Leg</b> Diagonal	<b>ROHN 6 EH</b> L3 1/2x3 1/2x1/4	<b>248</b> 252	<b>-288773.00</b> -7795.62	<b>356650.00</b> 17929.60	<b>81.0</b> 43.5	<b>Pass</b> Pass	
		Secondary Horizontal	L3x3x5/16	256	-5008.84	12535.20	62.7 (b) 40.0	Pass	
<b>T14</b>	<b>20 - 0</b>	<b>Leg</b> Diagonal	<b>ROHN 8 EHS</b> L3 1/2x3 1/2x1/4	<b>269</b> 273	<b>-316274.00</b> -8761.81	<b>386395.00</b> 15379.60	<b>81.9</b> 57.0	<b>Pass</b> Pass	
							Summary		
							Leg (T7)	91.1	Pass
							Diagonal (T3)	68.0	Pass
							Secondary Horizontal (T13)	40.0	Pass
							Top Girt (T4)	25.3	Pass
							Bolt Checks	83.9	Pass
							<b>RATING =</b>	<b>91.1</b>	<b>Pass</b>

**All-Points Technology Corp., P.C.**

567 Vauxhall St. Ext., Suite 311  
Waterford, CT 06385  
(860) 663-1697

Client: **Verizon Wireless**  
Job: **Coventry East**  
Calculated By: **M. Larson**

Job No.: **CT141\_12070**  
Date: **21-Oct-21**

**Program assumes:**

Mat is square in plan view.  
Water table is below bottom of mat.  
Unit weight of concrete = 150 pcf  
Unit weight of soil = 100 pcf

**Information to be provided:**

Pier is round or square in plan dimension ("R" or "S')	Shape =	R
OTM = Overturning Moment to be resisted	OTM =	5055 ft-kips
P = Download reaction	P =	323.5 kips
H = Height from ground surface to top of mat (if buried)	H =	0.0 ft.
P <sub>M</sub> = Projection of pier above mat	P <sub>M</sub> =	0.0 ft.
y = Thickness of mat	y =	4.50 ft.
x = Width of mat	x =	32.00 ft.
d = Diameter of round pier	d =	0.0 ft.
s = Size of square pier	s =	0.0 ft.

Mass of tower and appurtenances (below)

**Results:**

<u>Component</u>	<u>Mass</u>	<u>Moment Arm</u>	<u>Moment Resist.</u>
Pier	0.0 kips	16 ft.	0.0 ft-kips
Overburden	0.0 kips	16 ft.	0.0 ft-kips
Mat	622.1 kips	16 ft.	9953.3 ft-kips
Tower Dead Load	kips	16 ft.	0.0 ft-kips
Antenna Dead Load	kips	16 ft.	0.0 ft-kips

Overturning Moment Resistance = 9953.28 ft-kips  
Factor of Safety = 1.97  
Concrete Quantity = 170.7 c.y.

**SATISFACTORY**



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

---

## Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10069538  
Maser Consulting Connecticut Project #: 21777167A

June 16, 2021

### Site Information

Site ID: 468160-VZW / COVENTRY EAST CT  
Site Name: COVENTRY EAST CT  
Carrier Name: Verizon Wireless  
Address: 1712 Main St  
Coventry, Connecticut 06238  
Tolland County  
Latitude: 41.779932°  
Longitude: -72.309583°

### Structure Information

Tower Type: Self Support  
Mount Type: 15.00-Ft T-Frame

FUZE ID # 16272141

### Analysis Results

T-Frame: 72.6% Pass

### \*\*\*Contractor PMI Requirements:

*Included at the end of this MA report*

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

*Contractor - Please Review Specific Site PMI Requirements Upon Award*

*Requirements also Noted on Mount Modification Drawings*

*Requirements may also be Noted on A & E drawings*

Report Prepared By: Selene Chen



06/16/2021

**Executive Summary:**

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

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

**Sources of Information:**

Document Type	Remarks
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS Site ID: 674867, dated October 20, 2020</i>
<i>Mount Mapping Report</i>	<i>Hudson Design Group LLC, Site ID: 468160, dated March 25, 2021</i>
<i>Mount Analysis Report</i>	<i>Maser Consulting Connecticut, Project #: 21777167A, dated May 6, 2021</i>
<i>Mount Modification Drawings</i>	<i>Maser Consulting Connecticut, Project #: 21777167A, dated June 16, 2021</i>

**Analysis Criteria:**

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust),	119 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.50 in
	Risk Category:	II
	Exposure Category:	C
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, $K_e$ :	0.975
Seismic Parameters:	$S_s$ :	0.188
	$S_1$ :	0.055
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, $L_v$ :	250 lbs.
	Maintenance Live Load, $L_m$ :	500 lbs.
Analysis Software:	RISA-3D (V17)	

**Final Loading Configuration:**

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

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

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

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

**Standard Conditions:**

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

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

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

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

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
  - o Channel, Solid Round, Angle, Plate      ASTM A36 (Gr. 36)
  - o HSS (Rectangular)                              ASTM 500 (Gr. B-46)
  - o Pipe    ASTM A53 (Gr. B-35)
  - o Threaded Rod                                      F1554 (Gr. 36)
  - o Bolts    ASTM A325
8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

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

**Analysis Results:**

Component	Utilization %	Pass/Fail
Face Horizontal		Pass
Mount Pipe		Pass
Mast Pipe		Pass
Tieback		Pass
Standoff Horizontal		Pass
V-Bracing		Pass
Mount Connection		Pass

<b>Structure Rating – (Controlling Utilization of all Components)</b>	<b>72.6%</b>
---	--------------

*Prior to the removal of any antennas and associated equipment, the contractor shall verify which existing antennas are serving CDMA technology. The CDMA antennas SHALL NOT be removed. For the purpose of this analysis, the CDMA antennas are assumed to be located in position 4 (looking from behind the antennas left to right). If actual site conditions differ from this assumption, the contractor is required to notify both Verizon and Maser Consulting Connecticut before proceeding with their scope of work. Changes in proposed antenna placement and/or mount reanalysis may be required based on in-field location of CDMA antennas.*

**Recommendation:**

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

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



**Attachments:**

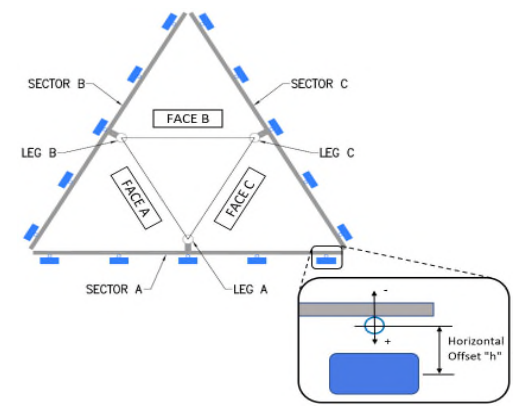
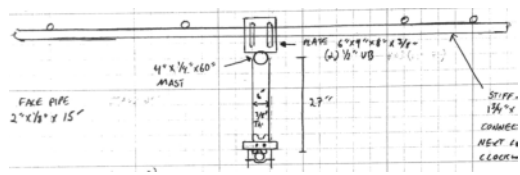
Mount Photos  
Mount Mapping Report (for reference only)  
Analysis Calculations  
**Contractor Required PMI Report Deliverables**  
Antenna Placement Diagrams  
TIA Adoption and Wind Speed Usage Letter



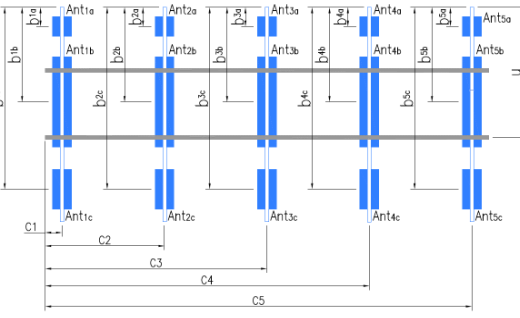
MASER CONSULTING CONNECTICUT	<b>Antenna Mount Mapping Form (PATENT PENDING)</b>		
<b>Tower Owner:</b>	Other	<b>Mapping Date:</b>	3/25/2021
<b>Site Name:</b>	COVENTRY EAST CT	<b>Tower Type:</b>	Self Support
<b>Site Number or ID:</b>	468160	<b>Tower Height (Ft.):</b>	
<b>Mapping Contractor:</b>	HUDSON DESIGN GROUP, LLC.	<b>Mount Elevation (Ft.):</b>	150.1

This antenna mapping form is the property of TES and under . 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.

Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :							
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.):							
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.):							
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.):					



		Enter antenna model. If not labeled, enter "Unknown".					Mounting Locations [Units are inches and degrees]			Photos of antennas	
Ants. Items	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b, b <sub>1</sub> , b <sub>2</sub> , ..., " (Inches)		Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
							b	b <sub>1</sub> , ..."			
<b>Sector A</b>											
Ant											
Ant <sub>1b</sub>											
Ant <sub>1c</sub>											
Ant											
Ant <sub>2b</sub>											
Ant <sub>2c</sub>											
Ant											
Ant <sub>3b</sub>											
Ant <sub>3c</sub>											
Ant											
Ant <sub>4b</sub>											
Ant <sub>4c</sub>											
Ant											
Ant <sub>5b</sub>											
Ant <sub>5c</sub>											
Ant on Standoff											
Ant on Standoff											
Ant on Tower											
Ant on Tower											



**Antenna Layout (Looking Out From Tower)**

Mount Azimuth (Degree) for Each Sector		Tower Leg Azimuth (Degree) for Each Sector		Sector B																																	
Sector A:	Deg	Leg A:	Deg	Ant																																	
Sector B:	Deg	Leg B:	Deg	Ant <sub>1b</sub>																																	
Sector C:	Deg	Leg C:	Deg	Ant <sub>1c</sub>																																	
Sector D:	Deg	Leg D:	Deg	Ant																																	
<b>Climbing Facility Information</b>				Ant <sub>2b</sub>																																	
Location:	Deg	On Leg A		Ant <sub>2c</sub>																																	
Climbing Facility	Corrosion Type:	Good condition.		Ant <sub>3b</sub>																																	
	Access:	Climbing path was unobstructed.		Ant <sub>3c</sub>																																	
	Condition:	Good condition.		Ant																																	
				Ant <sub>4b</sub>																																	
				Ant <sub>4c</sub>																																	
				Ant																																	
				Ant <sub>5b</sub>																																	
				Ant <sub>5c</sub>																																	
				Ant on Standoff																																	
				Ant on Standoff																																	
				Ant on Tower																																	
				Ant on Tower																																	
				<b>Sector C</b>												Ant																					
																Ant <sub>1b</sub>																					
																Ant <sub>1c</sub>																					
																Ant																					
																Ant <sub>2b</sub>																					
																Ant <sub>2c</sub>																					
												Ant																									
												Ant <sub>3b</sub>																									
												Ant <sub>3c</sub>																									
												Ant																									
												Ant <sub>4b</sub>																									
												Ant <sub>4c</sub>																									
												Ant																									
												Ant <sub>5b</sub>																									
												Ant <sub>5c</sub>																									
												Ant on Standoff																									
												Ant on Standoff																									
												Ant on Tower																									
												Ant on Tower																									
<b>Sector D</b>												Ant																									
												Ant <sub>1b</sub>																									
												Ant <sub>1c</sub>																									
												Ant																									
												Ant <sub>2b</sub>																									
												Ant <sub>2c</sub>																									
												Ant																									
												Ant <sub>3b</sub>																									
												Ant <sub>3c</sub>																									
												Ant																									
												Ant <sub>4b</sub>																									
												Ant <sub>4c</sub>																									
												Ant																									
												Ant <sub>5b</sub>																									
												Ant <sub>5c</sub>																									
												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 #
---------	----------------------	---------


**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)

Tower Owner:	Other	Mapping Date:	3/25/2021
Site Name:	COVENTRY EAST CT	Tower Type:	Self Support
Site Number or ID:	468160	Tower Height (Ft.):	
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	Mount Elevation (Ft.):	150.1

This antenna mapping form is the property of TES and under . 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.

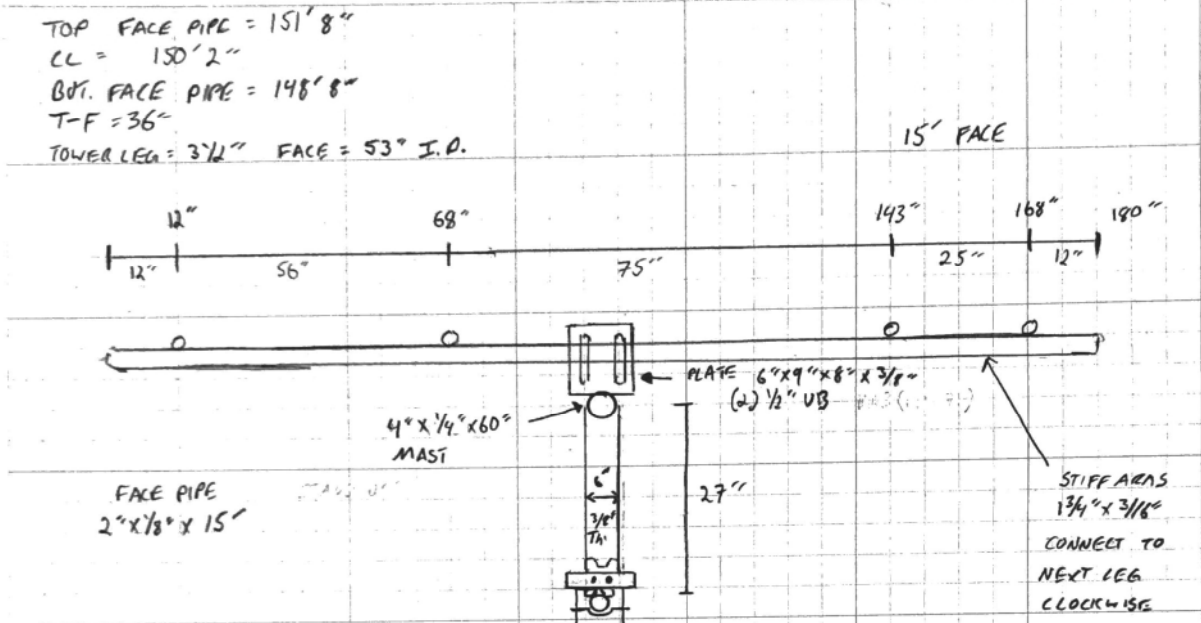
**Please Insert Sketches of the Antenna Mount**

DATE: \_\_\_\_\_  
 Project Name: \_\_\_\_\_  
 Project No.: COVENTRY EAST CT  
 Design By: [Signature] Chk'd By: \_\_\_\_\_ Page 2 of 2

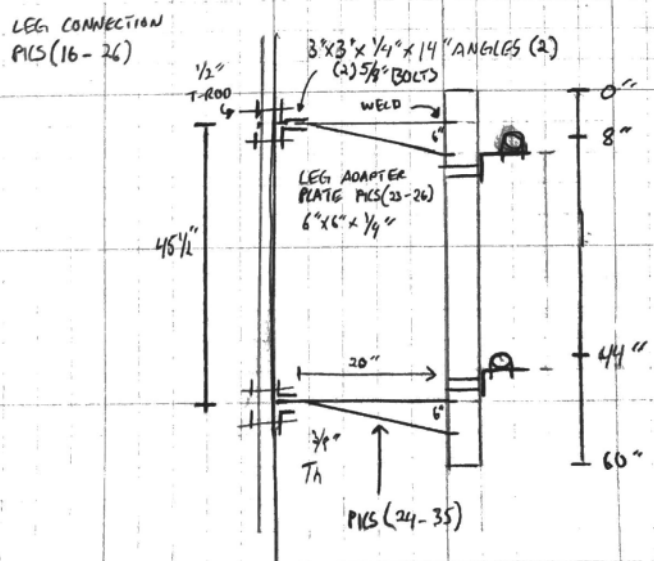
**HUDSON**  
Design Group LLC

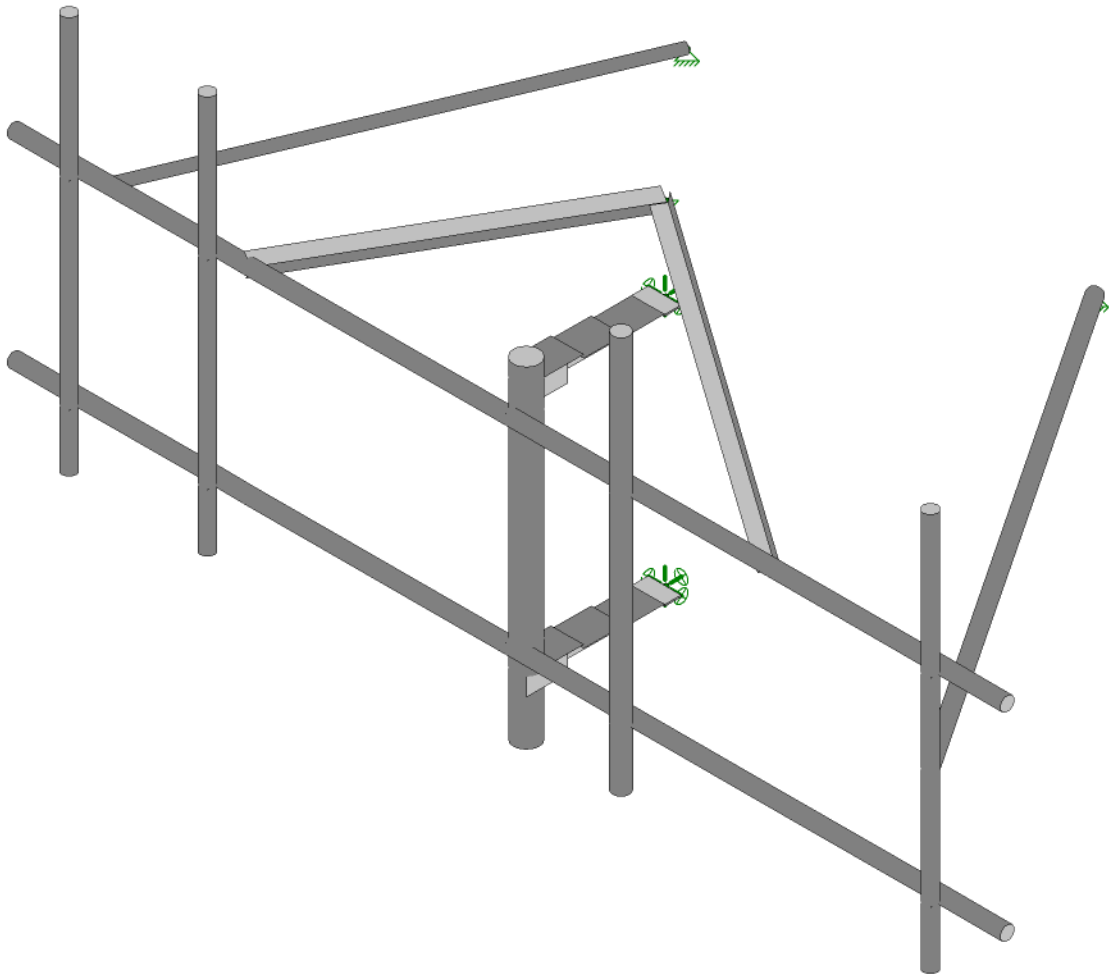
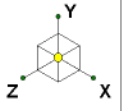
45 BEECHWOOD DRIVE  
NORTH ANDOVER, MA 01845

TEL: (978) 557-5553  
FAX: (978) 336-5586



CROSSOVER PLATES PKGS (70-73)  
 6" x 8" x 3/16"





Envelope Only Solution

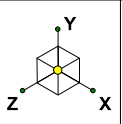
Maser Consulting

468160-VZW\_MT\_LOT\_SectorA\_H

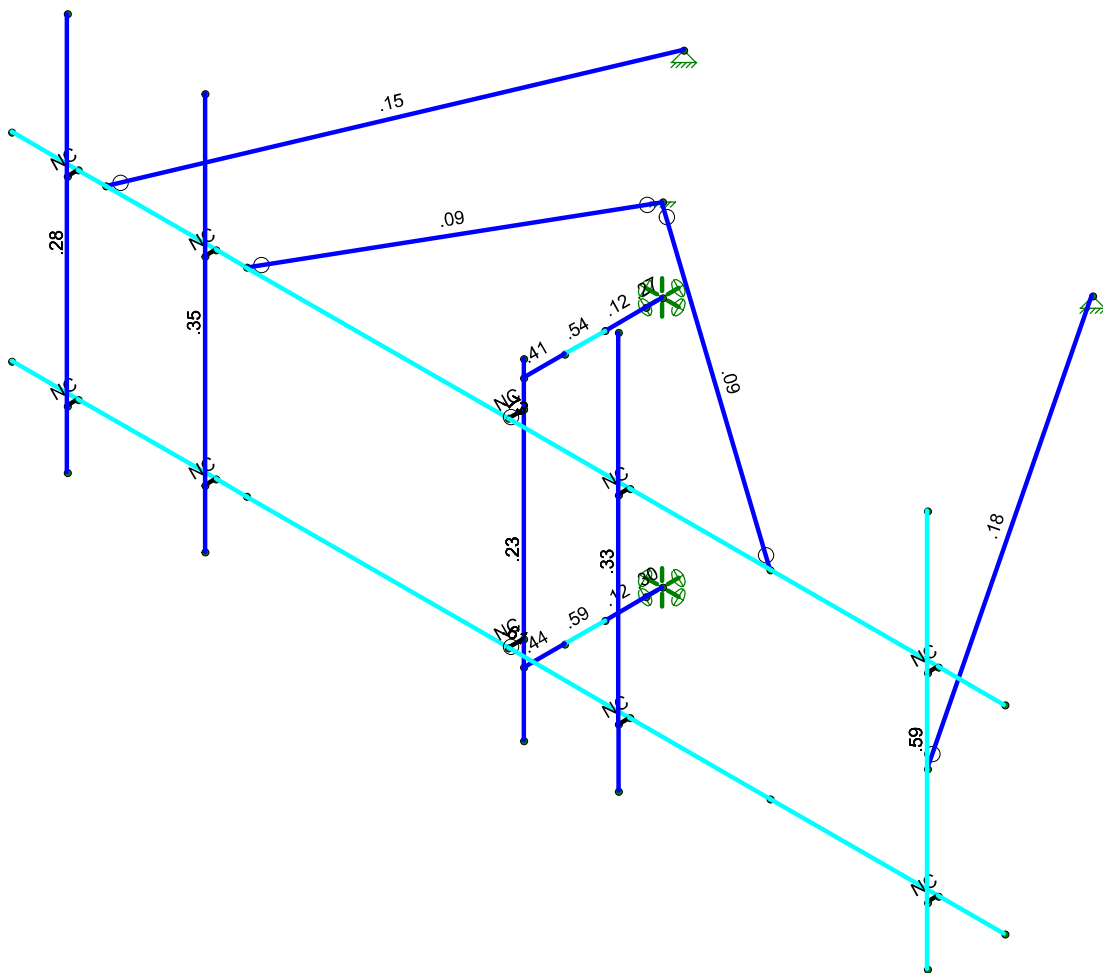
SK - 1

June 11, 2021 at 4:17 PM

MOD\_468160-VZW\_MT\_LOT\_A\_H....



