

KENNETH C. BALDWIN

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

Also admitted in Massachusetts
and New York

October 26, 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
4 Volunteer Drive (a/k/a 2 Volunteer Drive) Windsor Locks, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains an existing wireless telecommunications facility at the above-referenced property address (the “Property”). The facility consists of antennas and remote radio heads attached to a tower and related equipment on the ground, near the base of the tower. The tower was approved by the Town of Windsor Locks (“Town”) in June of 1999. Cellco’s shared use of the tower was approved by the Siting Council (“Council”) in October of 2008 (EM-VER-165-080919). A copy of the Town’s approval and the Council’s EM-VER-165-080919 approval are included in [Attachment 1](#).

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

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

Melanie A. Bachman, Esq.
October 26, 2021
Page 2

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

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's replacement antennas will be installed on Cellco's existing antenna mounting structure.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative power density table for Cellco's modified facility are 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.
October 26, 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:

J. Christopher Kervick, First Selectman for the Town of Windsor Locks
Jennifer Rodriguez, Town Planner
Alex Tyurin, Verizon Wireless

ATTACHMENT 1

**TOWN OF WINDSOR LOCKS, CT
BUILDING PERMIT**

№ 23004

DATE June 29, 1999
CHECK NO waived CASH
C.O. FEE waived

APPLICANT

NAME Message Center Management
ADDRESS 40 Woodland Street
Hartford, CT 06105

ESTIMATED COST/VALUE \$ 60,000
(EXCLUDING ELECTRICAL, PLUMBING & HVAC)
FEE \$ WAIVED

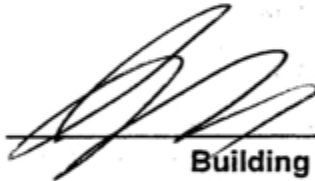
PHONE 860-418-5706 **LICENSE NO.**
OWNER 860-418-5752-Chris

NAME Town of Windsor Locks
ADDRESS 50 Church Street
Windsor Locks, CT 06096

To construct a Wireless Telecommunication Facility as per drawings
at 2-4 Volunteer Drive.

Ft Front=70' Ft Deep= 54'

All work to be done in accordance with this application
and plans approved by the Building Department



Building Official

October 14, 2008

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

RE: **EM-VER-165-080919** – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 4 Volunteer Road, Windsor Locks, Connecticut.

Dear Attorney Baldwin:

The Connecticut Siting Council (Council) hereby acknowledges 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 September 19, 2008, including the placement of all necessary equipment and shelters within the tower compound. 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. Please be advised that the validity of this action shall expire one year from the date of this letter. 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,

S. Derek Phelps
Executive Director

SDP/MP/jb

c: The Honorable Steven N. Wawruck, Jr., First Selectman, Town of Windsor Locks

Alan Gannuscio, Planning & Zoning Chairman, Town of Windsor Locks

ATTACHMENT 2



WIRELESS COMMUNICATIONS FACILITY

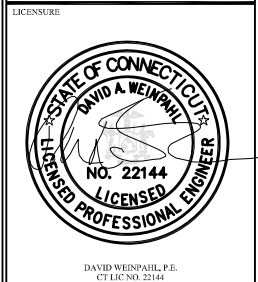
SITE NAME:
WINDSOR LOCKS NE CT

SBA SITE # CT22108
4 VOLUNTEER DR.
WINDSOR LOCKS, CT 06096

ANTENNA MODIFICATION

verizon
WIRELESS COMMUNICATIONS FACILITY
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

On Air Engineering, LLC
88 Foundry Pond Road
Cold Spring, NY 10516
201-456-4624
onair@optonline.net



SUBMITTALS	
NO.	DESCRIPTION
0	03/04/21 REVIEW
1	05/20/21 REVISED PER MOUNT ANALYSIS & MODS

DRAWN BY:	AS
CHECKED BY:	DW

PROJECT NAME:
**MT6407-850-LTE
DESIGN EXHIBITS**

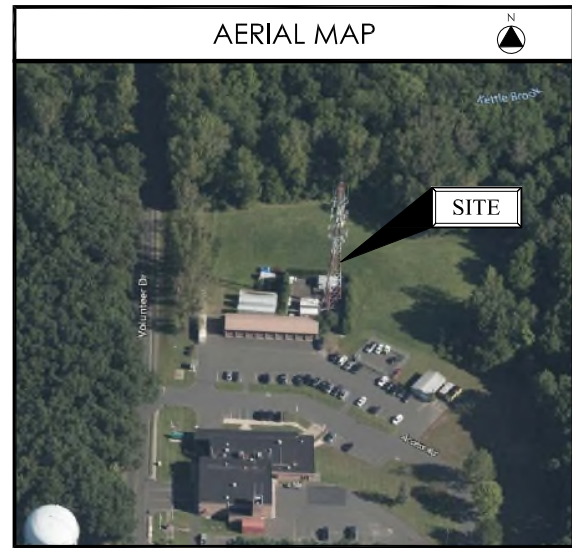
SITE NAME:
WINDSOR LOCKS NE CT

SITE ADDRESS:
SBA SITE # CT22108
4 VOLUNTEER DR.
WINDSOR LOCKS, CT 06096

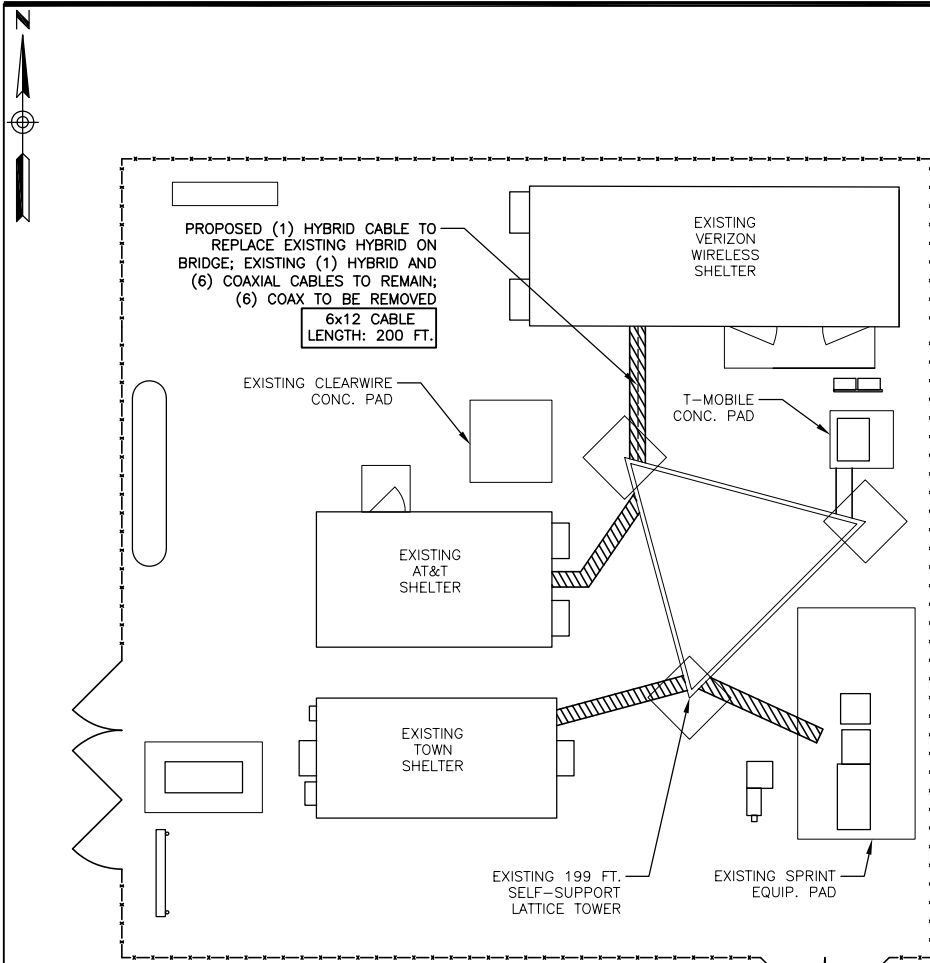
SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
DE-1

PROJECT SUMMARY	
SITE NAME:	WINDSOR LOCKS NE CT
SITE ADDRESS:	4 VOLUNTEER DR. WINDSOR LOCKS, CT 06096
PROPERTY OWNER:	TOWN OF WINDSOR LOCKS 50 CHURCH ST. WINDSOR LOCKS, CT 06096
TOWER OWNER/MGMT:	SBA SITE # CT22108
PARCEL ID:	034-062-080
COORDINATES:	41° 55' 41.1816" N 72° 38' 48.3792" W
VERIZON CONSTRUCTION:	WALTER CHARCZYNSKI (860) 306-1806
VERIZON REAL ESTATE:	ALEX TYURIN (860) 550-3195

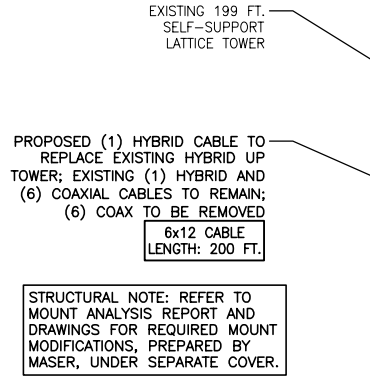
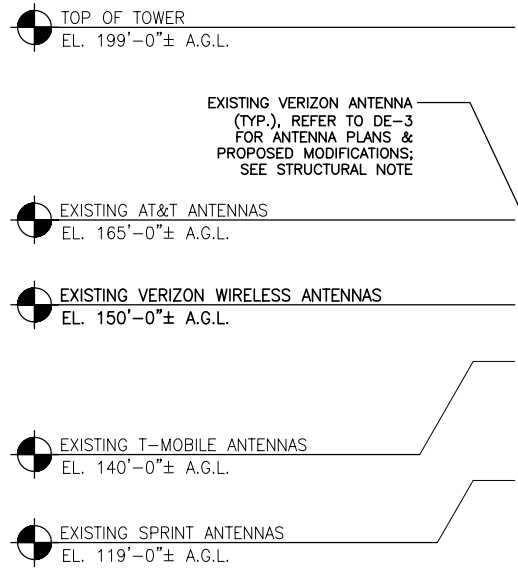


SHEET INDEX	
DE-1	TITLE SHEET
DE-2	COMPOUND PLAN & ELEVATION
DE-3	ANTENNA PLANS & ELEVATION
DE-4	RF PLUMBING DIAGRAM & B.O.M.
DE-5	GENERAL CONSTRUCTION NOTES



1
DE-2
COMPOUND PLAN
Scale: 3/32" = 1'-0"

NOTES:
 1. COMPOUND PLAN IS COMPILED FROM EXISTING DRAWINGS ON FILE WITH THE CT SITING COUNCIL AND A LIMITED DESIGN VISIT ON 11-18-20 FOR A PROPOSED VERIZON ANTENNA MODIFICATION.
 2. PLANS ARE DIAGRAMMATIC ONLY AND NOT TO BE SCALED.
 3. REFER TO STRUCTURAL TOWER AND MOUNT ANALYSIS REPORTS, BY OTHERS UNDER SEPARATE COVER, FOR ANY REQUIRED TOWER & MOUNT REINFORCEMENTS, WHICH MUST BE PERFORMED PRIOR TO ANY OTHER VERIZON ANTENNA MODIFICATIONS.



2
DE-2
ELEVATION
Scale: NTS

NOTE: GROUND EQUIPMENT NOT SHOWN FOR CLARITY

verizon
 WIRELESS COMMUNICATIONS FACILITY
 20 ALEXANDER DRIVE
 WALLINGFORD, CT 06492

On Air Engineering, LLC
 88 Foundry Pond Road
 Cold Spring, NY 10516
 201-456-4624
 onair@optonline.net

LICENSEURE

DAVID WEINHART, P.E.
 CT LIC NO. 22144

SUBMITTALS	
0	03.04.21 REVIEW
1	05.20.21 REVISED PER MOUNT ANALYSIS & MODS

NO.	DATE	DESCRIPTION

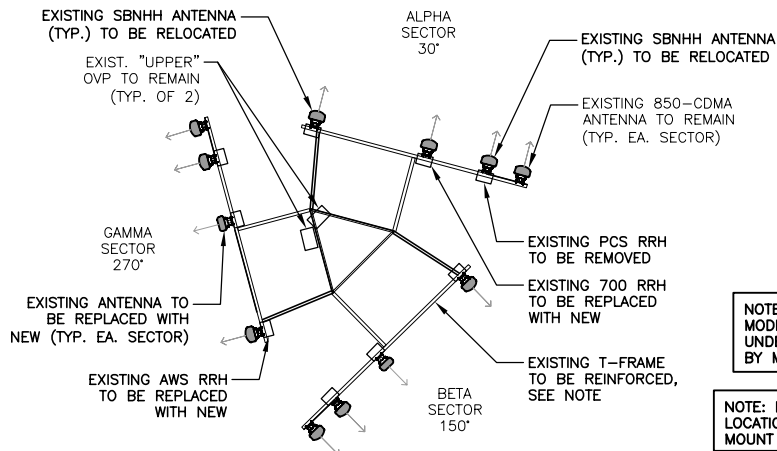
DRAWN BY: AS
 CHECKED BY: DW
 PROJECT NAME:
**MT6407-850-LTE
 DESIGN EXHIBITS**

SITE NAME:
WINDSOR LOCKS NE CT

SITE ADDRESS:
**SBA SITE # CT22108
 4 VOLUNTEER DR.
 WINDSOR LOCKS, CT 06096**

SHEET TITLE:
**COMPOUND PLAN
 & ELEVATION**

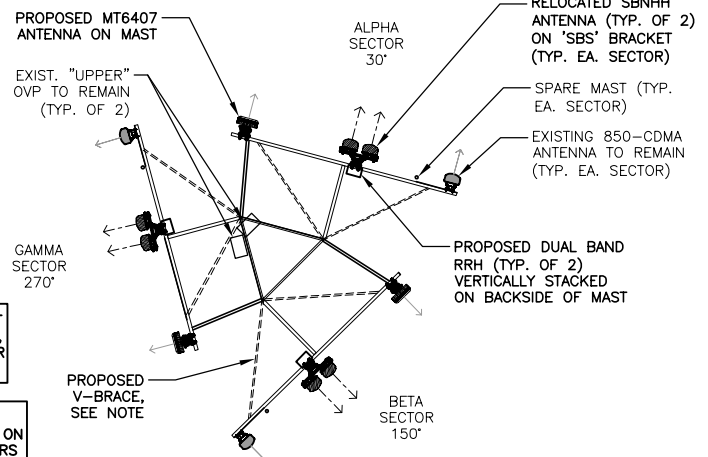
SHEET NUMBER:
DE-2



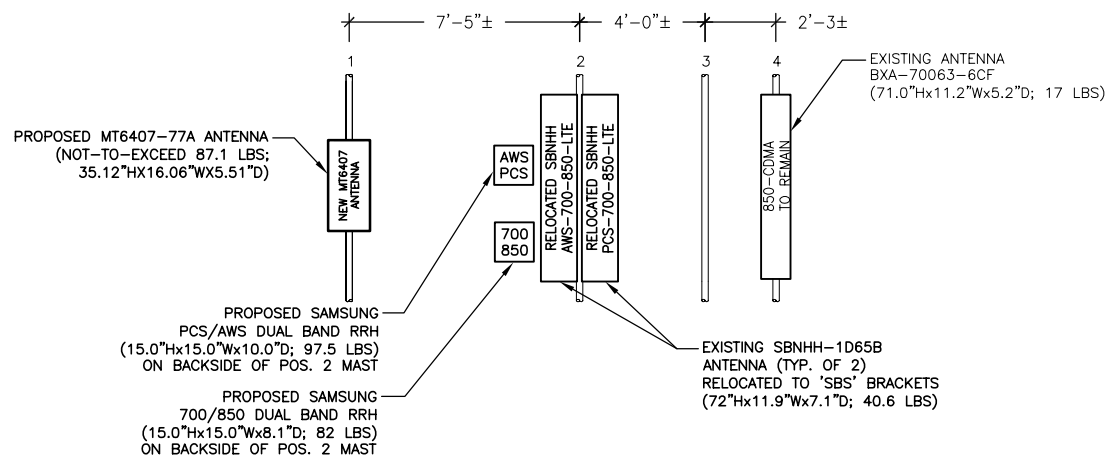
1 ANTENNA PLAN @ 150 FT. - EXISTING
DE-3 Scale: 1/8" = 1'-0"

NOTE: REFER TO MOUNT MODIFICATION DRAWINGS, UNDER SEPARATE COVER BY MASER CONSULTING

NOTE: NEW DUAL RRH LOCATIONS SHOWN BASED ON MOUNT ANALYSIS BY OTHERS



2 ANTENNA PLAN @ 150 FT. - PROPOSED
DE-3 Scale: 1/8" = 1'-0"



3 ANTENNA ELEVATION (TYP.) - PROPOSED
DE-3 Scale: 1/4" = 1'-0"



WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



88 Foundry Pond Road
Cold Spring, NY 10516
201-456-4624
onair@optonline.net

LICENSURE



DAVID WEINPAAL, P.E.
CT LIC NO. 22144

SUBMITTALS	
NO	DATE
0	03.04.21
1	05.20.21

NO	DATE	DESCRIPTION

DRAWN BY: AS
CHECKED BY: DW
PROJECT NAME:
**MT6407-850-LTE
DESIGN EXHIBITS**

SITE NAME:
WINDSOR LOCKS NE CT

SITE ADDRESS:
**SBA SITE # CT22108
4 VOLUNTEER DR.
WINDSOR LOCKS, CT 06096**

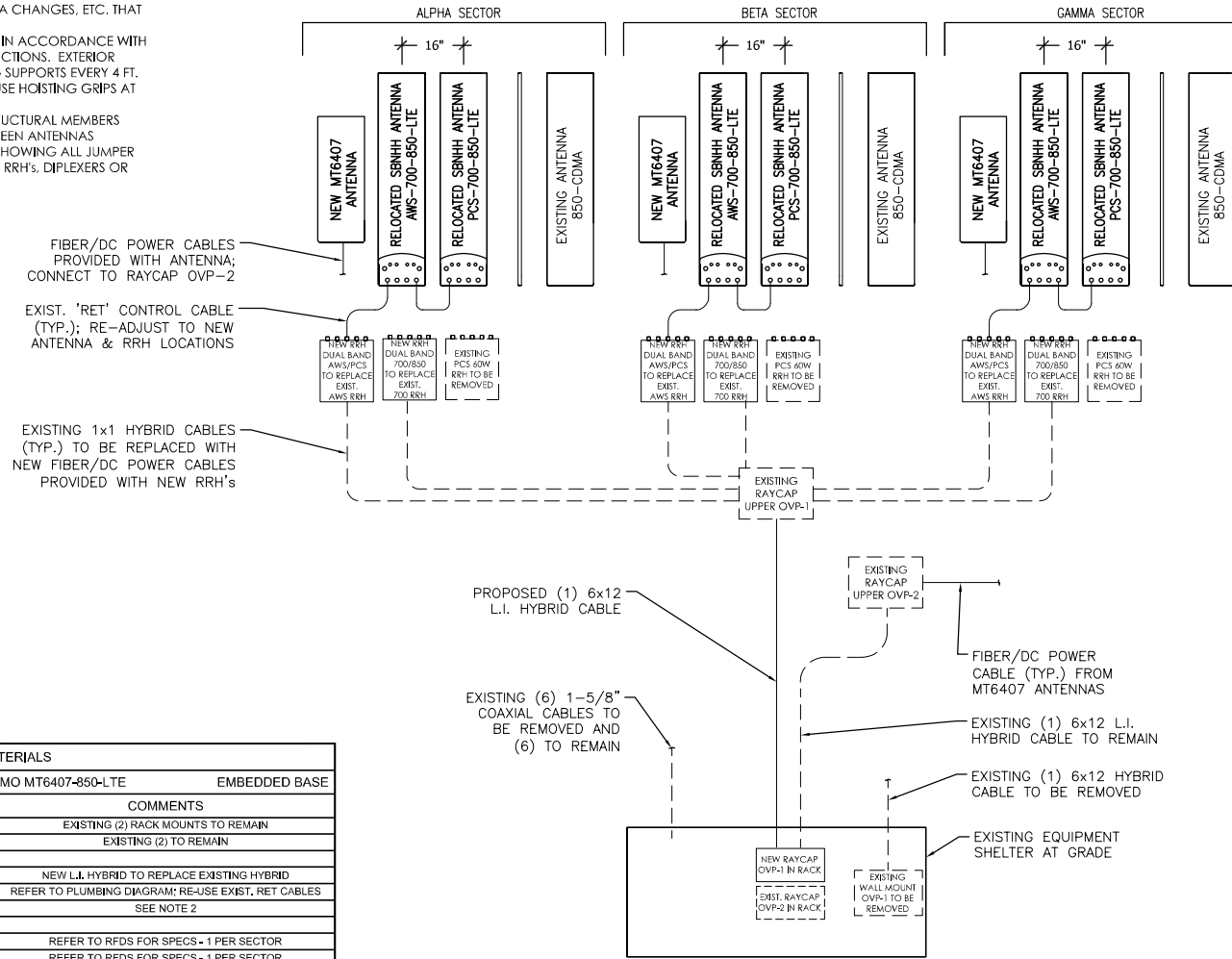
SHEET TITLE:
**ANTENNA PLANS
& ELEVATION**

SHEET NUMBER:
DE-3

GENERAL NOTES:

1. CONTRACTOR SHALL REFER TO THE LATEST VERIZON WIRELESS RFDS WHICH MAY INCLUDE ANTENNA SECTOR AZIMUTHS/ANTENNA CHANGES, ETC. THAT ARE REQUIRED AS PART OF THE PROJECT.
2. CONTRACTOR SHALL SECURE ALL CONTROL CABLES IN ACCORDANCE WITH INDUSTRY STANDARDS AND MANUFACTURERS INSTRUCTIONS. EXTERIOR CABLES MAY BE TAPED OR TIE-WRAPPED TO EXISTING SUPPORTS EVERY 4 FT. MAX. FOR HORIZONTAL RUNS. CONTRACTOR MAY USE HOISTING GRIPS AT TOP OF VERTICAL CABLE RUNS WHEN REQUIRED.
3. ALL CABLES SHALL BE ROUTED AND SECURED ON STRUCTURAL MEMBERS ONLY - DO NOT "LOOP" THE CABLES IN MID-AIR BETWEEN ANTENNAS
4. REFER TO RFDS FOR DETAILED PLUMBING DIAGRAM SHOWING ALL JUMPER AND OTHER CABLING CONNECTIONS AT ANTENNAS, RRH's, DIPLEXERS OR OTHER DEVICES.

NOTE: ALL ANTENNAS VIEWED FROM REAR



BILL OF MATERIALS			
DESCRIPTION	QTY	LENGTH	COMMENTS
LOWER OVP	-	-	EXISTING (2) RACK MOUNTS TO REMAIN
6-CKT, UPPER OVP	-	-	EXISTING (2) TO REMAIN
6x12 HYBRID CABLE	1	200 FT.	NEW L.I. HYBRID TO REPLACE EXISTING HYBRID
RET CONTROL CABLE	-	-	REFER TO PLUMBING DIAGRAM; RE-USE EXIST, RET CABLES
1/2" JUMPERS	-	-	SEE NOTE 2
AWS/PCS DUAL BAND RRH	3	-	REFER TO RFDS FOR SPECS - 1 PER SECTOR
700/850 DUAL BAND RRH	3	-	REFER TO RFDS FOR SPECS - 1 PER SECTOR
MT6407 ANTENNA	3	-	SAMSUNG INTEGRATED; REFER TO RFDS - 1 PER SECTOR
SBNHH ANTENNA - AWS/700/850-LTE	-	-	RELOCATE EXISTING TO NEW 'SBS' BRACKET (EACH SECTOR)
SBNHH ANTENNA - PCS/700/850-LTE	-	-	RELOCATE EXISTING TO NEW 'SBS' BRACKET (EACH SECTOR)
SBS BRACKETS	3	-	REFER TO RFDS FOR SPECS - 1 PER SECTOR
850-CDMA ANTENNA	-	-	EXISTING (3) TO REMAIN - 1 PER SECTOR

- NOTES:
1. ITEMS SHOWN ARE FOR MAJOR DESIGN ELEMENTS ONLY. REFER TO VERIZON WIRELESS RFDS FOR ALL MANUFACTURER PART NUMBERS AND ACCESSORY ITEMS REQUIRED FOR A COMPLETE INSTALLATION.
 2. CONTRACTOR SHALL DETERMINE AND PROVIDE ALL REQUIRED PRE-FAB JUMPER QUANTITIES AND LENGTHS, KEEPING ALL LENGTHS TO A MINIMUM.

1 RF PLUMBING DIAGRAM
DE-4 Scale: N.T.S.

verizon
WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

On Air Engineering, LLC
88 Foundry Pond Road
Cold Spring, NY 10516
201-456-4624
onair@optonline.net

LICENSEE

DAVID WEINPAAL, P.E.
CT LIC NO. 22144

SUBMITTALS

0	03.04.21	REVIEW
1	05.20.21	REVISED PER MOUNT ANALYSIS & MODS

NO. DATE DESCRIPTION

DRAWN BY: AS
CHECKED BY: DW

PROJECT NAME:
**MT6407-850-LTE
DESIGN EXHIBITS**

SITE NAME:
WINDSOR LOCKS NE CT

SITE ADDRESS:
**SBA SITE # CT22108
4 VOLUNTEER DR.
WINDSOR LOCKS, CT 06096**

SHEET TITLE:
**RF PLUMBING
DIAGRAM & B.O.M.**

SHEET NUMBER:
DE-4

GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL NOT COMMENCE ANY WORK UNTIL HE OBTAINS, AT HIS OWN EXPENSE, ALL INSURANCE REQUIRED BY *CELLCO PARTNERSHIP d/b/a VERIZON, THE PROPERTY OWNER AND/OR PROPERTY MANAGEMENT COMPANY.*
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS AND ALL LOCAL LAWS AND REGULATIONS, CURRENT EDITIONS.
3. CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS AT THE SITE PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA AND SUBMIT TO THE ENGINEER ANY DISCREPANCIES FROM THE DRAWINGS.
5. CONTRACTOR IS TO REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUB-CONTRACTORS AND ALL RELATED PARTIES. THE SUB-CONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
6. CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL AND ELECTRICAL COMPONENTS AND PROVIDE ALL ITEMS AS SHOWN OR INDICATED ON DRAWINGS OR WRITTEN IN SPECIFICATIONS.
7. CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
8. CONTRACTOR SHALL OBTAIN AT HIS OWN EXPENSE ALL PERMITS AND ALL INSPECTIONS REQUIRED FROM FEDERAL AND STATE GOVERNMENTS, COUNTIES, MUNICIPALITIES AND OTHER REGULATORY AGENCIES WHICH MAY BE REQUIRED FOR THE PROJECT.
10. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
11. ALL MATERIAL PROVIDED BY *CELLCO PARTNERSHIP d/b/a VERIZON IS TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUB-CONTRACTOR PRIOR TO INSTALLATION. ANY DEFICIENCIES TO PROVIDED MATERIALS SHALL BE BROUGHT TO THE CONSTRUCTION MANAGERS ATTENTION IMMEDIATELY.*
12. THE MATERIALS INSTALLED IN THE WORK SHALL MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. NO SUBSTITUTIONS ARE ALLOWED.
13. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION, FOR SEQUENCES AND PROCEDURES TO BE USED, AND TO ENSURE THE SAFETY OF THE EXISTING BUILDING AND ITS COMPONENT DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY.
14. CONTRACTOR SHALL COORDINATE ALL CIVIL, STRUCTURAL AND ELECTRICAL DRAWINGS FOR THE LOCATION OF ALL OPENINGS, RECESSES, BUILT-IN WORK, ETC.
15. CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
16. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ALL PRODUCTS OR ITEMS NOTED AS "EXISTING" WHICH ARE NOT FOUND TO BE IN THE FIELD.

17. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST-ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS, AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL O.S.H.A REQUIREMENTS.
19. CONTRACTOR SHALL COORDINATE HIS WORK AND SCHEDULE HIS ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROPERTY OWNER AND/OR PROPERTY MANAGEMENT COMPANY.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.
21. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OR WHERE LOCAL CODES OR REGULATIONS MAY TAKE PRECEDENCE.
22. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SURFACES, EQUIPMENT, IMPROVEMENTS, PIPING, ANTENNA AND ANTENNA CABLES AND REPAIR ANY DAMAGE THAT OCCURS DURING CONSTRUCTION.
23. CONTRACTOR SHALL REPAIR ALL EXISTING SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND WITH ADJACENT SURFACES.
24. CONTRACTOR SHALL KEEP CONTRACT AREA CLEAN, HAZARD FREE AND DISPOSE OF ALL DEBRIS AND RUBBISH. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE PREMISES IN CLEAN CONDITIONS AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
25. BEFORE FINAL ACCEPTANCE OF THE WORK, CONTRACTOR SHALL REMOVE ALL EQUIPMENT, TEMPORARY WORKS, UNUSED AND USELESS MATERIALS, RUBBISH AND TEMPORARY STRUCTURES.




WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



88 Foundry Pond Road
Cold Spring, NY 10516
201-456-4624
onair@optonline.net

LICENSURE



DAVID WEINHALL, P.E.
CT LIC NO. 22144

SUBMITTALS		
0	03/04/21	REVIEW
1	05/20/21	REVISED PER MOUNT ANALYSIS & MODS

NO.	DATE	DESCRIPTION
DRAWN BY:	AS	
CHECKED BY:	DW	

PROJECT NAME:

**MT6407-850-LTE
DESIGN EXHIBITS**

SITE NAME:

WINDSOR LOCKS NE CT

SITE ADDRESS:

**SBA SITE # CT22108
4 VOLUNTEER DR.
WINDSOR LOCKS, CT 06096**

SHEET TITLE:

**GENERAL
CONSTRUCTION
NOTES**

SHEET NUMBER:

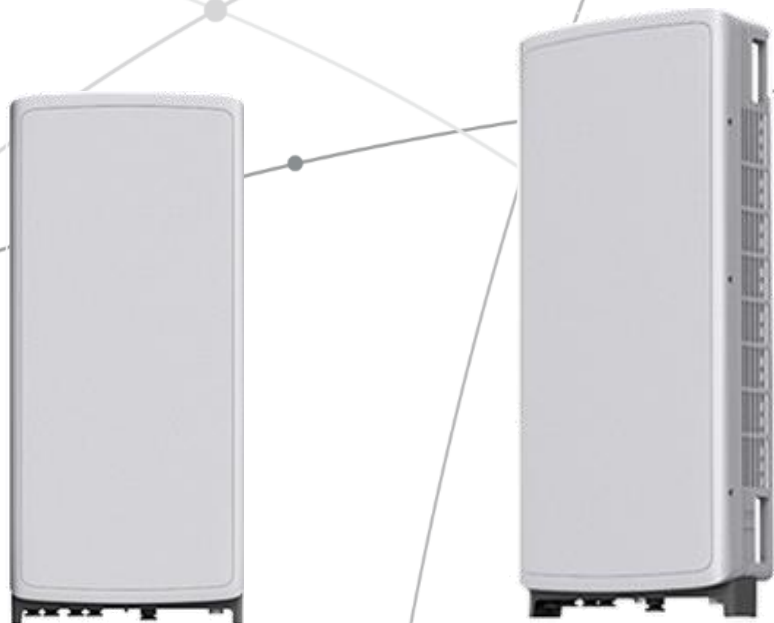
DE-5

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



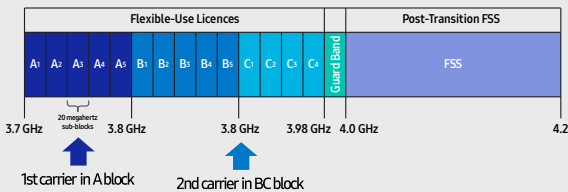
Points of Differentiation

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

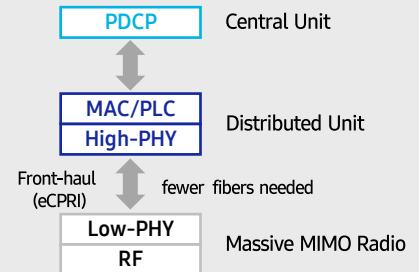
C-Band spectrum supported by Massive MIMO Radio



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.

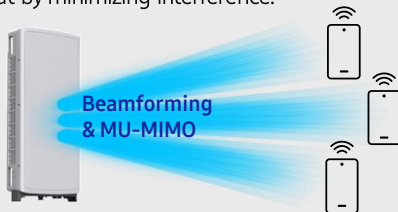


Enhanced Performance

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.

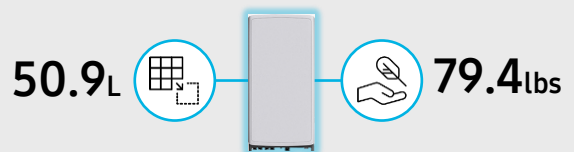
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



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 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

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

ATTACHMENT 3

	General	Power	Density					
Site Name: Windsor Lock NE								
Tower Height: Verizon @ 150ft								
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	FREQ.	CALC. POWER DENS	MAX. PERMISS.E XP.	FRACTION MPE	Total
*AT&T	4	4562	164	1900	0.2629	1.0000	2.63%	
*AT&T	4	2600	164	2300	0.1498	1.0000	1.50%	
*AT&T	4	2394	164	700	0.1379	0.4667	2.96%	
*AT&T	4	2394	164	700	0.1379	0.4667	2.96%	
*AT&T	4	2813	164	850	0.1621	0.5667	2.86%	
*AT&T	4	4562	164	1900	0.2629	1.0000	2.63%	
*T-Mobile	4	1028	135	1900	0.0889	1.0000	0.89%	
*T-Mobile	2	2057	135	1900	0.0889	1.0000	0.89%	
*T-Mobile	2	2308	135	2100	0.0998	1.0000	1.00%	
*T-Mobile	2	592	135	600	0.0256	0.4000	0.64%	
*T-Mobile	1	1578	135	600	0.0341	0.4000	0.85%	
*T-Mobile	2	649	135	700	0.0281	0.4667	0.60%	
*T-Mobile	2	2204	135	1900	0.0953	1.0000	0.95%	
*T-Mobile	1	11045	135	2500	0.2387	1.0000	2.39%	
*T-Mobile	1	1074	135	2500	0.0232	1.0000	0.23%	
*T-Mobile	1	22089	135	2500	0.4774	1.0000	4.77%	
*T-Mobile	1	2148	135	2500	0.0464	1.0000	0.46%	
*Clearwire antennas	2	153	109	2496	0.0104	1.0000	0.10%	
*Clearwire microwave dishes	1	211	109	11 GHz	0.0072	1.0000	0.07%	
*Clearwire microwave dishes	1	211	109	11 GHz	0.0072	1.0000	0.07%	
*Clearwire microwave dishes	1	211	109	11 GHz	0.0072	1.0000	0.07%	
*Sprint	1	438	115	850	0.0133	0.5667	0.23%	
*Sprint	2	438	115	850	0.0265	0.5667	0.47%	
*Sprint	5	623	115	1900	0.0943	1.0000	0.94%	
*Sprint	2	1556	115	1900	0.0942	1.0000	0.94%	
*Sprint	8	778	115	2500	0.1884	1.0000	1.88%	
*Windsor Fire Dept			180	170.15	0.0033	0.2000	0.17%	
*Windsor Fire Dept			180	155.61	0.0044	0.2000	0.22%	
*Windsor Fire Dept			180	155.085	0.0044	0.2000	0.22%	
*Windsor Fire Dept			180	153.935	0.0011	0.2000	0.06%	
*Windsor Fire Dept			180	154.115	0.0027	0.2000	0.13%	
*Windsor Fire Dept			180	155.205	0.0027	0.2000	0.13%	
*Windsor Fire Dept			180	33.94	0.0012	0.2000	0.06%	
*Windsor Fire Dept			180	154.265	0.0089	0.2000	0.44%	
VZW 700	4	682	150	751	0.0044	0.5007	0.87%	
VZW CDMA	2	499	150	869	0.0016	0.5793	0.28%	
VZW Cellular	4	816	150	869	0.0052	0.5793	0.90%	
VZW PCS	4	1493	150	1975	0.0095	1.0000	0.95%	
VZW AWS	4	1502	150	2120	0.0096	1.0000	0.96%	
VZW CBAND	4	6531	150	3730.08	0.0418	1.0000	4.18%	
								43.57%
* Source: Siting Council								

ATTACHMENT 4



Tower Engineering Solutions

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

Structural Analysis Report

Existing 195 ft PIROD Self Supporting Tower

Customer Name: SBA Communications Corp

Customer Site Number: CT22108-A

Customer Site Name: Windsor Locks @ Volunteer Drive

Carrier Name: Verizon (App#: 159334-4)

Carrier Site ID / Name: PSLC 467225 / Windsor_Locks_NE_CT

Site Location: 2-4 Volunteer Drive

Windsor Locks, Connecticut

HARTFORD County

Latitude: 41.928100

Longitude: -72.646800

Analysis Result:

Max Structural Usage: 97.8% [Pass]

Max Foundation Usage: 57.0% [Pass]

Additional Usage Caused by New Mount/Mount Modification: +3.7%



10/4/21

Report Prepared By: Mohammed Al Rubaye



Tower Engineering Solutions

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

Structural Analysis Report

Existing 195 ft PIROD Self Supporting Tower

Customer Name: SBA Communications Corp

Customer Site Number: CT22108-A

Customer Site Name: Windsor Locks @ Volunteer Drive

Carrier Name: Verizon (App#: 159334-4)

Carrier Site ID / Name: PSLC 467225 / Windsor_Locks_NE_CT

Site Location: 2-4 Volunteer Drive

Windsor Locks, Connecticut

HARTFORD County

Latitude: 41.928100

Longitude: -72.646800

Analysis Result:

Max Structural Usage: 97.8% [Pass]

Max Foundation Usage: 57.0% [Pass]

Additional Usage Caused by New Mount/Mount Modification:

Report Prepared By: Mohammed Al Rubaye

Introduction

The purpose of this report is to summarize the analysis results on the 195 ft PIROD Self Supporting Tower to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Tower Drawings	PiROD Eng. File #A-115761-1, Archive #F-0078802, dated 10/06/00
Foundation Drawing	PiROD Eng. File #A-115761-1, Archive #F-0078802, dated 10/06/00
Geotechnical Report	Tectonic Engineering Consultants W.O. #2295 01, dated 05/18/99
Modification Drawings	
Mount Analysis	Maser Consulting Connecticut Project #: 20777395A. dated April 13, 2021
Mount Modification Drawings	Maser Consulting Connecticut Project #: 20777395A, Dated April 12, 2021

Analysis Criteria

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

Wind Speed Used in the Analysis:	Ultimate Design Wind Speed $V_{ult} = 125.0$ mph (3-Sec. Gust)/ Nominal Design Wind Speed $V_{asd} = 97.0$ mph (3-Sec. Gust)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 1" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-G-2 / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	
Structure Class:	
Topographic Category:	
Crest Height:	0 ft

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

Existing Antennas, Mounts and Transmission Lines

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

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
			Andrew - DB224-A	Direct		
			Andrew - 20' Dipoles w/ (4) Element	(3) T-Frame		
			2.5" Ø x 20.0' Omni			
			1.3" Ø x 13.0' Omni			
			1.3" Ø x 10.0' Omni			
		3	CCI - TPA-65R-LCUUUU-H8 - Panel	(3) Modified Sector Frame with new standoff 2" and 3" SCH.40 pipes at each sector and 3" SCH. 40 vertical pipe per sector	Conduit** Conduit**	
			CCI - TPA65R-BU8D - Panel			
			Powerwave LGP21401 TMA			
		3	Kaelus DBCT108F1V92-1 Diplexer			
			Kathrein 860 10025 RET			
			Ericsson RRUS 32 B30			
			Ericsson 4449 B5/B12			
			Ericsson RRUS 8843 B2 B66A			
			Ericsson RRUS 4478 B14			
			Raycap DC6-48-60-18-8F - OVP			
			Raycap - RRFDC-3315-PF-48 –	Direct		
			6.0' x 1.0' x 6.5" Panel	(3) T-Frame		Verizon
			Amphenol - BXA-70063/6CF-EDIN - Panel			
			Antel - BXA-171063-12CF-EDIN-5 - Panel			
			Alcatel-Lucent - 9442 RRH2x40			
			Ericsson - AIR32 KRD901146-1_B66A (Octa) - Panel	(3) T-Frame w/ Mods (Replace Existing Pipe mast w/ new 2-1/2" std. (2.88" OD) steel pipe mast secured to the existing mount (typ. Of 1 per sector, total of 3); Secure the existing and proposed pipe masts to the existing mount with a minimum of two points of connection (typ. Of 3 per sector, total of 9))	(3) 1 1/4" Hybrid	T-Mobile
			Panel			
			(Octa) - Panel			
			Ericsson - KRY 112 144/2 - TMA			
			Ericsson - Radio 4449 B71 + B12 -			
			RFS - APXVSP18-C-A20 - Panel	(3) T-Frame	(4) 1-1/4" Fiber	Sprint Nextel
			RFS - APXVTM14-C-I20 - Panel			
			Alcatel-Lucent - TD-RRH8x20-25 -			
			Alcatel-Lucent - 800 MHz RRH	Direct		
			Alcatel-Lucent - 1900 MHz RRH	Direct		

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
			Andrew - 3.3' Dish	(3) Standoffs	Conduit	Clearwire
			Andrew - VHLP1-23-DW1			
			Argus - LLPX310R-V1 - Panel			
			Alcatel-Lucent - SPI-22132825WB - 12" x 12" x 6.38" Junction Box	Direct		
			3.5" Ø x 8" GPS	(1) Standoff		Unknown
				Direct		Sprint Nextel

*Inside (1) 3" Conduit

3" (housing (2) 0.78" DC Power & (1) 0.39" Fiber).

2" (housing (2) 0.78" DC Power & (1) 0.39" Fiber)

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

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

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
			Amphenol BXA-70063-6CF-5 - Panel	(3) Sector Frames w/ Mods [(24) Site Pro VZWSMART-MSK1 Cross Plates, (9) Site Pro VZWSMART-SFK3 V- BRACING KIT & (6) 156" LONG, P2.5 STD Galvanized]	(2) 1 5/8" Hybrid (12) 1 5/8" Coax	Verizon
			Commscope SBNHH-1D65B - Panel			
			Samsung MT6407-77A - Panel			
			RFS FD9R6004/2C-3L Diplexer			
			Samsung LTE AWS/PCS RFV01U-D1A -			
			Samsung LTE 700/850 MHz RFV01U-			
			RFS DB-T1-6Z-8AB-OZ - DC Surge Suppressors			

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

Analysis Results

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

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

Foundations

	Compression (Kips)	Uplift (Kips)
Original Design Reactions		
Analysis Reactions		
Factored Reactions*		
% of Design Reactions		

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

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

Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 0.2634 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

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

Standard Conditions

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

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

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

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

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

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

Structure: CT22108-A-SBA

Site Name: Windsor Locks @ Volunteer Drive	Code: EIA/TIA-222-G	10/4/2021
Type: Self Support	Base Shape: Triangle	Basic WS: 97.00
Height: 195.00 (ft)	Base Width: 20.00	Basic Ice WS: 50.00
Base Elev: 5.00 (ft)	Top Width: 4.50	Operational WS: 60.00



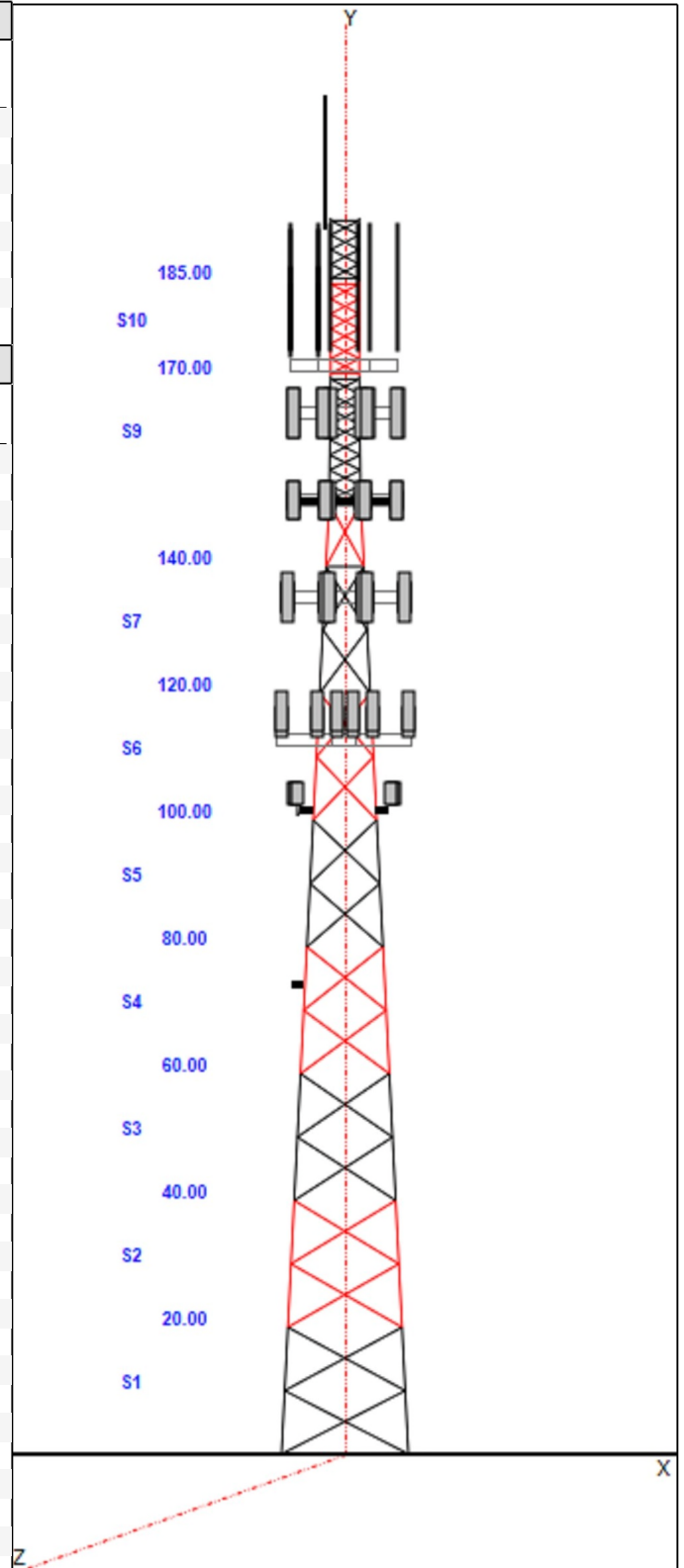
Page: 1

Section Properties

Sect	Leg Members	Diagonal Members	Horizontal Members
1-2	12B 12"BD 2.25"	SAE 3.5X3.5X0.3125	
3-4	12B 12"BD 2"	SAE 3X3X0.3125	
5	12B 12"BD 1.75"	SAE 3X3X0.3125	
6	12B 12"BD 1.75"	SAE 3X3X0.1875	
7	12B 12"BD 1.5"	SAE 2.5X2.5X0.1875	SAE 2.5X2.5X0.1875
8	12B 12"BD 1.25"	SAE 2.5X2.5X0.1875	
9	SOL 2" SOLID	SOL 7/8" SOLID	SOL 1" SOLID
10-11	SOL 1 3/4" SOLID	SOL 3/4" SOLID	SOL 7/8" SOLID