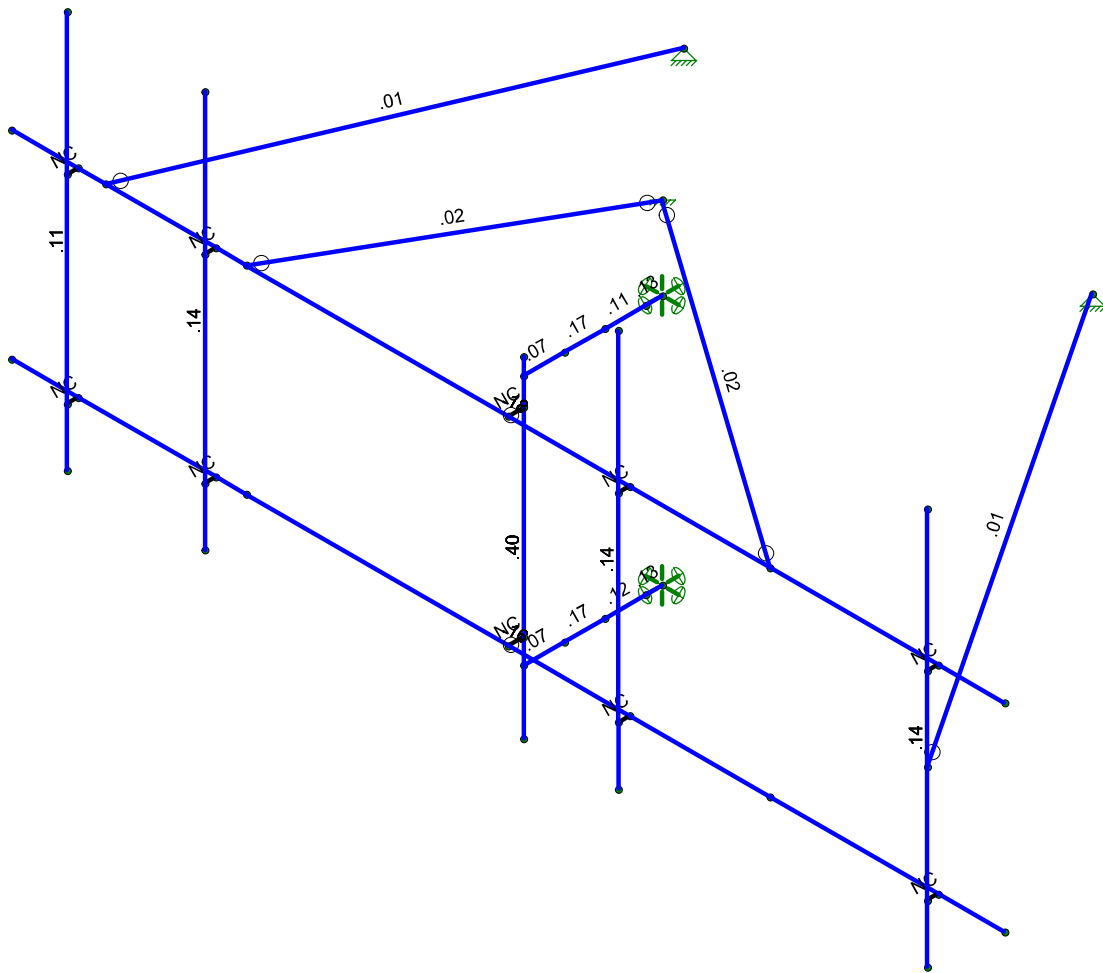
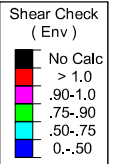
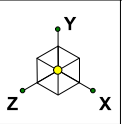
Code Check ( Env )	
Black	No Calc
Red	> 1.0
Magenta	.90-1.0
Green	.75-.90
Cyan	.50-.75
Blue	0.-.50



Member Code Checks Displayed (Enveloped)  
Envelope Only Solution

Maser Consulting	468160-VZW_MT_LOT_SectorA_H	SK - 2
		June 11, 2021 at 4:18 PM
		MOD_468160-VZW_MT_LOT_A_H....





Member Shear Checks Displayed (Enveloped)  
Envelope Only Solution

Maser Consulting	468160-VZW_MT_LOT_SectorA_H	SK - 3
		June 11, 2021 at 4:18 PM
		MOD_468160-VZW_MT_LOT_A_H....





**Basic Load Cases (Continued)**

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
52	Structure Wo (330 D...	None						38	
53	Structure Wi (0 Deg)	None						38	
54	Structure Wi (30 Deg)	None						38	
55	Structure Wi (60 Deg)	None						38	
56	Structure Wi (90 Deg)	None						38	
57	Structure Wi (120 De...	None						38	
58	Structure Wi (150 De...	None						38	
59	Structure Wi (180 De...	None						38	
60	Structure Wi (210 De...	None						38	
61	Structure Wi (240 De...	None						38	
62	Structure Wi (270 De...	None						38	
63	Structure Wi (300 De...	None						38	
64	Structure Wi (330 De...	None						38	
65	Structure Wm (0 Deg)	None						38	
66	Structure Wm (30 D...	None						38	
67	Structure Wm (60 D...	None						38	
68	Structure Wm (90 D...	None						38	
69	Structure Wm (120 ...	None						38	
70	Structure Wm (150 ...	None						38	
71	Structure Wm (180 ...	None						38	
72	Structure Wm (210 ...	None						38	
73	Structure Wm (240 ...	None						38	
74	Structure Wm (270 ...	None						38	
75	Structure Wm (300 ...	None						38	
76	Structure Wm (330 ...	None						38	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		

**Load Combinations**

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



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468160-VZW\_MT\_LOT\_SectorA\_H

June 11, 2021  
 4:18 PM  
 Checked By: \_\_\_\_\_

**Load Combinations (Continued)**

	Description	Solve	PDelta	S...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...
19	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1
20	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1
21	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1
22	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1
23	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1
24	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1
25	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1		
26	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1		
27	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1		
28	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1		
29	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1		
30	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1		
31	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1		
32	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1		
33	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1		
34	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1		
35	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1		
36	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1		
37	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1		
38	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1		
39	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1		
40	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1		
41	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1		
42	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1		
43	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1		
44	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1		
45	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1		
46	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1		
47	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1		
48	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1		
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5						
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5						
51	1.4D	Yes	Y		1	1.4	39	1.4								
52	Seismic Mass		Y		1	1	39	1								
53	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX		SY	1	SZ	-1		
54	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866		
55	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5		
56	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	1	SY	1	SZ			
57	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5		
58	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866		
59	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX		SY	1	SZ	1		
60	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866		
61	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5		
62	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	-1	SY	1	SZ			
63	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5		
64	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.866		



### Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	-7.5	-.5	0	0	
2	N2	7.5	-.5	0	0	
3	N3	-7.5	2.5	0	0	
4	N4	7.5	2.5	0	0	
5	N5	0	-.5	0	0	
6	N7	1.833333	-.5	0	0	
7	N8	1.833333	2.5	0	0	
8	N9	-4.416667	-.5	0	0	
9	N10	-4.416667	2.5	0	0	
10	N13	-6.5	-.5	0	0	
11	N14	-6.5	2.5	0	0	
12	N15	1.833333	-.5	0.166667	0	
13	N16	1.833333	2.5	0.166667	0	
14	N17	-4.416667	-.5	0.166667	0	
15	N18	-4.416667	2.5	0.166667	0	
16	N21	-6.5	-.5	0.166667	0	
17	N22	-6.5	2.5	0.166667	0	
18	N23	1.833333	4.625	0.166667	0	
19	N24	-4.416667	4.625	0.166667	0	
20	N26	-6.5	4.625	0.166667	0	
21	N27	1.833333	-1.375	0.166667	0	
22	N28	-4.416667	-1.375	0.166667	0	
23	N30	-6.5	-1.375	0.166667	0	
24	N31	0.	-.5	-0.234923	0	
25	N32	0.	3.166667	-0.234923	0	
26	N33	0.	-.875	-0.234923	0	
27	N34	0.	-1.833333	-0.234923	0	
28	N35	0.	2.916667	-0.234923	0	
29	N36	0.	-.875	-2.327674	0	
30	N37	0.	2.916667	-2.327674	0	
31	N39	-3.496668	2.5	-6.146841	0	
32	N40	0.	-.875	-2.077667	0	
33	N41	0.	2.916667	-2.077667	0	
34	N42	0.	-.875	-1.461796	0	
35	N43	0.	2.916667	-1.461796	0	
36	N44	-0.	-.875	-0.850849	0	
37	N45	-0.	2.916667	-0.850849	0	
38	N40A	0	2.5	0	0	
39	N41A	0.	2.5	-0.234923	0	
40	N41B	6.5	-.5	0	0	
41	N42A	6.5	2.5	0	0	
42	N43A	6.5	-.5	0.166667	0	
43	N44A	6.5	2.5	0.166667	0	
44	N45A	6.5	4.625	0.166667	0	
45	N46	6.5	-1.375	0.166667	0	
46	N47	-6.083333	2.5	0	0	
47	N48	-3.958333	-.5	0	0	
48	N49	3.958333	-.5	0	0	
49	N50	0.	4.166667	-2.327674	0	
50	N51	-3.958333	2.5	0	0	
51	N52	3.958333	2.5	0	0	
52	N54	1.559162	1.25	-7.265461	0	



### Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
53	N54A	6.5	1.25	0.166667	0	

### Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rul...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
2	Face Pipe	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
3	Tieback	PIPE_1.25	Beam	Pipe	A53 Gr.B	Typical	.625	.184	.184	.368
4	Mast Pipe	PIPE 4.0	Beam	Pipe	A53 Gr.B	Typical	2.96	6.82	6.82	13.6
5	SO1	WT6X3/8_...	Beam	W Tee	A36 Gr.36	Typical	3.81	7.05	7.86	.201
6	SO2	WT3X3/8	Beam	W Tee	A36 Gr.36	Typical	2.21	4.66	1.41	.05
7	SO3	WT1x3/8	Beam	W Tee	A36 Gr.36	Typical	4.42	8.35	9.28	.31
8	SO4	PL3/8x6	Beam	RECT	A36 Gr.36	Typical	2.25	.026	6.75	.101
9	TES SO1	PL3/8x6	Beam	RECT	A36 Gr.36	Typical	2.25	.026	6.75	.101
10	TES SO2	PL3/8X3_...	Beam	RECT	A36 Gr.36	Typical	2.25	.026	6.75	.101
11	TES SO3	PL3/8x2_H..	Beam	RECT	A36 Gr.36	Typical	1	.021	.333	.07
12	Secondary Horizontal	PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
13	V-Brace	L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical	1.19	.692	.692	.026
14	Replacment Pipe	PIPE 2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
15	Proposed Tie-Back	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25

### Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt	
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3

### Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N2			Face Pipe	Beam	Pipe	A53 Gr.B	Typical
2	M2	N3	N4			Face Pipe	Beam	Pipe	A53 Gr.B	Typical
3	M3	N13	N21			RIGID	None	None	RIGID	Typical
4	M4	N14	N22			RIGID	None	None	RIGID	Typical
5	M7	N10	N18			RIGID	None	None	RIGID	Typical
6	M8	N9	N17			RIGID	None	None	RIGID	Typical
7	M9	N8	N16			RIGID	None	None	RIGID	Typical
8	M10	N7	N15			RIGID	None	None	RIGID	Typical
9	MP2A	N23	N27			Replacment ...	Column	Pipe	A53 Gr.B	Typical
10	MP3A	N24	N28			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
11	MP4A	N26	N30			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
12	M16	N5	N31			RIGID	None	None	RIGID	Typical
13	M17	N34	N32			Mast Pipe	Beam	Pipe	A53 Gr.B	Typical
14	M20	N47	N39			Tieback	Beam	Pipe	A53 Gr.B	Typical
15	M19	N35	N45			SO1	Beam	W Tee	A36 Gr.36	Typical

### Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
16	M20A	N33	N44			SO1	Beam	W Tee	A36 Gr.36	Typical
17	M21	N45	N43			SO2	Beam	W Tee	A36 Gr.36	Typical
18	M22	N44	N42			SO2	Beam	W Tee	A36 Gr.36	Typical
19	M23	N43	N41			SO3	Beam	W Tee	A36 Gr.36	Typical
20	M24	N42	N40			SO3	Beam	W Tee	A36 Gr.36	Typical
21	M25	N41	N37		90	SO4	Beam	RECT	A36 Gr.36	Typical
22	M26	N40	N36		90	SO4	Beam	RECT	A36 Gr.36	Typical
23	M24A	N40A	N41A			RIGID	None	None	RIGID	Typical
24	M24B	N42A	N44A			RIGID	None	None	RIGID	Typical
25	M25A	N41B	N43A			RIGID	None	None	RIGID	Typical
26	MP1A	N45A	N46			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
27	M29	N51	N50			V-Brace	Beam	Single Angle	A36 Gr.36	Typical
28	M30	N52	N50		270	V-Brace	Beam	Single Angle	A36 Gr.36	Typical
29	M31	N54A	N54			Proposed Tie...	Beam	Pipe	A53 Gr.B	Typical

### Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes	Default			None
2	M2						Yes				None
3	M3						Yes	** NA **			None
4	M4						Yes	** NA **			None
5	M7						Yes	** NA **			None
6	M8						Yes	** NA **			None
7	M9						Yes	** NA **			None
8	M10						Yes	** NA **			None
9	MP2A						Yes	** NA **			None
10	MP3A						Yes	** NA **			None
11	MP4A						Yes	** NA **			None
12	M16		OOOOOO				Yes	** NA **			None
13	M17						Yes				None
14	M20	BenPIN					Yes	Default			None
15	M19						Yes				None
16	M20A						Yes				None
17	M21						Yes				None
18	M22						Yes				None
19	M23						Yes				None
20	M24						Yes				None
21	M25						Yes				None
22	M26						Yes				None
23	M24A		OOOOOO				Yes	** NA **			None
24	M24B						Yes	** NA **			None
25	M25A						Yes	** NA **			None
26	MP1A						Yes	** NA **			None
27	M29	BenPIN	BenPIN				Yes				None
28	M30	BenPIN	BenPIN				Yes				None
29	M31	OOOOOXO					Yes	Default			None











Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468160-VZW\_MT\_LOT\_SectorA\_H

June 11, 2021  
 4:18 PM  
 Checked By: \_\_\_\_\_

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP3A	Mx	.013	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	104.976	1
2	MP2A	Z	-60.608	1
3	MP2A	Mx	-.086	1
4	MP2A	X	104.976	5
5	MP2A	Z	-60.608	5
6	MP2A	Mx	-.086	5
7	MP2A	X	104.976	1
8	MP2A	Z	-60.608	1
9	MP2A	Mx	-.024	1
10	MP2A	X	104.976	5
11	MP2A	Z	-60.608	5
12	MP2A	Mx	-.024	5
13	MP1A	X	42.324	2.5
14	MP1A	Z	-24.436	2.5
15	MP1A	Mx	-.022	2.5
16	MP1A	X	42.324	3.5
17	MP1A	Z	-24.436	3.5
18	MP1A	Mx	-.022	3.5
19	MP1A	X	48.997	3
20	MP1A	Z	-28.288	3
21	MP1A	Mx	-.043	3
22	MP2A	X	41.973	3
23	MP2A	Z	-24.233	3
24	MP2A	Mx	-.037	3
25	MP4A	X	120.482	1
26	MP4A	Z	-69.56	1
27	MP4A	Mx	-.063	1
28	MP4A	X	120.482	5
29	MP4A	Z	-69.56	5
30	MP4A	Mx	-.063	5
31	MP3A	X	49.286	2.5
32	MP3A	Z	-28.455	2.5
33	MP3A	Mx	.017	2.5
34	MP3A	X	49.286	3.5
35	MP3A	Z	-28.455	3.5
36	MP3A	Mx	.017	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	111.481	1
2	MP2A	Z	0	1
3	MP2A	Mx	-.05	1
4	MP2A	X	111.481	5
5	MP2A	Z	0	5
6	MP2A	Mx	-.05	5
7	MP2A	X	111.481	1
8	MP2A	Z	0	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP2A	Mx	-.061	1
10	MP2A	X	111.481	5
11	MP2A	Z	0	5
12	MP2A	Mx	-.061	5
13	MP1A	X	38.704	2.5
14	MP1A	Z	0	2.5
15	MP1A	Mx	-.019	2.5
16	MP1A	X	38.704	3.5
17	MP1A	Z	0	3.5
18	MP1A	Mx	-.019	3.5
19	MP1A	X	52.169	3
20	MP1A	Z	0	3
21	MP1A	Mx	-.043	3
22	MP2A	X	42.369	3
23	MP2A	Z	0	3
24	MP2A	Mx	-.035	3
25	MP4A	X	128.136	1
26	MP4A	Z	0	1
27	MP4A	Mx	-.064	1
28	MP4A	X	128.136	5
29	MP4A	Z	0	5
30	MP4A	Mx	-.064	5
31	MP3A	X	52.356	2.5
32	MP3A	Z	0	2.5
33	MP3A	Mx	.017	2.5
34	MP3A	X	52.356	3.5
35	MP3A	Z	0	3.5
36	MP3A	Mx	.017	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	112.39	1
2	MP2A	Z	64.888	1
3	MP2A	Mx	-.008	1
4	MP2A	X	112.39	5
5	MP2A	Z	64.888	5
6	MP2A	Mx	-.008	5
7	MP2A	X	112.39	1
8	MP2A	Z	64.888	1
9	MP2A	Mx	-.098	1
10	MP2A	X	112.39	5
11	MP2A	Z	64.888	5
12	MP2A	Mx	-.098	5
13	MP1A	X	50.068	2.5
14	MP1A	Z	28.907	2.5
15	MP1A	Mx	-.024	2.5
16	MP1A	X	50.068	3.5
17	MP1A	Z	28.907	3.5
18	MP1A	Mx	-.024	3.5
19	MP1A	X	52.354	3
20	MP1A	Z	30.227	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP1A	Mx	-.041	3
22	MP2A	X	46.616	3
23	MP2A	Z	26.914	3
24	MP2A	Mx	-.037	3
25	MP4A	X	128.848	1
26	MP4A	Z	74.39	1
27	MP4A	Mx	-.061	1
28	MP4A	X	128.848	5
29	MP4A	Z	74.39	5
30	MP4A	Mx	-.061	5
31	MP3A	X	52.755	2.5
32	MP3A	Z	30.458	2.5
33	MP3A	Mx	.017	2.5
34	MP3A	X	52.755	3.5
35	MP3A	Z	30.458	3.5
36	MP3A	Mx	.017	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	78.904	1
2	MP2A	Z	136.666	1
3	MP2A	Mx	.053	1
4	MP2A	X	78.904	5
5	MP2A	Z	136.666	5
6	MP2A	Mx	.053	5
7	MP2A	X	78.904	1
8	MP2A	Z	136.666	1
9	MP2A	Mx	-.12	1
10	MP2A	X	78.904	5
11	MP2A	Z	136.666	5
12	MP2A	Mx	-.12	5
13	MP1A	X	43.545	2.5
14	MP1A	Z	75.422	2.5
15	MP1A	Mx	-.018	2.5
16	MP1A	X	43.545	3.5
17	MP1A	Z	75.422	3.5
18	MP1A	Mx	-.018	3.5
19	MP1A	X	36.573	3
20	MP1A	Z	63.347	3
21	MP1A	Mx	-.026	3
22	MP2A	X	35.692	3
23	MP2A	Z	61.82	3
24	MP2A	Mx	-.025	3
25	MP4A	X	90.205	1
26	MP4A	Z	156.24	1
27	MP4A	Mx	-.038	1
28	MP4A	X	90.205	5
29	MP4A	Z	156.24	5
30	MP4A	Mx	-.038	5
31	MP3A	X	37.017	2.5
32	MP3A	Z	64.114	2.5





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP2A	Mx	.117	5
7	MP2A	X	-74.624	1
8	MP2A	Z	129.252	1
9	MP2A	Mx	-.031	1
10	MP2A	X	-74.624	5
11	MP2A	Z	129.252	5
12	MP2A	Mx	-.031	5
13	MP1A	X	-39.074	2.5
14	MP1A	Z	67.678	2.5
15	MP1A	Mx	.022	2.5
16	MP1A	X	-39.074	3.5
17	MP1A	Z	67.678	3.5
18	MP1A	Mx	.022	3.5
19	MP1A	X	-34.635	3
20	MP1A	Z	59.99	3
21	MP1A	Mx	.033	3
22	MP2A	X	-33.011	3
23	MP2A	Z	57.176	3
24	MP2A	Mx	.032	3
25	MP4A	X	-85.375	1
26	MP4A	Z	147.874	1
27	MP4A	Mx	.049	1
28	MP4A	X	-85.375	5
29	MP4A	Z	147.874	5
30	MP4A	Mx	.049	5
31	MP3A	X	-35.014	2.5
32	MP3A	Z	60.645	2.5
33	MP3A	Mx	-.013	2.5
34	MP3A	X	-35.014	3.5
35	MP3A	Z	60.645	3.5
36	MP3A	Mx	-.013	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-104.976	1
2	MP2A	Z	60.608	1
3	MP2A	Mx	.086	1
4	MP2A	X	-104.976	5
5	MP2A	Z	60.608	5
6	MP2A	Mx	.086	5
7	MP2A	X	-104.976	1
8	MP2A	Z	60.608	1
9	MP2A	Mx	.024	1
10	MP2A	X	-104.976	5
11	MP2A	Z	60.608	5
12	MP2A	Mx	.024	5
13	MP1A	X	-42.324	2.5
14	MP1A	Z	24.436	2.5
15	MP1A	Mx	.022	2.5
16	MP1A	X	-42.324	3.5
17	MP1A	Z	24.436	3.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP1A	Mx	.022	3.5
19	MP1A	X	-48.997	3
20	MP1A	Z	28.288	3
21	MP1A	Mx	.043	3
22	MP2A	X	-41.973	3
23	MP2A	Z	24.233	3
24	MP2A	Mx	.037	3
25	MP4A	X	-120.482	1
26	MP4A	Z	69.56	1
27	MP4A	Mx	.063	1
28	MP4A	X	-120.482	5
29	MP4A	Z	69.56	5
30	MP4A	Mx	.063	5
31	MP3A	X	-49.286	2.5
32	MP3A	Z	28.455	2.5
33	MP3A	Mx	-.017	2.5
34	MP3A	X	-49.286	3.5
35	MP3A	Z	28.455	3.5
36	MP3A	Mx	-.017	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-111.481	1
2	MP2A	Z	0	1
3	MP2A	Mx	.05	1
4	MP2A	X	-111.481	5
5	MP2A	Z	0	5
6	MP2A	Mx	.05	5
7	MP2A	X	-111.481	1
8	MP2A	Z	0	1
9	MP2A	Mx	.061	1
10	MP2A	X	-111.481	5
11	MP2A	Z	0	5
12	MP2A	Mx	.061	5
13	MP1A	X	-38.704	2.5
14	MP1A	Z	0	2.5
15	MP1A	Mx	.019	2.5
16	MP1A	X	-38.704	3.5
17	MP1A	Z	0	3.5
18	MP1A	Mx	.019	3.5
19	MP1A	X	-52.169	3
20	MP1A	Z	0	3
21	MP1A	Mx	.043	3
22	MP2A	X	-42.369	3
23	MP2A	Z	0	3
24	MP2A	Mx	.035	3
25	MP4A	X	-128.136	1
26	MP4A	Z	0	1
27	MP4A	Mx	.064	1
28	MP4A	X	-128.136	5
29	MP4A	Z	0	5