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description
195.00	195.00	1	Lightning Rod
195.00	195.00	1	Beacon
195.00	203.40	1	Andrew - DB224-A
171.50	171.50	3	15' T-Frame
171.50	183.70	5	Andrew - 20' Dipoles w/ (4) Element
171.50	182.80	1	2.5" Ø x 20.0' Omni
171.50	180.60	1	1.3" Ø x 13.0' Omni
171.50	179.10	1	1.3" Ø x 10.0' Omni
164.00	164.00	3	T-Frame
164.00	164.00	1	Mount Mods
164.00	164.00	3	TPA-65R-LCUUUU-H8
164.00	164.00	6	TPA65R-BU8D
164.00	164.00	3	Powerwave LGP21401 TMA
164.00	164.00	3	Kaelus DBCT108F1V92-1 Diplexer
164.00	164.00	6	Kathrein 860 10025 RET
164.00	164.00	3	RRUS 32 B30
164.00	164.00	3	Ericsson 4449 B5/B12
164.00	164.00	3	Ericsson RRUS 8843 B2 B66A
164.00	164.00	3	Ericsson RRUS 4478 B14
164.00	164.00	2	Raycap DC6-48-60-18-8F
150.00	150.00	2	(3) 12.5' - 2.5" Horizontal Pi
150.00	150.00	3	(3) SFS-H (V-Braces)
150.00	150.00	3	Sector Frame
150.00	150.00	3	Amphenol - BXA-70063/6CF-EDIN
150.00	150.00	6	Commscope SBNHH-1D65B
150.00	150.00	3	Samsung MT6407-77A
150.00	150.00	6	RFS FD9R6004/2C-3L Diplexer
150.00	150.00	3	Samsung LTE AWS/PCS RFV01U-D1A
150.00	150.00	3	Samsung LTE 700/850 MHz RFV01U
150.00	150.00	2	RFS DB-T1-6Z-8AB-0Z
135.00	135.00	3	APX16DWV-16DWV-S-E-A20
135.00	135.00	3	Sector Frame
135.00	135.00	3	APXVAARR24_43-U-NA20 (Octa)
135.00	135.00	3	AIR32 KRD901146-1_B66A (Octa)
135.00	135.00	6	Ericsson KRY 112 144/2 TMA
135.00	135.00	3	Ericsson - Radio 4449 B71 + B12
135.00	135.00	1	New T-arms Mods1
112.30	112.30	3	Sector Frame-Pipe/Rod
112.30	116.80	3	RFS - APXVSPP18-C-A20
112.30	115.00	3	RFS - APXVTM14-C-I20
112.30	115.00	3	Alcatel-Lucent - TD-RRH8x20-25 - RRH



Structure: CT22108-A-SBA

Site Name: Windsor Locks @ Volunteer Drive	Code: EIA/TIA-222-G	10/4/2021
Type: Self Support	Base Shape: Triangle	Basic WS: 97.00
Height: 195.00 (ft)	Base Width: 20.00	Basic Ice WS: 50.00
Base Elev: 5.00 (ft)	Top Width: 4.50	Operational WS: 60.00



Page: 2

110.30	110.30	3	Alcatel-Lucent - 800 MHz RRH
107.60	107.60	3	Alcatel-Lucent - 1900 MHz RRH
102.40	102.40	1	12" x 12" x 6.38" Junction Box
101.40	101.40	3	Standoffs
101.40	104.60	1	Andrew - 3.3' Dish
101.40	104.00	1	Andrew - VHLP1-23-DW1
101.40	104.00	3	Argus - LLPX310R-V4
101.40	103.80	3	Alcatel-Lucent - SPI-22132825WB
74.00	75.90	1	3.5" Ø x 8" GPS
74.00	74.00	1	Standoff
60.00	60.00	1	PCTEL - GPS-TMG-HR-26N - GPS

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Qty	Description
0.00	195.00	1	7/8" Coax
0.00	171.50	8	7/8" Coax
0.00	164.00	9	1 5/8" Coax
0.00	164.00	1	2" Conduit
0.00	164.00	1	3" Conduit
0.00	150.00	6	1 5/8" Coax
0.00	150.00	6	1 5/8" Coax
0.00	150.00	2	1 5/8" Hybrid
0.00	135.00	15	1 5/8" Coax
0.00	135.00	3	1-1/4" Hybrid
0.00	125.00	1	W/G Ladder
0.00	112.30	4	1-1/4" Fiber
0.00	101.40	1	1-5/16" Conduit
0.00	101.40	2	1/2" Coax
0.00	74.00	1	1/2" Coax
0.00	60.00	1	1/2" Coax

Base Reactions

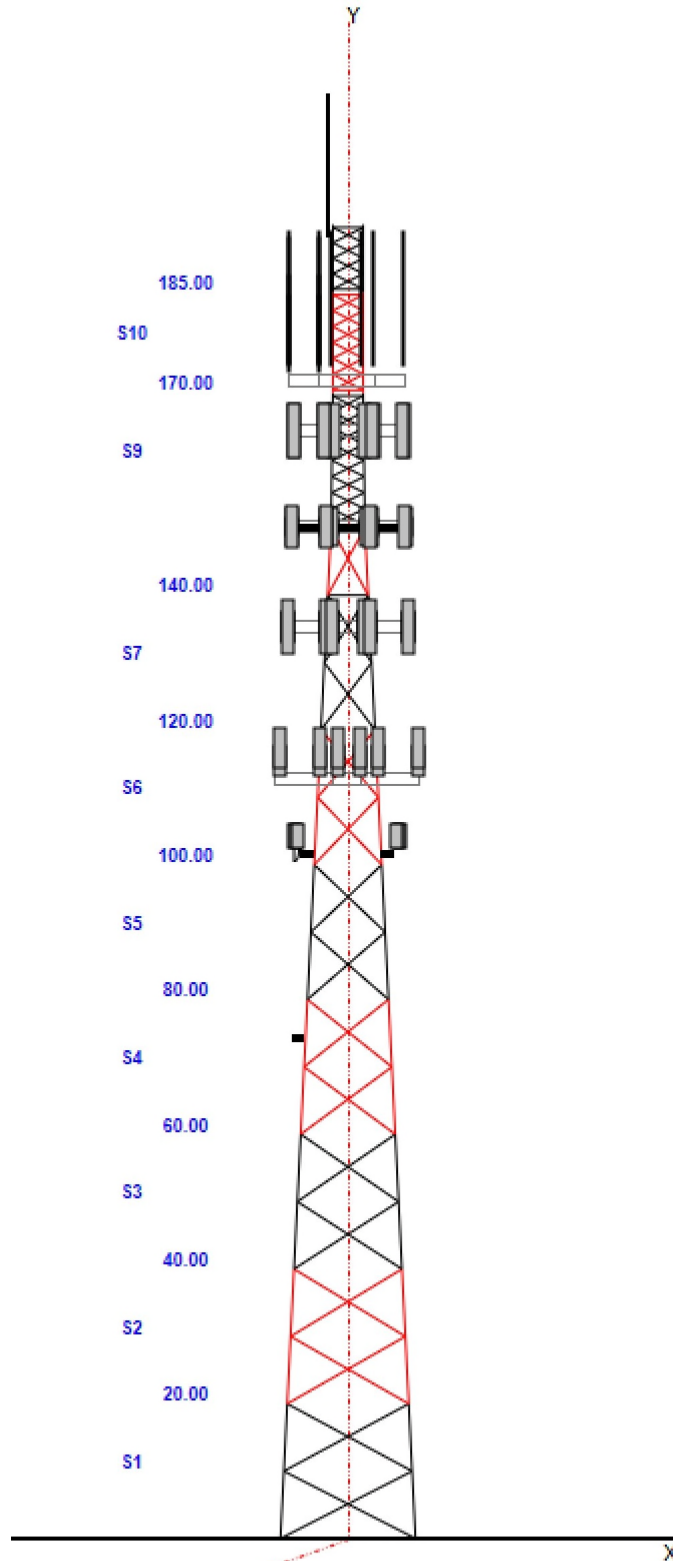
Leg	Overturning
Max Uplift: -333.43 (kips)	Moment: 6263.98 (ft-kips)
Max Down: 382.89 (kips)	Total Down: 63.71 (kips)
Max Shear: 38.05 (kips)	Total Shear: 58.77 (kips)

Structure: CT22108-A-SBA

Site Name: Windsor Locks @ Volunteer Drive
Type: Self Support
Height: 195.00 (ft)
Base Elev: 5.00 (ft)

Code: EIA/TIA-222-G
Base Shape: Triangle
Basic WS: 97.00
Basic Ice WS: 50.00
Operational WS: 60.00

10/4/2021
Page: 3



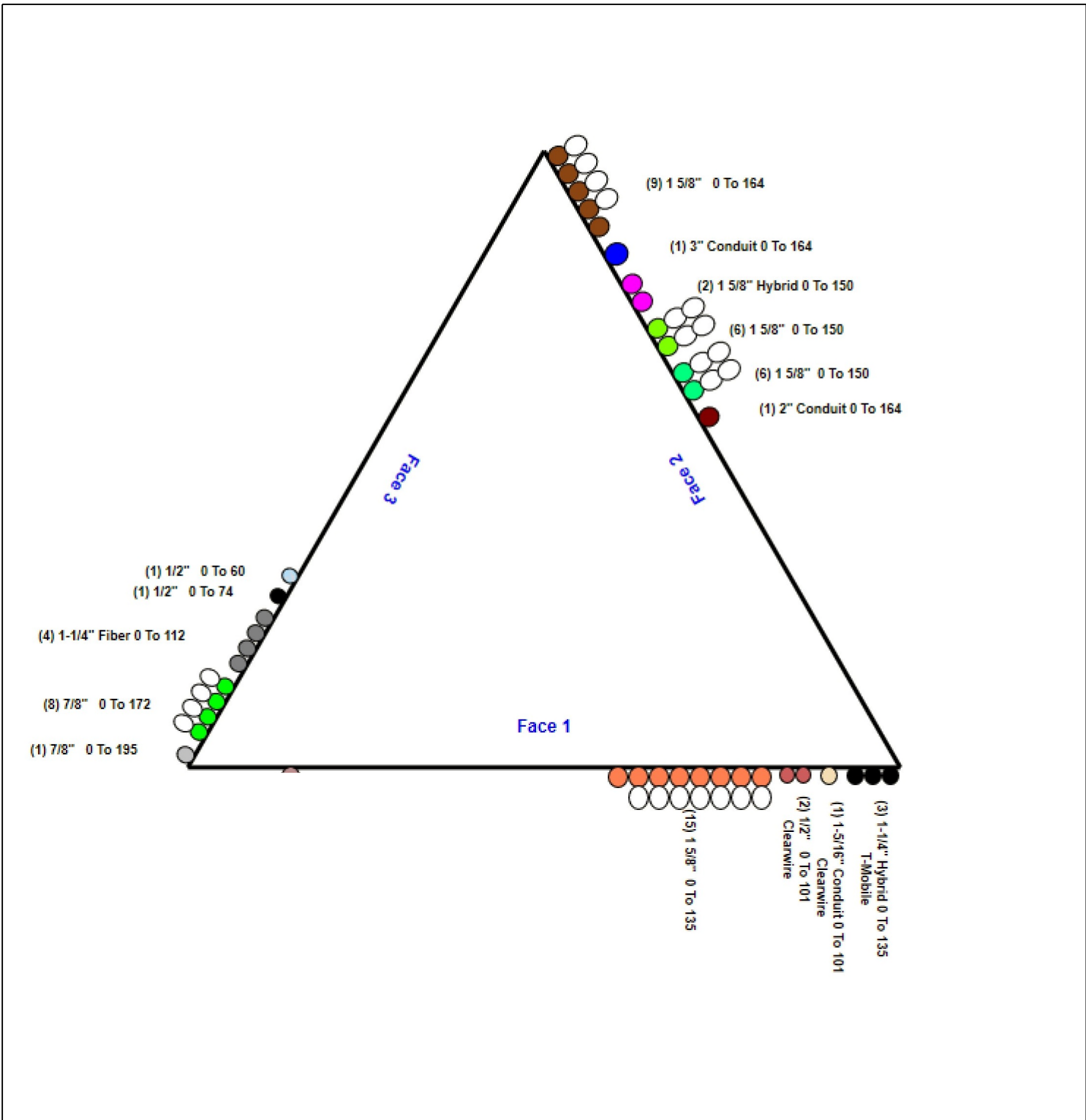
Structure: CT22108-A-SBA - Coax Line Placement

Type: Self Support
Site Name: Windsor Locks @ Volunteer Drive
Height: 195.00 (ft)

10/4/2021



Page: 4



Loading Summary

Structure: CT22108-A-SBA	Code: EIA/TIA-222-G	10/4/2021
Site Name: Windsor Locks @ Volunteer Drive	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 5.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



Page: 5

Discrete Appurtenances Properties

Attach Elev (ft)	Description	Qty	No Ice		Ice		Len (in)	Width (in)	Depth (in)	Ka	Orientation Factor	Vert Ecc (ft)
			Weight (lb)	CaAa (sf)	Weight (lb)	CaAa (sf)						
195.00	Lightning Rod	1	5.00	0.500	33.67	2.889	72.000	1.000	1.000	1.00	1.00	0.000
195.00	Beacon	1	36.00	2.720	218.31	4.019	28.000	17.500	17.500	1.00	1.00	0.000
195.00	Andrew - DB224-A	1	35.00	5.650	275.06	29.777	255.000	0.000	0.000	1.00	1.00	8.400
171.50	15' T-Frame	3	400.00	10.000	779.69	21.865	0.000	0.000	0.000	0.75	0.75	0.000
171.50	Andrew - 20' Dipoles w/ (4) Element	5	60.00	7.520	361.51	23.681	240.000	3.000	3.000	1.00	1.00	12.20
171.50	2.5" Ø x 20.0' Omni	1	55.00	6.000	259.86	15.648	240.000	3.000	3.000	1.00	1.00	11.30
171.50	1.3" Ø x 13.0' Omni	1	40.00	3.900	173.84	10.227	156.000	3.000	3.000	1.00	1.00	9.100
171.50	1.3" Ø x 10.0' Omni	1	25.00	3.000	128.42	7.904	120.000	3.000	3.000	1.00	1.00	7.600
164.00	T-Frame	3	400.00	10.000	775.88	21.746	0.000	0.000	0.000	0.75	0.75	0.000
164.00	Mount Mods	1	512.00	15.000	1474.25	36.143	0.000	0.000	0.000	0.75	1.00	0.000
164.00	TPA-65R-LCUUUU-H8	3	75.00	13.300	518.55	15.563	96.000	14.400	8.600	0.80	0.83	0.000
164.00	TPA65R-BU8D	6	82.50	17.870	616.34	20.288	96.000	20.700	7.700	0.80	0.72	0.000
164.00	Powerwave LGP21401 TMA	3	14.10	1.290	47.75	2.415	14.400	9.200	2.600	0.80	1.00	0.000
164.00	Kaelus DBCT108F1V92-1 Diplexer	3	19.80	0.700	65.75	1.228	10.600	7.900	4.700	0.80	0.80	0.000
164.00	Kathrein 860 10025 RET	6	1.10	0.160	8.33	0.628	6.900	2.400	2.000	0.80	0.92	0.000
164.00	RRUS 32 B30	3	53.00	2.740	181.49	3.748	27.200	12.100	7.000	0.80	0.67	0.000
164.00	Ericsson 4449 B5/B12	3	71.00	1.970	142.86	2.707	17.900	13.200	9.400	0.80	0.67	0.000
164.00	Ericsson RRUS 8843 B2 B66A	3	75.00	1.650	184.29	2.401	15.000	13.200	11.100	0.80	0.67	0.000
164.00	Ericsson RRUS 4478 B14	3	59.40	1.650	115.22	2.348	15.000	13.200	7.300	0.80	0.67	0.000
164.00	Raycap DC6-48-60-18-8F	2	31.80	0.920	115.02	1.510	24.000	11.000	11.000	0.80	1.00	0.000
150.00	(3) 12.5' - 2.5" Horizontal Pi	2	217.50	7.188	500.92	19.230	0.000	0.000	0.000	0.75	1.00	0.000
150.00	(3) SFS-H (V-Braces)	3	197.00	6.300	563.73	15.096	0.000	0.000	0.000	0.75	1.00	0.000
150.00	Sector Frame	3	500.00	17.500	1430.78	36.069	0.000	0.000	0.000	0.75	0.75	0.000
150.00	Amphenol - BXA-70063/6CF-EDIN	3	17.00	7.570	214.73	11.255	71.000	11.200	5.200	0.80	0.78	0.000
150.00	Commscope SBNHH-1D65B	6	40.60	8.080	326.81	9.842	72.000	11.900	7.100	0.80	0.83	0.000
150.00	Samsung MT6407-77A	3	79.40	4.690	250.17	5.973	35.100	16.100	5.500	0.80	0.70	0.000
150.00	RFS FD9R6004/2C-3L Diplexer	6	3.10	0.360	13.80	0.951	5.800	6.500	1.500	0.80	1.00	0.000
150.00	Samsung LTE AWS/PCS	3	84.40	1.880	152.75	2.615	15.000	15.000	10.000	0.80	0.67	0.000
150.00	Samsung LTE 700/850 MHz	3	70.30	1.880	135.15	2.615	15.000	15.000	8.100	0.80	0.67	0.000
150.00	RFS DB-T1-6Z-8AB-OZ	2	18.90	4.800	180.34	6.140	24.000	24.000	10.000	0.80	1.00	0.000
135.00	APX16DWV-16DWV-S-E-A20	3	40.70	6.460	234.77	7.960	55.900	13.000	3.200	0.80	0.62	0.000
135.00	Sector Frame	3	450.00	14.000	914.20	23.284	0.000	0.000	0.000	0.75	0.75	0.000
135.00	APXVAARR24_43-U-NA20 (Octa)	3	128.00	20.240	701.99	22.777	95.900	24.000	7.800	0.80	0.70	0.000
135.00	AIR32 KRD901146-1_B66A (Octa)	3	132.20	6.510	389.88	8.081	57.000	12.900	8.700	0.80	0.87	0.000
135.00	Ericsson KRY 112 144/2 TMA	6	11.00	0.410	25.22	1.037	6.900	6.100	2.700	0.80	0.70	0.000
135.00	Ericsson - Radio 4449 B71 + B12	3	70.00	1.650	167.63	2.384	15.000	13.200	9.300	0.80	0.67	0.000
135.00	New T-arms Mods1	1	180.00	6.100	478.41	14.527	0.000	0.000	0.000	0.75	1.00	0.000
112.30	Sector Frame-Pipe/Rod	3	450.00	14.000	906.81	23.136	0.000	0.000	0.000	0.75	0.75	0.000
112.30	RFS - APXVSPP18-C-A20	3	57.00	8.020	281.43	11.647	72.000	11.800	7.000	0.80	0.83	4.500
112.30	RFS - APXVTM14-C-I20	3	56.20	6.340	269.07	7.811	56.300	12.600	6.300	0.80	0.78	2.700
112.30	Alcatel-Lucent - TD-RRH8x20-25 -	3	70.00	4.050	196.89	5.885	26.100	18.600	6.700	0.80	0.67	2.700
110.30	Alcatel-Lucent - 800 MHz RRH	3	53.00	2.490	149.03	3.975	19.700	13.000	10.800	0.80	0.67	0.000
107.60	Alcatel-Lucent - 1900 MHz RRH	3	44.00	3.800	185.74	5.605	23.000	13.000	17.000	0.80	0.67	0.000
102.40	12" x 12" x 6.38" Junction Box	1	10.00	1.400	63.17	2.481	12.000	12.000	8.000	1.00	1.00	0.000
101.40	Standoffs	3	120.00	4.500	253.38	11.182	0.000	0.000	0.000	0.75	0.75	0.000
101.40	Andrew - 3.3' Dish	1	140.00	8.920	372.43	11.157	36.000	36.000	0.000	1.00	1.00	3.200
101.40	Andrew - VHLP1-23-DW1	1	14.00	1.610	59.10	2.576	15.300	15.300	8.700	1.00	1.00	2.600
101.40	Argus - LLPX310R-V4	3	28.70	4.310	144.33	6.426	42.100	11.800	4.500	0.80	0.73	2.600

Loading Summary

Structure: CT22108-A-SBA	Code: EIA/TIA-222-G	10/4/2021
Site Name: Windsor Locks @ Volunteer Drive	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 5.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Page: 6
	Struct Class: II	



101.40	Alcatel-Lucent - SPI-22132825WB	3	33.10	1.820	89.05	3.063	16.100	11.600	6.000	0.80	0.67	2.400	
74.00	3.5" Ø x 8" GPS	1	10.00	0.160	16.90	0.638	8.000	2.000	2.000	1.00	1.00	1.900	
74.00	Standoff	1	120.00	2.500	250.27	6.126	0.000	0.000	0.000	1.00	1.00	0.000	
60.00	PCTEL - GPS-TMG-HR-26N - GPS	1	0.60	0.090	6.45	0.308	5.000	3.200	3.200	1.00	1.00	0.000	
Totals:		142	14,393.70				44,482.13						Number of Appurtenances : 52

Loading Summary

Structure: CT22108-A-SBA	Code: EIA/TIA-222-G	10/4/2021
Site Name: Windsor Locks @ Volunteer Drive	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 5.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



Page: 7

Linear Appurtenances Properties

Elev. From (ft)	Elev. To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	Pct In Block	Spread On Faces	Bundling Arrangement	Cluster Dia (in)	Out of Zone	Spacing (in)	Orientation Factor	Ka Override
0.00	195.00	7/8" Coax	1	1.11	0.52	100.00	3	Individual NR		N	1.00	1.00	
0.00	171.50	7/8" Coax	8	1.11	0.52	50.00	3	Block		N	1.00	0.67	
0.00	164.00	1 5/8" Coax	9	1.98	1.04	50.00	2	Block		N	1.00	0.59	
0.00	164.00	2" Conduit	1	2.00	1.78	100.00	2	Individual NR		N	1.00	1.00	
0.00	164.00	3" Conduit	1	3.02	1.78	100.00	2	Individual NR		N	1.00	1.00	
0.00	150.00	1 5/8" Coax	6	1.98	1.04	33.30	2	Block		N	1.00	0.47	
0.00	150.00	1 5/8" Coax	6	1.98	1.04	33.30	2	Block		N	1.00	1.00	0
0.00	150.00	1 5/8" Hybrid	2	2.00	1.10	100.00	2	Individual NR		N	1.00	1.00	0
0.00	135.00	1 5/8" Coax	15	1.98	1.04	50.00	1	Block		N	1.00	1.00	
0.00	135.00	1-1/4" Hybrid	3	1.25	0.95	50.00	1	Individual IR		N	1.00	1.00	
0.00	125.00	W/G Ladder	1	2.00	6.00	100.00	1	Individual NR		N	1.00	1.00	
0.00	112.30	1-1/4" Fiber	4	1.25	0.95	100.00	3	Individual IR		N	1.00	0.59	
0.00	101.40	1-5/16" Conduit	1	1.38	1.13	100.00	1	Individual NR		N	1.00	1.00	0
0.00	101.40	1/2" Coax	2	0.65	0.16	100.00	1	Individual NR		N	1.00	1.00	0
0.00	74.00	1/2" Coax	1	0.65	0.16	100.00	3	Individual NR		N	1.00	1.00	0
0.00	60.00	1/2" Coax	1	0.65	0.16	100.00	3	Individual NR		N	1.00	1.00	

Section Forces

Structure: CT22108-A-SBA	Code: EIA/TIA-222-G	10/4/2021
Site Name: Windsor Locks @ Volunteer Drive	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 5.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



Load Case: 1.2D + 1.6W Normal Wind	1.2D + 1.6W 97 mph Wind at Normal To Face
Wind Load Factor: 1.60	Wind Importance Factor: 1.00
Dead Load Factor: 1.20	
Ice Dead Load Factor: 0.00	Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	Wind qz (psf)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	10.0	17.40	24.365	23.64	0.00	0.12	2.88	1.00	1.00	0.00	35.27	134.00	0.00	7,688.9	0.0	2400.35	1979.13	4,379.48
2	30.0	20.77	22.326	23.64	0.00	0.13	2.84	1.00	1.00	0.00	32.73	134.00	0.00	7,507.7	0.0	2630.08	2362.51	4,992.59
3	50.0	22.85	17.472	22.04	0.00	0.13	2.86	1.00	1.00	0.00	27.28	134.00	0.00	6,397.3	0.0	2422.68	2598.36	5,021.04
4	70.0	24.39	15.857	22.04	0.00	0.14	2.81	1.00	1.00	0.00	25.58	132.59	0.00	6,249.6	0.0	2383.53	2747.68	5,131.20
5	90.0	25.63	14.383	18.83	0.00	0.14	2.79	1.00	1.00	0.00	23.37	131.83	0.00	5,340.4	0.0	2273.88	2887.56	5,161.44
6	110.0	26.69	12.992	18.83	0.00	0.17	2.71	1.00	1.00	0.00	22.05	124.47	0.00	4,685.6	0.0	2165.60	2920.43	5,086.02
7	130.0	27.60	10.974	17.23	0.00	0.19	2.63	1.00	1.00	0.00	19.67	105.45	0.00	3,840.9	0.0	1942.09	2405.66	4,347.75
8	145.0	28.22	4.586	7.81	0.00	0.21	2.56	1.00	1.00	0.00	8.71	35.69	0.00	1,469.1	0.0	856.41	652.75	1,509.16
9	160.0	28.79	0.000	13.44	0.00	0.14	2.82	1.00	1.00	0.00	7.74	38.72	0.00	1,817.6	0.0	854.95	971.76	1,826.71
10	177.5	29.41	0.000	8.71	0.00	0.13	2.87	1.00	1.00	0.00	5.00	2.50	0.00	855.1	0.0	573.12	71.93	645.05
11	190.0	29.82	0.000	6.00	0.00	0.13	2.85	1.00	1.00	0.00	3.45	0.93	0.00	585.8	0.0	398.71	27.01	425.73
														46,438.0	0.0			38,526.17

Load Case: 1.2D + 1.6W 60° Wind	1.2D + 1.6W 97 mph Wind at 60° From Face
Wind Load Factor: 1.60	Wind Importance Factor: 1.00
Dead Load Factor: 1.20	
Ice Dead Load Factor: 0.00	Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	Wind qz (psf)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	10.0	17.40	24.365	23.64	0.00	0.12	2.88	0.80	1.00	0.00	30.40	134.00	0.00	7,688.9	0.0	2068.74	1979.13	4,047.88
2	30.0	20.77	22.326	23.64	0.00	0.13	2.84	0.80	1.00	0.00	28.27	134.00	0.00	7,507.7	0.0	2271.30	2362.51	4,633.81
3	50.0	22.85	17.472	22.04	0.00	0.13	2.86	0.80	1.00	0.00	23.79	134.00	0.00	6,397.3	0.0	2112.37	2598.36	4,710.73
4	70.0	24.39	15.857	22.04	0.00	0.14	2.81	0.80	1.00	0.00	22.41	132.59	0.00	6,249.6	0.0	2088.01	2747.68	4,835.69
5	90.0	25.63	14.383	18.83	0.00	0.14	2.79	0.80	1.00	0.00	20.50	131.83	0.00	5,340.4	0.0	1994.01	2887.56	4,881.57
6	110.0	26.69	12.992	18.83	0.00	0.17	2.71	0.80	1.00	0.00	19.45	124.47	0.00	4,685.6	0.0	1910.39	2920.43	4,830.81
7	130.0	27.60	10.974	17.23	0.00	0.19	2.63	0.80	1.00	0.00	17.47	105.45	0.00	3,840.9	0.0	1725.36	2405.66	4,131.02
8	145.0	28.22	4.586	7.81	0.00	0.21	2.56	0.80	1.00	0.00	7.79	35.69	0.00	1,469.1	0.0	766.25	652.75	1,419.00
9	160.0	28.79	0.000	13.44	0.00	0.14	2.82	0.80	1.00	0.00	7.74	38.72	0.00	1,817.6	0.0	854.95	971.76	1,826.71
10	177.5	29.41	0.000	8.71	0.00	0.13	2.87	0.80	1.00	0.00	5.00	2.50	0.00	855.1	0.0	573.12	71.93	645.05
11	190.0	29.82	0.000	6.00	0.00	0.13	2.85	0.80	1.00	0.00	3.45	0.93	0.00	585.8	0.0	398.71	27.01	425.73
														46,438.0	0.0			36,387.99

Section Forces

Structure: CT22108-A-SBA	Code: EIA/TIA-222-G	10/4/2021
Site Name: Windsor Locks @ Volunteer Drive	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 5.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Struct Class: II	
Topography: 1		Page: 9



Load Case: 1.2D + 1.6W 90° Wind	1.2D + 1.6W 97 mph Wind at 90° From Face
Wind Load Factor: 1.60	Wind Importance Factor: 1.00
Dead Load Factor: 1.20	
Ice Dead Load Factor: 0.00	Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	Wind qz (psf)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	10.0	17.40	24.365	23.64	0.00	0.12	2.88	0.85	1.00	0.00	31.62	134.00	0.00	7,688.9	0.0	2151.64	1979.13	4,130.78
2	30.0	20.77	22.326	23.64	0.00	0.13	2.84	0.85	1.00	0.00	29.38	134.00	0.00	7,507.7	0.0	2360.99	2362.51	4,723.50
3	50.0	22.85	17.472	22.04	0.00	0.13	2.86	0.85	1.00	0.00	24.66	134.00	0.00	6,397.3	0.0	2189.95	2598.36	4,788.31
4	70.0	24.39	15.857	22.04	0.00	0.14	2.81	0.85	1.00	0.00	23.20	132.59	0.00	6,249.6	0.0	2161.89	2747.68	4,909.57
5	90.0	25.63	14.383	18.83	0.00	0.14	2.79	0.85	1.00	0.00	21.21	131.83	0.00	5,340.4	0.0	2063.98	2887.56	4,951.54
6	110.0	26.69	12.992	18.83	0.00	0.17	2.71	0.85	1.00	0.00	20.10	124.47	0.00	4,685.6	0.0	1974.19	2920.43	4,894.62
7	130.0	27.60	10.974	17.23	0.00	0.19	2.63	0.85	1.00	0.00	18.02	105.45	0.00	3,840.9	0.0	1779.54	2405.66	4,185.20
8	145.0	28.22	4.586	7.81	0.00	0.21	2.56	0.85	1.00	0.00	8.02	35.69	0.00	1,469.1	0.0	788.79	652.75	1,441.54
9	160.0	28.79	0.000	13.44	0.00	0.14	2.82	0.85	1.00	0.00	7.74	38.72	0.00	1,817.6	0.0	854.95	971.76	1,826.71
10	177.5	29.41	0.000	8.71	0.00	0.13	2.87	0.85	1.00	0.00	5.00	2.50	0.00	855.1	0.0	573.12	71.93	645.05
11	190.0	29.82	0.000	6.00	0.00	0.13	2.85	0.85	1.00	0.00	3.45	0.93	0.00	585.8	0.0	398.71	27.01	425.73
														46,438.0	0.0			36,922.53

Load Case: 0.9D + 1.6W Normal Wind	0.9D + 1.6W 97 mph Wind at Normal To Face
Wind Load Factor: 1.60	Wind Importance Factor: 1.00
Dead Load Factor: 0.90	
Ice Dead Load Factor: 0.00	Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	Wind qz (psf)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	10.0	17.40	24.365	23.64	0.00	0.12	2.88	1.00	1.00	0.00	35.27	134.00	0.00	5,766.7	0.0	2400.35	1979.13	4,379.48
2	30.0	20.77	22.326	23.64	0.00	0.13	2.84	1.00	1.00	0.00	32.73	134.00	0.00	5,630.8	0.0	2630.08	2362.51	4,992.59
3	50.0	22.85	17.472	22.04	0.00	0.13	2.86	1.00	1.00	0.00	27.28	134.00	0.00	4,798.0	0.0	2422.68	2598.36	5,021.04
4	70.0	24.39	15.857	22.04	0.00	0.14	2.81	1.00	1.00	0.00	25.58	132.59	0.00	4,687.2	0.0	2383.53	2747.68	5,131.20
5	90.0	25.63	14.383	18.83	0.00	0.14	2.79	1.00	1.00	0.00	23.37	131.83	0.00	4,005.3	0.0	2273.88	2887.56	5,161.44
6	110.0	26.69	12.992	18.83	0.00	0.17	2.71	1.00	1.00	0.00	22.05	124.47	0.00	3,514.2	0.0	2165.60	2920.43	5,086.02
7	130.0	27.60	10.974	17.23	0.00	0.19	2.63	1.00	1.00	0.00	19.67	105.45	0.00	2,880.7	0.0	1942.09	2405.66	4,347.75
8	145.0	28.22	4.586	7.81	0.00	0.21	2.56	1.00	1.00	0.00	8.71	35.69	0.00	1,101.8	0.0	856.41	652.75	1,509.16
9	160.0	28.79	0.000	13.44	0.00	0.14	2.82	1.00	1.00	0.00	7.74	38.72	0.00	1,363.2	0.0	854.95	971.76	1,826.71
10	177.5	29.41	0.000	8.71	0.00	0.13	2.87	1.00	1.00	0.00	5.00	2.50	0.00	641.3	0.0	573.12	71.93	645.05
11	190.0	29.82	0.000	6.00	0.00	0.13	2.85	1.00	1.00	0.00	3.45	0.93	0.00	439.3	0.0	398.71	27.01	425.73
														34,828.5	0.0			38,526.17

Section Forces

Structure: CT22108-A-SBA	Code: EIA/TIA-222-G	10/4/2021
Site Name: Windsor Locks @ Volunteer Drive	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 5.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II
		Page: 10



Load Case: 0.9D + 1.6W 60° Wind	0.9D + 1.6W 97 mph Wind at 60° From Face
Wind Load Factor: 1.60	Wind Importance Factor: 1.00
Dead Load Factor: 0.90	
Ice Dead Load Factor: 0.00	Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	Wind qz (psf)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	10.0	17.40	24.365	23.64	0.00	0.12	2.88	0.80	1.00	0.00	30.40	134.00	0.00	5,766.7	0.0	2068.74	1979.13	4,047.88
2	30.0	20.77	22.326	23.64	0.00	0.13	2.84	0.80	1.00	0.00	28.27	134.00	0.00	5,630.8	0.0	2271.30	2362.51	4,633.81
3	50.0	22.85	17.472	22.04	0.00	0.13	2.86	0.80	1.00	0.00	23.79	134.00	0.00	4,798.0	0.0	2112.37	2598.36	4,710.73
4	70.0	24.39	15.857	22.04	0.00	0.14	2.81	0.80	1.00	0.00	22.41	132.59	0.00	4,687.2	0.0	2088.01	2747.68	4,835.69
5	90.0	25.63	14.383	18.83	0.00	0.14	2.79	0.80	1.00	0.00	20.50	131.83	0.00	4,005.3	0.0	1994.01	2887.56	4,881.57
6	110.0	26.69	12.992	18.83	0.00	0.17	2.71	0.80	1.00	0.00	19.45	124.47	0.00	3,514.2	0.0	1910.39	2920.43	4,830.81
7	130.0	27.60	10.974	17.23	0.00	0.19	2.63	0.80	1.00	0.00	17.47	105.45	0.00	2,880.7	0.0	1725.36	2405.66	4,131.02
8	145.0	28.22	4.586	7.81	0.00	0.21	2.56	0.80	1.00	0.00	7.79	35.69	0.00	1,101.8	0.0	766.25	652.75	1,419.00
9	160.0	28.79	0.000	13.44	0.00	0.14	2.82	0.80	1.00	0.00	7.74	38.72	0.00	1,363.2	0.0	854.95	971.76	1,826.71
10	177.5	29.41	0.000	8.71	0.00	0.13	2.87	0.80	1.00	0.00	5.00	2.50	0.00	641.3	0.0	573.12	71.93	645.05
11	190.0	29.82	0.000	6.00	0.00	0.13	2.85	0.80	1.00	0.00	3.45	0.93	0.00	439.3	0.0	398.71	27.01	425.73
														34,828.5	0.0			36,387.99

Load Case: 0.9D + 1.6W 90° Wind	0.9D + 1.6W 97 mph Wind at 90° From Face
Wind Load Factor: 1.60	Wind Importance Factor: 1.00
Dead Load Factor: 0.90	
Ice Dead Load Factor: 0.00	Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	Wind qz (psf)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	10.0	17.40	24.365	23.64	0.00	0.12	2.88	0.85	1.00	0.00	31.62	134.00	0.00	5,766.7	0.0	2151.64	1979.13	4,130.78
2	30.0	20.77	22.326	23.64	0.00	0.13	2.84	0.85	1.00	0.00	29.38	134.00	0.00	5,630.8	0.0	2360.99	2362.51	4,723.50
3	50.0	22.85	17.472	22.04	0.00	0.13	2.86	0.85	1.00	0.00	24.66	134.00	0.00	4,798.0	0.0	2189.95	2598.36	4,788.31
4	70.0	24.39	15.857	22.04	0.00	0.14	2.81	0.85	1.00	0.00	23.20	132.59	0.00	4,687.2	0.0	2161.89	2747.68	4,909.57
5	90.0	25.63	14.383	18.83	0.00	0.14	2.79	0.85	1.00	0.00	21.21	131.83	0.00	4,005.3	0.0	2063.98	2887.56	4,951.54
6	110.0	26.69	12.992	18.83	0.00	0.17	2.71	0.85	1.00	0.00	20.10	124.47	0.00	3,514.2	0.0	1974.19	2920.43	4,894.62
7	130.0	27.60	10.974	17.23	0.00	0.19	2.63	0.85	1.00	0.00	18.02	105.45	0.00	2,880.7	0.0	1779.54	2405.66	4,185.20
8	145.0	28.22	4.586	7.81	0.00	0.21	2.56	0.85	1.00	0.00	8.02	35.69	0.00	1,101.8	0.0	788.79	652.75	1,441.54
9	160.0	28.79	0.000	13.44	0.00	0.14	2.82	0.85	1.00	0.00	7.74	38.72	0.00	1,363.2	0.0	854.95	971.76	1,826.71
10	177.5	29.41	0.000	8.71	0.00	0.13	2.87	0.85	1.00	0.00	5.00	2.50	0.00	641.3	0.0	573.12	71.93	645.05
11	190.0	29.82	0.000	6.00	0.00	0.13	2.85	0.85	1.00	0.00	3.45	0.93	0.00	439.3	0.0	398.71	27.01	425.73
														34,828.5	0.0			36,922.53

Section Forces

Structure: CT22108-A-SBA	Code: EIA/TIA-222-G	10/4/2021
Site Name: Windsor Locks @ Volunteer Drive	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 5.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



Page: 11

Load Case: 1.2D + 1.0Di + 1.0Wi Normal Wind	1.2D + 1.0Di + 1.0Wi 50 mph Wind at Normal From Face
Wind Load Factor: 1.00	Wind Importance Factor: 1.00
Dead Load Factor: 1.20	
Ice Dead Load Factor: 1.00	Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Area (sqft)		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice Area (sqft)		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)						
1	10.0	4.62	24.365	62.44	38.80	0.22	2.54	1.00	1.00	1.85	60.45	185.47	61.61	17,321.1	9632.1	602.67	549.26	1,151.93	
2	30.0	5.52	22.326	63.53	39.89	0.24	2.47	1.00	1.00	2.01	59.33	189.83	67.06	17,921.1	10413.8	687.43	673.89	1,361.32	
3	50.0	6.07	17.472	61.40	39.36	0.25	2.44	1.00	1.00	2.10	53.36	192.31	70.16	16,694.1	10296.7	672.79	753.21	1,426.00	
4	70.0	6.48	15.857	60.28	38.25	0.27	2.37	1.00	1.00	2.17	51.49	192.67	62.96	16,503.1	10253.5	671.80	767.79	1,439.58	
5	90.0	6.81	14.383	55.72	36.89	0.30	2.31	1.00	1.00	2.22	47.69	193.30	59.28	15,383.1	10043.2	636.78	809.31	1,446.09	
6	110.0	7.09	12.992	54.30	35.47	0.34	2.19	1.00	1.00	2.27	46.28	182.25	39.35	14,043.1	9357.9	611.10	810.75	1,421.85	
7	130.0	7.33	10.974	53.66	36.43	0.41	2.04	1.00	1.00	2.30	45.44	146.87	38.38	12,166.1	8325.8	577.18	627.37	1,204.55	
8	145.0	7.50	4.586	24.44	16.62	0.46	1.95	1.00	1.00	2.33	20.85	50.00	19.39	4,907.3	3438.2	259.60	171.43	431.03	
9	160.0	7.65	0.000	66.16	52.71	0.62	1.79	1.00	1.00	2.35	50.36	49.64	18.79	6,911.3	5093.7	586.66	174.81	761.47	
10	177.5	7.81	0.000	48.26	39.54	0.64	1.79	1.00	1.00	2.37	37.18	2.91	5.93	3,500.2	2645.1	440.96	24.79	465.75	
11	190.0	7.92	0.000	33.63	27.63	0.67	1.78	1.00	1.00	2.39	26.57	0.93	3.98	2,417.7	1831.9	318.20	13.21	331.41	
														127,770.0	81332.1				11,440.97

Load Case: 1.2D + 1.0Di + 1.0Wi 60° Wind	1.2D + 1.0Di + 1.0Wi 50 mph Wind at 60° From Face
Wind Load Factor: 1.00	Wind Importance Factor: 1.00
Dead Load Factor: 1.20	
Ice Dead Load Factor: 1.00	Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Area (sqft)		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice Area (sqft)		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)						
1	10.0	4.62	24.365	62.44	38.80	0.22	2.54	0.80	1.00	1.85	55.58	185.47	61.61	17,321.1	9632.1	554.09	549.26	1,103.34	
2	30.0	5.52	22.326	63.53	39.89	0.24	2.47	0.80	1.00	2.01	54.87	189.83	67.06	17,921.1	10413.8	635.69	673.89	1,309.58	
3	50.0	6.07	17.472	61.40	39.36	0.25	2.44	0.80	1.00	2.10	49.86	192.31	70.16	16,694.1	10296.7	628.73	753.21	1,381.93	
4	70.0	6.48	15.857	60.28	38.25	0.27	2.37	0.80	1.00	2.17	48.32	192.67	62.96	16,503.1	10253.5	630.42	767.79	1,398.21	
5	90.0	6.81	14.383	55.72	36.89	0.30	2.31	0.80	1.00	2.22	44.81	193.30	59.28	15,383.1	10043.2	598.37	809.31	1,407.68	
6	110.0	7.09	12.992	54.30	35.47	0.34	2.19	0.80	1.00	2.27	43.68	182.25	39.35	14,043.1	9357.9	576.79	810.75	1,387.54	
7	130.0	7.33	10.974	53.66	36.43	0.41	2.04	0.80	1.00	2.30	43.24	146.87	38.38	12,166.1	8325.8	549.30	627.37	1,176.66	
8	145.0	7.50	4.586	24.44	16.62	0.46	1.95	0.80	1.00	2.33	19.93	50.00	19.39	4,907.3	3438.2	248.18	171.43	419.61	
9	160.0	7.65	0.000	66.16	52.71	0.62	1.79	0.80	1.00	2.35	50.36	49.64	18.79	6,911.3	5093.7	586.66	174.81	761.47	
10	177.5	7.81	0.000	48.26	39.54	0.64	1.79	0.80	1.00	2.37	37.18	2.91	5.93	3,500.2	2645.1	440.96	24.79	465.75	
11	190.0	7.92	0.000	33.63	27.63	0.67	1.78	0.80	1.00	2.39	26.57	0.93	3.98	2,417.7	1831.9	318.20	13.21	331.41	
														127,770.0	81332.1				11,143.19

Section Forces

Structure: CT22108-A-SBA	Code: EIA/TIA-222-G	10/4/2021
Site Name: Windsor Locks @ Volunteer Drive	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 5.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



Page: 12

Load Case: 1.2D + 1.0Di + 1.0Wi 90° Wind	1.2D + 1.0Di + 1.0Wi 50 mph Wind at 90° From Face
Wind Load Factor: 1.00	Wind Importance Factor: 1.00
Dead Load Factor: 1.20	
Ice Dead Load Factor: 1.00	Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Area		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice Area		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	10.0	4.62	24.365	62.44	38.80	0.22	2.54	0.85	1.00	1.85	56.80	185.47	61.61	17,321.1	9632.1	566.23	549.26	1,115.49
2	30.0	5.52	22.326	63.53	39.89	0.24	2.47	0.85	1.00	2.01	55.98	189.83	67.06	17,921.1	10413.8	648.63	673.89	1,322.51
3	50.0	6.07	17.472	61.40	39.36	0.25	2.44	0.85	1.00	2.10	50.74	192.31	70.16	16,694.1	10296.7	639.74	753.21	1,392.95
4	70.0	6.48	15.857	60.28	38.25	0.27	2.37	0.85	1.00	2.17	49.12	192.67	62.96	16,503.1	10253.5	640.77	767.79	1,408.55
5	90.0	6.81	14.383	55.72	36.89	0.30	2.31	0.85	1.00	2.22	45.53	193.30	59.28	15,383.1	10043.2	607.97	809.31	1,417.28
6	110.0	7.09	12.992	54.30	35.47	0.34	2.19	0.85	1.00	2.27	44.33	182.25	39.35	14,043.1	9357.9	585.37	810.75	1,396.12
7	130.0	7.33	10.974	53.66	36.43	0.41	2.04	0.85	1.00	2.30	43.79	146.87	38.38	12,166.1	8325.8	556.27	627.37	1,183.64
8	145.0	7.50	4.586	24.44	16.62	0.46	1.95	0.85	1.00	2.33	20.16	50.00	19.39	4,907.3	3438.2	251.03	171.43	422.46
9	160.0	7.65	0.000	66.16	52.71	0.62	1.79	0.85	1.00	2.35	50.36	49.64	18.79	6,911.3	5093.7	586.66	174.81	761.47
10	177.5	7.81	0.000	48.26	39.54	0.64	1.79	0.85	1.00	2.37	37.18	2.91	5.93	3,500.2	2645.1	440.96	24.79	465.75
11	190.0	7.92	0.000	33.63	27.63	0.67	1.78	0.85	1.00	2.39	26.57	0.93	3.98	2,417.7	1831.9	318.20	13.21	331.41
														127,770.0	81332.1			11,217.64