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
30	MP4A	Mx	.064	5
31	MP3A	X	-52.356	2.5
32	MP3A	Z	0	2.5
33	MP3A	Mx	-.017	2.5
34	MP3A	X	-52.356	3.5
35	MP3A	Z	0	3.5
36	MP3A	Mx	-.017	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-112.39	1
2	MP2A	Z	-64.888	1
3	MP2A	Mx	.008	1
4	MP2A	X	-112.39	5
5	MP2A	Z	-64.888	5
6	MP2A	Mx	.008	5
7	MP2A	X	-112.39	1
8	MP2A	Z	-64.888	1
9	MP2A	Mx	.098	1
10	MP2A	X	-112.39	5
11	MP2A	Z	-64.888	5
12	MP2A	Mx	.098	5
13	MP1A	X	-50.068	2.5
14	MP1A	Z	-28.907	2.5
15	MP1A	Mx	.024	2.5
16	MP1A	X	-50.068	3.5
17	MP1A	Z	-28.907	3.5
18	MP1A	Mx	.024	3.5
19	MP1A	X	-52.354	3
20	MP1A	Z	-30.227	3
21	MP1A	Mx	.041	3
22	MP2A	X	-46.616	3
23	MP2A	Z	-26.914	3
24	MP2A	Mx	.037	3
25	MP4A	X	-128.848	1
26	MP4A	Z	-74.39	1
27	MP4A	Mx	.061	1
28	MP4A	X	-128.848	5
29	MP4A	Z	-74.39	5
30	MP4A	Mx	.061	5
31	MP3A	X	-52.755	2.5
32	MP3A	Z	-30.458	2.5
33	MP3A	Mx	-.017	2.5
34	MP3A	X	-52.755	3.5
35	MP3A	Z	-30.458	3.5
36	MP3A	Mx	-.017	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-78.904	1
2	MP2A	Z	-136.666	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP2A	Mx	-.053	1
4	MP2A	X	-78.904	5
5	MP2A	Z	-136.666	5
6	MP2A	Mx	-.053	5
7	MP2A	X	-78.904	1
8	MP2A	Z	-136.666	1
9	MP2A	Mx	.12	1
10	MP2A	X	-78.904	5
11	MP2A	Z	-136.666	5
12	MP2A	Mx	.12	5
13	MP1A	X	-43.545	2.5
14	MP1A	Z	-75.422	2.5
15	MP1A	Mx	.018	2.5
16	MP1A	X	-43.545	3.5
17	MP1A	Z	-75.422	3.5
18	MP1A	Mx	.018	3.5
19	MP1A	X	-36.573	3
20	MP1A	Z	-63.347	3
21	MP1A	Mx	.026	3
22	MP2A	X	-35.692	3
23	MP2A	Z	-61.82	3
24	MP2A	Mx	.025	3
25	MP4A	X	-90.205	1
26	MP4A	Z	-156.24	1
27	MP4A	Mx	.038	1
28	MP4A	X	-90.205	5
29	MP4A	Z	-156.24	5
30	MP4A	Mx	.038	5
31	MP3A	X	-37.017	2.5
32	MP3A	Z	-64.114	2.5
33	MP3A	Mx	-.01	2.5
34	MP3A	X	-37.017	3.5
35	MP3A	Z	-64.114	3.5
36	MP3A	Mx	-.01	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1
2	MP2A	Z	-34.316	1
3	MP2A	Mx	-.022	1
4	MP2A	X	0	5
5	MP2A	Z	-34.316	5
6	MP2A	Mx	-.022	5
7	MP2A	X	0	1
8	MP2A	Z	-34.316	1
9	MP2A	Mx	.019	1
10	MP2A	X	0	5
11	MP2A	Z	-34.316	5
12	MP2A	Mx	.019	5
13	MP1A	X	0	2.5
14	MP1A	Z	-20.6	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP4A	Mx	-.01	1
28	MP4A	X	17.644	5
29	MP4A	Z	-30.561	5
30	MP4A	Mx	-.01	5
31	MP3A	X	7.594	2.5
32	MP3A	Z	-13.154	2.5
33	MP3A	Mx	.003	2.5
34	MP3A	X	7.594	3.5
35	MP3A	Z	-13.154	3.5
36	MP3A	Mx	.003	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	22.529	1
2	MP2A	Z	-13.007	1
3	MP2A	Mx	-.018	1
4	MP2A	X	22.529	5
5	MP2A	Z	-13.007	5
6	MP2A	Mx	-.018	5
7	MP2A	X	22.529	1
8	MP2A	Z	-13.007	1
9	MP2A	Mx	-.005	1
10	MP2A	X	22.529	5
11	MP2A	Z	-13.007	5
12	MP2A	Mx	-.005	5
13	MP1A	X	9.742	2.5
14	MP1A	Z	-5.624	2.5
15	MP1A	Mx	-.005	2.5
16	MP1A	X	9.742	3.5
17	MP1A	Z	-5.624	3.5
18	MP1A	Mx	-.005	3.5
19	MP1A	X	11.823	3
20	MP1A	Z	-6.826	3
21	MP1A	Mx	-.01	3
22	MP2A	X	10.414	3
23	MP2A	Z	-6.013	3
24	MP2A	Mx	-.009	3
25	MP4A	X	25.631	1
26	MP4A	Z	-14.798	1
27	MP4A	Mx	-.013	1
28	MP4A	X	25.631	5
29	MP4A	Z	-14.798	5
30	MP4A	Mx	-.013	5
31	MP3A	X	10.975	2.5
32	MP3A	Z	-6.337	2.5
33	MP3A	Mx	.004	2.5
34	MP3A	X	10.975	3.5
35	MP3A	Z	-6.337	3.5
36	MP3A	Mx	.004	3.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	24.269	1
2	MP2A	Z	0	1
3	MP2A	Mx	-.011	1
4	MP2A	X	24.269	5
5	MP2A	Z	0	5
6	MP2A	Mx	-.011	5
7	MP2A	X	24.269	1
8	MP2A	Z	0	1
9	MP2A	Mx	-.013	1
10	MP2A	X	24.269	5
11	MP2A	Z	0	5
12	MP2A	Mx	-.013	5
13	MP1A	X	9.284	2.5
14	MP1A	Z	0	2.5
15	MP1A	Mx	-.005	2.5
16	MP1A	X	9.284	3.5
17	MP1A	Z	0	3.5
18	MP1A	Mx	-.005	3.5
19	MP1A	X	12.761	3
20	MP1A	Z	0	3
21	MP1A	Mx	-.011	3
22	MP2A	X	10.796	3
23	MP2A	Z	0	3
24	MP2A	Mx	-.009	3
25	MP4A	X	27.62	1
26	MP4A	Z	0	1
27	MP4A	Mx	-.014	1
28	MP4A	X	27.62	5
29	MP4A	Z	0	5
30	MP4A	Mx	-.014	5
31	MP3A	X	11.799	2.5
32	MP3A	Z	0	2.5
33	MP3A	Mx	.004	2.5
34	MP3A	X	11.799	3.5
35	MP3A	Z	0	3.5
36	MP3A	Mx	.004	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	23.857	1
2	MP2A	Z	13.774	1
3	MP2A	Mx	-.002	1
4	MP2A	X	23.857	5
5	MP2A	Z	13.774	5
6	MP2A	Mx	-.002	5
7	MP2A	X	23.857	1
8	MP2A	Z	13.774	1
9	MP2A	Mx	-.021	1
10	MP2A	X	23.857	5
11	MP2A	Z	13.774	5
12	MP2A	Mx	-.021	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP1A	X	11.238	2.5
14	MP1A	Z	6.488	2.5
15	MP1A	Mx	-.005	2.5
16	MP1A	X	11.238	3.5
17	MP1A	Z	6.488	3.5
18	MP1A	Mx	-.005	3.5
19	MP1A	X	12.501	3
20	MP1A	Z	7.218	3
21	MP1A	Mx	-.01	3
22	MP2A	X	11.351	3
23	MP2A	Z	6.553	3
24	MP2A	Mx	-.009	3
25	MP4A	X	27.137	1
26	MP4A	Z	15.667	1
27	MP4A	Mx	-.013	1
28	MP4A	X	27.137	5
29	MP4A	Z	15.667	5
30	MP4A	Mx	-.013	5
31	MP3A	X	11.641	2.5
32	MP3A	Z	6.721	2.5
33	MP3A	Mx	.004	2.5
34	MP3A	X	11.641	3.5
35	MP3A	Z	6.721	3.5
36	MP3A	Mx	.004	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	16.286	1
2	MP2A	Z	28.207	1
3	MP2A	Mx	.011	1
4	MP2A	X	16.286	5
5	MP2A	Z	28.207	5
6	MP2A	Mx	.011	5
7	MP2A	X	16.286	1
8	MP2A	Z	28.207	1
9	MP2A	Mx	-.025	1
10	MP2A	X	16.286	5
11	MP2A	Z	28.207	5
12	MP2A	Mx	-.025	5
13	MP1A	X	9.317	2.5
14	MP1A	Z	16.138	2.5
15	MP1A	Mx	-.004	2.5
16	MP1A	X	9.317	3.5
17	MP1A	Z	16.138	3.5
18	MP1A	Mx	-.004	3.5
19	MP1A	X	8.5	3
20	MP1A	Z	14.723	3
21	MP1A	Mx	-.006	3
22	MP2A	X	8.323	3
23	MP2A	Z	14.417	3
24	MP2A	Mx	-.006	3



Company : Maser Consulting  
Designer :  
Job Number :  
Model Name : 468160-VZW\_MT\_LOT\_SectorA\_H

June 11, 2021  
4:18 PM  
Checked By:\_\_\_\_\_

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP4A	X	18.513	1
26	MP4A	Z	32.066	1
27	MP4A	Mx	-.008	1
28	MP4A	X	18.513	5
29	MP4A	Z	32.066	5
30	MP4A	Mx	-.008	5
31	MP3A	X	7.979	2.5
32	MP3A	Z	13.819	2.5
33	MP3A	Mx	.002	2.5
34	MP3A	X	7.979	3.5
35	MP3A	Z	13.819	3.5
36	MP3A	Mx	.002	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1
2	MP2A	Z	34.316	1
3	MP2A	Mx	.022	1
4	MP2A	X	0	5
5	MP2A	Z	34.316	5
6	MP2A	Mx	.022	5
7	MP2A	X	0	1
8	MP2A	Z	34.316	1
9	MP2A	Mx	-.019	1
10	MP2A	X	0	5
11	MP2A	Z	34.316	5
12	MP2A	Mx	-.019	5
13	MP1A	X	0	2.5
14	MP1A	Z	20.6	2.5
15	MP1A	Mx	.000898	2.5
16	MP1A	X	0	3.5
17	MP1A	Z	20.6	3.5
18	MP1A	Mx	.000898	3.5
19	MP1A	X	0	3
20	MP1A	Z	17.891	3
21	MP1A	Mx	.001	3
22	MP2A	X	0	3
23	MP2A	Z	17.876	3
24	MP2A	Mx	.001	3
25	MP4A	X	0	1
26	MP4A	Z	39.003	1
27	MP4A	Mx	.002	1
28	MP4A	X	0	5
29	MP4A	Z	39.003	5
30	MP4A	Mx	.002	5
31	MP3A	X	0	2.5
32	MP3A	Z	16.831	2.5
33	MP3A	Mx	-.000489	2.5
34	MP3A	X	0	3.5
35	MP3A	Z	16.831	3.5
36	MP3A	Mx	-.000489	3.5







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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP1A	X	-9.742	2.5
14	MP1A	Z	5.624	2.5
15	MP1A	Mx	.005	2.5
16	MP1A	X	-9.742	3.5
17	MP1A	Z	5.624	3.5
18	MP1A	Mx	.005	3.5
19	MP1A	X	-11.823	3
20	MP1A	Z	6.826	3
21	MP1A	Mx	.01	3
22	MP2A	X	-10.414	3
23	MP2A	Z	6.013	3
24	MP2A	Mx	.009	3
25	MP4A	X	-25.631	1
26	MP4A	Z	14.798	1
27	MP4A	Mx	.013	1
28	MP4A	X	-25.631	5
29	MP4A	Z	14.798	5
30	MP4A	Mx	.013	5
31	MP3A	X	-10.975	2.5
32	MP3A	Z	6.337	2.5
33	MP3A	Mx	-.004	2.5
34	MP3A	X	-10.975	3.5
35	MP3A	Z	6.337	3.5
36	MP3A	Mx	-.004	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-24.269	1
2	MP2A	Z	0	1
3	MP2A	Mx	.011	1
4	MP2A	X	-24.269	5
5	MP2A	Z	0	5
6	MP2A	Mx	.011	5
7	MP2A	X	-24.269	1
8	MP2A	Z	0	1
9	MP2A	Mx	.013	1
10	MP2A	X	-24.269	5
11	MP2A	Z	0	5
12	MP2A	Mx	.013	5
13	MP1A	X	-9.284	2.5
14	MP1A	Z	0	2.5
15	MP1A	Mx	.005	2.5
16	MP1A	X	-9.284	3.5
17	MP1A	Z	0	3.5
18	MP1A	Mx	.005	3.5
19	MP1A	X	-12.761	3
20	MP1A	Z	0	3
21	MP1A	Mx	.011	3
22	MP2A	X	-10.796	3
23	MP2A	Z	0	3
24	MP2A	Mx	.009	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP4A	X	-27.62	1
26	MP4A	Z	0	1
27	MP4A	Mx	.014	1
28	MP4A	X	-27.62	5
29	MP4A	Z	0	5
30	MP4A	Mx	.014	5
31	MP3A	X	-11.799	2.5
32	MP3A	Z	0	2.5
33	MP3A	Mx	-.004	2.5
34	MP3A	X	-11.799	3.5
35	MP3A	Z	0	3.5
36	MP3A	Mx	-.004	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-23.857	1
2	MP2A	Z	-13.774	1
3	MP2A	Mx	.002	1
4	MP2A	X	-23.857	5
5	MP2A	Z	-13.774	5
6	MP2A	Mx	.002	5
7	MP2A	X	-23.857	1
8	MP2A	Z	-13.774	1
9	MP2A	Mx	.021	1
10	MP2A	X	-23.857	5
11	MP2A	Z	-13.774	5
12	MP2A	Mx	.021	5
13	MP1A	X	-11.238	2.5
14	MP1A	Z	-6.488	2.5
15	MP1A	Mx	.005	2.5
16	MP1A	X	-11.238	3.5
17	MP1A	Z	-6.488	3.5
18	MP1A	Mx	.005	3.5
19	MP1A	X	-12.501	3
20	MP1A	Z	-7.218	3
21	MP1A	Mx	.01	3
22	MP2A	X	-11.351	3
23	MP2A	Z	-6.553	3
24	MP2A	Mx	.009	3
25	MP4A	X	-27.137	1
26	MP4A	Z	-15.667	1
27	MP4A	Mx	.013	1
28	MP4A	X	-27.137	5
29	MP4A	Z	-15.667	5
30	MP4A	Mx	.013	5
31	MP3A	X	-11.641	2.5
32	MP3A	Z	-6.721	2.5
33	MP3A	Mx	-.004	2.5
34	MP3A	X	-11.641	3.5
35	MP3A	Z	-6.721	3.5
36	MP3A	Mx	-.004	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-16.286	1
2	MP2A	Z	-28.207	1
3	MP2A	Mx	-.011	1
4	MP2A	X	-16.286	5
5	MP2A	Z	-28.207	5
6	MP2A	Mx	-.011	5
7	MP2A	X	-16.286	1
8	MP2A	Z	-28.207	1
9	MP2A	Mx	.025	1
10	MP2A	X	-16.286	5
11	MP2A	Z	-28.207	5
12	MP2A	Mx	.025	5
13	MP1A	X	-9.317	2.5
14	MP1A	Z	-16.138	2.5
15	MP1A	Mx	.004	2.5
16	MP1A	X	-9.317	3.5
17	MP1A	Z	-16.138	3.5
18	MP1A	Mx	.004	3.5
19	MP1A	X	-8.5	3
20	MP1A	Z	-14.723	3
21	MP1A	Mx	.006	3
22	MP2A	X	-8.323	3
23	MP2A	Z	-14.417	3
24	MP2A	Mx	.006	3
25	MP4A	X	-18.513	1
26	MP4A	Z	-32.066	1
27	MP4A	Mx	.008	1
28	MP4A	X	-18.513	5
29	MP4A	Z	-32.066	5
30	MP4A	Mx	.008	5
31	MP3A	X	-7.979	2.5
32	MP3A	Z	-13.819	2.5
33	MP3A	Mx	-.002	2.5
34	MP3A	X	-7.979	3.5
35	MP3A	Z	-13.819	3.5
36	MP3A	Mx	-.002	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1
2	MP2A	Z	-10.648	1
3	MP2A	Mx	-.007	1
4	MP2A	X	0	5
5	MP2A	Z	-10.648	5
6	MP2A	Mx	-.007	5
7	MP2A	X	0	1
8	MP2A	Z	-10.648	1
9	MP2A	Mx	.006	1
10	MP2A	X	0	5
11	MP2A	Z	-10.648	5
12	MP2A	Mx	.006	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP1A	X	0	2.5
14	MP1A	Z	-6.181	2.5
15	MP1A	Mx	-.000269	2.5
16	MP1A	X	0	3.5
17	MP1A	Z	-6.181	3.5
18	MP1A	Mx	-.000269	3.5
19	MP1A	X	0	3
20	MP1A	Z	-4.929	3
21	MP1A	Mx	-.000358	3
22	MP2A	X	0	3
23	MP2A	Z	-4.924	3
24	MP2A	Mx	-.000358	3
25	MP4A	X	0	1
26	MP4A	Z	-12.164	1
27	MP4A	Mx	-.00053	1
28	MP4A	X	0	5
29	MP4A	Z	-12.164	5
30	MP4A	Mx	-.00053	5
31	MP3A	X	0	2.5
32	MP3A	Z	-4.995	2.5
33	MP3A	Mx	.000145	2.5
34	MP3A	X	0	3.5
35	MP3A	Z	-4.995	3.5
36	MP3A	Mx	.000145	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	4.743	1
2	MP2A	Z	-8.215	1
3	MP2A	Mx	-.007	1
4	MP2A	X	4.743	5
5	MP2A	Z	-8.215	5
6	MP2A	Mx	-.007	5
7	MP2A	X	4.743	1
8	MP2A	Z	-8.215	1
9	MP2A	Mx	.002	1
10	MP2A	X	4.743	5
11	MP2A	Z	-8.215	5
12	MP2A	Mx	.002	5
13	MP1A	X	2.483	2.5
14	MP1A	Z	-4.301	2.5
15	MP1A	Mx	-.001	2.5
16	MP1A	X	2.483	3.5
17	MP1A	Z	-4.301	3.5
18	MP1A	Mx	-.001	3.5
19	MP1A	X	2.201	3
20	MP1A	Z	-3.813	3
21	MP1A	Mx	-.002	3
22	MP2A	X	2.098	3
23	MP2A	Z	-3.634	3
24	MP2A	Mx	-.002	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP4A	X	5.426	1
26	MP4A	Z	-9.398	1
27	MP4A	Mx	-.003	1
28	MP4A	X	5.426	5
29	MP4A	Z	-9.398	5
30	MP4A	Mx	-.003	5
31	MP3A	X	2.225	2.5
32	MP3A	Z	-3.854	2.5
33	MP3A	Mx	.000851	2.5
34	MP3A	X	2.225	3.5
35	MP3A	Z	-3.854	3.5
36	MP3A	Mx	.000851	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	6.672	1
2	MP2A	Z	-3.852	1
3	MP2A	Mx	-.005	1
4	MP2A	X	6.672	5
5	MP2A	Z	-3.852	5
6	MP2A	Mx	-.005	5
7	MP2A	X	6.672	1
8	MP2A	Z	-3.852	1
9	MP2A	Mx	-.002	1
10	MP2A	X	6.672	5
11	MP2A	Z	-3.852	5
12	MP2A	Mx	-.002	5
13	MP1A	X	2.69	2.5
14	MP1A	Z	-1.553	2.5
15	MP1A	Mx	-.001	2.5
16	MP1A	X	2.69	3.5
17	MP1A	Z	-1.553	3.5
18	MP1A	Mx	-.001	3.5
19	MP1A	X	3.114	3
20	MP1A	Z	-1.798	3
21	MP1A	Mx	-.003	3
22	MP2A	X	2.668	3
23	MP2A	Z	-1.54	3
24	MP2A	Mx	-.002	3
25	MP4A	X	7.657	1
26	MP4A	Z	-4.421	1
27	MP4A	Mx	-.004	1
28	MP4A	X	7.657	5
29	MP4A	Z	-4.421	5
30	MP4A	Mx	-.004	5
31	MP3A	X	3.132	2.5
32	MP3A	Z	-1.808	2.5
33	MP3A	Mx	.001	2.5
34	MP3A	X	3.132	3.5
35	MP3A	Z	-1.808	3.5
36	MP3A	Mx	.001	3.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	7.085	1
2	MP2A	Z	0	1
3	MP2A	Mx	-.003	1
4	MP2A	X	7.085	5
5	MP2A	Z	0	5
6	MP2A	Mx	-.003	5
7	MP2A	X	7.085	1
8	MP2A	Z	0	1
9	MP2A	Mx	-.004	1
10	MP2A	X	7.085	5
11	MP2A	Z	0	5
12	MP2A	Mx	-.004	5
13	MP1A	X	2.46	2.5
14	MP1A	Z	0	2.5
15	MP1A	Mx	-.001	2.5
16	MP1A	X	2.46	3.5
17	MP1A	Z	0	3.5
18	MP1A	Mx	-.001	3.5
19	MP1A	X	3.316	3
20	MP1A	Z	0	3
21	MP1A	Mx	-.003	3
22	MP2A	X	2.693	3
23	MP2A	Z	0	3
24	MP2A	Mx	-.002	3
25	MP4A	X	8.144	1
26	MP4A	Z	0	1
27	MP4A	Mx	-.004	1
28	MP4A	X	8.144	5
29	MP4A	Z	0	5
30	MP4A	Mx	-.004	5
31	MP3A	X	3.327	2.5
32	MP3A	Z	0	2.5
33	MP3A	Mx	.001	2.5
34	MP3A	X	3.327	3.5
35	MP3A	Z	0	3.5
36	MP3A	Mx	.001	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	7.143	1
2	MP2A	Z	4.124	1
3	MP2A	Mx	-.00052	1
4	MP2A	X	7.143	5
5	MP2A	Z	4.124	5
6	MP2A	Mx	-.00052	5
7	MP2A	X	7.143	1
8	MP2A	Z	4.124	1
9	MP2A	Mx	-.006	1
10	MP2A	X	7.143	5
11	MP2A	Z	4.124	5
12	MP2A	Mx	-.006	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP1A	X	3.182	2.5
14	MP1A	Z	1.837	2.5
15	MP1A	Mx	-.002	2.5
16	MP1A	X	3.182	3.5
17	MP1A	Z	1.837	3.5
18	MP1A	Mx	-.002	3.5
19	MP1A	X	3.327	3
20	MP1A	Z	1.921	3
21	MP1A	Mx	-.003	3
22	MP2A	X	2.963	3
23	MP2A	Z	1.71	3
24	MP2A	Mx	-.002	3
25	MP4A	X	8.189	1
26	MP4A	Z	4.728	1
27	MP4A	Mx	-.004	1
28	MP4A	X	8.189	5
29	MP4A	Z	4.728	5
30	MP4A	Mx	-.004	5
31	MP3A	X	3.353	2.5
32	MP3A	Z	1.936	2.5
33	MP3A	Mx	.001	2.5
34	MP3A	X	3.353	3.5
35	MP3A	Z	1.936	3.5
36	MP3A	Mx	.001	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	5.015	1
2	MP2A	Z	8.686	1
3	MP2A	Mx	.003	1
4	MP2A	X	5.015	5
5	MP2A	Z	8.686	5
6	MP2A	Mx	.003	5
7	MP2A	X	5.015	1
8	MP2A	Z	8.686	1
9	MP2A	Mx	-.008	1
10	MP2A	X	5.015	5
11	MP2A	Z	8.686	5
12	MP2A	Mx	-.008	5
13	MP1A	X	2.767	2.5
14	MP1A	Z	4.793	2.5
15	MP1A	Mx	-.001	2.5
16	MP1A	X	2.767	3.5
17	MP1A	Z	4.793	3.5
18	MP1A	Mx	-.001	3.5
19	MP1A	X	2.324	3
20	MP1A	Z	4.026	3
21	MP1A	Mx	-.002	3
22	MP2A	X	2.268	3
23	MP2A	Z	3.929	3
24	MP2A	Mx	-.002	3