Load Case: 1.0D + 1.0W Normal Wind	1.0D + 1.0W 60 mph Wind at Normal To Face
Wind Load Factor: 1.00	Wind Importance Factor: 1.00
Dead Load Factor: 1.00	
Ice Dead Load Factor: 0.00	Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Area		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice Area		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	10.0	6.66	24.365	23.64	0.00	0.12	2.88	1.00	1.00	0.00	37.65	134.00	0.00	6,407.4	0.0	612.73	473.28	1,086.00
2	30.0	7.95	22.326	23.64	0.00	0.13	2.84	1.00	1.00	0.00	35.28	134.00	0.00	6,256.5	0.0	677.86	564.95	1,242.81
3	50.0	8.74	17.472	22.04	0.00	0.13	2.86	1.00	1.00	0.00	29.62	134.00	0.00	5,331.1	0.0	629.08	621.35	1,250.43
4	70.0	9.33	15.857	22.04	0.00	0.14	2.81	1.00	1.00	0.00	27.92	132.59	0.00	5,208.0	0.0	622.12	657.06	1,279.18
5	90.0	9.81	14.383	18.83	0.00	0.14	2.79	1.00	1.00	0.00	25.06	131.83	0.00	4,450.4	0.0	583.06	690.51	1,273.57
6	110.0	10.21	12.992	18.83	0.00	0.17	2.71	1.00	1.00	0.00	23.70	124.47	0.00	3,904.7	0.0	556.70	698.37	1,255.07
7	130.0	10.56	10.974	17.23	0.00	0.19	2.63	1.00	1.00	0.00	20.84	105.45	0.00	3,200.8	0.0	492.15	575.27	1,067.43
8	145.0	10.80	4.586	7.81	0.00	0.21	2.56	1.00	1.00	0.00	9.09	35.69	0.00	1,224.2	0.0	213.67	156.09	369.77
9	160.0	11.02	0.000	13.44	0.00	0.14	2.82	1.00	1.00	0.00	7.74	38.72	0.00	1,514.6	0.0	204.45	232.38	436.83
10	177.5	11.25	0.000	8.71	0.00	0.13	2.87	1.00	1.00	0.00	5.00	2.50	0.00	712.6	0.0	137.05	17.20	154.25
11	190.0	11.41	0.000	6.00	0.00	0.13	2.85	1.00	1.00	0.00	3.45	0.93	0.00	488.2	0.0	95.35	6.46	101.81
														38,698.3	0.0			9,517.13

Section Forces

Structure: CT22108-A-SBA	Code: EIA/TIA-222-G	10/4/2021
Site Name: Windsor Locks @ Volunteer Drive	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 5.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



Page: 13

Load Case: 1.0D + 1.0W 60° Wind	1.0D + 1.0W 60 mph Wind at 60° From Face
Wind Load Factor: 1.00	Wind Importance Factor: 1.00
Dead Load Factor: 1.00	
Ice Dead Load Factor: 0.00	Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	10.0	6.66	24.365	23.64	0.00	0.12	2.88	0.80	1.00	0.00	32.78	134.00	0.00	6,407.4	0.0	533.43	473.28	1,006.70
2	30.0	7.95	22.326	23.64	0.00	0.13	2.84	0.80	1.00	0.00	30.81	134.00	0.00	6,256.5	0.0	592.06	564.95	1,157.01
3	50.0	8.74	17.472	22.04	0.00	0.13	2.86	0.80	1.00	0.00	26.13	134.00	0.00	5,331.1	0.0	554.87	621.35	1,176.23
4	70.0	9.33	15.857	22.04	0.00	0.14	2.81	0.80	1.00	0.00	24.75	132.59	0.00	5,208.0	0.0	551.45	657.06	1,208.51
5	90.0	9.81	14.383	18.83	0.00	0.14	2.79	0.80	1.00	0.00	22.18	131.83	0.00	4,450.4	0.0	516.13	690.51	1,206.64
6	110.0	10.21	12.992	18.83	0.00	0.17	2.71	0.80	1.00	0.00	21.10	124.47	0.00	3,904.7	0.0	495.68	698.37	1,194.05
7	130.0	10.56	10.974	17.23	0.00	0.19	2.63	0.80	1.00	0.00	18.65	105.45	0.00	3,200.8	0.0	440.33	575.27	1,015.60
8	145.0	10.80	4.586	7.81	0.00	0.21	2.56	0.80	1.00	0.00	8.17	35.69	0.00	1,224.2	0.0	192.11	156.09	348.20
9	160.0	11.02	0.000	13.44	0.00	0.14	2.82	0.80	1.00	0.00	7.74	38.72	0.00	1,514.6	0.0	204.45	232.38	436.83
10	177.5	11.25	0.000	8.71	0.00	0.13	2.87	0.80	1.00	0.00	5.00	2.50	0.00	712.6	0.0	137.05	17.20	154.25
11	190.0	11.41	0.000	6.00	0.00	0.13	2.85	0.80	1.00	0.00	3.45	0.93	0.00	488.2	0.0	95.35	6.46	101.81
														38,698.3	0.0			9,005.83

Load Case: 1.0D + 1.0W 90° Wind	1.0D + 1.0W 60 mph Wind at 90° From Face
Wind Load Factor: 1.00	Wind Importance Factor: 1.00
Dead Load Factor: 1.00	
Ice Dead Load Factor: 0.00	Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	10.0	6.66	24.365	23.64	0.00	0.12	2.88	0.85	1.00	0.00	34.00	134.00	0.00	6,407.4	0.0	553.25	473.28	1,026.53
2	30.0	7.95	22.326	23.64	0.00	0.13	2.84	0.85	1.00	0.00	31.93	134.00	0.00	6,256.5	0.0	613.51	564.95	1,178.46
3	50.0	8.74	17.472	22.04	0.00	0.13	2.86	0.85	1.00	0.00	27.00	134.00	0.00	5,331.1	0.0	573.42	621.35	1,194.78
4	70.0	9.33	15.857	22.04	0.00	0.14	2.81	0.85	1.00	0.00	25.54	132.59	0.00	5,208.0	0.0	569.12	657.06	1,226.18
5	90.0	9.81	14.383	18.83	0.00	0.14	2.79	0.85	1.00	0.00	22.90	131.83	0.00	4,450.4	0.0	532.86	690.51	1,223.37
6	110.0	10.21	12.992	18.83	0.00	0.17	2.71	0.85	1.00	0.00	21.75	124.47	0.00	3,904.7	0.0	510.93	698.37	1,209.30
7	130.0	10.56	10.974	17.23	0.00	0.19	2.63	0.85	1.00	0.00	19.20	105.45	0.00	3,200.8	0.0	453.28	575.27	1,028.55
8	145.0	10.80	4.586	7.81	0.00	0.21	2.56	0.85	1.00	0.00	8.40	35.69	0.00	1,224.2	0.0	197.50	156.09	353.59
9	160.0	11.02	0.000	13.44	0.00	0.14	2.82	0.85	1.00	0.00	7.74	38.72	0.00	1,514.6	0.0	204.45	232.38	436.83
10	177.5	11.25	0.000	8.71	0.00	0.13	2.87	0.85	1.00	0.00	5.00	2.50	0.00	712.6	0.0	137.05	17.20	154.25
11	190.0	11.41	0.000	6.00	0.00	0.13	2.85	0.85	1.00	0.00	3.45	0.93	0.00	488.2	0.0	95.35	6.46	101.81
														38,698.3	0.0			9,133.65

Force/Stress Compression Summary

Structure: CT22108-A-SBA	Code: EIA/TIA-222-G	10/4/2021
Site Name: Windsor Locks @ Volunteer Drive	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 5.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



LEG MEMBERS

Sect	Top Elev	Member	Force (kips)		Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Leg Use %	Controls	
							X	Y	Z					
1	20	12B - 12"BD 2.25"	-373.85	1.2D + 1.6W	Normal Wind	10.02	100	100	100	24.38	50.00	514.03	72.7	Member X
2	40	12B - 12"BD 2.25"	-339.96	1.2D + 1.6W	Normal Wind	10.02	100	100	100	24.38	50.00	514.03	66.1	Member X
3	60	12B - 12"BD 2"	-301.04	1.2D + 1.6W	Normal Wind	10.02	100	100	100	24.41	50.00	405.83	74.2	Member X
4	80	12B - 12"BD 2"	-260.40	1.2D + 1.6W	Normal Wind	10.02	100	100	100	24.41	50.00	405.83	64.2	Member X
5	100	12B - 12"BD 1.75"	-216.52	1.2D + 1.6W	Normal Wind	10.02	100	100	100	25.99	50.00	308.82	70.1	Member X
6	120	12B - 12"BD 1.75"	-167.82	1.2D + 1.6W	Normal Wind	10.02	100	100	100	25.99	50.00	308.82	54.3	Member X
7	140	12B - 12"BD 1.5"	-119.10	1.2D + 1.6W	Normal Wind	10.02	100	100	100	30.32	50.00	222.99	53.4	Member X
8	150	12B - 12"BD 1.25"	-65.35	1.2D + 1.6W	Normal Wind	10.02	100	100	100	36.38	50.00	150.33	43.5	Member X
9	170	SOL - 2" SOLID	-53.56	1.2D + 1.6W	Normal Wind	2.40	100	100	100	57.51	50.00	111.01	48.2	Member X
10	185	SOL - 1 3/4" SOLID	-11.58	1.2D + 1.6W	Normal Wind	0.42	100	100	100	11.44	50.00	107.21	10.8	Member X
11	195	SOL - 1 3/4" SOLID	-2.20	1.2D + 1.0Di + 1.0Wi	Normal	2.29	100	100	100	62.85	50.00	81.08	2.7	Member X

Splices

Sect	Top Elev	Load Case	Top Splice				Load Case	Bottom Splice			
			Force (kips)	Cap (kips)	Use %	Bolt Type		Num Bolts	Force (kips)	Cap (kips)	Use %
1	20	1.2D + 1.6W Normal Wind	349.23	0.00	0.0		1.2D + 1.6W Normal Wind	383.56	0.00		
2	40	1.2D + 1.6W Normal Wind	311.33	0.00	0.0		1.2D + 1.6W Normal Wind	349.23	0.00	1/4 A325	6
3	60	1.2D + 1.6W Normal Wind	271.28	0.00	0.0		1.2D + 1.6W Normal Wind	311.33	0.00	1/4 A325	6
4	80	1.2D + 1.6W Normal Wind	228.45	0.00	0.0		1.2D + 1.6W Normal Wind	271.28	0.00	1/4 A325	6
5	100	1.2D + 1.6W Normal Wind	181.10	0.00	0.0		1.2D + 1.6W Normal Wind	228.45	0.00	1 A325	6
6	120	1.2D + 1.6W Normal Wind	132.03	0.00	0.0		1.2D + 1.6W Normal Wind	181.10	0.00	1 A325	6
7	140	1.2D + 1.6W Normal Wind	83.99	0.00	0.0		1.2D + 1.6W Normal Wind	132.03	0.00	1 A325	6
8	150	1.2D + 1.6W Normal Wind	58.46	0.00	0.0		1.2D + 1.6W Normal Wind	83.99	0.00	1 A325	6
9	170	1.2D + 1.6W Normal Wind	11.69	0.00	0.0		1.2D + 1.6W Normal Wind	58.46	0.00	1 A325	6
10	185	1.2D + 1.0Di + 1.0Wi Normal Wi	2.83	0.00	0.0		1.2D + 1.6W Normal Wind	11.69	0.00		
11	195	1.2D + 1.0Di + 1.0Wi 90° Wind	0.40	0.00	0.0		1.2D + 1.0Di + 1.0Wi Normal Wi	2.83	0.00		

HORIZONTAL MEMBERS

Sect	Top Elev	Member	Force (kips)		Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	Use %	Controls	
							X	Y	Z									
1	20									0.00	0	0						
2	40									0.00	0	0						
3	60									0.00	0	0						
4	80									0.00	0	0						
5	100									0.00	0	0						
6	120									0.00	0	0						
7	140	SAE - 2.5X2.5X0.1875	-3.08	0.9D + 1.6W	Normal Wind	6.00	100	100	100	145.45	36.00	9.63	1	1	31.81	17.94	32	Member Z
8	150									0.00	0	0						
9	170	SOL - 1" SOLID	-1.20	1.2D + 1.6W	Normal Wind	4.51	100	100	100	151.55	50.00	7.73	0	0			15	Member X
10	185	SOL - 7/8" SOLID	-2.41	1.2D + 1.6W	Normal Wind	4.50	100	100	100	172.76	50.00	4.55	0	0			53	Member X
11	195	SOL - 7/8" SOLID	-0.76	0.9D + 1.6W	90° Wind	4.50	100	100	100	172.76	50.00	4.55	0	0			17	Member X

DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)		Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	Use %	Controls	
							X	Y	Z									
1	20	SAE - 3.5X3.5X0.3125	-9.71	1.2D + 1.6W	Normal Wind	21.92	49	49	49	186.77	36.00	13.54	1	1	43.49	37.5	72	Member Z
2	40	SAE - 3.5X3.5X0.3125	-10.1	1.2D + 1.6W	90° Wind	20.16	49	49	49	171.78	36.00	16.00	1	1	43.49	37.5	63	Member Z
3	60	SAE - 3X3X0.3125	-9.87	1.2D + 1.6W	90° Wind	18.45	49	49	49	184.17	36.00	11.86	1	1	43.49	37.5	83	Member Z

Force/Stress Compression Summary

Structure: CT22108-A-SBA	Code: EIA/TIA-222-G	10/4/2021
Site Name: Windsor Locks @ Volunteer Drive	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 5.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



Page: 15

DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap		Bear Cap (kips)	Use %	Controls
						X	Y	Z					(kips)	(kips)			
4	80	SAE - 3X3X0.3125	-9.71	1.2D + 1.6W 90° Wind	16.80	49	49	49	167.74	36.00	14.29	1	43.49	37.5	68	Member Z	
5	100	SAE - 3X3X0.3125	-9.77	1.2D + 1.6W 90° Wind	15.24	49	49	49	152.17	36.00	17.37	1	31.81	29.9	56	Member Z	
6	120	SAE - 3X3X0.1875	-9.27	1.2D + 1.6W 90° Wind	13.80	49	49	49	136.11	36.00	13.29	1	31.81	17.9	70	Member Z	
7	140	SAE - 2.5X2.5X0.1875	-9.03	1.2D + 1.6W 90° Wind	12.50	49	49	49	148.52	36.00	9.24	1	31.81	17.9	98	Member Z	
8	150	SAE - 2.5X2.5X0.1875	-10.5	1.2D + 1.6W Normal Wind	11.42	49	49	49	135.61	36.00	11.08	1	31.81	17.9	95	Member Z	
9	170	SOL - 7/8" SOLID	-4.00	1.2D + 1.6W 90° Wind	5.51	50	50	50	135.94	50.00	7.35	0			54	Member X	
10	185	SOL - 3/4" SOLID	-3.91	1.2D + 1.6W Normal Wind	5.08	50	50	50	146.35	50.00	4.66	0			84	Member X	
11	195	SOL - 3/4" SOLID	-1.17	1.2D + 1.6W 60° Wind	5.05	50	50	50	145.44	50.00	4.72	0			25	Member X	

Force/Stress Tension Summary

Structure: CT22108-A-SBA	Code: EIA/TIA-222-G	10/4/2021
Site Name: Windsor Locks @ Volunteer Drive	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 5.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



Page: 16

LEG MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Leg Use %	Controls
1	20	12B - 12"BD 2.25"	326.66	0.9D + 1.6W 60° Wind	50	536.85	60.8	Member
2	40	12B - 12"BD 2.25"	296.83	0.9D + 1.6W 60° Wind	50	536.85	55.3	Member
3	60	12B - 12"BD 2"	263.50	0.9D + 1.6W 60° Wind	50	423.90	62.2	Member
4	80	12B - 12"BD 2"	227.49	0.9D + 1.6W 60° Wind	50	423.90	53.7	Member
5	100	12B - 12"BD 1.75"	188.22	0.9D + 1.6W 60° Wind	50	324.45	58.0	Member
6	120	12B - 12"BD 1.75"	143.85	0.9D + 1.6W 60° Wind	50	324.45	44.3	Member
7	140	12B - 12"BD 1.5"	99.78	0.9D + 1.6W 60° Wind	50	238.50	41.8	Member
8	150	12B - 12"BD 1.25"	50.74	0.9D + 1.6W 60° Wind	50	165.60	30.6	Member
9	170	SOL - 2" SOLID	42.28	0.9D + 1.6W 60° Wind	50	141.37	29.9	Member
10	185	SOL - 1 3/4" SOLID	4.60	0.9D + 1.6W 60° Wind	50	108.24	4.3	Member
11	195	SOL - 1 3/4" SOLID	1.17	0.9D + 1.6W 60° Wind	50	108.24	1.2	Bolt Shear

Splices

Sect	Top Elev	Load Case	Top Splice				Load Case	Bottom Splice					
			Force (kips)	Cap (kips)	Use %	Bolt Type		Num Bolts	Force (kips)	Cap (kips)	Use %	Bolt Type	Num Bolts
1	20	0.9D + 1.6W 60° Wind	303.98	0.00	0.0		0.9D + 1.6W 60° Wind	335.4	0.00				
2	40	0.9D + 1.6W 60° Wind	270.97	0.00	0.0		0.9D + 1.6W 60° Wind	303.9	457.92	66.4	1 1/4	A325	6
3	60	0.9D + 1.6W 60° Wind	235.98	0.00	0.0		0.9D + 1.6W 60° Wind	270.9	457.92	59.2	1 1/4	A325	6
4	80	0.9D + 1.6W 60° Wind	197.75	0.00	0.0		0.9D + 1.6W 60° Wind	235.9	457.92	51.5	1 1/4	A325	6
5	100	0.9D + 1.6W 60° Wind	154.28	0.00	0.0		0.9D + 1.6W 60° Wind	197.7	318.06	62.2	1	A325	6
6	120	0.9D + 1.6W 60° Wind	111.22	0.00	0.0		0.9D + 1.6W 60° Wind	154.2	318.06	48.5	1	A325	6
7	140	0.9D + 1.6W 60° Wind	66.50	0.00	0.0		0.9D + 1.6W 60° Wind	111.2	318.06	35.0	1	A325	6
8	150	0.9D + 1.6W 60° Wind	40.62	0.00	0.0		0.9D + 1.6W 60° Wind	66.50	318.06	20.9	1	A325	6
9	170	0.9D + 1.6W Normal Wind	4.41	0.00	0.0		0.9D + 1.6W 60° Wind	40.62	318.06	12.8	1	A325	6
10	185	0.9D + 1.6W 60° Wind	1.14	0.00	0.0		0.9D + 1.6W Normal Wind	4.41	0.00				
11	195		0.00	0.00	0.0		0.9D + 1.6W 60° Wind	1.14	0.00				

HORIZONTAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	B.S. Cap (kips)	Use %	Controls
1	20	-			36	0.00	0	0					
2	40	-			36	0.00	0	0					
3	60	-			36	0.00	0	0					
4	80	-			36	0.00	0	0					
5	100	-			36	0.00	0	0					
6	120	-			36	0.00	0	0					
7	140	SAE - 2.5X2.5X0.1875	3.37	1.2D + 1.6W 60° Wind	36	22.55	1	1	31.81	17.94	10.66	31.6	Blck Shear
8	150	-			36	0.00	0	0					
9	170	SOL - 1" SOLID	2.19	1.2D + 1.6W Normal Wi	50	35.34	0	0				6.2	Member
10	185	SOL - 7/8" SOLID	1.88	1.2D + 1.6W 60° Wind	50	27.06	0	0				6.9	Member
11	195	SOL - 7/8" SOLID	0.99	0.9D + 1.6W 60° Wind	50	27.06	0	0				3.7	Member

DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	B.S. Cap (kips)	Use %	Controls
1	20	SAE - 3.5X3.5X0.3125	9.73	1.2D + 1.6W 90° Wind	36	54.17	1	1	43.49	37.52	23.70	41.0	Blck Shear
2	40	SAE - 3.5X3.5X0.3125	9.81	0.9D + 1.6W 90° Wind	36	54.17	1	1	43.49	37.52	23.70	41.4	Blck Shear
3	60	SAE - 3X3X0.3125	9.47	0.9D + 1.6W 90° Wind	36	44.05	1	1	43.49	37.52	20.30	46.7	Blck Shear
4	80	SAE - 3X3X0.3125	9.36	0.9D + 1.6W 90° Wind	36	44.05	1	1	43.49	37.52	20.30	46.1	Blck Shear

Force/Stress Tension Summary

Structure: CT22108-A-SBA	Code: EIA/TIA-222-G	10/4/2021
Site Name: Windsor Locks @ Volunteer Drive	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 5.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



Page: 17

DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	B.S. Cap (kips)	Use %	Controls
5	100	SAE - 3X3X0.3125	9.68	1.2D + 1.6W 90° Wind	36	46.60	1	1	31.81	29.91	19.47	49.7	Blck Shear
6	120	SAE - 3X3X0.1875	8.92	1.2D + 1.6W 90° Wind	36	28.68	1	1	31.81	17.94	11.68	76.4	Blck Shear
7	140	SAE - 2.5X2.5X0.1875	8.78	1.2D + 1.6W 90° Wind	36	22.55	1	1	31.81	17.94	10.66	82.4	Blck Shear
8	150	SAE - 2.5X2.5X0.1875	9.82	0.9D + 1.6W 60° Wind	36	22.55	1	1	31.81	17.94	10.66	92.1	Blck Shear
9	170	SOL - 7/8" SOLID	3.97	1.2D + 1.6W 90° Wind	50	27.06	0	0				14.7	Member
10	185	SOL - 3/4" SOLID	2.95	1.2D + 1.6W 60° Wind	50	19.88	0	0				14.8	Member
11	195	SOL - 3/4" SOLID	0.87	0.9D + 1.6W 90° Wind	50	19.88	0	0				4.4	Member

Support Forces Summary

Structure: CT22108-A-SBA	Code: EIA/TIA-222-G	10/4/2021
Site Name: Windsor Locks @ Volunteer Drive	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 5.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



Page: 18

Load Case	Node	FX (kips)	FY (kips)	FZ (kips)	(-) = Uplift (+) = Down
<hr style="border-top: 1px dashed black;"/>					
1.2D + 1.6W Normal Wind	1	-0.01	382.89	-38.05	
	1a	13.40	-159.59	-10.35	
	1b	-13.40	-159.58	-10.37	
<hr style="border-top: 1px dashed black;"/>					
1.2D + 1.6W 60° Wind	1	-2.09	197.69	-19.24	
	1a	-17.59	194.73	7.88	
	1b	-29.36	-328.71	-16.95	
<hr style="border-top: 1px dashed black;"/>					
1.2D + 1.6W 90° Wind	1	-2.53	21.33	-1.57	
	1a	-28.56	325.31	15.17	
	1b	-26.08	-282.92	-13.60	
<hr style="border-top: 1px dashed black;"/>					
0.9D + 1.6W Normal Wind	1	-0.01	376.96	-37.64	
	1a	13.74	-164.59	-10.56	
	1b	-13.73	-164.58	-10.57	
<hr style="border-top: 1px dashed black;"/>					
0.9D + 1.6W 60° Wind	1	-2.11	192.06	-18.83	
	1a	-17.24	189.15	7.66	
	1b	-29.70	-333.43	-17.15	
<hr style="border-top: 1px dashed black;"/>					
0.9D + 1.6W 90° Wind	1	-2.55	16.00	-1.17	
	1a	-28.20	319.51	14.96	
	1b	-26.42	-287.72	-13.79	
<hr style="border-top: 1px dashed black;"/>					
1.2D + 1.0Di + 1.0Wi Normal Wind	1	0.00	171.04	-10.17	
	1a	5.25	-0.31	-3.60	
	1b	-5.25	-0.27	-3.60	
<hr style="border-top: 1px dashed black;"/>					
1.2D + 1.0Di + 1.0Wi 60° Wind	1	-0.52	113.40	-4.59	
	1a	-4.16	111.75	1.88	
	1b	-10.10	-54.70	-5.83	
<hr style="border-top: 1px dashed black;"/>					
1.2D + 1.0Di + 1.0Wi 90° Wind	1	-0.62	56.98	0.83	
	1a	-7.53	153.10	4.05	
	1b	-9.00	-39.63	-4.88	
<hr style="border-top: 1px dashed black;"/>					
1.0D + 1.0W Normal Wind	1	0.00	105.40	-10.26	
	1a	2.43	-26.16	-2.05	
	1b	-2.43	-26.15	-2.05	
<hr style="border-top: 1px dashed black;"/>					
1.0D + 1.0W 60° Wind	1	-0.54	60.52	-5.66	
	1a	-5.14	59.75	2.38	
	1b	-6.32	-67.18	-3.65	
<hr style="border-top: 1px dashed black;"/>					
1.0D + 1.0W 90° Wind	1	-0.64	17.76	-1.34	
	1a	-7.82	91.41	4.17	
	1b	-5.52	-56.08	-2.83	