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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-4.743	1
2	MP2A	Z	8.215	1
3	MP2A	Mx	.007	1
4	MP2A	X	-4.743	5
5	MP2A	Z	8.215	5
6	MP2A	Mx	.007	5
7	MP2A	X	-4.743	1
8	MP2A	Z	8.215	1
9	MP2A	Mx	-.002	1
10	MP2A	X	-4.743	5
11	MP2A	Z	8.215	5
12	MP2A	Mx	-.002	5
13	MP1A	X	-2.483	2.5
14	MP1A	Z	4.301	2.5
15	MP1A	Mx	.001	2.5
16	MP1A	X	-2.483	3.5
17	MP1A	Z	4.301	3.5
18	MP1A	Mx	.001	3.5
19	MP1A	X	-2.201	3
20	MP1A	Z	3.813	3
21	MP1A	Mx	.002	3
22	MP2A	X	-2.098	3
23	MP2A	Z	3.634	3
24	MP2A	Mx	.002	3
25	MP4A	X	-5.426	1
26	MP4A	Z	9.398	1
27	MP4A	Mx	.003	1
28	MP4A	X	-5.426	5
29	MP4A	Z	9.398	5
30	MP4A	Mx	.003	5
31	MP3A	X	-2.225	2.5
32	MP3A	Z	3.854	2.5
33	MP3A	Mx	-.000851	2.5
34	MP3A	X	-2.225	3.5
35	MP3A	Z	3.854	3.5
36	MP3A	Mx	-.000851	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-6.672	1
2	MP2A	Z	3.852	1
3	MP2A	Mx	.005	1
4	MP2A	X	-6.672	5
5	MP2A	Z	3.852	5
6	MP2A	Mx	.005	5
7	MP2A	X	-6.672	1
8	MP2A	Z	3.852	1
9	MP2A	Mx	.002	1
10	MP2A	X	-6.672	5
11	MP2A	Z	3.852	5
12	MP2A	Mx	.002	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP1A	X	-2.69	2.5
14	MP1A	Z	1.553	2.5
15	MP1A	Mx	.001	2.5
16	MP1A	X	-2.69	3.5
17	MP1A	Z	1.553	3.5
18	MP1A	Mx	.001	3.5
19	MP1A	X	-3.114	3
20	MP1A	Z	1.798	3
21	MP1A	Mx	.003	3
22	MP2A	X	-2.668	3
23	MP2A	Z	1.54	3
24	MP2A	Mx	.002	3
25	MP4A	X	-7.657	1
26	MP4A	Z	4.421	1
27	MP4A	Mx	.004	1
28	MP4A	X	-7.657	5
29	MP4A	Z	4.421	5
30	MP4A	Mx	.004	5
31	MP3A	X	-3.132	2.5
32	MP3A	Z	1.808	2.5
33	MP3A	Mx	-.001	2.5
34	MP3A	X	-3.132	3.5
35	MP3A	Z	1.808	3.5
36	MP3A	Mx	-.001	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-7.085	1
2	MP2A	Z	0	1
3	MP2A	Mx	.003	1
4	MP2A	X	-7.085	5
5	MP2A	Z	0	5
6	MP2A	Mx	.003	5
7	MP2A	X	-7.085	1
8	MP2A	Z	0	1
9	MP2A	Mx	.004	1
10	MP2A	X	-7.085	5
11	MP2A	Z	0	5
12	MP2A	Mx	.004	5
13	MP1A	X	-2.46	2.5
14	MP1A	Z	0	2.5
15	MP1A	Mx	.001	2.5
16	MP1A	X	-2.46	3.5
17	MP1A	Z	0	3.5
18	MP1A	Mx	.001	3.5
19	MP1A	X	-3.316	3
20	MP1A	Z	0	3
21	MP1A	Mx	.003	3
22	MP2A	X	-2.693	3
23	MP2A	Z	0	3
24	MP2A	Mx	.002	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP4A	X	-8.144	1
26	MP4A	Z	0	1
27	MP4A	Mx	.004	1
28	MP4A	X	-8.144	5
29	MP4A	Z	0	5
30	MP4A	Mx	.004	5
31	MP3A	X	-3.327	2.5
32	MP3A	Z	0	2.5
33	MP3A	Mx	-.001	2.5
34	MP3A	X	-3.327	3.5
35	MP3A	Z	0	3.5
36	MP3A	Mx	-.001	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-7.143	1
2	MP2A	Z	-4.124	1
3	MP2A	Mx	.00052	1
4	MP2A	X	-7.143	5
5	MP2A	Z	-4.124	5
6	MP2A	Mx	.00052	5
7	MP2A	X	-7.143	1
8	MP2A	Z	-4.124	1
9	MP2A	Mx	.006	1
10	MP2A	X	-7.143	5
11	MP2A	Z	-4.124	5
12	MP2A	Mx	.006	5
13	MP1A	X	-3.182	2.5
14	MP1A	Z	-1.837	2.5
15	MP1A	Mx	.002	2.5
16	MP1A	X	-3.182	3.5
17	MP1A	Z	-1.837	3.5
18	MP1A	Mx	.002	3.5
19	MP1A	X	-3.327	3
20	MP1A	Z	-1.921	3
21	MP1A	Mx	.003	3
22	MP2A	X	-2.963	3
23	MP2A	Z	-1.71	3
24	MP2A	Mx	.002	3
25	MP4A	X	-8.189	1
26	MP4A	Z	-4.728	1
27	MP4A	Mx	.004	1
28	MP4A	X	-8.189	5
29	MP4A	Z	-4.728	5
30	MP4A	Mx	.004	5
31	MP3A	X	-3.353	2.5
32	MP3A	Z	-1.936	2.5
33	MP3A	Mx	-.001	2.5
34	MP3A	X	-3.353	3.5
35	MP3A	Z	-1.936	3.5
36	MP3A	Mx	-.001	3.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-5.015	1
2	MP2A	Z	-8.686	1
3	MP2A	Mx	-.003	1
4	MP2A	X	-5.015	5
5	MP2A	Z	-8.686	5
6	MP2A	Mx	-.003	5
7	MP2A	X	-5.015	1
8	MP2A	Z	-8.686	1
9	MP2A	Mx	.008	1
10	MP2A	X	-5.015	5
11	MP2A	Z	-8.686	5
12	MP2A	Mx	.008	5
13	MP1A	X	-2.767	2.5
14	MP1A	Z	-4.793	2.5
15	MP1A	Mx	.001	2.5
16	MP1A	X	-2.767	3.5
17	MP1A	Z	-4.793	3.5
18	MP1A	Mx	.001	3.5
19	MP1A	X	-2.324	3
20	MP1A	Z	-4.026	3
21	MP1A	Mx	.002	3
22	MP2A	X	-2.268	3
23	MP2A	Z	-3.929	3
24	MP2A	Mx	.002	3
25	MP4A	X	-5.733	1
26	MP4A	Z	-9.93	1
27	MP4A	Mx	.002	1
28	MP4A	X	-5.733	5
29	MP4A	Z	-9.93	5
30	MP4A	Mx	.002	5
31	MP3A	X	-2.353	2.5
32	MP3A	Z	-4.075	2.5
33	MP3A	Mx	-.000663	2.5
34	MP3A	X	-2.353	3.5
35	MP3A	Z	-4.075	3.5
36	MP3A	Mx	-.000663	3.5

**Member Point Loads (BLC 77 : Lm1)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%21

**Member Point Loads (BLC 78 : Lm2)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%93

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

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







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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
4	M2	Z	0	0	0	%100
5	MP2A	X	9.875	9.875	0	%100
6	MP2A	Z	0	0	0	%100
7	MP3A	X	9.875	9.875	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	9.875	9.875	0	%100
10	MP4A	Z	0	0	0	%100
11	M17	X	12.162	12.162	0	%100
12	M17	Z	0	0	0	%100
13	M20	X	5.864	5.864	0	%100
14	M20	Z	0	0	0	%100
15	M19	X	24.947	24.947	0	%100
16	M19	Z	0	0	0	%100
17	M20A	X	24.947	24.947	0	%100
18	M20A	Z	0	0	0	%100
19	M21	X	12.473	12.473	0	%100
20	M21	Z	0	0	0	%100
21	M22	X	12.473	12.473	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	8.684	8.684	0	%100
24	M23	Z	0	0	0	%100
25	M24	X	8.684	8.684	0	%100
26	M24	Z	0	0	0	%100
27	M25	X	1.559	1.559	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	1.559	1.559	0	%100
30	M26	Z	0	0	0	%100
31	MP1A	X	9.875	9.875	0	%100
32	MP1A	Z	0	0	0	%100
33	M29	X	5.796	5.796	0	%100
34	M29	Z	0	0	0	%100
35	M30	X	5.796	5.796	0	%100
36	M30	Z	0	0	0	%100
37	M31	X	4.787	4.787	0	%100
38	M31	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
1	M1	X	2.138	2.138	0	%100
2	M1	Z	1.234	1.234	0	%100
3	M2	X	2.138	2.138	0	%100
4	M2	Z	1.234	1.234	0	%100
5	MP2A	X	8.552	8.552	0	%100
6	MP2A	Z	4.937	4.937	0	%100
7	MP3A	X	8.552	8.552	0	%100
8	MP3A	Z	4.937	4.937	0	%100
9	MP4A	X	8.552	8.552	0	%100
10	MP4A	Z	4.937	4.937	0	%100
11	M17	X	10.533	10.533	0	%100
12	M17	Z	6.081	6.081	0	%100
13	M20	X	5.884	5.884	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
14	M20	Z	3.397	3.397	0	% 100
15	M19	X	16.203	16.203	0	% 100
16	M19	Z	9.355	9.355	0	% 100
17	M20A	X	16.203	16.203	0	% 100
18	M20A	Z	9.355	9.355	0	% 100
19	M21	X	8.102	8.102	0	% 100
20	M21	Z	4.678	4.678	0	% 100
21	M22	X	8.102	8.102	0	% 100
22	M22	Z	4.678	4.678	0	% 100
23	M23	X	5.64	5.64	0	% 100
24	M23	Z	3.256	3.256	0	% 100
25	M24	X	5.64	5.64	0	% 100
26	M24	Z	3.256	3.256	0	% 100
27	M25	X	1.013	1.013	0	% 100
28	M25	Z	.585	.585	0	% 100
29	M26	X	1.013	1.013	0	% 100
30	M26	Z	.585	.585	0	% 100
31	MP1A	X	8.552	8.552	0	% 100
32	MP1A	Z	4.937	4.937	0	% 100
33	M29	X	11.476	11.476	0	% 100
34	M29	Z	6.625	6.625	0	% 100
35	M30	X	1.702	1.702	0	% 100
36	M30	Z	.983	.983	0	% 100
37	M31	X	1.18	1.18	0	% 100
38	M31	Z	.682	.682	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	3.703	3.703	0	% 100
2	M1	Z	6.414	6.414	0	% 100
3	M2	X	3.703	3.703	0	% 100
4	M2	Z	6.414	6.414	0	% 100
5	MP2A	X	4.937	4.937	0	% 100
6	MP2A	Z	8.552	8.552	0	% 100
7	MP3A	X	4.937	4.937	0	% 100
8	MP3A	Z	8.552	8.552	0	% 100
9	MP4A	X	4.937	4.937	0	% 100
10	MP4A	Z	8.552	8.552	0	% 100
11	M17	X	6.081	6.081	0	% 100
12	M17	Z	10.533	10.533	0	% 100
13	M20	X	2.191	2.191	0	% 100
14	M20	Z	3.795	3.795	0	% 100
15	M19	X	3.118	3.118	0	% 100
16	M19	Z	5.401	5.401	0	% 100
17	M20A	X	3.118	3.118	0	% 100
18	M20A	Z	5.401	5.401	0	% 100
19	M21	X	1.559	1.559	0	% 100
20	M21	Z	2.701	2.701	0	% 100
21	M22	X	1.559	1.559	0	% 100
22	M22	Z	2.701	2.701	0	% 100
23	M23	X	1.085	1.085	0	% 100





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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
34	M29	Z	13.045	13.045	0	%100
35	M30	X	0	0	0	%100
36	M30	Z	13.045	13.045	0	%100
37	M31	X	0	0	0	%100
38	M31	Z	2.115	2.115	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-3.703	-3.703	0	%100
2	M1	Z	6.414	6.414	0	%100
3	M2	X	-3.703	-3.703	0	%100
4	M2	Z	6.414	6.414	0	%100
5	MP2A	X	-4.937	-4.937	0	%100
6	MP2A	Z	8.552	8.552	0	%100
7	MP3A	X	-4.937	-4.937	0	%100
8	MP3A	Z	8.552	8.552	0	%100
9	MP4A	X	-4.937	-4.937	0	%100
10	MP4A	Z	8.552	8.552	0	%100
11	M17	X	-6.081	-6.081	0	%100
12	M17	Z	10.533	10.533	0	%100
13	M20	X	-.054	-.054	0	%100
14	M20	Z	.093	.093	0	%100
15	M19	X	-3.118	-3.118	0	%100
16	M19	Z	5.401	5.401	0	%100
17	M20A	X	-3.118	-3.118	0	%100
18	M20A	Z	5.401	5.401	0	%100
19	M21	X	-1.559	-1.559	0	%100
20	M21	Z	2.701	2.701	0	%100
21	M22	X	-1.559	-1.559	0	%100
22	M22	Z	2.701	2.701	0	%100
23	M23	X	-1.085	-1.085	0	%100
24	M23	Z	1.88	1.88	0	%100
25	M24	X	-1.085	-1.085	0	%100
26	M24	Z	1.88	1.88	0	%100
27	M25	X	-.195	-.195	0	%100
28	M25	Z	.338	.338	0	%100
29	M26	X	-.195	-.195	0	%100
30	M26	Z	.338	.338	0	%100
31	MP1A	X	-4.937	-4.937	0	%100
32	MP1A	Z	8.552	8.552	0	%100
33	M29	X	-2.795	-2.795	0	%100
34	M29	Z	4.841	4.841	0	%100
35	M30	X	-8.438	-8.438	0	%100
36	M30	Z	14.614	14.614	0	%100
37	M31	X	-2.769	-2.769	0	%100
38	M31	Z	4.797	4.797	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.138	-2.138	0	%100
2	M1	Z	1.234	1.234	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
13	M20	X	-5.864	-5.864	0	%100
14	M20	Z	0	0	0	%100
15	M19	X	-24.947	-24.947	0	%100
16	M19	Z	0	0	0	%100
17	M20A	X	-24.947	-24.947	0	%100
18	M20A	Z	0	0	0	%100
19	M21	X	-12.473	-12.473	0	%100
20	M21	Z	0	0	0	%100
21	M22	X	-12.473	-12.473	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	-8.684	-8.684	0	%100
24	M23	Z	0	0	0	%100
25	M24	X	-8.684	-8.684	0	%100
26	M24	Z	0	0	0	%100
27	M25	X	-1.559	-1.559	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	-1.559	-1.559	0	%100
30	M26	Z	0	0	0	%100
31	MP1A	X	-9.875	-9.875	0	%100
32	MP1A	Z	0	0	0	%100
33	M29	X	-5.796	-5.796	0	%100
34	M29	Z	0	0	0	%100
35	M30	X	-5.796	-5.796	0	%100
36	M30	Z	0	0	0	%100
37	M31	X	-4.787	-4.787	0	%100
38	M31	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.138	-2.138	0	%100
2	M1	Z	-1.234	-1.234	0	%100
3	M2	X	-2.138	-2.138	0	%100
4	M2	Z	-1.234	-1.234	0	%100
5	MP2A	X	-8.552	-8.552	0	%100
6	MP2A	Z	-4.937	-4.937	0	%100
7	MP3A	X	-8.552	-8.552	0	%100
8	MP3A	Z	-4.937	-4.937	0	%100
9	MP4A	X	-8.552	-8.552	0	%100
10	MP4A	Z	-4.937	-4.937	0	%100
11	M17	X	-10.533	-10.533	0	%100
12	M17	Z	-6.081	-6.081	0	%100
13	M20	X	-5.884	-5.884	0	%100
14	M20	Z	-3.397	-3.397	0	%100
15	M19	X	-16.203	-16.203	0	%100
16	M19	Z	-9.355	-9.355	0	%100
17	M20A	X	-16.203	-16.203	0	%100
18	M20A	Z	-9.355	-9.355	0	%100
19	M21	X	-8.102	-8.102	0	%100
20	M21	Z	-4.678	-4.678	0	%100
21	M22	X	-8.102	-8.102	0	%100
22	M22	Z	-4.678	-4.678	0	%100





Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468160-VZW\_MT\_LOT\_SectorA\_H

June 11, 2021  
 4:18 PM  
 Checked By:\_\_\_\_\_

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
33	M29	X	-8.438	-8.438	0	%100
34	M29	Z	-14.614	-14.614	0	%100
35	M30	X	-2.795	-2.795	0	%100
36	M30	Z	-4.841	-4.841	0	%100
37	M31	X	-.014	-.014	0	%100
38	M31	Z	-.024	-.024	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-4.304	-4.304	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-4.304	-4.304	0	%100
5	MP2A	X	0	0	0	%100
6	MP2A	Z	-4.097	-4.097	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-4.097	-4.097	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-4.097	-4.097	0	%100
11	M17	X	0	0	0	%100
12	M17	Z	-4.78	-4.78	0	%100
13	M20	X	0	0	0	%100
14	M20	Z	-.554	-.554	0	%100
15	M19	X	0	0	0	%100
16	M19	Z	0	0	0	%100
17	M20A	X	0	0	0	%100
18	M20A	Z	0	0	0	%100
19	M21	X	0	0	0	%100
20	M21	Z	0	0	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	0	0	0	%100
24	M23	Z	0	0	0	%100
25	M24	X	0	0	0	%100
26	M24	Z	0	0	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	0	0	0	%100
31	MP1A	X	0	0	0	%100
32	MP1A	Z	-4.097	-4.097	0	%100
33	M29	X	0	0	0	%100
34	M29	Z	-3.982	-3.982	0	%100
35	M30	X	0	0	0	%100
36	M30	Z	-3.982	-3.982	0	%100
37	M31	X	0	0	0	%100
38	M31	Z	-1.158	-1.158	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.614	1.614	0	%100







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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
12	M17	Z	-2.39	-2.39	0	%100
13	M20	X	1.164	1.164	0	%100
14	M20	Z	-.672	-.672	0	%100
15	M19	X	3.831	3.831	0	%100
16	M19	Z	-2.212	-2.212	0	%100
17	M20A	X	3.831	3.831	0	%100
18	M20A	Z	-2.212	-2.212	0	%100
19	M21	X	2.4	2.4	0	%100
20	M21	Z	-1.386	-1.386	0	%100
21	M22	X	2.4	2.4	0	%100
22	M22	Z	-1.386	-1.386	0	%100
23	M23	X	1.966	1.966	0	%100
24	M23	Z	-1.135	-1.135	0	%100
25	M24	X	1.966	1.966	0	%100
26	M24	Z	-1.135	-1.135	0	%100
27	M25	X	1.149	1.149	0	%100
28	M25	Z	-.663	-.663	0	%100
29	M26	X	1.149	1.149	0	%100
30	M26	Z	-.663	-.663	0	%100
31	MP1A	X	3.548	3.548	0	%100
32	MP1A	Z	-2.049	-2.049	0	%100
33	M29	X	.52	.52	0	%100
34	M29	Z	-.3	-.3	0	%100
35	M30	X	3.503	3.503	0	%100
36	M30	Z	-2.022	-2.022	0	%100
37	M31	X	3.26	3.26	0	%100
38	M31	Z	-1.882	-1.882	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP2A	X	4.097	4.097	0	%100
6	MP2A	Z	0	0	0	%100
7	MP3A	X	4.097	4.097	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	4.097	4.097	0	%100
10	MP4A	Z	0	0	0	%100
11	M17	X	4.78	4.78	0	%100
12	M17	Z	0	0	0	%100
13	M20	X	3.127	3.127	0	%100
14	M20	Z	0	0	0	%100
15	M19	X	5.898	5.898	0	%100
16	M19	Z	0	0	0	%100
17	M20A	X	5.898	5.898	0	%100
18	M20A	Z	0	0	0	%100
19	M21	X	3.696	3.696	0	%100
20	M21	Z	0	0	0	%100
21	M22	X	3.696	3.696	0	%100



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468160-VZW\_MT\_LOT\_SectorA\_H

June 11, 2021  
 4:18 PM  
 Checked By: \_\_\_\_\_

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
22	M22	Z	0	0	0	%100
23	M23	X	3.027	3.027	0	%100
24	M23	Z	0	0	0	%100
25	M24	X	3.027	3.027	0	%100
26	M24	Z	0	0	0	%100
27	M25	X	1.769	1.769	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	1.769	1.769	0	%100
30	M26	Z	0	0	0	%100
31	MP1A	X	4.097	4.097	0	%100
32	MP1A	Z	0	0	0	%100
33	M29	X	1.769	1.769	0	%100
34	M29	Z	0	0	0	%100
35	M30	X	1.769	1.769	0	%100
36	M30	Z	0	0	0	%100
37	M31	X	2.621	2.621	0	%100
38	M31	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.932	.932	0	%100
2	M1	Z	.538	.538	0	%100
3	M2	X	.932	.932	0	%100
4	M2	Z	.538	.538	0	%100
5	MP2A	X	3.548	3.548	0	%100
6	MP2A	Z	2.049	2.049	0	%100
7	MP3A	X	3.548	3.548	0	%100
8	MP3A	Z	2.049	2.049	0	%100
9	MP4A	X	3.548	3.548	0	%100
10	MP4A	Z	2.049	2.049	0	%100
11	M17	X	4.14	4.14	0	%100
12	M17	Z	2.39	2.39	0	%100
13	M20	X	3.138	3.138	0	%100
14	M20	Z	1.812	1.812	0	%100
15	M19	X	3.831	3.831	0	%100
16	M19	Z	2.212	2.212	0	%100
17	M20A	X	3.831	3.831	0	%100
18	M20A	Z	2.212	2.212	0	%100
19	M21	X	2.4	2.4	0	%100
20	M21	Z	1.386	1.386	0	%100
21	M22	X	2.4	2.4	0	%100
22	M22	Z	1.386	1.386	0	%100
23	M23	X	1.966	1.966	0	%100
24	M23	Z	1.135	1.135	0	%100
25	M24	X	1.966	1.966	0	%100
26	M24	Z	1.135	1.135	0	%100
27	M25	X	1.149	1.149	0	%100
28	M25	Z	.663	.663	0	%100
29	M26	X	1.149	1.149	0	%100
30	M26	Z	.663	.663	0	%100
31	MP1A	X	3.548	3.548	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
32	MP1A	Z	2.049	2.049	0	% 100
33	M29	X	3.503	3.503	0	% 100
34	M29	Z	2.022	2.022	0	% 100
35	M30	X	.52	.52	0	% 100
36	M30	Z	.3	.3	0	% 100
37	M31	X	.646	.646	0	% 100
38	M31	Z	.373	.373	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.614	1.614	0	% 100
2	M1	Z	2.795	2.795	0	% 100
3	M2	X	1.614	1.614	0	% 100
4	M2	Z	2.795	2.795	0	% 100
5	MP2A	X	2.049	2.049	0	% 100
6	MP2A	Z	3.548	3.548	0	% 100
7	MP3A	X	2.049	2.049	0	% 100
8	MP3A	Z	3.548	3.548	0	% 100
9	MP4A	X	2.049	2.049	0	% 100
10	MP4A	Z	3.548	3.548	0	% 100
11	M17	X	2.39	2.39	0	% 100
12	M17	Z	4.14	4.14	0	% 100
13	M20	X	1.168	1.168	0	% 100
14	M20	Z	2.024	2.024	0	% 100
15	M19	X	.737	.737	0	% 100
16	M19	Z	1.277	1.277	0	% 100
17	M20A	X	.737	.737	0	% 100
18	M20A	Z	1.277	1.277	0	% 100
19	M21	X	.462	.462	0	% 100
20	M21	Z	.8	.8	0	% 100
21	M22	X	.462	.462	0	% 100
22	M22	Z	.8	.8	0	% 100
23	M23	X	.378	.378	0	% 100
24	M23	Z	.655	.655	0	% 100
25	M24	X	.378	.378	0	% 100
26	M24	Z	.655	.655	0	% 100
27	M25	X	.221	.221	0	% 100
28	M25	Z	.383	.383	0	% 100
29	M26	X	.221	.221	0	% 100
30	M26	Z	.383	.383	0	% 100
31	MP1A	X	2.049	2.049	0	% 100
32	MP1A	Z	3.548	3.548	0	% 100
33	M29	X	2.575	2.575	0	% 100
34	M29	Z	4.461	4.461	0	% 100
35	M30	X	.853	.853	0	% 100
36	M30	Z	1.478	1.478	0	% 100
37	M31	X	.008	.008	0	% 100
38	M31	Z	.013	.013	0	% 100

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

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

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	%100
2	M1	Z	4.304	4.304	%100
3	M2	X	0	0	%100
4	M2	Z	4.304	4.304	%100
5	MP2A	X	0	0	%100
6	MP2A	Z	4.097	4.097	%100
7	MP3A	X	0	0	%100
8	MP3A	Z	4.097	4.097	%100
9	MP4A	X	0	0	%100
10	MP4A	Z	4.097	4.097	%100
11	M17	X	0	0	%100
12	M17	Z	4.78	4.78	%100
13	M20	X	0	0	%100
14	M20	Z	.554	.554	%100
15	M19	X	0	0	%100
16	M19	Z	0	0	%100
17	M20A	X	0	0	%100
18	M20A	Z	0	0	%100
19	M21	X	0	0	%100
20	M21	Z	0	0	%100
21	M22	X	0	0	%100
22	M22	Z	0	0	%100
23	M23	X	0	0	%100
24	M23	Z	0	0	%100
25	M24	X	0	0	%100
26	M24	Z	0	0	%100
27	M25	X	0	0	%100
28	M25	Z	0	0	%100
29	M26	X	0	0	%100
30	M26	Z	0	0	%100
31	MP1A	X	0	0	%100
32	MP1A	Z	4.097	4.097	%100
33	M29	X	0	0	%100
34	M29	Z	3.982	3.982	%100
35	M30	X	0	0	%100
36	M30	Z	3.982	3.982	%100
37	M31	X	0	0	%100
38	M31	Z	1.158	1.158	%100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.614	-1.614	%100
2	M1	Z	2.795	2.795	%100
3	M2	X	-1.614	-1.614	%100
4	M2	Z	2.795	2.795	%100
5	MP2A	X	-2.049	-2.049	%100
6	MP2A	Z	3.548	3.548	%100
7	MP3A	X	-2.049	-2.049	%100
8	MP3A	Z	3.548	3.548	%100
9	MP4A	X	-2.049	-2.049	%100
10	MP4A	Z	3.548	3.548	%100





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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
21	M22	X	-2.4	-2.4	0	% 100
22	M22	Z	1.386	1.386	0	% 100
23	M23	X	-1.966	-1.966	0	% 100
24	M23	Z	1.135	1.135	0	% 100
25	M24	X	-1.966	-1.966	0	% 100
26	M24	Z	1.135	1.135	0	% 100
27	M25	X	-1.149	-1.149	0	% 100
28	M25	Z	.663	.663	0	% 100
29	M26	X	-1.149	-1.149	0	% 100
30	M26	Z	.663	.663	0	% 100
31	MP1A	X	-3.548	-3.548	0	% 100
32	MP1A	Z	2.049	2.049	0	% 100
33	M29	X	-.52	-.52	0	% 100
34	M29	Z	.3	.3	0	% 100
35	M30	X	-3.503	-3.503	0	% 100
36	M30	Z	2.022	2.022	0	% 100
37	M31	X	-3.26	-3.26	0	% 100
38	M31	Z	1.882	1.882	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	% 100
2	M1	Z	0	0	0	% 100
3	M2	X	0	0	0	% 100
4	M2	Z	0	0	0	% 100
5	MP2A	X	-4.097	-4.097	0	% 100
6	MP2A	Z	0	0	0	% 100
7	MP3A	X	-4.097	-4.097	0	% 100
8	MP3A	Z	0	0	0	% 100
9	MP4A	X	-4.097	-4.097	0	% 100
10	MP4A	Z	0	0	0	% 100
11	M17	X	-4.78	-4.78	0	% 100
12	M17	Z	0	0	0	% 100
13	M20	X	-3.127	-3.127	0	% 100
14	M20	Z	0	0	0	% 100
15	M19	X	-5.898	-5.898	0	% 100
16	M19	Z	0	0	0	% 100
17	M20A	X	-5.898	-5.898	0	% 100
18	M20A	Z	0	0	0	% 100
19	M21	X	-3.696	-3.696	0	% 100
20	M21	Z	0	0	0	% 100
21	M22	X	-3.696	-3.696	0	% 100
22	M22	Z	0	0	0	% 100
23	M23	X	-3.027	-3.027	0	% 100
24	M23	Z	0	0	0	% 100
25	M24	X	-3.027	-3.027	0	% 100
26	M24	Z	0	0	0	% 100
27	M25	X	-1.769	-1.769	0	% 100
28	M25	Z	0	0	0	% 100
29	M26	X	-1.769	-1.769	0	% 100
30	M26	Z	0	0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.614	-1.614	0	%100
2	M1	Z	-2.795	-2.795	0	%100
3	M2	X	-1.614	-1.614	0	%100
4	M2	Z	-2.795	-2.795	0	%100
5	MP2A	X	-2.049	-2.049	0	%100
6	MP2A	Z	-3.548	-3.548	0	%100
7	MP3A	X	-2.049	-2.049	0	%100
8	MP3A	Z	-3.548	-3.548	0	%100
9	MP4A	X	-2.049	-2.049	0	%100
10	MP4A	Z	-3.548	-3.548	0	%100
11	M17	X	-2.39	-2.39	0	%100
12	M17	Z	-4.14	-4.14	0	%100
13	M20	X	-1.168	-1.168	0	%100
14	M20	Z	-2.024	-2.024	0	%100
15	M19	X	-.737	-.737	0	%100
16	M19	Z	-1.277	-1.277	0	%100
17	M20A	X	-.737	-.737	0	%100
18	M20A	Z	-1.277	-1.277	0	%100
19	M21	X	-.462	-.462	0	%100
20	M21	Z	-.8	-.8	0	%100
21	M22	X	-.462	-.462	0	%100
22	M22	Z	-.8	-.8	0	%100
23	M23	X	-.378	-.378	0	%100
24	M23	Z	-.655	-.655	0	%100
25	M24	X	-.378	-.378	0	%100
26	M24	Z	-.655	-.655	0	%100
27	M25	X	-.221	-.221	0	%100
28	M25	Z	-.383	-.383	0	%100
29	M26	X	-.221	-.221	0	%100
30	M26	Z	-.383	-.383	0	%100
31	MP1A	X	-2.049	-2.049	0	%100
32	MP1A	Z	-3.548	-3.548	0	%100
33	M29	X	-2.575	-2.575	0	%100
34	M29	Z	-4.461	-4.461	0	%100
35	M30	X	-.853	-.853	0	%100
36	M30	Z	-1.478	-1.478	0	%100
37	M31	X	-.008	-.008	0	%100
38	M31	Z	-.013	-.013	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-.628	-.628	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.628	-.628	0	%100
5	MP2A	X	0	0	0	%100
6	MP2A	Z	-.628	-.628	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-.628	-.628	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-.628	-.628	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
11	M17	X	0	0	0	%100
12	M17	Z	-.773	-.773	0	%100
13	M20	X	0	0	0	%100
14	M20	Z	-.066	-.066	0	%100
15	M19	X	0	0	0	%100
16	M19	Z	0	0	0	%100
17	M20A	X	0	0	0	%100
18	M20A	Z	0	0	0	%100
19	M21	X	0	0	0	%100
20	M21	Z	0	0	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	0	0	0	%100
24	M23	Z	0	0	0	%100
25	M24	X	0	0	0	%100
26	M24	Z	0	0	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	0	0	0	%100
31	MP1A	X	0	0	0	%100
32	MP1A	Z	-.628	-.628	0	%100
33	M29	X	0	0	0	%100
34	M29	Z	-.829	-.829	0	%100
35	M30	X	0	0	0	%100
36	M30	Z	-.829	-.829	0	%100
37	M31	X	0	0	0	%100
38	M31	Z	-.134	-.134	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.235	.235	0	%100
2	M1	Z	-.408	-.408	0	%100
3	M2	X	.235	.235	0	%100
4	M2	Z	-.408	-.408	0	%100
5	MP2A	X	.314	.314	0	%100
6	MP2A	Z	-.544	-.544	0	%100
7	MP3A	X	.314	.314	0	%100
8	MP3A	Z	-.544	-.544	0	%100
9	MP4A	X	.314	.314	0	%100
10	MP4A	Z	-.544	-.544	0	%100
11	M17	X	.386	.386	0	%100
12	M17	Z	-.669	-.669	0	%100
13	M20	X	.003	.003	0	%100
14	M20	Z	-.006	-.006	0	%100
15	M19	X	.198	.198	0	%100
16	M19	Z	-.343	-.343	0	%100
17	M20A	X	.198	.198	0	%100
18	M20A	Z	-.343	-.343	0	%100
19	M21	X	.099	.099	0	%100
20	M21	Z	-.172	-.172	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
21	M22	X	.099	.099	0	%100
22	M22	Z	-.172	-.172	0	%100
23	M23	X	.069	.069	0	%100
24	M23	Z	-.119	-.119	0	%100
25	M24	X	.069	.069	0	%100
26	M24	Z	-.119	-.119	0	%100
27	M25	X	.012	.012	0	%100
28	M25	Z	-.021	-.021	0	%100
29	M26	X	.012	.012	0	%100
30	M26	Z	-.021	-.021	0	%100
31	MP1A	X	.314	.314	0	%100
32	MP1A	Z	-.544	-.544	0	%100
33	M29	X	.178	.178	0	%100
34	M29	Z	-.308	-.308	0	%100
35	M30	X	.536	.536	0	%100
36	M30	Z	-.929	-.929	0	%100
37	M31	X	.176	.176	0	%100
38	M31	Z	-.305	-.305	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.136	.136	0	%100
2	M1	Z	-.078	-.078	0	%100
3	M2	X	.136	.136	0	%100
4	M2	Z	-.078	-.078	0	%100
5	MP2A	X	.544	.544	0	%100
6	MP2A	Z	-.314	-.314	0	%100
7	MP3A	X	.544	.544	0	%100
8	MP3A	Z	-.314	-.314	0	%100
9	MP4A	X	.544	.544	0	%100
10	MP4A	Z	-.314	-.314	0	%100
11	M17	X	.669	.669	0	%100
12	M17	Z	-.386	-.386	0	%100
13	M20	X	.139	.139	0	%100
14	M20	Z	-.08	-.08	0	%100
15	M19	X	1.03	1.03	0	%100
16	M19	Z	-.595	-.595	0	%100
17	M20A	X	1.03	1.03	0	%100
18	M20A	Z	-.595	-.595	0	%100
19	M21	X	.515	.515	0	%100
20	M21	Z	-.297	-.297	0	%100
21	M22	X	.515	.515	0	%100
22	M22	Z	-.297	-.297	0	%100
23	M23	X	.358	.358	0	%100
24	M23	Z	-.207	-.207	0	%100
25	M24	X	.358	.358	0	%100
26	M24	Z	-.207	-.207	0	%100
27	M25	X	.064	.064	0	%100
28	M25	Z	-.037	-.037	0	%100
29	M26	X	.064	.064	0	%100
30	M26	Z	-.037	-.037	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
31	MP1A	X	.544	.544	0	%100
32	MP1A	Z	-.314	-.314	0	%100
33	M29	X	.108	.108	0	%100
34	M29	Z	-.062	-.062	0	%100
35	M30	X	.729	.729	0	%100
36	M30	Z	-.421	-.421	0	%100
37	M31	X	.378	.378	0	%100
38	M31	Z	-.218	-.218	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP2A	X	.628	.628	0	%100
6	MP2A	Z	0	0	0	%100
7	MP3A	X	.628	.628	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	.628	.628	0	%100
10	MP4A	Z	0	0	0	%100
11	M17	X	.773	.773	0	%100
12	M17	Z	0	0	0	%100
13	M20	X	.373	.373	0	%100
14	M20	Z	0	0	0	%100
15	M19	X	1.585	1.585	0	%100
16	M19	Z	0	0	0	%100
17	M20A	X	1.585	1.585	0	%100
18	M20A	Z	0	0	0	%100
19	M21	X	.793	.793	0	%100
20	M21	Z	0	0	0	%100
21	M22	X	.793	.793	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	.552	.552	0	%100
24	M23	Z	0	0	0	%100
25	M24	X	.552	.552	0	%100
26	M24	Z	0	0	0	%100
27	M25	X	.099	.099	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	.099	.099	0	%100
30	M26	Z	0	0	0	%100
31	MP1A	X	.628	.628	0	%100
32	MP1A	Z	0	0	0	%100
33	M29	X	.368	.368	0	%100
34	M29	Z	0	0	0	%100
35	M30	X	.368	.368	0	%100
36	M30	Z	0	0	0	%100
37	M31	X	.304	.304	0	%100
38	M31	Z	0	0	0	%100



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468160-VZW\_MT\_LOT\_SectorA\_H

June 11, 2021  
 4:18 PM  
 Checked By: \_\_\_\_\_

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.136	.136	0	%100
2	M1	Z	.078	.078	0	%100
3	M2	X	.136	.136	0	%100
4	M2	Z	.078	.078	0	%100
5	MP2A	X	.544	.544	0	%100
6	MP2A	Z	.314	.314	0	%100
7	MP3A	X	.544	.544	0	%100
8	MP3A	Z	.314	.314	0	%100
9	MP4A	X	.544	.544	0	%100
10	MP4A	Z	.314	.314	0	%100
11	M17	X	.669	.669	0	%100
12	M17	Z	.386	.386	0	%100
13	M20	X	.374	.374	0	%100
14	M20	Z	.216	.216	0	%100
15	M19	X	1.03	1.03	0	%100
16	M19	Z	.595	.595	0	%100
17	M20A	X	1.03	1.03	0	%100
18	M20A	Z	.595	.595	0	%100
19	M21	X	.515	.515	0	%100
20	M21	Z	.297	.297	0	%100
21	M22	X	.515	.515	0	%100
22	M22	Z	.297	.297	0	%100
23	M23	X	.358	.358	0	%100
24	M23	Z	.207	.207	0	%100
25	M24	X	.358	.358	0	%100
26	M24	Z	.207	.207	0	%100
27	M25	X	.064	.064	0	%100
28	M25	Z	.037	.037	0	%100
29	M26	X	.064	.064	0	%100
30	M26	Z	.037	.037	0	%100
31	MP1A	X	.544	.544	0	%100
32	MP1A	Z	.314	.314	0	%100
33	M29	X	.729	.729	0	%100
34	M29	Z	.421	.421	0	%100
35	M30	X	.108	.108	0	%100
36	M30	Z	.062	.062	0	%100
37	M31	X	.075	.075	0	%100
38	M31	Z	.043	.043	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.235	.235	0	%100
2	M1	Z	.408	.408	0	%100
3	M2	X	.235	.235	0	%100
4	M2	Z	.408	.408	0	%100
5	MP2A	X	.314	.314	0	%100
6	MP2A	Z	.544	.544	0	%100
7	MP3A	X	.314	.314	0	%100
8	MP3A	Z	.544	.544	0	%100
9	MP4A	X	.314	.314	0	%100
10	MP4A	Z	.544	.544	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
11	M17	X	.386	.386	0	%100
12	M17	Z	.669	.669	0	%100
13	M20	X	.139	.139	0	%100
14	M20	Z	.241	.241	0	%100
15	M19	X	.198	.198	0	%100
16	M19	Z	.343	.343	0	%100
17	M20A	X	.198	.198	0	%100
18	M20A	Z	.343	.343	0	%100
19	M21	X	.099	.099	0	%100
20	M21	Z	.172	.172	0	%100
21	M22	X	.099	.099	0	%100
22	M22	Z	.172	.172	0	%100
23	M23	X	.069	.069	0	%100
24	M23	Z	.119	.119	0	%100
25	M24	X	.069	.069	0	%100
26	M24	Z	.119	.119	0	%100
27	M25	X	.012	.012	0	%100
28	M25	Z	.021	.021	0	%100
29	M26	X	.012	.012	0	%100
30	M26	Z	.021	.021	0	%100
31	MP1A	X	.314	.314	0	%100
32	MP1A	Z	.544	.544	0	%100
33	M29	X	.536	.536	0	%100
34	M29	Z	.929	.929	0	%100
35	M30	X	.178	.178	0	%100
36	M30	Z	.308	.308	0	%100
37	M31	X	.000872	.000872	0	%100
38	M31	Z	.002	.002	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
1	M1	X	0	0	0	%100
2	M1	Z	.628	.628	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.628	.628	0	%100
5	MP2A	X	0	0	0	%100
6	MP2A	Z	.628	.628	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	.628	.628	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	.628	.628	0	%100
11	M17	X	0	0	0	%100
12	M17	Z	.773	.773	0	%100
13	M20	X	0	0	0	%100
14	M20	Z	.066	.066	0	%100
15	M19	X	0	0	0	%100
16	M19	Z	0	0	0	%100
17	M20A	X	0	0	0	%100
18	M20A	Z	0	0	0	%100
19	M21	X	0	0	0	%100
20	M21	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
21	M22	X	0	0	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	0	0	0	%100
24	M23	Z	0	0	0	%100
25	M24	X	0	0	0	%100
26	M24	Z	0	0	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	0	0	0	%100
31	MP1A	X	0	0	0	%100
32	MP1A	Z	.628	.628	0	%100
33	M29	X	0	0	0	%100
34	M29	Z	.829	.829	0	%100
35	M30	X	0	0	0	%100
36	M30	Z	.829	.829	0	%100
37	M31	X	0	0	0	%100
38	M31	Z	.134	.134	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.235	-.235	0	%100
2	M1	Z	.408	.408	0	%100
3	M2	X	-.235	-.235	0	%100
4	M2	Z	.408	.408	0	%100
5	MP2A	X	-.314	-.314	0	%100
6	MP2A	Z	.544	.544	0	%100
7	MP3A	X	-.314	-.314	0	%100
8	MP3A	Z	.544	.544	0	%100
9	MP4A	X	-.314	-.314	0	%100
10	MP4A	Z	.544	.544	0	%100
11	M17	X	-.386	-.386	0	%100
12	M17	Z	.669	.669	0	%100
13	M20	X	-.003	-.003	0	%100
14	M20	Z	.006	.006	0	%100
15	M19	X	-.198	-.198	0	%100
16	M19	Z	.343	.343	0	%100
17	M20A	X	-.198	-.198	0	%100
18	M20A	Z	.343	.343	0	%100
19	M21	X	-.099	-.099	0	%100
20	M21	Z	.172	.172	0	%100
21	M22	X	-.099	-.099	0	%100
22	M22	Z	.172	.172	0	%100
23	M23	X	-.069	-.069	0	%100
24	M23	Z	.119	.119	0	%100
25	M24	X	-.069	-.069	0	%100
26	M24	Z	.119	.119	0	%100
27	M25	X	-.012	-.012	0	%100
28	M25	Z	.021	.021	0	%100
29	M26	X	-.012	-.012	0	%100
30	M26	Z	.021	.021	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
31	MP1A	X	-.314	-.314	0	% 100
32	MP1A	Z	.544	.544	0	% 100
33	M29	X	-.178	-.178	0	% 100
34	M29	Z	.308	.308	0	% 100
35	M30	X	-.536	-.536	0	% 100
36	M30	Z	.929	.929	0	% 100
37	M31	X	-.176	-.176	0	% 100
38	M31	Z	.305	.305	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.136	-.136	0	% 100
2	M1	Z	.078	.078	0	% 100
3	M2	X	-.136	-.136	0	% 100
4	M2	Z	.078	.078	0	% 100
5	MP2A	X	-.544	-.544	0	% 100
6	MP2A	Z	.314	.314	0	% 100
7	MP3A	X	-.544	-.544	0	% 100
8	MP3A	Z	.314	.314	0	% 100
9	MP4A	X	-.544	-.544	0	% 100
10	MP4A	Z	.314	.314	0	% 100
11	M17	X	-.669	-.669	0	% 100
12	M17	Z	.386	.386	0	% 100
13	M20	X	-.139	-.139	0	% 100
14	M20	Z	.08	.08	0	% 100
15	M19	X	-1.03	-1.03	0	% 100
16	M19	Z	.595	.595	0	% 100
17	M20A	X	-1.03	-1.03	0	% 100
18	M20A	Z	.595	.595	0	% 100
19	M21	X	-.515	-.515	0	% 100
20	M21	Z	.297	.297	0	% 100
21	M22	X	-.515	-.515	0	% 100
22	M22	Z	.297	.297	0	% 100
23	M23	X	-.358	-.358	0	% 100
24	M23	Z	.207	.207	0	% 100
25	M24	X	-.358	-.358	0	% 100
26	M24	Z	.207	.207	0	% 100
27	M25	X	-.064	-.064	0	% 100
28	M25	Z	.037	.037	0	% 100
29	M26	X	-.064	-.064	0	% 100
30	M26	Z	.037	.037	0	% 100
31	MP1A	X	-.544	-.544	0	% 100
32	MP1A	Z	.314	.314	0	% 100
33	M29	X	-.108	-.108	0	% 100
34	M29	Z	.062	.062	0	% 100
35	M30	X	-.729	-.729	0	% 100
36	M30	Z	.421	.421	0	% 100
37	M31	X	-.378	-.378	0	% 100
38	M31	Z	.218	.218	0	% 100