Max Reactions

Leg	Overturning
Max Uplift: -333.43 (kips)	Moment: 6263.98 (ft-kips)
Max Down: 382.89 (kips)	Total Down: 63.71 (kips)
Max Shear: 38.05 (kips)	Total Shear: 58.77 (kips)

Analysis Summary

Structure: CT22108-A-SBA	Code: EIA/TIA-222-G	10/4/2021
Site Name: Windsor Locks @ Volunteer Drive	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 5.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II
		Page: 19



Max Reactions

	Leg	Overturning
Max Uplift:	-333.43 (kips)	Moment: 6263.98 (ft-kips)
Max Down:	382.89 (kips)	Total Down: 63.71 (kips)
Max Shear:	38.05 (kips)	Total Shear: 58.77 (kips)

Anchor Bolts

Bolt Size (in.): 1.25	Number Bolts: 6
Yield Strength (Ksi): 105.00	Tensile Strength (Ksi): 150.00
Detail Type: C	

Interaction Ratio: 0.58

Max Usages

Max Leg: 74.2% (1.2D + 1.6W Normal Wind - Sect 3)
 Max Diag: 97.8% (1.2D + 1.6W 90° Wind - Sect 7)
 Max Horiz: 52.9% (1.2D + 1.6W Normal Wind - Sect 10)

Max Deflection, Twist and Sway

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)
0.9D + 1.6W 97 mph Wind at 60° From Face	60.00	0.1840	0.0290	0.3469
	70.00	0.2477	-0.0110	0.4078
	100.00	0.5187	0.0547	0.6343
	110.00	0.6364	0.0616	0.7084
	130.00	0.9113	0.0780	0.8775
	150.00	1.2417	0.1019	1.0486
	164.79	1.5208	1.4391	1.1271
	170.42	1.6234	1.9135	1.9771
0.9D + 1.6W 97 mph Wind at 90° From Face	195.00	2.0985	2.1994	1.3967
	60.00	0.1836	-0.0312	0.3475
	70.00	0.2475	-0.0368	0.4071
	100.00	0.5180	-0.0584	0.6324
	110.00	0.6355	-0.0645	0.7035
	130.00	0.9089	-0.0749	0.8728
	150.00	1.2387	-0.0841	1.0335
	164.79	1.5135	-0.3789	1.0449
0.9D + 1.6W 97 mph Wind at Normal To Face	170.42	1.6026	-0.4694	0.8042
	195.00	2.0639	-0.4689	1.1131
	60.00	0.1900	0.0025	0.3579
	70.00	0.2579	0.0001	0.4193
	100.00	0.5350	0.0027	0.6579
	110.00	0.6566	0.0030	0.7394
	130.00	0.9413	0.0066	0.9101
	150.00	1.2857	-0.0045	1.0930
164.79	1.5829	-0.2825	1.2565	
170.42	1.7227	-0.3696	3.5071	
195.00	2.2480	0.3552	2.5957	

1.0D + 1.0W 60 mph Wind at 60° From Face	60.00	0.0445	-0.0055	0.0838
	70.00	0.0602	-0.0064	0.0986
	100.00	0.1254	-0.0101	0.1529
	110.00	0.1539	-0.0111	0.1713
	130.00	0.2201	-0.0125	0.2109
	150.00	0.3002	0.0132	0.2533
	164.79	0.3674	0.1383	0.2650
	170.42	0.3921	0.1800	0.4500
	195.00	0.5063	0.1811	0.3141

1.0D + 1.0W 60 mph Wind at 90° From Face	60.00	0.0447	-0.0075	0.0842
	70.00	0.0601	-0.0089	0.0986
	100.00	0.1257	-0.0141	0.1529
	110.00	0.1540	-0.0156	0.1702
	130.00	0.2202	-0.0181	0.2106
	150.00	0.2995	-0.0203	0.2497
	164.79	0.3657	-0.0917	0.2516
	170.42	0.3872	-0.1134	0.1907
	195.00	0.4982	-0.1120	0.2680

1.0D + 1.0W 60 mph Wind at Normal To Face	60.00	0.0463	0.0007	0.0869
	70.00	0.0628	0.0000	0.1016
	100.00	0.1300	0.0008	0.1594
	110.00	0.1594	0.0009	0.1789
	130.00	0.2284	0.0018	0.2202
	150.00	0.3111	0.0014	0.2629
	164.79	0.3828	-0.0641	0.3027
	170.42	0.4165	-0.0832	0.8405
	195.00	0.5433	0.0812	0.6232

1.2D + 1.0Di + 1.0Wi 50 mph Wind at 60° From Face	60.00	0.0596	0.0072	0.1120
	70.00	0.0791	-0.0050	0.1327
	100.00	0.1689	0.0136	0.2100
	110.00	0.2081	0.0154	0.2381
	130.00	0.3004	0.0198	0.3004
	150.00	0.4165	0.0254	0.3739
	164.79	0.5178	0.3844	0.4090
	170.42	0.5553	0.5063	0.9504
	195.00	0.7342	0.5136	1.0657


1.2D + 1.0Di + 1.0Wi 50 mph Wind at 90° From Face	60.00	0.0590	-0.0094	0.1121
	70.00	0.0790	-0.0111	0.1319
	100.00	0.1676	-0.0177	0.2090
	110.00	0.2065	-0.0198	0.2351
	130.00	0.2986	-0.0237	0.2980
	150.00	0.4129	-0.0279	0.3649
	164.79	0.5116	-0.1767	0.3754
	170.42	0.5423	-0.2222	0.5487
	195.00	0.7118	-0.2205	0.7319

1.2D + 1.0Di + 1.0Wi 50 mph Wind at Normal From Face	60.00	0.0597	0.0006	0.1157
	70.00	0.0813	0.0000	0.1358
	100.00	0.1729	0.0008	0.2186
	110.00	0.2134	-0.0010	0.2476
	130.00	0.3109	-0.0019	0.3151
	150.00	0.4315	-0.0005	0.3890
	164.79	0.5414	-0.1428	0.4838
	170.42	0.5979	-0.1848	1.6416
	195.00	0.8054	0.1801	1.6861

1.2D + 1.6W 97 mph Wind at 60° From Face	60.00	0.1843	0.0291	0.3476
	70.00	0.2481	-0.0109	0.4087
	100.00	0.5197	0.0549	0.6358
	110.00	0.6378	0.0617	0.7104
	130.00	0.9133	0.0783	0.8799
	150.00	1.2449	0.1022	1.0521
	164.79	1.5248	1.4429	1.1307
	170.42	1.6277	1.9186	1.9796
	195.00	2.1043	2.2078	1.3988

1.2D + 1.6W 97 mph Wind at 90° From Face	60.00	0.1840	-0.0312	0.3483
	70.00	0.2480	-0.0369	0.4080
	100.00	0.5190	-0.0584	0.6340
	110.00	0.6368	-0.0646	0.7054
	130.00	0.9109	-0.0750	0.8752
	150.00	1.2417	-0.0842	1.0368
	164.79	1.5174	-0.3789	1.0483
	170.42	1.6068	-0.4693	0.8009
	195.00	2.0696	-0.4687	1.1165

1.2D + 1.6W 97 mph Wind at Normal To Face	60.00	0.1903	0.0026	0.3587
	70.00	0.2584	0.0001	0.4202
	100.00	0.5363	0.0028	0.6597
	110.00	0.6582	0.0031	0.7414
	130.00	0.9437	0.0067	0.9129
	150.00	1.2890	-0.0046	1.0961
	164.79	1.5871	-0.2825	1.2603
	170.42	1.7273	-0.3697	3.5132
	195.00	2.2543	0.3551	2.5997

	Mat Foundation Design for Self Supporting Tower			Date 10/4/2021
	Customer Name:	SBA Communications Corp	EIA/TIA Standard:	EIA-222-G
	Site Name:		Structure Height (Ft.):	195
	Site Number:	CT22108-A-SBA	Engineer Name:	J. Tibbetts
	Engr. Number:	117027	Engineer Login ID:	

Foundation Info Obtained from:

Analysis or Design?

Number of Tower Legs:

Base Reactions (Factored):

(1). Individual Leg:

Axial Load (Kips):	382.9	Uplift Force (Kips):	333.4
Shear Force (Kips):	38.1		

(2). Tower Base:

Total Vertical Load (Kips):	63.7	Total Shear Force (Kips):	58.8
Moment (Kips-ft):	6264.0		

Foundation Geometries:

Leg distance (Center-to-Center ft.):	20.0	Mods required -Yes/No ?:	No
Diameter of Pier (ft.):	Round 2.9	Pier Height A. G. (ft.):	5.00
Tower center to mat center (ft):	0	Depth of Base BG (ft.):	10.0
Length of Pad (ft.):	29.5	Width of Pad (ft.):	29.5
Thickness of Pad (ft):	3.50		

Material Properties and Rebar Info:

Concrete Strength (psi):	4500	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi):	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	8	Tie / Stirrup Size #:	4	
Qty. of Vertical Rebars:	27	Tie Spacing (in):	12.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	9	
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf

Rebar at the bottom of the concrete pad:

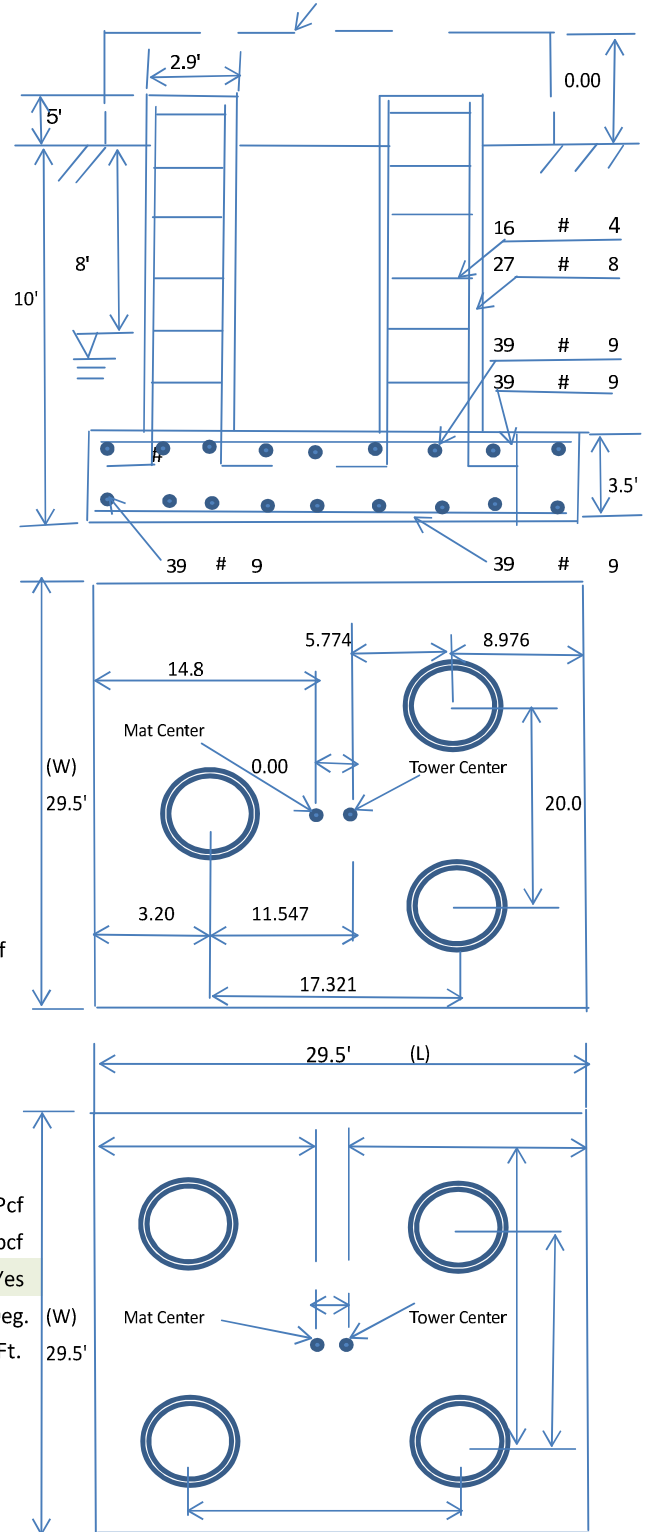
Qty. of Rebar in Pad (L):	39	Qty. of Rebar in Pad (W):	39
---------------------------	----	---------------------------	----

Rebar at the top of the concrete pad:

Qty. of Rebar in Pad (L):	39	Qty. of Rebar in Pad (W):	39
---------------------------	----	---------------------------	----

Soil Design Parameters:

Soil Unit Weight (pcf):	100.0	Soil Buoyant Weight:	50.0	Pcf
Water Table B.G.S. (ft):	8.0	Unit Weight of Water:	62.4	pcf
Ultimate Bearing Pressure (psf):	7000	Consider ties in concrete shear strength:	Yes	
Consider Soil Lateral Resistance ?	Yes	Enter soil C (psf) or Phi (deg.):	30.0	Deg. (W)
		Depth to ignor lateral resistance	1.0	Ft. (W)



Apply 1.35 for e/w per G/H:

Foundation Analysis and Design: Uplift Strength Reduction Factor:

Total Dry Soil Volume (cu. Ft.):	5527.82
Total Buoyant Soil Volume (cu. Ft.):	
Total Effective Soil Weight (Kips):	552.78
Total Dry Concrete Volume (cu. Ft.):	1533.25
Total Buoyant Concrete Volume (cu. Ft.):	1740.50
Total Effective Concrete Weight (Kips):	382.46

Compression Strength Reduction Factor:

Total Dry Soil Weight (Kips):	
Total Buoyant Soil Weight (Kips):	
Weight from the Concrete Block at Top (K):	
Total Dry Concrete Weight (Kips):	
Total Buoyant Concrete Weight (Kips):	
Total Vertical Load on Base (Kips):	

Check Soil Capacities:

Calculated Maxium Net Soil Pressure under the base (psf):
 Allowable Foundation Overturning Resistance (kips-ft.):
 Factor of Safety Against Overturning (O. R. Moment/Design Moment):

< Allowable Factored Soil Bearing (psf):
 Design Factored Momont (kips-ft):

Load/
Capacity
Ratio

Check the capacities of Reinforcing Concrete:

Strength reduction factor (Flexure and axial tension):
 Strength reduction factor (Axial compression):

Strength reduction factor (Shear):
 Wind Load Factor on Concrete Design:

ad
Capacity
Ratio

(1) Concrete Pier:

Vertical Steel Rebar Area (sq. in./each):
 Calculated Moment Capacity (Mn,Kips-Ft):
 Calculated Shear Capacity (Kips):
 Calculated Tension Capacity (Tn, Kips):
 Calculated Compression Capacity (Pn, Kips):
 Moment & Tension Strength Combination:
 Pier Reinforcement Ratio:

Tie / Stirrup Area (sq. in./each):
 > Design Factored Moment (Mu, Kips-Ft)
 > Design Factored Shear (Kips):
 > Design Factored Tension (Tu Kips):
 > Design Factored Axial Load (Pu Kips):
 OK! Check Tie Spacing (Design/Req'd):
 Reinforcement Ratio is satisfied per ACI

(2).Concrete Pad:

One-Way Design Shear Capacity (L or W Direction, Kips):
 One-Way Design Shear Capacity (Diagonal Dir., Kips):
 Lower Steel Pad Reinforcement Ratio (L or W-Direct.):
 Lower Steel Pad Moment Capacity (L or W-Dir. Kips-ft):
 Lower Steel Pad Moment Capacity (Dia. Direction,K-ft):
 Upper Steel Pad Reinforcement Ratio (L or W -Direction):
 Upper Steel Pad Moment Capacity (L or W-Dir., Kips-ft):
 Upper Steel Pad Moment Capacity (Dia. Direction, K-ft):
 Punching Failure Capacity (Kips):

One-Way Factored Shear (L/W-Dir Kips)
 One-Way Factored Shear (Dia. Dir, Kips)
 Lower Steel Reinf. Ratio (Dia. Dir.):
 Moment at Bottom (L-Direct. K-Ft):
 Moment at Bottom (Dia. Dir. K-Ft):
 Upper Steel Reinf. Ratio (Dia. Dir.):
 Moment at the top (L-Dir Kips-Ft):
 Moment at the top (Dia. Dir., K-Ft):
 Punch. Failure Factored Shear (K):



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

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10025276
 Maser Consulting Connecticut Project #: 20777395A

April 13, 2021

Site Information

Site ID: 467225-VZW / Windsor Locks NE CT
 Site Name: Windsor Locks NE CT
 Carrier Name: Verizon Wireless
 Address: 4 Volunteer Road
 Windsor Locks, Connecticut 06096
 Hartford County
 Latitude: 41.928106°
 Longitude: -72.646772°

Structure Information

Tower Type: Self-Support
 Mount Type: (3) 12.79-Ft T-Frames

FUZE ID # 16244129

Analysis Results

Sector Frame **60.8% 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



Digitally signed by Taqi Khawaja-Ghulam
 Date: 2021.04.13 13:08:56 -0400

Report Prepared By: Zachary Bandilla

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: 675105, dated November 12, 2020</i>
<i>Mount Mapping Report</i>	<i>Delta Oaks Group, Site ID: 467225, dated November 9, 2020</i>
<i>Previous Mount Analysis</i>	<i>Maser Consulting Connecticut, Project #: 20777395A, Dated November 24, 2020</i>
<i>Mount Modification Drawings</i>	<i>Maser Consulting Connecticut, Project #: 20777395A, Dated April 12, 2021</i>

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 116 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 : 0.996
Seismic Parameters:	S_s : 0.175 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
151.50	151.50	3	Samsung	MT6407-77A	Added
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		6	Andrew	SBNHH-1D65B	Retained
		3	Raycap	RRFDC-3315-PF-48*	
		3	Amphenol Antel	BXA-70063-6CF-5	

* Equipment to be flush mounted directly to the tower. They are not mounted on T-Frame and are not included in this mount analysis.

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
<i>Antenna Pipe</i>	<i>34.9%</i>	<i>Pass</i>
<i>Stabilizer</i>	<i>4.6%</i>	<i>Pass</i>
<i>Standoff Diagonal</i>	<i>5.3%</i>	<i>Pass</i>
<i>Standoff Vertical</i>	<i>7.9%</i>	<i>Pass</i>
<i>End Plate</i>	<i>45.9%</i>	<i>Pass</i>
<i>Standoff Horizontal</i>	<i>15.4%</i>	<i>Pass</i>
<i>Face Vertical</i>	<i>43.5%</i>	<i>Pass</i>
<i>Horizontal Face</i>	<i>60.8%</i>	<i>Pass</i>
<i>Mod Horizontal</i>	<i>60.1%</i>	<i>Pass</i>
<i>Mod Bracing</i>	<i>32.6%</i>	<i>Pass</i>
<i>Connection check</i>	<i>6.0%</i>	<i>Pass</i>
Structure Rating – (Controlling Utilization of all Components)		60.8%

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.

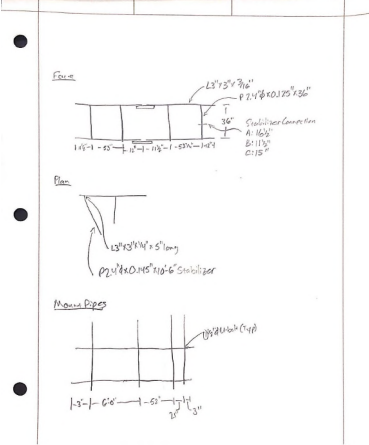
Attachments:

1. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
4. **Contractor Required PMI Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Wind Speed Usage and Adoption Letter



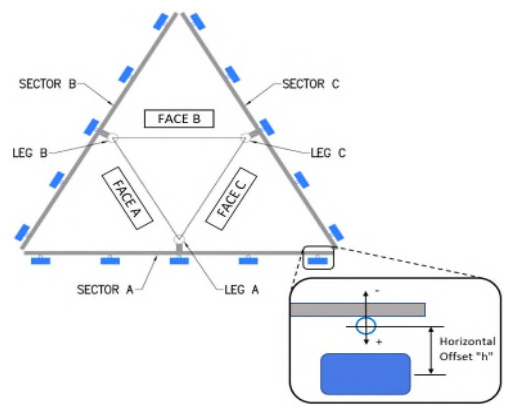
	Antenna Mount Mapping Form (PATENT PENDING)			FCC #
				1203277
Tower Owner:	Town of Windsor Locks, CT (SBA)	Mapping Date:	11/9/2020	
Site Name:	Windsor Locks NE CT	Tower Type:	Self Support	
Site Number or ID:	467225	Tower Height (Ft.):	Unknown	
Mapping Contractor:	Delta Oaks Group	Mount Elevation (Ft.):	151.5	

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



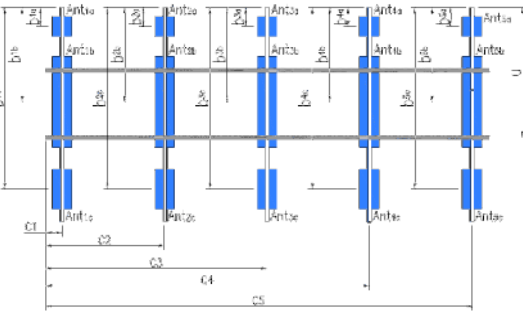
Unit from the
sheeters here.