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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
21	M22	X	-.099	-.099	0	%100
22	M22	Z	-.172	-.172	0	%100
23	M23	X	-.069	-.069	0	%100
24	M23	Z	-.119	-.119	0	%100
25	M24	X	-.069	-.069	0	%100
26	M24	Z	-.119	-.119	0	%100
27	M25	X	-.012	-.012	0	%100
28	M25	Z	-.021	-.021	0	%100
29	M26	X	-.012	-.012	0	%100
30	M26	Z	-.021	-.021	0	%100
31	MP1A	X	-.314	-.314	0	%100
32	MP1A	Z	-.544	-.544	0	%100
33	M29	X	-.536	-.536	0	%100
34	M29	Z	-.929	-.929	0	%100
35	M30	X	-.178	-.178	0	%100
36	M30	Z	-.308	-.308	0	%100
37	M31	X	-.000872	-.000872	0	%100
38	M31	Z	-.002	-.002	0	%100

**Member Area Loads**

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

**Envelope Joint Reactions**

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N36	max	1542.038	45	833.337	14	1222.673	13	-.027	8	0	51	.035	45
2		min	-954.677	3	137.92	8	-246.545	7	-.167	14	0	1	-.022	3
3	N37	max	954.193	3	739.099	14	214.131	1	-.029	8	0	51	.035	45
4		min	-1556.415	45	150.78	8	-403.81	7	-.153	14	0	1	-.022	3
5	N39	max	266.111	6	32.657	21	920.338	12	0	51	0	51	0	51
6		min	-378.751	12	5.887	36	-666.582	6	0	1	0	1	0	1
7	N50	max	1831.034	11	1201.812	20	-120.107	2	.003	18	.001	6	.003	48
8		min	-1869.095	5	144.555	2	-1561.1	20	-.001	12	-.002	48	-.002	6
9	N54	max	508.334	2	59.23	14	796.796	2	0	51	0	51	0	51
10		min	-321.316	8	13.343	7	-530.244	8	0	1	0	1	0	1
11	Totals:	max	1485.445	11	2734.611	15	2307.065	1						
12		min	-1485.425	5	946.94	11	-2307.029	7						

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

Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
1	M1	PIPE 2.0	.608	7.5	47	.163	7.5	7	4371.821	32130	1.872	1.872	2...	H1-1a
2	M2	PIPE 2.0	.726	3.594	9	.182	7.5	2	4371.821	32130	1.872	1.872	1...	H1-1a
3	MP2A	PIPE 2.5	.328	5.125	47	.144	5.125	3	37773.818	50715	3.596	3.596	2...	H1-1b
4	MP3A	PIPE 2.0	.353	2.125	27	.142	5.125	12	20866.733	32130	1.872	1.872	2...	H1-1b
5	MP4A	PIPE 2.0	.282	5.125	49	.114	2.125	12	20866.733	32130	1.872	1.872	2...	H1-1b
6	M17	PIPE 4.0	.233	4.375	47	.399	.99	45	86073.938	93240	10.631	10.631	2...	H3-6
7	M20	PIPE 1.25	.153	6.669	12	.006	6.669	23	6490.591	19687.5	.801	.801	1...	H1-1b*



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

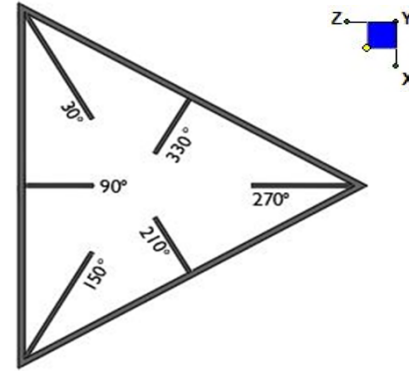
	Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
8	M19	WT6X3/8_H...	.414	0	47	.070	0	z	45	109635.7...	123444	10.125	6.874	1...	H1-1b
9	M20A	WT6X3/8_H...	.437	0	47	.070	.616	z	45	109635.7...	123444	10.125	6.874	1...	H1-1b
10	M21	WT3X3/8	.541	0	47	.172	0	z	45	60128.959	71604	6.399	2.373	1...	H1-1b
11	M22	WT3X3/8	.586	0	47	.172	.611	z	45	60128.959	71604	6.399	2.373	1...	H1-1b
12	M23	WT1x3/8	.116	0	45	.107	.616	y	24	130755.1...	143208	11.907	10.827	1...	H1-1b
13	M24	WT1x3/8	.119	0	47	.121	.616	y	24	130755.1...	143208	11.907	10.827	1...	H1-1b
14	M25	PL3/8x6	.270	.25	14	.134	0	y	45	70011.207	72900	.57	9.113	1...	H1-1b
15	M26	PL3/8x6	.301	.25	14	.134	.25	y	45	70011.207	72900	.57	9.113	1...	H1-1b
16	MP1A	PIPE 2.0	.592	2.125	38	.137	2.125		3	20866.733	32130	1.872	1.872	2...	H1-1b
17	M29	L2.5x2.5x4	.091	2.443	23	.019	0	z	12	17697.342	38556	1.114	2.261	1...	H2-1
18	M30	L2.5x2.5x4	.093	2.443	14	.023	0	z	37	17697.345	38556	1.114	2.261	1...	H2-1
19	M31	PIPE 2.0	.177	0	38	.007	8.925		15	12350.025	32130	1.872	1.872	1...	H1-1b



### I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N36	90
N37	90

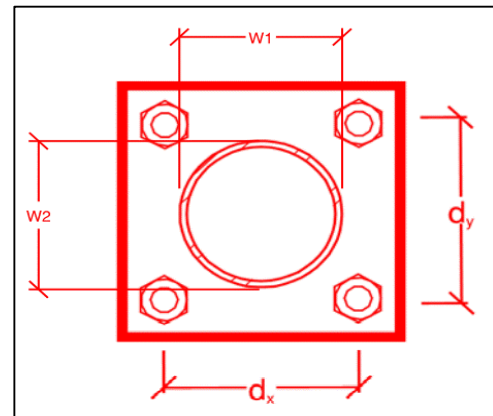


TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:  
 Bolt Quantity per Reaction:  
 $d_x$ (in) (Delta X of typ. bolt config. sketch) :  
 $d_y$ (in) (Delta Y of typ. bolt config. sketch) :  
 Bolt Type:  
 Bolt Diameter (in):  
 Required Tensile Strength (kips):  
 Required Shear Strength (kips):  
 Tensile Strength / bolt (kips):  
 Shear Strength / bolt (kips):  
 Tensile Capacity Overall:  
 Shear Capacity Overall:

yes
4
6
4
A307
0.625
1.8
1.6
10.0
6.0
4.6%*
6.8%



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

# Mount Desktop – Post Modification Inspection (PMI) Report Requirements

## Documents & Photos Required from Contractor – Mount Modification

---

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

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

### **Base Requirements:**

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

### **Photo Requirements:**

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

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

**Material Certification:**

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

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

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

Certifying Individual: Company \_\_\_\_\_

Name \_\_\_\_\_

Signature \_\_\_\_\_

**Antenna & equipment placement and Geometry Confirmation:**

- The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.
- The contractor certifies that the photos support and the equipment on the mount is as depicted on the antenna placement diagrams as included in this mount analysis.
- The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.

Certifying Individual:      Company \_\_\_\_\_  
Name \_\_\_\_\_  
Signature \_\_\_\_\_


















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

**Issue:**

Contractor shall install new safety climb wire rope guides to the existing tower leg to prevent interference with mount connection.

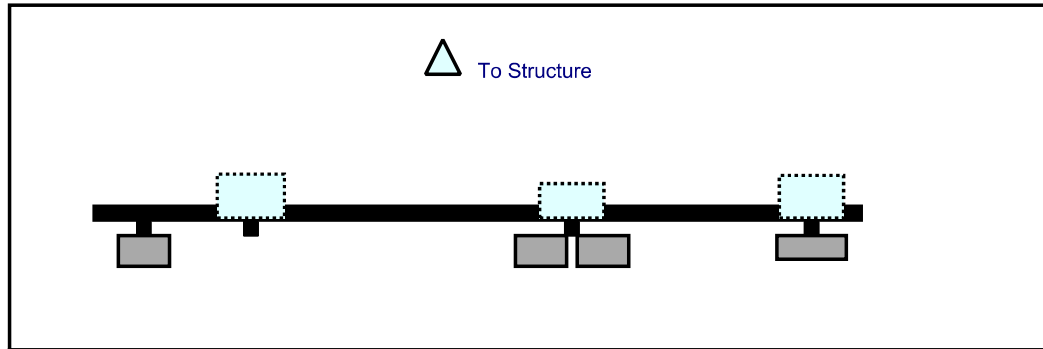
**Response:**

## **Schedule A – Photo & Document File Structure**

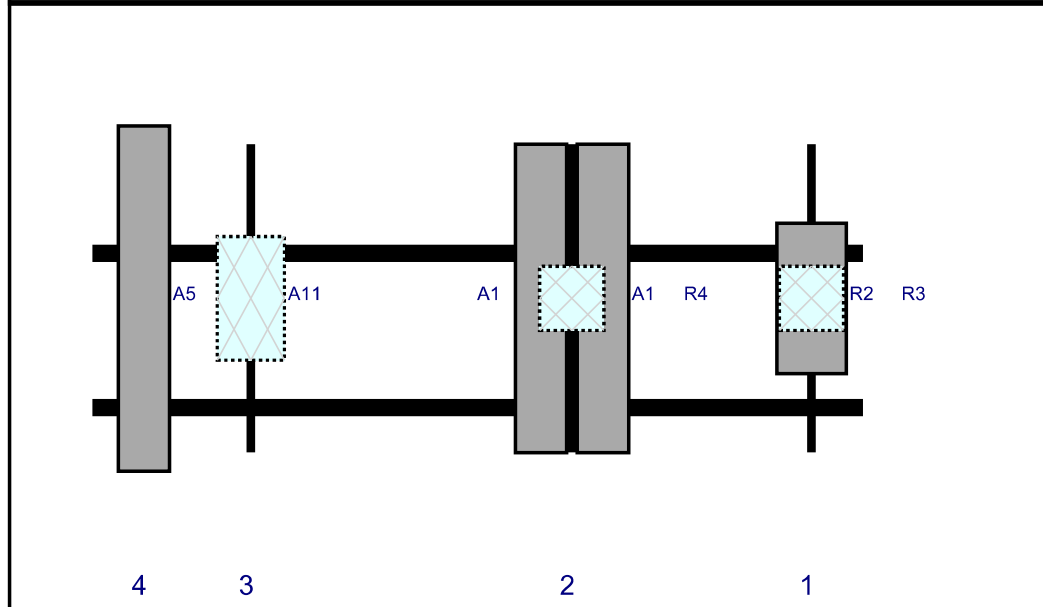
-  VzW Site Number / Name
  -  Base & “During Installation” Photos
  -  Pre-Installation Photos
    -  Alpha
    -  Beta
    -  Gamma
    -  Ground Level
    -  Tape Drop
  -  Post-Installation Photos
    -  Alpha
    -  Beta
    -  Gamma
    -  Ground Level
    -  Tape Drop
    -  Photos of climbing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



Plan View

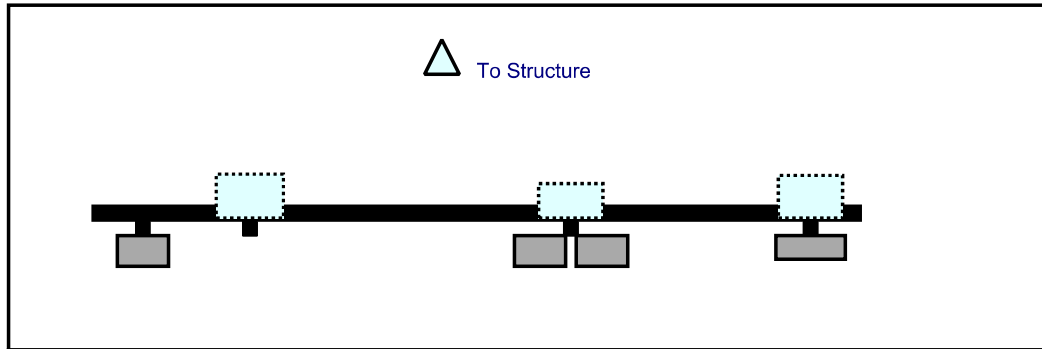


Front View  
Looking at Structure

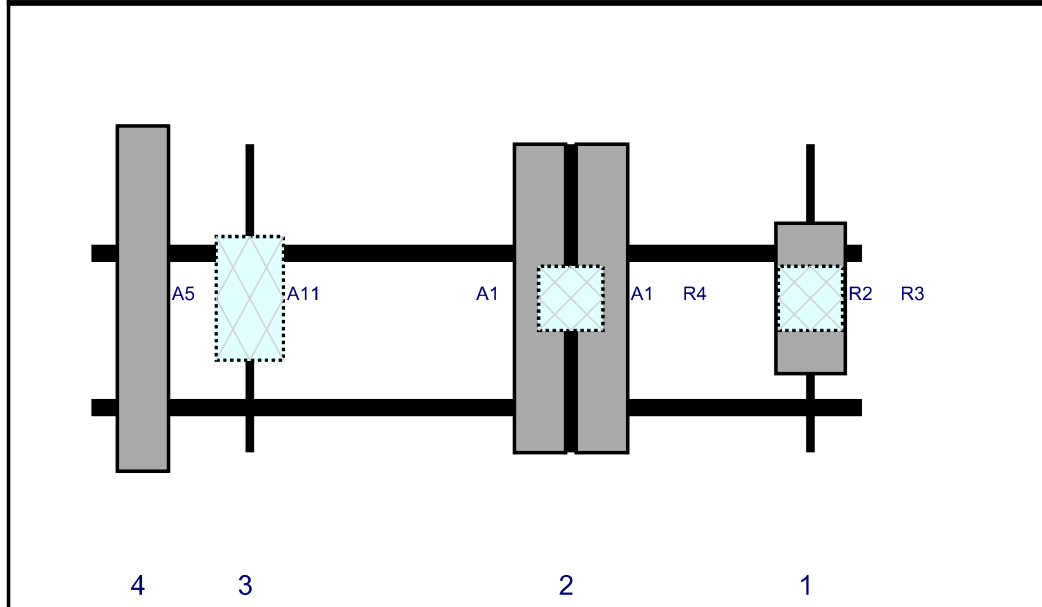


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R2	MT6407-77A	35.1	16.1	168	1	a	Front	36	0	Added	
R3	B2/B66A RRR-BR049 (RFV01U-D1A)	15	15	168	1	a	Behind	36	0	Added	
A1	NHH-65B-R2B	72	11.9	112	2	a	Front	36	7.25	Added	
A1	NHH-65B-R2B	72	11.9	112	2	b	Front	36	-7.25	Added	
R4	B5/B13 RRR-BR04C (RFV01U-D2A)	15	15	112	2	a	Behind	36	0	Added	
A11	DB-B1-6C-12AB-OZ	28.9	15.7	37	3	a	Behind	36	0	Added	
A5	LNx-6514DS-A1M	80.6	11.9	12	4	a	Front	36	0	Retained	03/25/2021

Plan View

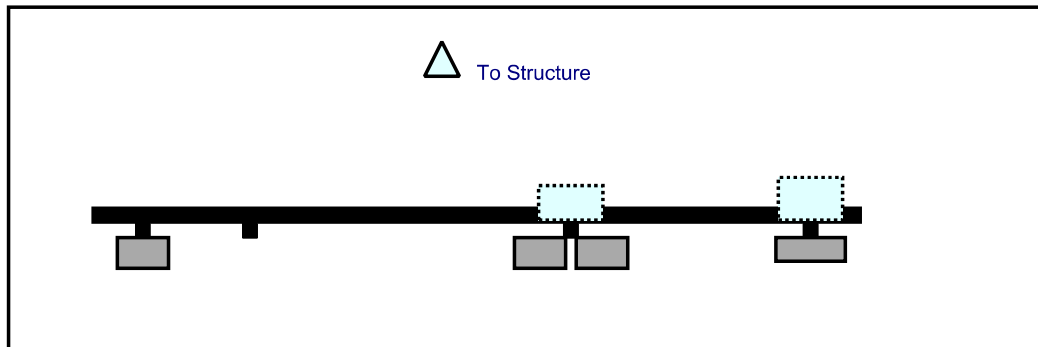


Front View  
Looking at Structure

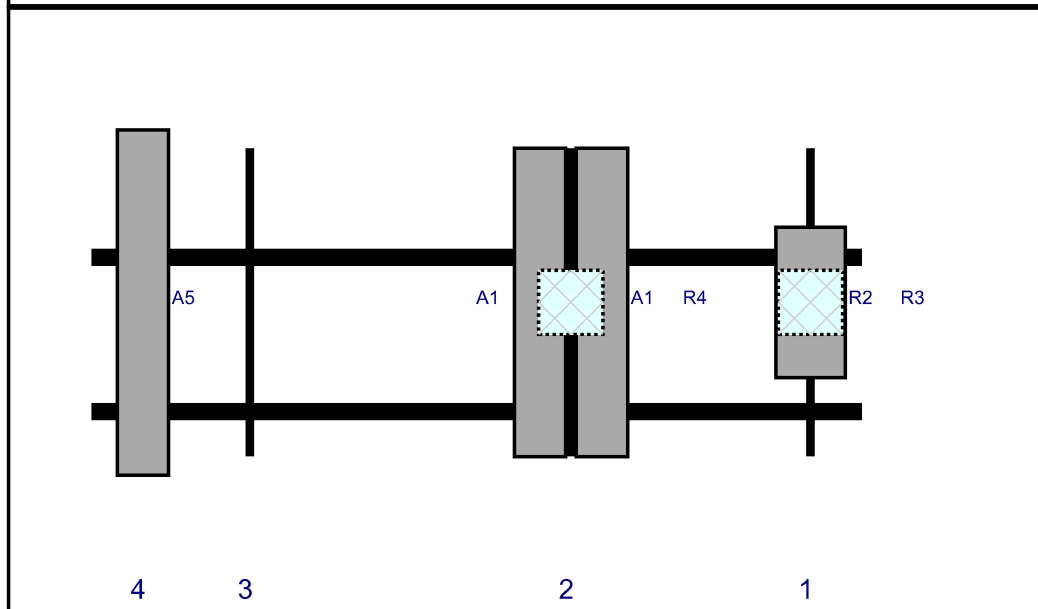


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R2	MT6407-77A	35.1	16.1	168	1	a	Front	36	0	Added	
R3	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	168	1	a	Behind	36	0	Added	
A1	NHH-65B-R2B	72	11.9	112	2	a	Front	36	7.25	Added	
A1	NHH-65B-R2B	72	11.9	112	2	b	Front	36	-7.25	Added	
R4	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	112	2	a	Behind	36	0	Added	
A11	DB-B1-6C-12AB-OZ	28.9	15.7	37	3	a	Behind	36	0	Added	
A5	LNx-6514DS-A1M	80.6	11.9	12	4	a	Front	36	0	Retained	03/25/2021

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
R2	MT6407-77A	35.1	16.1	168	1	a	Front	36	0	Added	
R3	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	168	1	a	Behind	36	0	Added	
A1	NHH-65B-R2B	72	11.9	112	2	a	Front	36	7.25	Added	
A1	NHH-65B-R2B	72	11.9	112	2	b	Front	36	-7.25	Added	
R4	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	112	2	a	Behind	36	0	Added	
A5	LNx-6514DS-A1M	80.6	11.9	12	4	a	Front	36	0	Retained	03/25/2021



**Subject**

TIA-222-H Usage

**Site Information**

*Site ID:* 468160-VZW / COVENTRY EAST CT  
*Site Name:* COVENTRY EAST CT  
*Carrier Name:* Verizon Wireless  
*Address:* 1712 Main St  
Coventry, Connecticut 06238  
Tolland County  
*Latitude:* 41.779932°  
*Longitude:* -72.309583°

**Structure Information**

*Tower Type:* Self Support  
*Mount Type:* 15.00-Ft T-Frame

To Whom It May Concern,

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

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

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

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

Sincerely,

Dejian Xu, PE  
Technical Manager

## PROJECT NOTES

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



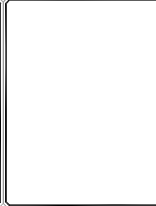
## MOUNT MODIFICATION DRAWINGS EXISTING 15.00' T-FRAME

**SITE NAME: COVENTRY EAST CT  
SITE NUMBER: 468160**

**1712 MAIN ST  
COVENTRY, CT 06238  
TOLLAND COUNTY**

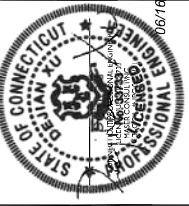
**MASER CONSULTING CONNECTICUT**  
Customer Loyalty through Client Satisfaction  
www.maser.com Offices: Connecticut

- NEW JERSEY
- NEW MEXICO
- NEW YORK
- PENNSYLVANIA
- FLORIDA
- NORTH CAROLINA
- TENNESSEE
- COLORADO



**PROTECT YOURSELF**  
ALL UTILITIES SHOULD BE LOCATED PRIOR TO ANY EXCAVATION WORK. CALL 811 TO LOCATE UTILITIES PRIOR TO ANY EXCAVATION WORK. CALL 811 BEFORE YOU DIG.  
FOR A STATE BY STATE LIST OF 811 SERVICES VISIT: [WWW.811.COM](http://WWW.811.COM)

DATE	AS SHOWN	REVISED	DATE



IF THE REVISION OF ANY OF THE ABOVE INFORMATION UNLESS THEY ARE FACTING UNDER THE DIRECTION OF THE ENGINEER, THE USER SHALL BE RESPONSIBLE TO OBTAIN THIS DOCUMENT.

**SITE NAME:**  
COVENTRY EAST CT  
468160  
1712 MAIN ST  
COVENTRY, CT 06238  
TOLLAND COUNTY

**MASER CONSULTING CONNECTICUT**  
1712 Main St  
Coventry, CT 06238  
Phone: 862.297.8412  
Fax: 862.292.1100

**TITLE SHEET**  
T-1

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

PROJECT INFORMATION	
<b>SITE INFORMATION</b>	
LATITUDE	41.779937° N
LONGITUDE	73.399587° W
JURISDICTION:	TOLLAND COUNTY
<b>APPLICANT/LESEE</b>	
COMPANY:	VERIZON WIRELESS
<b>CLIENT REPRESENTATIVE</b>	
COMPANY:	VERIZON WIRELESS
ADDRESS:	1712 MAIN ST, THIRD FLOOR
CITY, STATE, ZIP:	WESTBOROUGH, MA 01581
CONTACT:	ANDREW CANDELLO
EMAIL:	ANDREW.CANDELLO@VERIZONWIRELESS.COM
<b>PROJECT MANAGER</b>	
COMPANY:	MASER CONSULTING CONNECTICUT
CONTACT:	PETER ALBANO
PHONE:	862.297.4012
EMAIL:	PETER.ALBANO@COLLIERENGINEERING.COM

REFERENCED DOCUMENTS	
SMART TOOL PROJECT #:	1004324
MASER CONSULTING PROJECT #:	21777167A
ANALYSIS DATE:	5/6/2021

CONTRACTOR PMI REQUIREMENTS	
PMI LOCATION:	HTTPS://PMI.VZVSMART.COM
SMART TOOL PROJECT #:	10049538
VZV LOCATION CODE (PLC):	468160
FUZE ID:	1627141

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

**COPYRIGHT ©2021  
MASER CONSULTING CONNECTICUT  
ALL RIGHTS RESERVED**

THIS DRAWING AND ALL THE INFORMATION CONTAINED HEREIN IS AUTHORIZED FOR USE ONLY BY THE PARTY FOR WHICH THE WORK WAS CONTRACTED OR TO WHOM IT IS CERTIFIED. THIS DRAWING MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS FOR ANY OTHER PURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT OF MASER CONSULTING.