Scanned with CamScanner

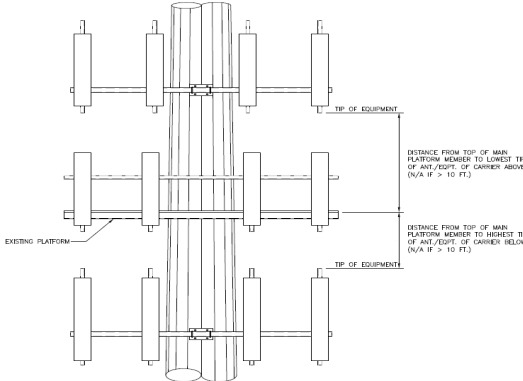
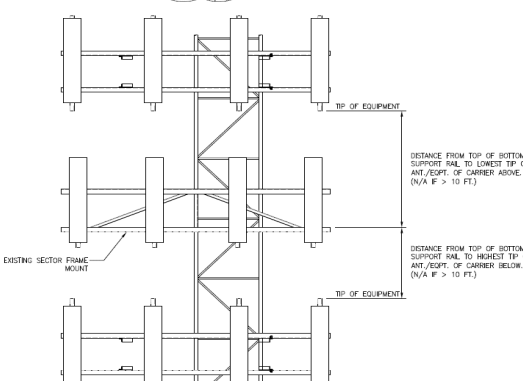
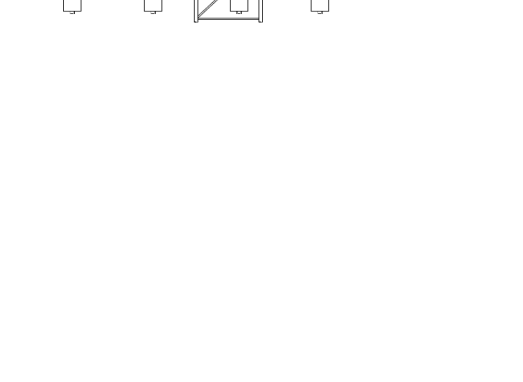
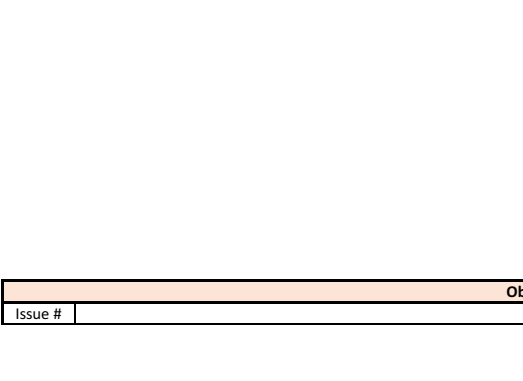

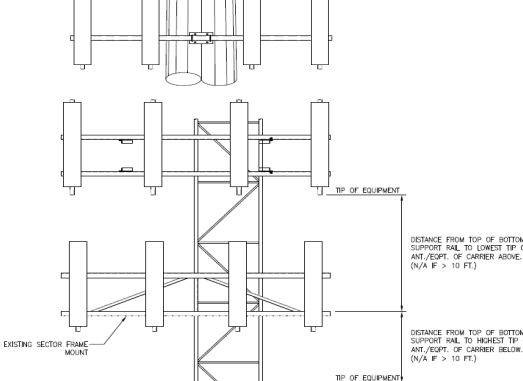
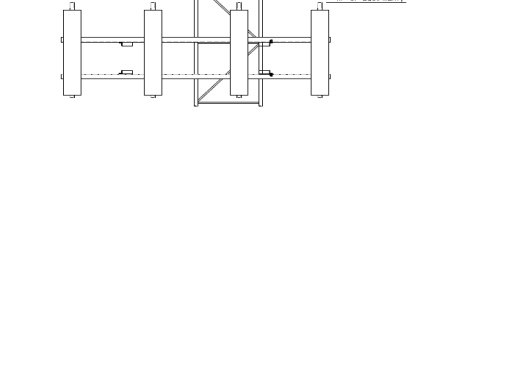

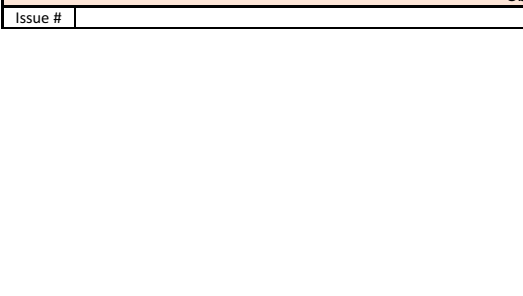

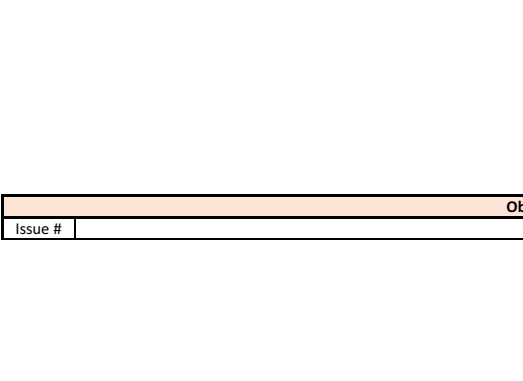



Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "U"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "U"	Horizontal Offset "C1, C2, C3, etc."
A1	2.4"x0.14"x72"	53.00	3.00	C1	2.4"x0.14"x72"	53.00	3.00
A2	2.4"x0.14"x72"	53.00	75.00	C2	2.4"x0.14"x72"	53.00	75.00
A3	2.4"x0.14"x72"	53.00	127.00	C3	2.4"x0.14"x72"	53.00	127.00
A4	2.4"x0.14"x72"	53.00	148.00	C4	2.4"x0.14"x72"	53.00	148.00
A5				C5			
A6				C6			
B1	2.4"x0.14"x72"	53.00	3.00	D1	2.4"x0.14"x72"		
B2	2.4"x0.14"x72"	53.00	75.00	D2	2.4"x0.14"x72"		
B3	2.4"x0.14"x72"	53.00	127.00	D3	2.4"x0.14"x72"		
B4	2.4"x0.14"x72"	53.00	148.00	D4	2.4"x0.14"x72"		
B5				D5			
B6				D6			
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details.:							18.00
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.):							2.5
Please enter additional information or comments below.							
(1) RRFC-3315-PF-48 ON EACH LEG AT 18" ABOVE THE MOUNT CENTERLINE.							
Tower Face Width at Mount Elev. (ft.):		5.5	Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):		1 1/4		

Ants. Items	Enter antenna model. If not labeled, enter "Unknown".						Mounting Locations [Units are inches and degrees]			Photos of antennas
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b _{1a} , b _{2a} , b _{3a} , b _{1b} ,..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
Sector A										
Ant _{1a}	SBNHH-1D65B	11.90	7.10	72.00	FH, (2) 1	151.833	31.00	7.50	265.00	173
Ant _{1b}	B66A RRH 4X45	11.80	7.20	25.80		151.833	31.00	7.00		179
Ant _{1c}										
Ant _{2a}	BXA-70063-6CF-EDIN	11.20	5.20	71.00		151.083	40.00	11.00	265.00	185
Ant _{2b}										
Ant _{2c}										
Ant _{3a}	B13 RRH 4X30	11.80	7.50	20.90		153.083	16.00	-6.00		186
Ant _{3b}										
Ant _{3c}										
Ant _{4a}	SBNHH-1D65B	11.90	7.10	72.00		151.75	32.00	8.00	265.00	230
Ant _{4b}	B25 RRH 4X30	12.00	7.20	21.20		152	29.00	-7.00		237
Ant _{4c}										
Ant _{5a}	BXA-70063-6CF-EDIN	11.20	5.20	71.00		147	36.00	12.00	265.00	243
Ant _{5b}										
Ant _{5c}										
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:	265.00	Deg	Leg A:	331.00	Deg	Ant _{1a}	SBNHH-1D65B	11.90	7.10	72.00		151.833	31.00	7.50	48.00	47
Sector B:	48.00	Deg	Leg B:	91.00	Deg	Ant _{1b}	B66A RRH 4X45	11.80	7.20	25.80		151.833	31.00	7.00		49
Sector C:	165.00	Deg	Leg C:	211.00	Deg	Ant _{1c}										
Sector D:		Deg	Leg D:		Deg	Ant _{2a}	UNKNOWN	12.00	7.25	72.75		151.083	40.00	11.00	48.00	56
Climbing Facility Information						Ant _{2b}										
Location:	211.00	Deg	On Leg A			Ant _{2c}										
Climbing Facility	Corrosion Type:		Good condition.			Ant _{3a}	B13 RRH 4X30	11.80	7.50	20.90		153.083	16.00	-6.00		58
	Access:		Climbing path was unobstructed.			Ant _{3b}										
	Condition:		Good condition.			Ant _{3c}										
						Ant _{4a}	SBNHH-1D65B	11.90	7.10	72.00		151.75	32.00	8.00	48.00	63
						Ant _{4b}	B25 RRH 4X30	12.00	7.20	21.20		152	29.00	-7.00		65
						Ant _{4c}										
						Ant _{5a}	BXA-70063-6CF-EDIN	11.20	5.20	71.00		147	36.00	12.00	48.00	68
						Ant _{5b}										
						Ant _{5c}										
						Ant on Standoff										
						Ant on Standoff										
						Ant on Tower										
						Ant on Tower										
Sector C						Ant _{1a}	SBNHH-1D65B	11.90	7.10	72.00		151.833	31.00	7.50	165.00	253
						Ant _{1b}	B66A RRH 4X45	11.80	7.20	25.80		151.833	31.00	7.00		248
						Ant _{1c}										
						Ant _{2a}	BXA-70063-6CF-EDIN	11.20	5.20	71.00		151.083	40.00	11.00	165.00	255
						Ant _{2b}										
						Ant _{2c}										
						Ant _{3a}	B13 RRH 4X30	11.80	7.50	20.90		153.083	16.00	-6.00		259
						Ant _{3b}										
						Ant _{3c}										
						Ant _{4a}	SBNHH-1D65B	11.90	7.10	72.00		151.75	32.00	8.00	165.00	264
						Ant _{4b}	B25 RRH 4X30	12.00	7.20	21.20		152	29.00	-7.00		268
						Ant _{4c}										
						Ant _{5a}	BXA-70063-6CF-EDIN	11.20	5.20	71.00		147	36.00	12.00	165.00	270
						Ant _{5b}										
						Ant _{5c}										
						Ant on Standoff										
						Ant on Standoff										
						Ant on Tower										
						Ant on Tower										
Sector D						Ant _{1a}										
						Ant _{1b}										
						Ant _{1c}										
						Ant _{2a}										
						Ant _{2b}										
						Ant _{2c}										
						Ant _{3a}										
						Ant _{3b}										
						Ant _{3c}										
						Ant _{4a}										
						Ant _{4b}										
						Ant _{4c}										
						Ant _{5a}										
						Ant _{5b}										
						Ant _{5c}										
						Ant on Standoff										
						Ant on Standoff										
						Ant on Tower										
						Ant on Tower										

Observed Safety and Structural Issues During the Mount Mapping

Issue #	Description of Issue	Photo #

1		
2		
3		
4		
5		
6		
7		
8		

Mapping Notes

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

Standard Conditions

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



Antenna Mount Mapping Form (PATENT PENDING)

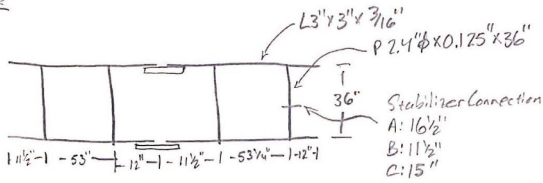
FCC #
1203277

Tower Owner:	Town of Windsor Locks, CT (SBA)	Mapping Date:	11/9/2020
Site Name:	Windsor Locks NE CT	Tower Type:	Self Support
Site Number or ID:	467225	Tower Height (Ft.):	Unknown
Mapping Contractor:	Delta Oaks Group	Mount Elevation (Ft.):	151.5

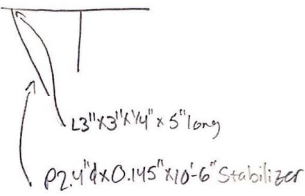
This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is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

Please Insert Sketches of the Antenna Mount

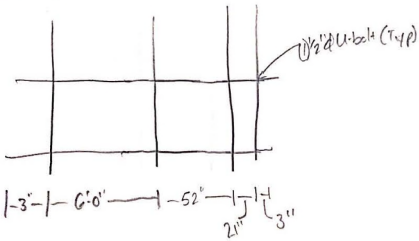
Front

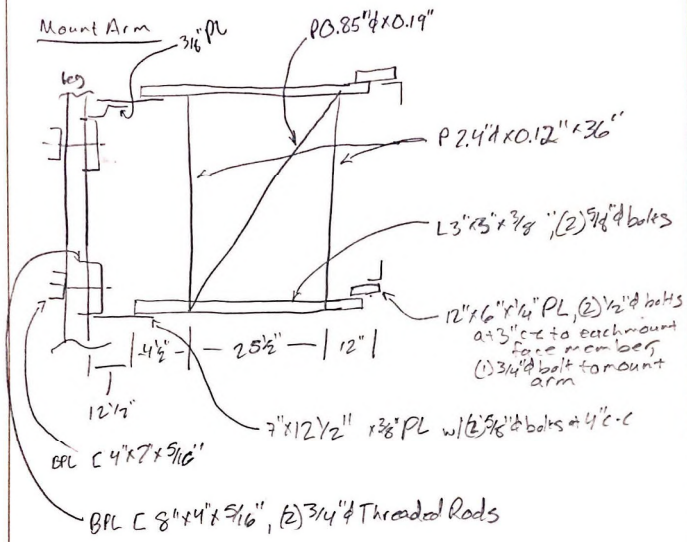


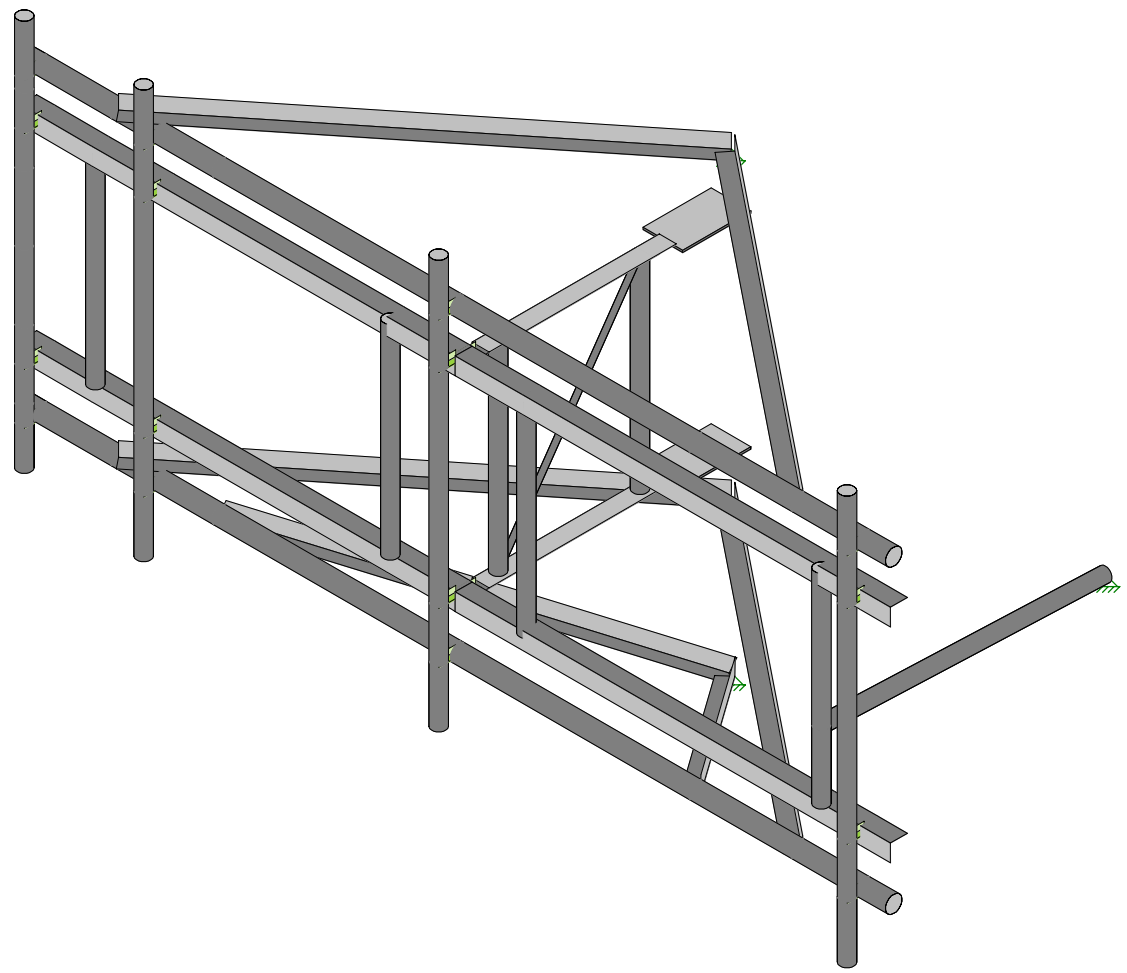
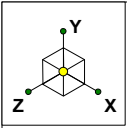
Plan



Mount Pipes

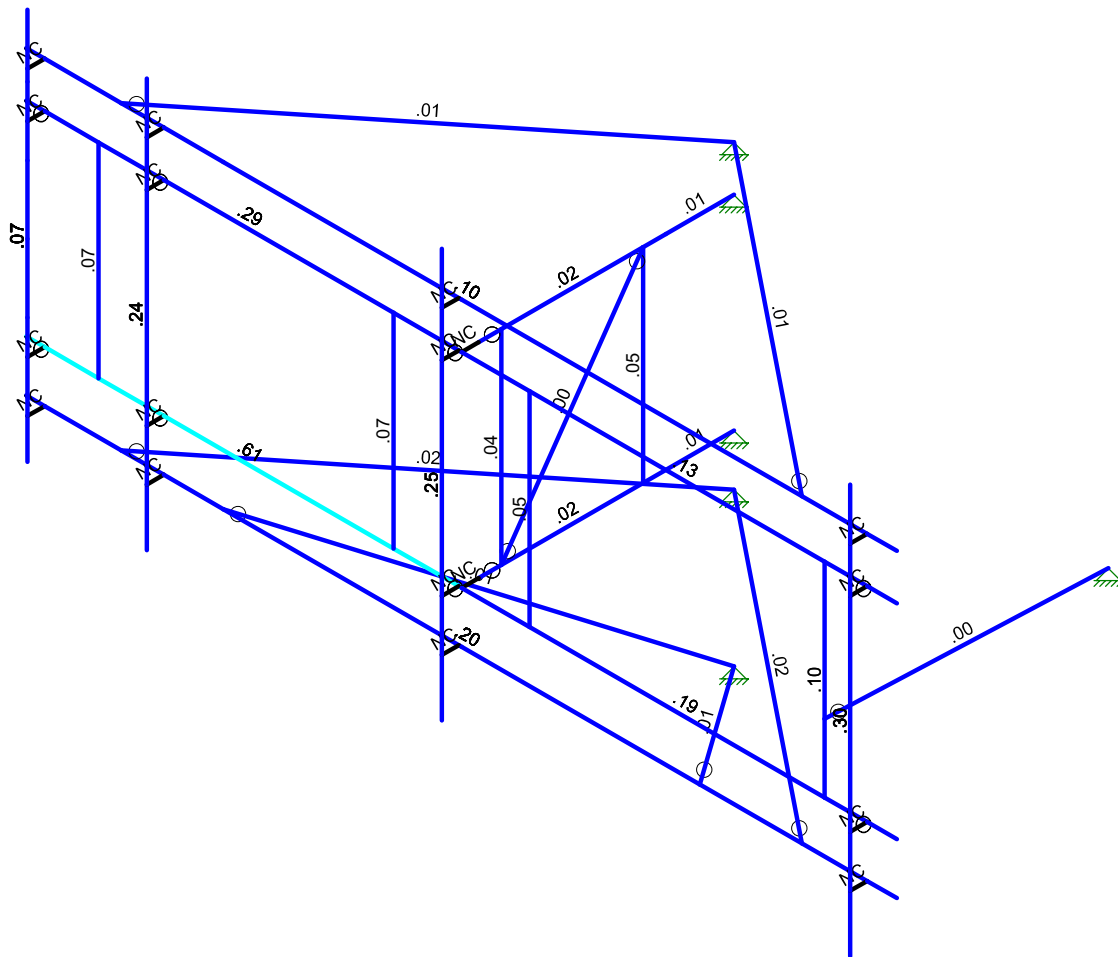
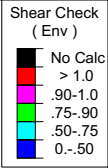
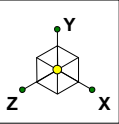






Envelope Only Solution

Maser Consulting	467225-VZW_MT_LOT_SectorA_H	SK - 1
AE		Apr 11, 2021 at 3:18 PM
Project No. 10019508		467225-VZW_MT_LOT_A_H - Mo...



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	467225-VZW_MT_LOT_SectorA_H	SK - 3
AE		Apr 11, 2021 at 3:18 PM
Project No. 10019508		467225-VZW_MT_LOT_A_H - Mo...