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

## BILL OF MATERIALS

QUANTITY		MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
VZWSMART KITS					
	3	VZWSMART	VZWSMART-SFK3	V-BRACING KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET S-2
	3	VZWSMART	VZWSMART-SFK1	TIE BACK ASSEMBLY	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET S-2
	9	VZWSMART	VZWSMART-MSK1	CROSSOVER PLATE	
OTHER REQUIRED PARTS					
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	
3			72" LONG P2.5 STD	GALVANIZED	

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

### VZWSMART KITS - APPROVED VENDORS

<b>COMMSCOPE</b>
CONTACT: SALVADOR ANGUIANO
PHONE: (817) 306-7492
EMAIL: SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE: WWW.COMMSCOPE.COM
<b>METROSITE FABRICATORS, LLC</b>
CONTACT: KENT RAMEY
PHONE: (766) 335-7645 (O), (706) 983-9788 (M)
EMAIL: KENT@METROSITELLC.COM
WEBSITE: METROSITEFABRICATORS.COM
<b>PERFECTVISION</b>
CONTACT: WIRELESS SALES
PHONE: (844) 887-6723
EMAIL: WWW.PERFECT-VISION.COM
WEBSITE: WIRELESSALES@PERFECT-VISION.COM
<b>SABRE INDUSTRIES, INC.</b>
CONTACT: ANGIE WELCH
PHONE: (866) 428-6937
EMAIL: AKWELCH@SABREINDUSTRIES.COM
WEBSITE: WWW.SABRESITESOLUTIONS.COM
<b>SITE PRO 1</b>
CONTACT: PAULA BOSWELL
PHONE: (972) 236-9843
EMAIL: PAULA.BOSWELL@VALMONT.COM
WEBSITE: WWW.SITEPRO1.COM

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

**MASER CONSULTING CORP.**  
Customer Loyalty through Client Satisfaction  
www.maser.com Offices: Locations

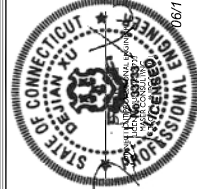
- NEW JERSEY
- NEW MEXICO
- PENNSYLVANIA
- GEORGIA
- TEXAS
- NORTH CAROLINA
- FLORIDA
- TENNESSEE
- COLORADO

© 2016 MASER CONSULTING CORP. ALL RIGHTS RESERVED. THIS DOCUMENT IS THE PROPERTY OF MASER CONSULTING CORP. IT IS TO BE USED ONLY FOR THE PROJECT SPECIFICALLY IDENTIFIED HEREIN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF MASER CONSULTING CORP.



**811**  
Call before you dig  
MISSISSIPPI STATE 44-588-5657  
FOR STATE SERVICE VISIT WWW.CALLBEFOREYOU.DIG.COM

AS SHOWN	QUANTITY	2177167A



IT IS THE POLICY OF MASER CONSULTING CORP. TO BE AN AFFIRMATIVE ACTION EMPLOYER. IF YOU ARE AN INDIVIDUAL WITH A DISABILITY AND YOU NEED ACCOMMODATION TO APPLY FOR A POSITION, PLEASE CONTACT US AT (817) 306-7492.

**SITE NAME:**  
COVENTRY EAST CT  
468160  
1713 MAIN ST  
COVENTRY, CT 06238  
TOLLAND COUNTY



**BILL OF MATERIALS**  
S-1

06/18/2021

**GENERAL NOTES**

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

**DESIGN LOADS**

- WIND LOADS**  
 a. BASIC WIND SPEED (3 SECOND GUST), V = 119 MPH  
 b. EXPOSURE CATEGORY C  
 c. TOPOGRAPHIC CATEGORY 1  
 d. MEAN BASE ELEVATION (AMS), = 712.34'
- ICE LOADS**  
 a. ICE WIND SPEED (3 SECOND GUST), V = 90 MPH  
 b. ICE THICKNESS = 1.50 IN
- SEISMIC LOADS**  
 a. SEISMIC DESIGN CATEGORY B  
 b. SHORT TERM MCEER GROUND MOTION, S<sub>1</sub> = 188  
 c. LONG TERM MCEER GROUND MOTION, S<sub>2</sub> = 655

**PROTECT BY ANY OTHER MEANS.**

14. ALL EXISTING PAINTED GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

**STRUCTURAL STEEL**

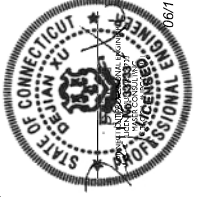
1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
  - a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
  - b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
  - c. AISC CODE OF STANDARD PRACTICE
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:
  - CHANNELS, ANGLES, PLATES, ETC. ASTM A36 (GR 35)
  - STEEL PIPE ASTM A53 (GR 35)
  - BOLTS ASTM A325
  - WASHERS ASTM A307
  - LOCK WASHERS LOCKING STRUCTURAL GRADE
3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE SUFFICIENT FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND CORRECTIONS WILL BE NOTED IN THE SHOP DRAWINGS AND CANNOT BE USED WITH THE SUBSTITUTION. REDESIGN COSTS SHALL BE COVERED BY THE CONTRACTOR. CONTRACTOR SHALL BE PROVIDED TO THE ENGINEER, CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
  - a. SUBMIT SHOP DRAWINGS TO PETER.ALBANO@COLLIERSENGINEERING.COM
  - b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BEDIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.92 REQUIREMENTS.
9. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
10. FOR MEMBERS BEING REPLACED, PROVIDE NUTS, BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
11. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH TO PERFORM THE FUNCTION OF THE BOLT AND TO BE FULLY UNDER THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
12. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
13. ALL NEW STEEL SHALL BE HOT BEDIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO

**MASER CONSULTING ENGINEERS**  
 www.maser.com  
 Customer Loyalty through Client Satisfaction  
 11000 Old York Road, Suite 200  
 Columbia, MD 21046  
 Tel: 410-326-7500  
 Fax: 410-326-7501  
 Email: info@maser.com

NEW JERSEY  
 NEW MEXICO  
 NORTH CAROLINA  
 PENNSYLVANIA  
 TEXAS  
 VIRGINIA  
 WISCONSIN  
 FLORIDA  
 GEORGIA  
 ILLINOIS  
 INDIANA  
 IOWA  
 KANSAS  
 KENTUCKY  
 MISSOURI  
 NEBRASKA  
 NEVADA  
 OHIO  
 OKLAHOMA  
 SOUTH CAROLINA  
 TENNESSEE  
 UTAH  
 WYOMING  
 COLORADO

PROTECT YOURSELF  
 ALL STATES REQUIRE AN OPERATING LICENSE TO BE A REGISTERED PROFESSIONAL ENGINEER. YOU MUST BE A LICENSED PROFESSIONAL ENGINEER TO SEAL THESE DRAWINGS.  
 Call today for details  
 1-800-368-7263  
 www.maser.com

REV	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY
0	06/18/2021	ISSUED FOR PERMIT	PK	PK
1	06/18/2021	ISSUED FOR PERMIT	PK	PK
2	06/18/2021	ISSUED FOR PERMIT	PK	PK
3	06/18/2021	ISSUED FOR PERMIT	PK	PK
4	06/18/2021	ISSUED FOR PERMIT	PK	PK
5	06/18/2021	ISSUED FOR PERMIT	PK	PK
6	06/18/2021	ISSUED FOR PERMIT	PK	PK
7	06/18/2021	ISSUED FOR PERMIT	PK	PK
8	06/18/2021	ISSUED FOR PERMIT	PK	PK
9	06/18/2021	ISSUED FOR PERMIT	PK	PK
10	06/18/2021	ISSUED FOR PERMIT	PK	PK



IF THE ALLOCATION OF LOADS AND PERCENT UNLESS THEY ARE FACTING UNDER THE DIRECTION OF THE ENGINEER, YOU MUST SIGN THIS DOCUMENT. ENGINEER TO SIGN THIS DOCUMENT.

**SITE NAME:**  
 COVENTRY EAST CT  
 468160  
 1713 MAIN ST  
 COVENTRY, CT 06238  
 TOLLAND COUNTY



**MODIFICATION NOTES**

**MODIFICATION INSPECTION NOTES**

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

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

THE MODIFICATION INSPECTION (MI) IS A VISUAL INSPECTION OF MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS COMPLETED AS SHOWN ON THE MI CHECKLIST AND AS SHOWN ON THE ORIGINAL MODIFICATION DRAWINGS, AS DESIGNED BY THE ENGINEER OF RECORD (EOR).

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

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

**MI INSPECTOR**

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

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS
- THE MI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GC INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE MI REPORT TO EOR.

**GENERAL CONTRACTOR**

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

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE MI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE MI INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS
- THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MI CHECKLIST.

**RECOMMENDATIONS**

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

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

**CORRECTION OF FAILING MIS**

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

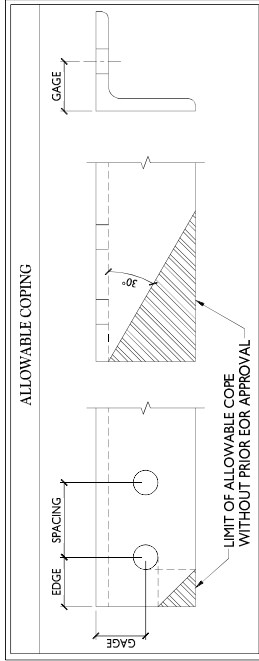
- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.

**REQUIRED PHOTOS**

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

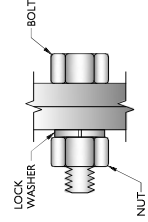
- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION
- RAW MATERIALS
- PHOTOS OF ALL CRITICAL DETAILS
- FOUNDATION MODIFICATIONS
- FOUNDATION MODIFICATION
- BOLT INSTALLATION
- FINAL INSTALLED CONDITION
- SURFACE COATING REPAIR
- POST CONSTRUCTION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

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



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

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

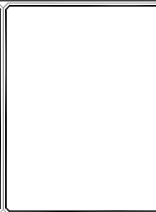


TYP. BOLT ASSEMBLY

- NOTES:**
- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE ASC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORTED AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
  - THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ALL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE ASC MINIMUM REQUIREMENTS.
  - SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS
  - MATCH EXISTING GAGES WHEN APPLICABLE. UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.

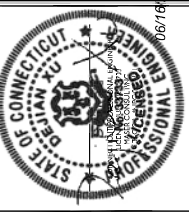
**MASER**  
 CONSULTING ENGINEERS  
 www.maser.com  
 Customer Loyalty through Client Satisfaction

NEW JERSEY  
 NEW YORK  
 PENNSYLVANIA  
 VIRGINIA  
 NORTH CAROLINA  
 SOUTH CAROLINA  
 FLORIDA  
 GEORGIA  
 ALABAMA  
 ARIZONA  
 CALIFORNIA  
 COLORADO  
 ILLINOIS  
 INDIANA  
 IOWA  
 KANSAS  
 MISSISSIPPI  
 MISSOURI  
 NEBRASKA  
 NEVADA  
 OHIO  
 OKLAHOMA  
 SOUTH DAKOTA  
 TEXAS  
 UTAH  
 WISCONSIN  
 WYOMING



**811**  
 CALL BEFORE YOU DIG  
 ALL UTILITIES SHOULD BE LOCATED PRIOR TO ANY EXCAVATION WORK. CONTACT 811 AT LEAST 48 HOURS BEFORE ANY EXCAVATION WORK.

DATE	AS SHOWN	REVISION	DATE
			11/27/16



STATE OF CONNECTICUT  
 REGISTERED PROFESSIONAL ENGINEER  
 UNLESS THE AFFECTING UNDER THE DIRECTION OF THE REGISTERED PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT

**SITE NAME:**  
 COVENTRY EAST CT  
 468160  
 1713 MAIN ST  
 COVENTRY, CT 06238  
 TOLLAND COUNTY

**MASER**  
 CONSULTING ENGINEERS  
 1100 MAIN STREET  
 SUITE 100  
 WEST CONTOUR, CT 06235  
 Phone: 862.979.8412  
 Fax: 862.972.1100

**MODIFICATION NOTES**

3-3

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



**MASER**  
 CONSULTING ENGINEERS  
 1000 WEST MAIN STREET  
 SUITE 100  
 WESTPORT, MA 01886  
 www.maser.com  
 Customer: Loyalty through Client Satisfaction  
 www.maser.com Offices Locations:

- NEW JERSEY
- NEW MEXICO
- NORTH CAROLINA
- PENNSYLVANIA
- TEXAS
- VIRGINIA
- GEORGIA
- FLORIDA
- TENNESSEE
- COLORADO

PROPOSED V-BRACING KIT (PART # VZVSMART-SFK) (TYP. OF 3, 1 PER SECTOR) REFER TO NOTE 2.

PROPOSED TIE-BACK ASSEMBLY (PART # VZVSMART-SFK) (TYP. OF 3, 1 PER SECTOR) REFER TO NOTES 2 AND 4.



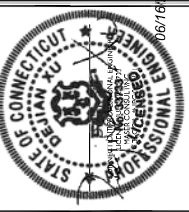
REV	DATE	DESCRIPTION	BY	CHK

**811**  
 Call before you dig  
 www.callbeforeyoudig.com

PROTECT YOURSELF  
 ALL UTILITIES SHOULD BE LOCATED PRIOR TO ANY EXCAVATION OR DRILLING OPERATIONS. CALL 811 TO LOCATE UTILITIES PRIOR TO ANY EXCAVATION OR DRILLING OPERATIONS.

PROJECT: AS SHOWN  
 DRAWING: 2177167A

DATE: 06/18/2021



IF THE REVISIONS AFFECT ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE ENGINEER, THEY SHALL BE RESPONSIBLE TO THE CLIENT FOR ANY DAMAGE TO THE PROJECT.

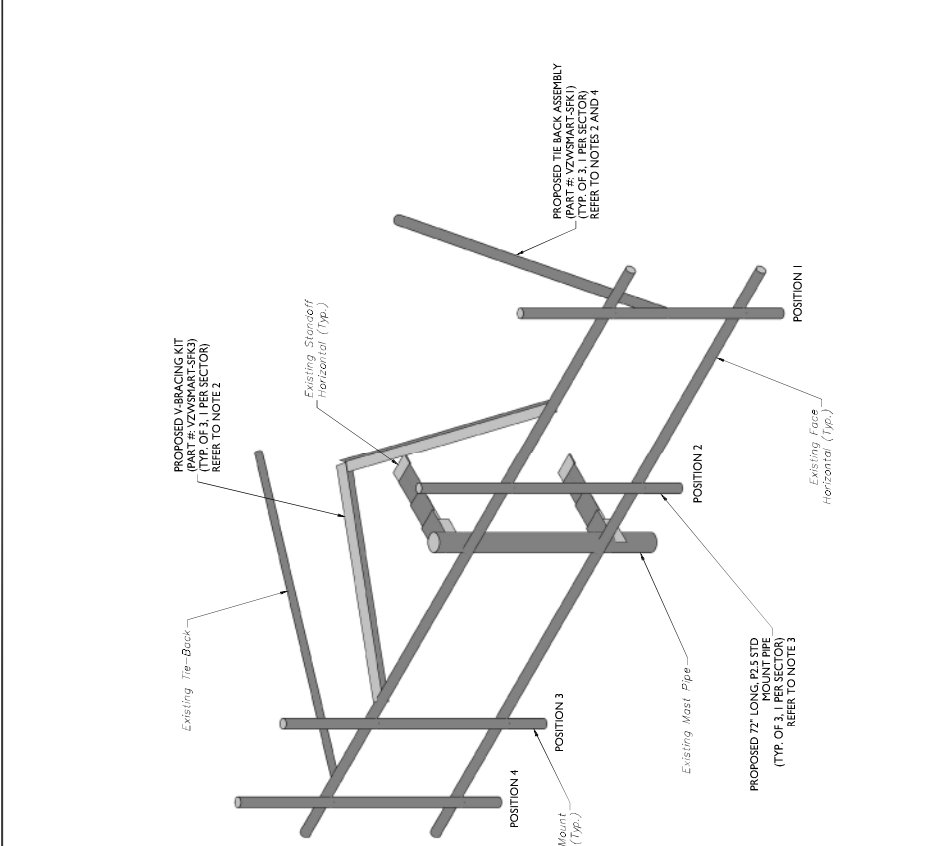
**SITE NAME:**  
 COVENTRY EAST CT  
 468160  
 1713 MAIN ST  
 COVENTRY, CT 06238  
 TOLLAND COUNTY

**MASER**  
 CONSULTING ENGINEERS  
 1000 WEST MAIN STREET  
 SUITE 100  
 WESTPORT, MA 01886  
 www.maser.com  
 Phone: 815.272.9415  
 Fax: 815.272.1100

**MODIFICATION DETAILS**

DATE: 06/18/2021

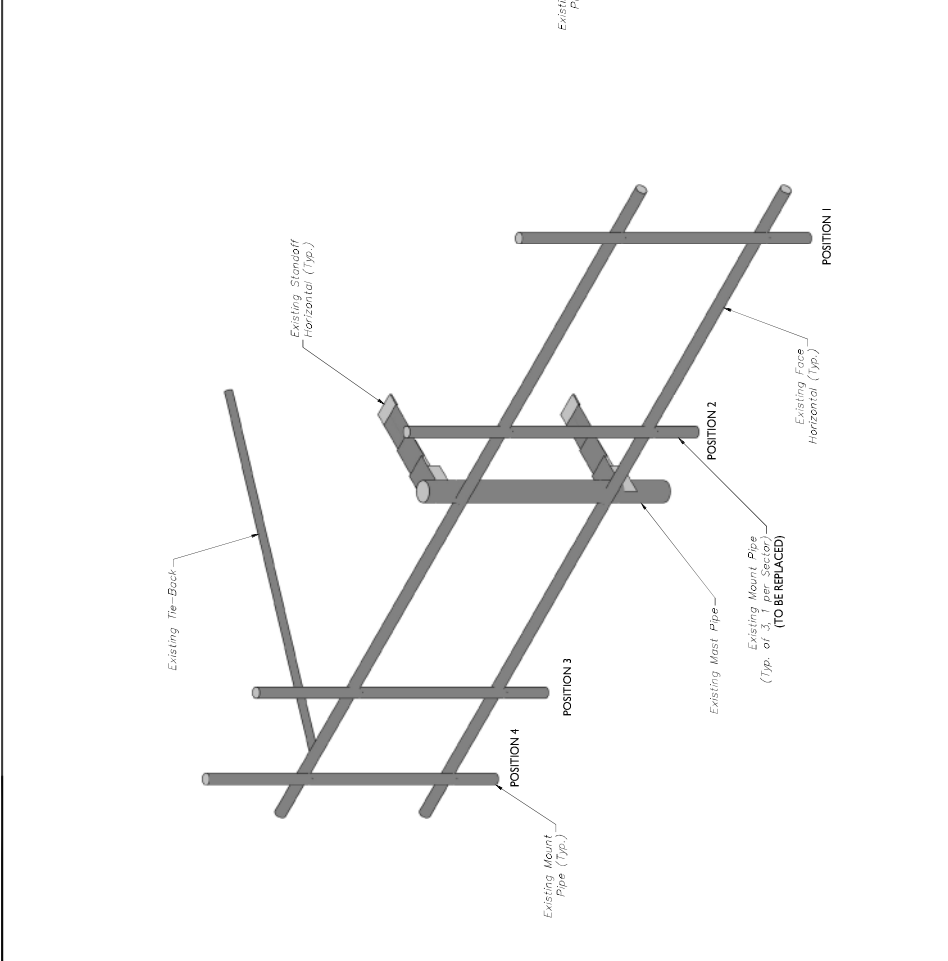
BY: [Signature]



**2** PROPOSED T-FRAME ISOMETRIC VIEW (TYP. ALL SECTORS)  
 SCALE: N.T.S.

**MODIFICATION NOTES:**

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET S-2.
3. CONNECT NEW MOUNT PIPE TO EXISTING HORIZONTAL WITH CROSSOVER PLATES (PART #: VZVSMART-MSK1).
4. CONNECT NEW TIE BACK TO MOUNT PIPE WITH CROSSOVER PLATES (PART #: VZVSMART-MSK1), CONNECT OTHER END TO ADJACENT TOWER LEG.



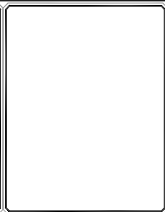
**1** EXISTING T-FRAME ISOMETRIC VIEW (TYP. ALL SECTORS)  
 SCALE: N.T.S.

**STRUCTURAL NOTES:**

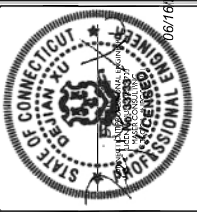
1. PER THE MOUNT MAPPING COMPLETED BY HUDSON DESIGN GROUP LLC ON 3/25/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (149'-0") ARE IN GOOD CONDITION, HOWEVER, THEY ARE OBSTRUCTED BEFORE ACCESSING VERIZON'S MOUNT. MASER DOES NOT WARRANT THIS INFORMATION.
2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

**MASER**  
CONSTRUCTIVE CORRECTIVE  
Customer Loyalty through Client Satisfaction  
www.maser.com Offices Nationwide

- NEW JERSEY
- NEW MEXICO
- FLORIDA
- GEORGIA
- PENNSYLVANIA
- TENNESSEE
- NORTH CAROLINA
- COLORADO



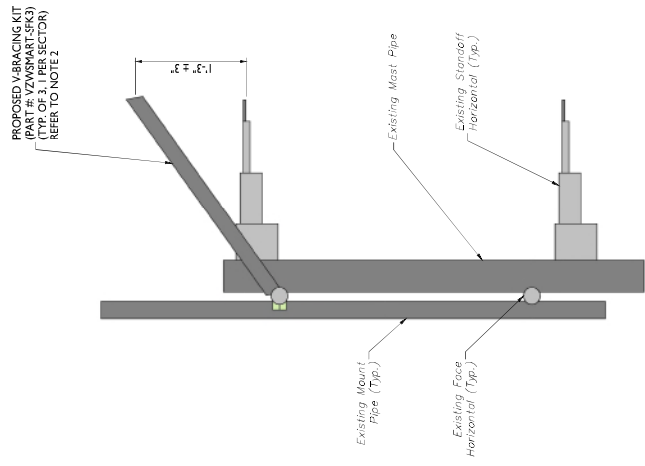
REV	DATE	DESCRIPTION	BY	CHK	APP	DATE



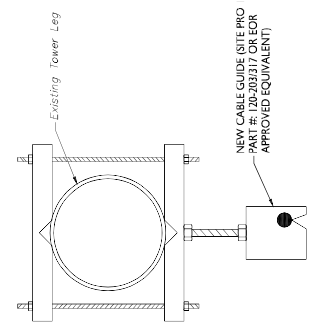
**SITE NAME:**  
COVENTRY EAST CT  
468160  
1713 MAIN ST  
COVENTRY, CT 06238  
TOLLAND COUNTY



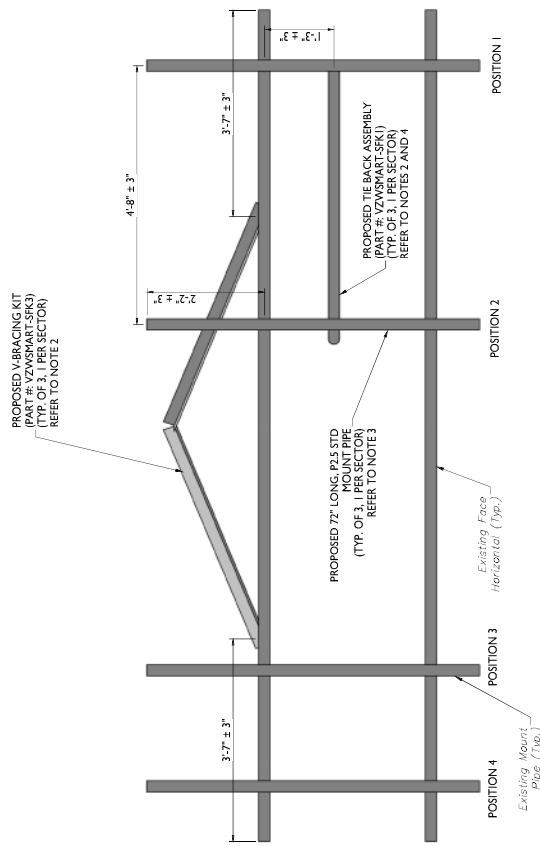
**MODIFICATION DETAILS**  
S-5



2 PROPOSED SIDE ELEVATION (TYP. ALL SECTORS)  
SCALE: N.T.S.



3 PROPOSED CABLE GUIDE TOWER LEG ATTACHMENT - PLAN VIEW  
SCALE: N.T.S.



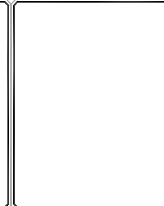
1 PROPOSED FRONT ELEVATION (TYP. ALL SECTORS)  
SCALE: N.T.S.

- MODIFICATION NOTES:**
1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
  2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET S-2.
  3. CONNECT NEW MOUNT PIPE TO EXISTING HORIZONTAL WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).
  4. CONNECT NEW TIE BACK TO MOUNT PIPE WITH CROSSOVER PLATES (PART#:VZWSMART-MSK1). CONNECT OTHER END TO ADJACENT TOWER LEG.

**MASER**  
 CONSULTING ENGINEERS  
 1000 WEST 10TH AVENUE  
 DENVER, CO 80202  
 www.maser.com  
 Customer: Loyalty through Client Satisfaction

- NEW JERSEY  
 NEW MEXICO  
 NORTH CAROLINA  
 NORTH DAKOTA  
 PENNSYLVANIA  
 TEXAS  
 FLORIDA  
 TENNESSEE  
 COLORADO

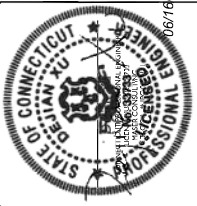
© 2010 Maser Consulting Engineers, Inc. All rights reserved. Maser Consulting Engineers, Inc. is an Equal Opportunity Employer. Maser Consulting Engineers, Inc. is an Equal Opportunity Employer. Maser Consulting Engineers, Inc. is an Equal Opportunity Employer.



**PROTECT YOURSELF**  
 ALL STATES REQUIRE AN EYE PROTECTIVE DEVICE TO BE WEARED AT ALL TIMES WHILE OPERATING ANY POWER TOOLS OR EQUIPMENT.  
 Call before you dig  
 811  
 1-800-4-A-DIG  
 www.callbeforeyoudig.com

PROJECT: **AS SHOWN** | DRAWING: **2177167A**

REV	DATE	DESCRIPTION	BY	CHECKED



06/16/2021

THIS DRAWING IS VALID FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF AN ENGINEER OR ARCHITECT. NO LIABILITY FOR DAMAGES TO THIS DOCUMENT.

**SITE NAME:**  
 COVENTRY EAST CT  
 468160  
 1713 MAIN ST  
 COVENTRY, CT 06238  
 TOLLAND COUNTY

**MASER CONSULTING ENGINEERS**  
 1000 WEST 10TH AVENUE  
 DENVER, CO 80202  
 Phone: 855.297.8415  
 Fax: 855.292.1100

**MOUNT PHOTOS**



MOUNT PHOTO 2



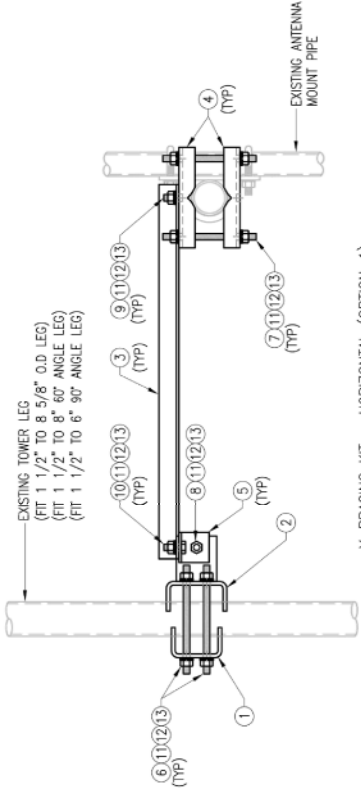
MOUNT PHOTO 4



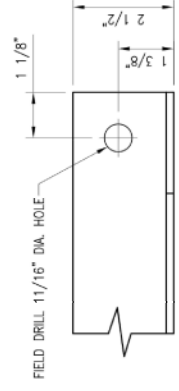
MOUNT PHOTO 1



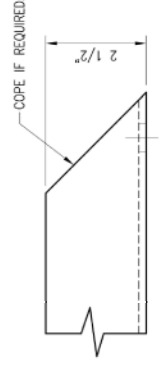
MOUNT PHOTO 3



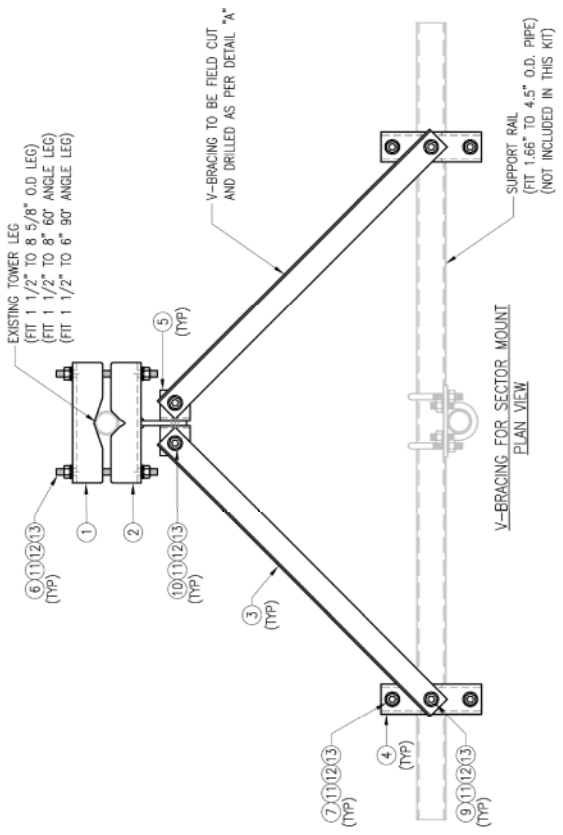
V-BRACING KIT - HORIZONTAL (OPTION-1)  
 SIDE VIEW



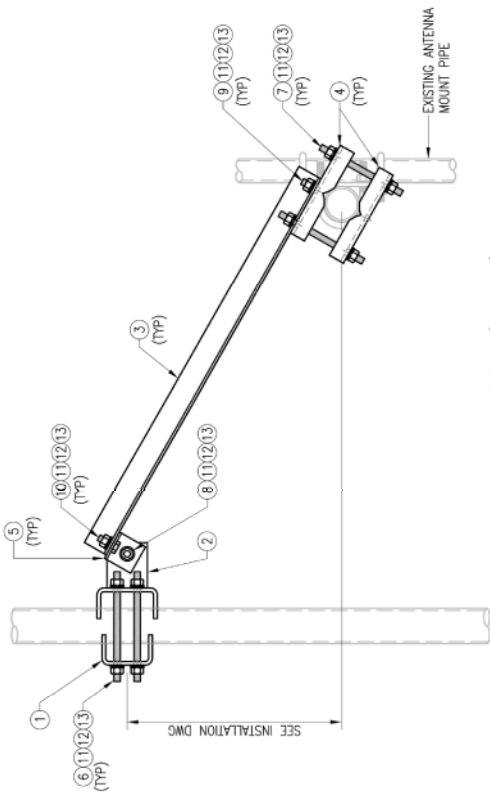
PLAN VIEW



FRONT VIEW  
 DETAIL "A"



V-BRACING FOR SECTOR MOUNT  
 PLAN VIEW

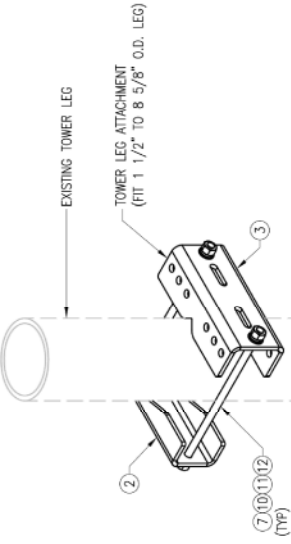


V-BRACING KIT - VERTICAL (OPTION-2)  
 SIDE VIEW

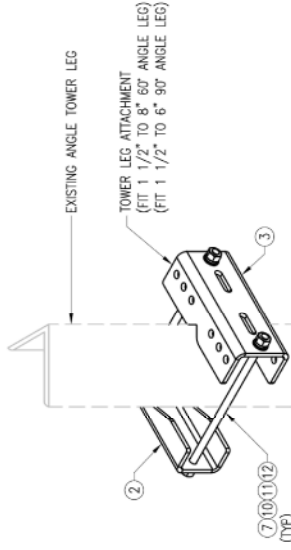
VZWSMART-SFK3 (V-BRACING KIT)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT	
1	1	BP9625-12	PL 3/8" X 9 5/8" X 1'-0" A36 BENT PLATE	VBSM-F1	12	
2	1	BRKW-VBSM	WELDMENT BRACKET	VBSM-F3	16	
3	2	L252525-8	L 2 1/2" X 2 1/2" X 1/4" X 8'-0" A36	VBSM-F5	67	
4	4	BP6875-10	PL 3/8" X 6 7/8" X 10" A36 BENT PLATE	VBSM-F2	20	
5	2	AL-333	L 3" X 3" X 1/4" X 3" A36	VBSM-F2	3	
6	4	---	THREADED ROD 5/8" DIA. X 1'-6" F1554-36 HDG	---	---	
7	4	---	THREADED ROD 5/8" DIA. X 10" F1554-36 HDG	---	---	
8	1	---	BOLT 5/8" X 2 1/4" A325	---	---	
9	2	---	BOLT 5/8" X 1 3/4" A325	---	---	
10	2	---	BOLT 5/8" X 1 3/4" A325	---	---	
11	21	FW-625	5/8" HDG USS FLAT WASHER	---	2	
12	21	LW-625	5/8" HDG LOCK WASHER	---	0	
13	21	NUT-625	5/8" HDG HEX NUT	---	2	
					GALVANIZED WT	122

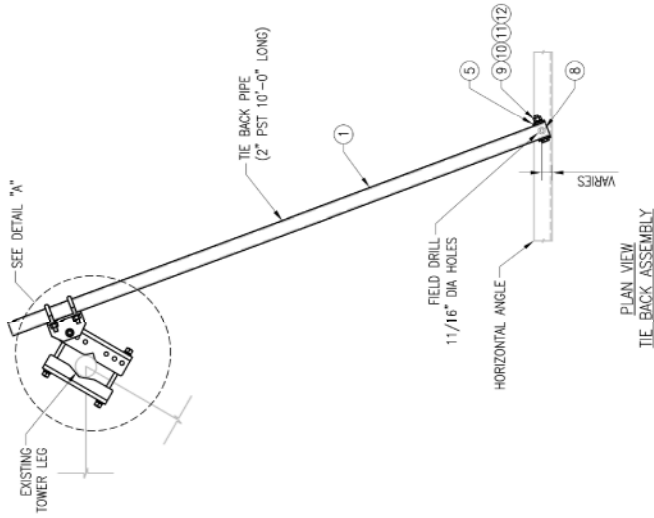
NOTES:  
 1. HOT-DIPPED GALVANIZED PER ASTM A123.



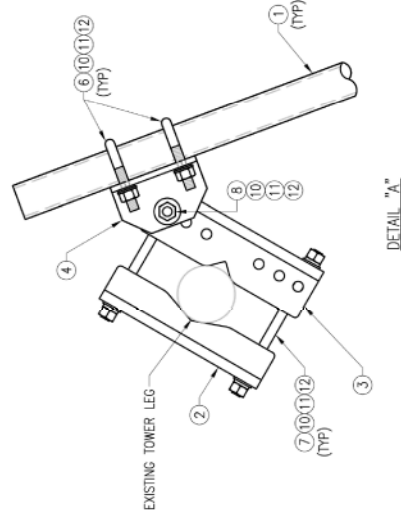
ROUND TOWER LEG ATTACHMENT DETAIL



ANGLE TOWER LEG ATTACHMENT DETAIL



PLAN VIEW  
 TIE BACK ASSEMBLY



DETAIL "A"

VZWSMART-SFK1 (TIE BACK ASSEMBLY)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PST2375-10	2" PST (2.375" O.D. X 0.154" THK) X 10'-0" A53 GR-B 35KSI	SFK1-F1	38
2	1	B9925-12	PL 3/8" X 8 1/4" X 1'-0" A36 BENT PLATE	SFK1-F2	11
3	1	BP11125-12	PL 3/8" X 11 1/8" X 1'-0" A36 BENT PLATE	SFK1-F3	14
4	1	BP6-9375	PL 3/8" X 6" X 9 3/8" A36 BENT PLATE	SFK1-F4	6
5	1	BP2-875	PL 1/4" X 2" X 8 3/4" A36 BENT PLATE	SFK1-F4	1
6	2	MS02-625-300-500	RU-BOLT 5/8" X 3" LW. X 5" LL. A36 (OR EQUIV.)	RBC-1	2
7	2	---	THREADED ROD 5/8" DIA. X 1'-6" F1554-36 HDG	---	0
8	2	---	BOLT 5/8" X 2" A325	---	0
9	1	---	BOLT 5/8" X 4 1/4" A325	---	0
10	11	PW-625	5/8" HDG USS FLAT WASHER	---	1
11	11	LW-625	5/8" HDG LOCK WASHER	---	0
12	11	NUT-625	5/8" HDG HEX NUT	---	1
				GALVANIZED WT	72

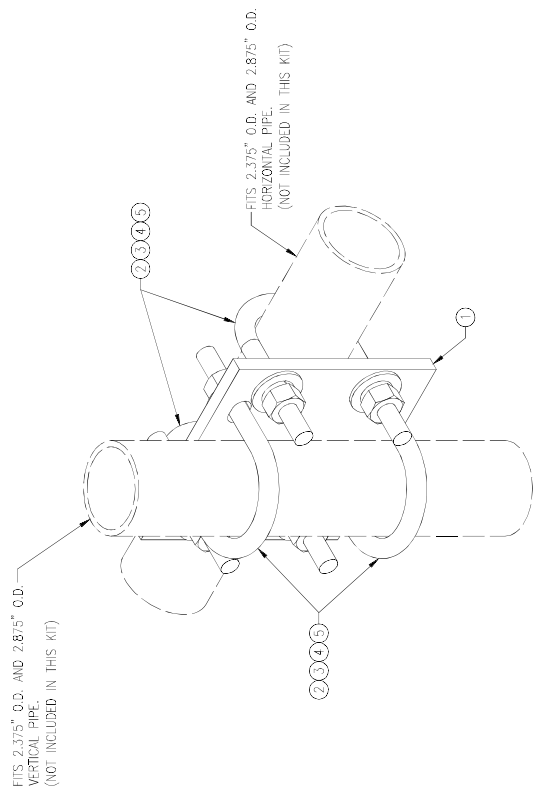
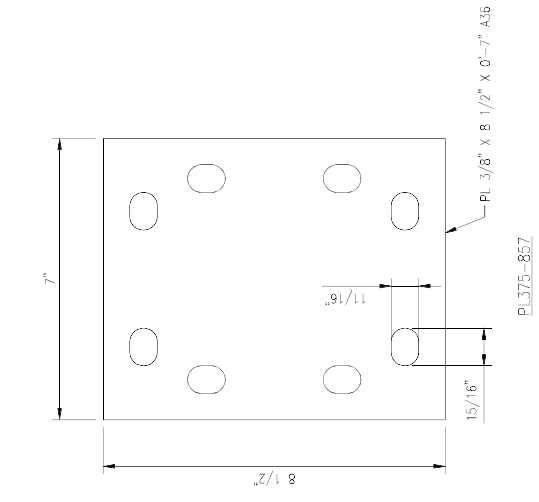
NOTES:  
 1. HOT-DIPPED GALVANIZED PER ASTM A123.

DRAWN BY: BT	CHECKED BY: HMA/AV
REV. DESCRIPTION	BY DATE
△ FIRST ISSUE	BT 06/08/20
△	
△	
△	
△	
SHEET TITLE:	
VZWSMART-SFK1 TIE BACK ASSEMBLY	
SHEET NUMBER:	REV #
VZWSMART-SFK1	0

DRAWN BY: HLR	CHECKED BY: HMA
REV. DESCRIPTION	BY DATE
1 FIRST ISSUE	HLR 05/08/20
△	
△	
△	
△	

SHEET TITLE:  
 VZWSMART-MSK1  
 CROSSOVER PLATE

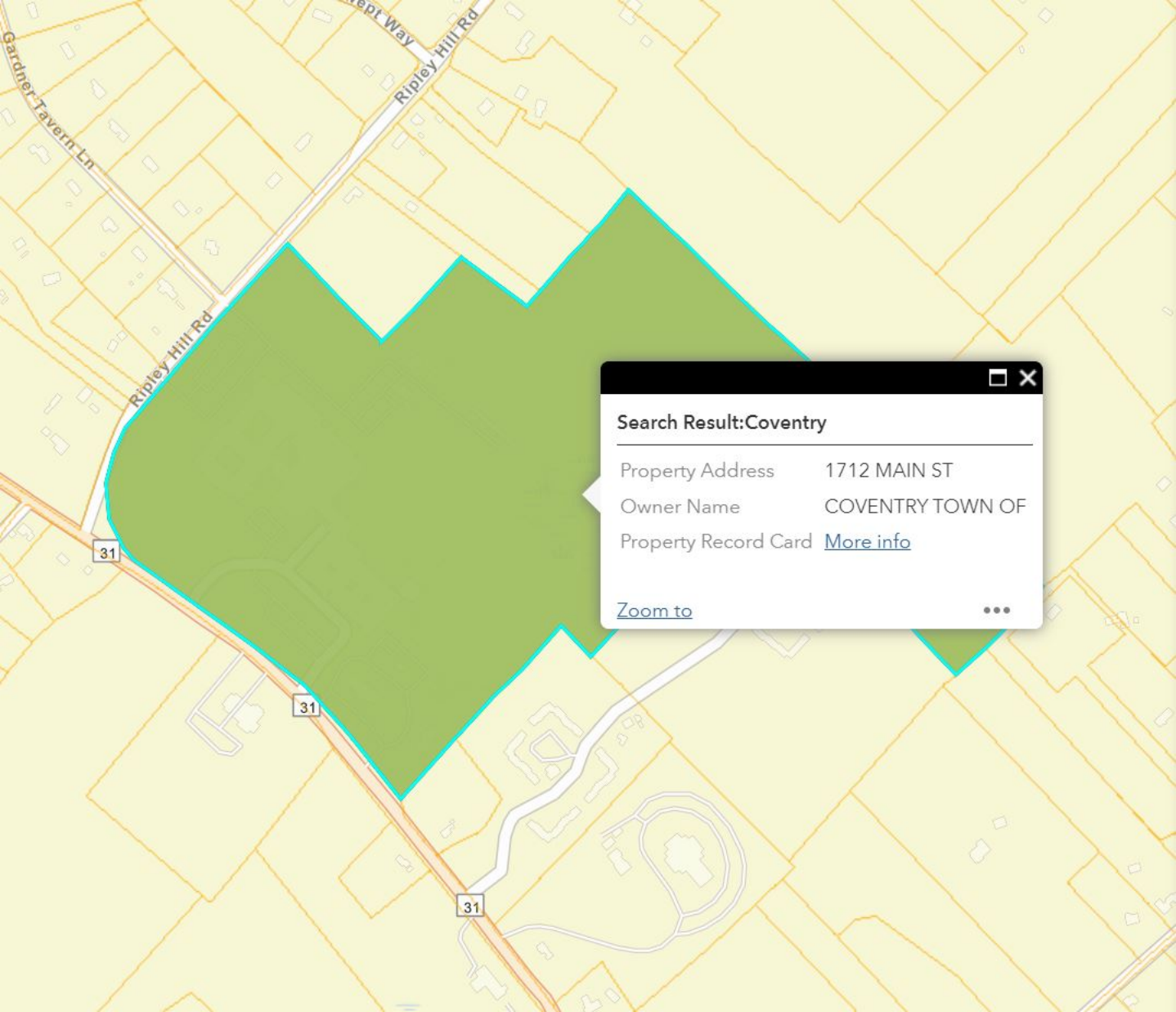
SHEET NUMBER:	REV #
VZWSMART-MSK1	0



ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-857	PL 3/8" X 8 1/2" X 0'-7" A36	MSK1-F1	6
2	4	MSD2-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	5
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	8	LW-625	5/8" HDG LOCK WASHER	---	0
5	8	NUT-625	5/8" HDG HEX NUT	---	1
				GALVANIZED WT	14

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

# **ATTACHMENT 5**



**Search Result:Coventry**

Property Address      1712 MAIN ST  
Owner Name              COVENTRY TOWN OF  
Property Record Card [More info](#)

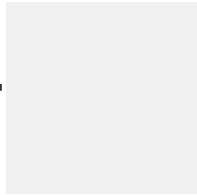
[Zoom to](#)







# Coventry, CT



1712 MAIN ST

**Location**

1712 MAIN ST

**Mblu**

29/ / 159/ /

**Acct#**

R30305

**Owner**

COVENTRY TOWN OF

**PBN**

**Assessment**

\$16,333,700

**Appraisal**

\$23,333,600

**PID**

6578

**Building Count**

5

Current Value

**Appraisal**

Valuation Year	Improvements	Land	Total
2019	\$20,161,600	\$3,172,000	\$23,333,600

**Assessment**

Valuation Year	Improvements	Land	Total
2019	\$14,113,300	\$2,220,400	\$16,333,700

**Owner of Record****Owner** COVENTRY TOWN OF**Co-Owner****Address** 1712 MAIN ST  
COVENTRY, CT 06238**Sale Price** \$0**Certificate****Book & Page** 0100/0064**Sale Date** 01/06/1960**Instrument** 29

## Ownership History

**Ownership History**

Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
COVENTRY TOWN OF	\$0		0100/0064	29	01/06/1960

## Building Information

Building 1 : Section 1



**Year Built:** 1962**Living Area:** 6,036**Replacement Cost:** \$1,464,038**Building Percent Good:** 69**Replacement Cost****Less Depreciation:** \$1,010,200**Building Attributes**

Field	Description
Style	City/Town Hall
Model	Comm/Ind
Grade	C
Stories:	1
Occupancy	1.00
Exterior Wall 1	Brick

# **ATTACHMENT 6**



COVENTRY EAST  
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  2	TOTAL NO. of Pieces Received at Post Office™  2	Affix Stamp Here <i>Postmark with Date of Receipt.</i>  neopost <sup>SM</sup> 11/16/2021 <b>US POSTAGE \$002.99<sup>00</sup></b>   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.	John Elsesser, Town Manager Town of Coventry 1712 Main Street Coventry, CT 06238				
2.	Eric Trott, Director of Land Use Town of Coventry 1712 Main Street Coventry, CT 06238				
3.					
4.					
5.					
6.					