Basic Load Cases

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



Basic Load Cases (Continued)

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

Load Combinations

	Description	Solve	P...	SR..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..
1	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	3	1	41	1							
2	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	4	1	42	1							
3	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	5	1	43	1							
4	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	6	1	44	1							
5	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	7	1	45	1							
6	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	8	1	46	1							
7	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	9	1	47	1							
8	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	10	1	48	1							
9	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	11	1	49	1							
10	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	12	1	50	1							
11	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	13	1	51	1							
12	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	14	1	52	1							
13	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1			
14	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1			
15	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1			
16	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1			
17	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1			
18	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1			
19	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1			
20	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1			
21	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1			
22	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1			
23	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1			
24	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1			
25	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1					
26	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1					
27	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1					
28	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1					



Load Combinations (Continued)

	Description	Solve	P...	SR...	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..
29	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1	
30	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1	
31	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1	
32	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1	
33	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1	
34	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1	
35	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1	
36	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1	
37	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1	
38	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1	
39	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1	
40	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1	
41	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1	
42	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1	
43	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1	
44	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1	
45	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1	
46	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1	
47	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1	
48	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1	
49	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	79	1.5					
50	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	80	1.5					
51	1.4D	Yes	Y		1	1.4	39	1.4							
52	Seismic M...		Y		1	1	39	1							
53	1.2D + 1.0...		Y		1	1.2	39	1.2	SX		SY	1	SZ	-1	
54	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866	
55	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5	
56	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	1	SY	1	SZ		
57	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5	
58	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866	
59	1.2D + 1.0...		Y		1	1.2	39	1.2	SX		SY	1	SZ	1	
60	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866	
61	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5	
62	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	-1	SY	1	SZ		
63	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5	
64	1.2D + 1.0...		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	-4	0	4	0	
2	N2	-10.395833	0	4	0	
3	N3	2.395833	0	4	0	
4	N4	1.333333	0	4	0	
5	N5	-3	0	4	0	
6	N6	-5	0	4	0	
7	N7	-9.333333	0	4	0	
8	N12	-10.125	0	4	0	
9	N13	-10.125	0	4.25	0	
10	N16	-4	3	4	0	
11	N17	-10.395833	3	4	0	
12	N18	2.395833	3	4	0	
13	N19	1.333333	3	4	0	
14	N20	-3	3	4	0	
15	N21	-5	3	4	0	
16	N22	-9.333333	3	4	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
17	N23	-10.125	3	4	0	
18	N24	-10.125	3	4.25	0	
19	N31	-3.999999	0	3.75	0	
20	N32	-3.999999	3	3.75	0	
21	N33	-3.999986	0	0.	0	
22	N34	-3.999986	3	-0.	0	
23	N35	-3.99999	0	1.	0	
24	N36	-3.99999	3	1.	0	
25	N37	-10.125	4.416667	4.25	0	
26	N41	-10.125	-1.333333	4.25	0	
27	N47	-3.999999	3	3.416667	0	
28	N48	-3.999999	0	3.416667	0	
29	N49	-3.999999	3	1.333333	0	
30	N50	-3.999999	0	1.333333	0	
31	N50A	1.333333	1	4	0	
32	N33A	-8.375	0	4	0	
33	N34A	-8.375	0	4.25	0	
34	N35A	-8.375	3	4	0	
35	N36A	-8.375	3	4.25	0	
36	N37A	-8.375	4.416667	4.25	0	
37	N38	-8.375	-1.583333	4.25	0	
38	N39	-4.041667	0	4	0	
39	N40	-4.041667	0	4.25	0	
40	N41A	-4.041667	3	4	0	
41	N42	-4.041667	3	4.25	0	
42	N43	-4.041667	4.416667	4.25	0	
43	N44	-4.041667	-1.583333	4.25	0	
44	N45	1.958333	0	4	0	
45	N46	1.958333	0	4.25	0	
46	N47A	1.958333	3	4	0	
47	N48A	1.958333	3	4.25	0	
48	N49A	1.958333	4.416667	4.25	0	
49	N50B	1.958333	-1.583333	4.25	0	
50	N51	1.500014	1	0	0	
51	N51A	-10.125	-5	4.25	0	
52	N52	-10.125	3.5	4.25	0	
53	N53	-10.125	1.5	4.25	0	
54	N54	-10.125	2.5	4.25	0	
55	N55	-10.125	.5	4.25	0	
56	N56	-10.395833	-.75	4	0	
57	N57	2.395833	-.75	4	0	
58	N58	-10.125	-.75	4	0	
59	N59	-10.125	-.75	4.25	0	
60	N60	-8.375	-.75	4	0	
61	N61	-8.375	-.75	4.25	0	
62	N62	-4.041667	-.75	4	0	
63	N63	-4.041667	-.75	4.25	0	
64	N64	1.958333	-.75	4	0	
65	N65	1.958333	-.75	4.25	0	
66	N66	-4.	-.75	4	0	
67	N67	-3.999986	-.75	0.	0	
68	N68	1.	-.75	4	0	
69	N69	-9.	-.75	4	0	
70	N71	-0.5	-.75	4	0	
71	N72	-7.5	-.75	4	0	
72	N73	-10.395833	3.667	4	0	
73	N74	2.395833	3.667	4	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
74	N75	-10.125	3.667	4	0	
75	N76	-10.125	3.667	4.25	0	
76	N77	-8.375	3.667	4	0	
77	N78	-8.375	3.667	4.25	0	
78	N79	-4.041667	3.667	4	0	
79	N80	-4.041667	3.667	4.25	0	
80	N81	1.958333	3.667	4	0	
81	N82	1.958333	3.667	4.25	0	
82	N83	-4.	3.667	4	0	
83	N84	-3.999986	3.667	0.	0	
84	N85	1.	3.667	4	0	
85	N86	-9.	3.667	4	0	
86	N87	-0.5	3.667	4	0	
87	N88	-7.5	3.667	4	0	
88	N88A	-3.999986	-3	0.	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design L...	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE 2.0	None	None	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Horizontal Face	L3X3X3	None	None	A36 Gr.36	Typical	1.09	.948	.948	.014
3	Face Vertical	PIPE 2.0	None	None	A53 Gr. B	Typical	1.02	.627	.627	1.25
4	Standoff Horizontal	L3X3X6	None	None	A36 Gr.36	Typical	2.11	1.75	1.75	.101
5	Standoff Vertical	PIPE 2.0	None	None	A53 Gr. B	Typical	1.02	.627	.627	1.25
6	Standoff Diagonal	SR 0.875	None	None	A36 Gr.36	Typical	.601	.029	.029	.058
7	Stabilizer	PIPE 2.0	None	None	A53 Gr. B	Typical	1.02	.627	.627	1.25
8	End Plate	PL3/8x7 HRA	None	None	A36 Gr.36	Typical	2.275	.02	9.29	.078
9	Mod Horizontal	PIPE 2.5	None	None	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
10	Mod Bracing	L2.5x2.5x4	None	None	A36 Gr.36	Typical	1.19	.692	.692	.026

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
1	M1	Horizontal F...	6.396			Lbyy						Lateral
2	M2	Horizontal F...	6.396			Lbyy						Lateral
3	M7A	Horizontal F...	6.396			Lbyy						Lateral
4	M8	Horizontal F...	6.396			Lbyy						Lateral
5	M13	Face Vertical	3			Lbyy						Lateral
6	M14	Face Vertical	3			Lbyy						Lateral
7	M15	Face Vertical	3			Lbyy						Lateral
8	M16	Face Vertical	3			Lbyy						Lateral
9	M19	Standoff Ho...	2.75			Lbyy						Lateral
10	M20	Standoff Ho...	2.75			Lbyy						Lateral
11	M25	End Plate	1	.75	.75	.75	.75					Lateral
12	M26	End Plate	1	.75	.75	.75	.75					Lateral
13	M27	Standoff Ve...	3			Lbyy						Lateral
14	M28	Standoff Ve...	3			Lbyy						Lateral
15	M29	Standoff Di...	3.652			Lbyy		.7	.7			Lateral
16	MP4A	Antenna Pipe	5.75			Lbyy						Lateral
17	M30	Stabilizer	4.003			Lbyy						Lateral
18	MP3A	Antenna Pipe	6			Lbyy						Lateral
19	MP2A	Antenna Pipe	6			Lbyy						Lateral
20	MP1A	Antenna Pipe	6			Lbyy						Lateral
21	M35	Mod Horizo...	12.792									Lateral
22	M36	Mod Bracing	6.403									Lateral
23	M37	Mod Bracing	6.403									Lateral



Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[ft]	Lbvy[ft]	Lbzcz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kvy	Kzz	Cb	Function
24	M44	Mod Horizo...	12.792									Lateral
25	M45	Mod Bracing	6.403									Lateral
26	M46	Mod Bracing	6.403									Lateral
27	M45A	Mod Bracing	5.772									Lateral
28	M46A	Mod Bracing	5.772									Lateral

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N2	N1		180	Horizontal Face	None	None	A36 Gr.36	Typical
2	M2	N1	N3		180	Horizontal Face	None	None	A36 Gr.36	Typical
3	M7	N12	N13			RIGID	None	None	RIGID	Typical
4	M7A	N17	N16		180	Horizontal Face	None	None	A36 Gr.36	Typical
5	M8	N16	N18		180	Horizontal Face	None	None	A36 Gr.36	Typical
6	M9	N23	N24			RIGID	None	None	RIGID	Typical
7	M13	N7	N22			Face Vertical	None	None	A53 Gr. B	Typical
8	M14	N6	N21			Face Vertical	None	None	A53 Gr. B	Typical
9	M15	N5	N20			Face Vertical	None	None	A53 Gr. B	Typical
10	M16	N4	N19			Face Vertical	None	None	A53 Gr. B	Typical
11	M17	N16	N32			RIGID	None	None	RIGID	Typical
12	M18	N1	N31			RIGID	None	None	RIGID	Typical
13	M19	N32	N36		90	Standoff Horiz...	None	None	A36 Gr.36	Typical
14	M20	N31	N35		90	Standoff Horiz...	None	None	A36 Gr.36	Typical
15	M25	N36	N34		90	End Plate	None	None	A36 Gr.36	Typical
16	M26	N35	N33		90	End Plate	None	None	A36 Gr.36	Typical
17	M27	N50	N49			Standoff Vertical	None	None	A53 Gr. B	Typical
18	M28	N48	N47			Standoff Vertical	None	None	A53 Gr. B	Typical
19	M29	N49	N48			Standoff Diago...	None	None	A36 Gr.36	Typical
20	MP4A	N37	N41			Antenna Pipe	None	None	A53 Gr. B	Typical
21	M30	N50A	N51			Stabilizer	None	None	A53 Gr. B	Typical
22	M22	N33A	N34A			RIGID	None	None	RIGID	Typical
23	M23	N35A	N36A			RIGID	None	None	RIGID	Typical
24	MP3A	N37A	N38			Antenna Pipe	None	None	A53 Gr. B	Typical
25	M25A	N39	N40			RIGID	None	None	RIGID	Typical
26	M26A	N41A	N42			RIGID	None	None	RIGID	Typical
27	MP2A	N43	N44			Antenna Pipe	None	None	A53 Gr. B	Typical
28	M28A	N45	N46			RIGID	None	None	RIGID	Typical
29	M29A	N47A	N48A			RIGID	None	None	RIGID	Typical
30	MP1A	N49A	N50B			Antenna Pipe	None	None	A53 Gr. B	Typical
31	M31	N58	N59			RIGID	None	None	RIGID	Typical
32	M32	N60	N61			RIGID	None	None	RIGID	Typical
33	M33	N62	N63			RIGID	None	None	RIGID	Typical
34	M34	N64	N65			RIGID	None	None	RIGID	Typical
35	M35	N57	N56			Mod Horizontal	None	None	A53 Gr. B	Typical
36	M36	N69	N67			Mod Bracing	None	None	A36 Gr.36	Typical
37	M37	N67	N68			Mod Bracing	None	None	A36 Gr.36	Typical
38	M40	N75	N76			RIGID	None	None	RIGID	Typical
39	M41	N77	N78			RIGID	None	None	RIGID	Typical
40	M42	N79	N80			RIGID	None	None	RIGID	Typical
41	M43	N81	N82			RIGID	None	None	RIGID	Typical
42	M44	N74	N73			Mod Horizontal	None	None	A53 Gr. B	Typical
43	M45	N86	N84			Mod Bracing	None	None	A36 Gr.36	Typical
44	M46	N84	N85			Mod Bracing	None	None	A36 Gr.36	Typical
45	M45A	N72	N88A			Mod Bracing	None	None	A36 Gr.36	Typical
46	M46A	N88A	N71			Mod Bracing	None	None	A36 Gr.36	Typical



Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat..	Analysis ...	Inactive	Seismic...
1	M1						Yes	** NA **			None
2	M2						Yes	** NA **			None
3	M7		OOOXOO				Yes	** NA **			None
4	M7A						Yes	** NA **			None
5	M8						Yes	** NA **			None
6	M9		OOOXOO				Yes	** NA **			None
7	M13						Yes	** NA **			None
8	M14						Yes	** NA **			None
9	M15						Yes	** NA **			None
10	M16						Yes	** NA **			None
11	M17						Yes	** NA **			None
12	M18						Yes	** NA **			None
13	M19	BenPIN					Yes	** NA **			None
14	M20	BenPIN					Yes	** NA **			None
15	M25						Yes	** NA **			None
16	M26						Yes	** NA **			None
17	M27						Yes	** NA **			None
18	M28						Yes	** NA **			None
19	M29	BenPIN	BenPIN				Yes	** NA **			None
20	MP4A						Yes	** NA **			None
21	M30	BenPIN					Yes	** NA **			None
22	M22		OOOXOO				Yes	** NA **			None
23	M23		OOOXOO				Yes	** NA **			None
24	MP3A						Yes	** NA **			None
25	M25A		OOOXOO				Yes	** NA **			None
26	M26A		OOOXOO				Yes	** NA **			None
27	MP2A						Yes	** NA **			None
28	M28A		OOOXOO				Yes	** NA **			None
29	M29A		OOOXOO				Yes	** NA **			None
30	MP1A						Yes	** NA **			None
31	M31						Yes	** NA **			None
32	M32						Yes	** NA **			None
33	M33						Yes	** NA **			None
34	M34						Yes	** NA **			None
35	M35						Yes	** NA **			None
36	M36	BenPIN					Yes	** NA **			None
37	M37		BenPIN				Yes	** NA **			None
38	M40						Yes	** NA **			None
39	M41						Yes	** NA **			None
40	M42						Yes	** NA **			None
41	M43						Yes	** NA **			None
42	M44						Yes	** NA **			None
43	M45	BenPIN					Yes	** NA **			None
44	M46		BenPIN				Yes	** NA **			None
45	M45A	BenPIN					Yes	** NA **			None
46	M46A		BenPIN				Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft,%]
1	MP1A	Y	-43.55	1.92
2	MP1A	My	-.022	1.92
3	MP1A	Mz	0	1.92
4	MP1A	Y	-43.55	3.92
5	MP1A	My	-.022	3.92



Member Point Loads (BLC 1 : Antenna D) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft.-%]
6	MP1A	Mz	0	3.92
7	MP2A	Y	-20	.92
8	MP2A	My	-.013	.92
9	MP2A	Mz	.018	.92
10	MP2A	Y	-20	4.92
11	MP2A	My	-.013	4.92
12	MP2A	Mz	.018	4.92
13	MP2A	Y	-20	.92
14	MP2A	My	-.013	.92
15	MP2A	Mz	-.018	.92
16	MP2A	Y	-20	4.92
17	MP2A	My	-.013	4.92
18	MP2A	Mz	-.018	4.92
19	MP4A	Y	-8.5	.92
20	MP4A	My	-.004	.92
21	MP4A	Mz	0	.92
22	MP4A	Y	-8.5	4.92
23	MP4A	My	-.004	4.92
24	MP4A	Mz	0	4.92
25	MP2A	Y	-84.4	1.92
26	MP2A	My	.042	1.92
27	MP2A	Mz	0	1.92
28	MP2A	Y	-70.3	3.92
29	MP2A	My	.035	3.92
30	MP2A	Mz	0	3.92

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft.-%]
1	MP1A	Y	-52.972	1.92
2	MP1A	My	-.026	1.92
3	MP1A	Mz	0	1.92
4	MP1A	Y	-52.972	3.92
5	MP1A	My	-.026	3.92
6	MP1A	Mz	0	3.92
7	MP2A	Y	-97.469	.92
8	MP2A	My	-.065	.92
9	MP2A	Mz	.088	.92
10	MP2A	Y	-97.469	4.92
11	MP2A	My	-.065	4.92
12	MP2A	Mz	.088	4.92
13	MP2A	Y	-97.469	.92
14	MP2A	My	-.065	.92
15	MP2A	Mz	-.088	.92
16	MP2A	Y	-97.469	4.92
17	MP2A	My	-.065	4.92
18	MP2A	Mz	-.088	4.92
19	MP4A	Y	-83.159	.92
20	MP4A	My	-.042	.92
21	MP4A	Mz	0	.92
22	MP4A	Y	-83.159	4.92
23	MP4A	My	-.042	4.92
24	MP4A	Mz	0	4.92
25	MP2A	Y	-72.597	1.92
26	MP2A	My	.036	1.92
27	MP2A	Mz	0	1.92
28	MP2A	Y	-65.553	3.92



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
29	MP2A	My	.033	3.92
30	MP2A	Mz	0	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
1	MP1A	X	0	1.92
2	MP1A	Z	-87.13	1.92
3	MP1A	Mx	0	1.92
4	MP1A	X	0	3.92
5	MP1A	Z	-87.13	3.92
6	MP1A	Mx	0	3.92
7	MP2A	X	0	.92
8	MP2A	Z	-165.343	.92
9	MP2A	Mx	-.149	.92
10	MP2A	X	0	4.92
11	MP2A	Z	-165.343	4.92
12	MP2A	Mx	-.149	4.92
13	MP2A	X	0	.92
14	MP2A	Z	-165.343	.92
15	MP2A	Mx	.149	.92
16	MP2A	X	0	4.92
17	MP2A	Z	-165.343	4.92
18	MP2A	Mx	.149	4.92
19	MP4A	X	0	.92
20	MP4A	Z	-153.388	.92
21	MP4A	Mx	0	.92
22	MP4A	X	0	4.92
23	MP4A	Z	-153.388	4.92
24	MP4A	Mx	0	4.92
25	MP2A	X	0	1.92
26	MP2A	Z	-75.782	1.92
27	MP2A	Mx	0	1.92
28	MP2A	X	0	3.92
29	MP2A	Z	-75.782	3.92
30	MP2A	Mx	0	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
1	MP1A	X	36.86	1.92
2	MP1A	Z	-63.844	1.92
3	MP1A	Mx	-.018	1.92
4	MP1A	X	36.86	3.92
5	MP1A	Z	-63.844	3.92
6	MP1A	Mx	-.018	3.92
7	MP2A	X	75.672	.92
8	MP2A	Z	-131.067	.92
9	MP2A	Mx	-.168	.92
10	MP2A	X	75.672	4.92
11	MP2A	Z	-131.067	4.92
12	MP2A	Mx	-.168	4.92
13	MP2A	X	75.672	.92
14	MP2A	Z	-131.067	.92
15	MP2A	Mx	.068	.92
16	MP2A	X	75.672	4.92
17	MP2A	Z	-131.067	4.92
18	MP2A	Mx	.068	4.92



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
19	MP4A	X	68.052	.92
20	MP4A	Z	-117.87	.92
21	MP4A	Mx	-.034	.92
22	MP4A	X	68.052	4.92
23	MP4A	Z	-117.87	4.92
24	MP4A	Mx	-.034	4.92
25	MP2A	X	34.75	1.92
26	MP2A	Z	-60.19	1.92
27	MP2A	Mx	.017	1.92
28	MP2A	X	33.547	3.92
29	MP2A	Z	-58.106	3.92
30	MP2A	Mx	.017	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
1	MP1A	X	40.62	1.92
2	MP1A	Z	-23.452	1.92
3	MP1A	Mx	-.02	1.92
4	MP1A	X	40.62	3.92
5	MP1A	Z	-23.452	3.92
6	MP1A	Mx	-.02	3.92
7	MP2A	X	106.818	.92
8	MP2A	Z	-61.671	.92
9	MP2A	Mx	-.127	.92
10	MP2A	X	106.818	4.92
11	MP2A	Z	-61.671	4.92
12	MP2A	Mx	-.127	4.92
13	MP2A	X	106.818	.92
14	MP2A	Z	-61.671	.92
15	MP2A	Mx	-.016	.92
16	MP2A	X	106.818	4.92
17	MP2A	Z	-61.671	4.92
18	MP2A	Mx	-.016	4.92
19	MP4A	X	87.934	.92
20	MP4A	Z	-50.769	.92
21	MP4A	Mx	-.044	.92
22	MP4A	X	87.934	4.92
23	MP4A	Z	-50.769	4.92
24	MP4A	Mx	-.044	4.92
25	MP2A	X	49.31	1.92
26	MP2A	Z	-28.469	1.92
27	MP2A	Mx	.025	1.92
28	MP2A	X	43.058	3.92
29	MP2A	Z	-24.86	3.92
30	MP2A	Mx	.022	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
1	MP1A	X	33.495	1.92
2	MP1A	Z	0	1.92
3	MP1A	Mx	-.017	1.92
4	MP1A	X	33.495	3.92
5	MP1A	Z	0	3.92
6	MP1A	Mx	-.017	3.92
7	MP2A	X	109.343	.92
8	MP2A	Z	0	.92



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft,%]
9	MP2A	Mx	-.073	.92
10	MP2A	X	109.343	4.92
11	MP2A	Z	0	4.92
12	MP2A	Mx	-.073	4.92
13	MP2A	X	109.343	.92
14	MP2A	Z	0	.92
15	MP2A	Mx	-.073	.92
16	MP2A	X	109.343	4.92
17	MP2A	Z	0	4.92
18	MP2A	Mx	-.073	4.92
19	MP4A	X	84.254	.92
20	MP4A	Z	0	.92
21	MP4A	Mx	-.042	.92
22	MP4A	X	84.254	4.92
23	MP4A	Z	0	4.92
24	MP4A	Mx	-.042	4.92
25	MP2A	X	50.657	1.92
26	MP2A	Z	0	1.92
27	MP2A	Mx	.025	1.92
28	MP2A	X	41.032	3.92
29	MP2A	Z	0	3.92
30	MP2A	Mx	.021	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft,%]
1	MP1A	X	40.62	1.92
2	MP1A	Z	23.452	1.92
3	MP1A	Mx	-.02	1.92
4	MP1A	X	40.62	3.92
5	MP1A	Z	23.452	3.92
6	MP1A	Mx	-.02	3.92
7	MP2A	X	106.818	.92
8	MP2A	Z	61.671	.92
9	MP2A	Mx	-.016	.92
10	MP2A	X	106.818	4.92
11	MP2A	Z	61.671	4.92
12	MP2A	Mx	-.016	4.92
13	MP2A	X	106.818	.92
14	MP2A	Z	61.671	.92
15	MP2A	Mx	-.127	.92
16	MP2A	X	106.818	4.92
17	MP2A	Z	61.671	4.92
18	MP2A	Mx	-.127	4.92
19	MP4A	X	87.934	.92
20	MP4A	Z	50.769	.92
21	MP4A	Mx	-.044	.92
22	MP4A	X	87.934	4.92
23	MP4A	Z	50.769	4.92
24	MP4A	Mx	-.044	4.92
25	MP2A	X	49.31	1.92
26	MP2A	Z	28.469	1.92
27	MP2A	Mx	.025	1.92
28	MP2A	X	43.058	3.92
29	MP2A	Z	24.86	3.92
30	MP2A	Mx	.022	3.92



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
1	MP1A	X	36.86	1.92
2	MP1A	Z	63.844	1.92
3	MP1A	Mx	-.018	1.92
4	MP1A	X	36.86	3.92
5	MP1A	Z	63.844	3.92
6	MP1A	Mx	-.018	3.92
7	MP2A	X	75.672	.92
8	MP2A	Z	131.067	.92
9	MP2A	Mx	.068	.92
10	MP2A	X	75.672	4.92
11	MP2A	Z	131.067	4.92
12	MP2A	Mx	.068	4.92
13	MP2A	X	75.672	.92
14	MP2A	Z	131.067	.92
15	MP2A	Mx	-.168	.92
16	MP2A	X	75.672	4.92
17	MP2A	Z	131.067	4.92
18	MP2A	Mx	-.168	4.92
19	MP4A	X	68.052	.92
20	MP4A	Z	117.87	.92
21	MP4A	Mx	-.034	.92
22	MP4A	X	68.052	4.92
23	MP4A	Z	117.87	4.92
24	MP4A	Mx	-.034	4.92
25	MP2A	X	34.75	1.92
26	MP2A	Z	60.19	1.92
27	MP2A	Mx	.017	1.92
28	MP2A	X	33.547	3.92
29	MP2A	Z	58.106	3.92
30	MP2A	Mx	.017	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
1	MP1A	X	0	1.92
2	MP1A	Z	87.13	1.92
3	MP1A	Mx	0	1.92
4	MP1A	X	0	3.92
5	MP1A	Z	87.13	3.92
6	MP1A	Mx	0	3.92
7	MP2A	X	0	.92
8	MP2A	Z	165.343	.92
9	MP2A	Mx	.149	.92
10	MP2A	X	0	4.92
11	MP2A	Z	165.343	4.92
12	MP2A	Mx	.149	4.92
13	MP2A	X	0	.92
14	MP2A	Z	165.343	.92
15	MP2A	Mx	-.149	.92
16	MP2A	X	0	4.92
17	MP2A	Z	165.343	4.92
18	MP2A	Mx	-.149	4.92
19	MP4A	X	0	.92
20	MP4A	Z	153.388	.92
21	MP4A	Mx	0	.92
22	MP4A	X	0	4.92
23	MP4A	Z	153.388	4.92



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft,%]
24	MP4A	Mx	0	4.92
25	MP2A	X	0	1.92
26	MP2A	Z	75.782	1.92
27	MP2A	Mx	0	1.92
28	MP2A	X	0	3.92
29	MP2A	Z	75.782	3.92
30	MP2A	Mx	0	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft,%]
1	MP1A	X	-36.86	1.92
2	MP1A	Z	63.844	1.92
3	MP1A	Mx	.018	1.92
4	MP1A	X	-36.86	3.92
5	MP1A	Z	63.844	3.92
6	MP1A	Mx	.018	3.92
7	MP2A	X	-75.672	.92
8	MP2A	Z	131.067	.92
9	MP2A	Mx	.168	.92
10	MP2A	X	-75.672	4.92
11	MP2A	Z	131.067	4.92
12	MP2A	Mx	.168	4.92
13	MP2A	X	-75.672	.92
14	MP2A	Z	131.067	.92
15	MP2A	Mx	-.068	.92
16	MP2A	X	-75.672	4.92
17	MP2A	Z	131.067	4.92
18	MP2A	Mx	-.068	4.92
19	MP4A	X	-68.052	.92
20	MP4A	Z	117.87	.92
21	MP4A	Mx	.034	.92
22	MP4A	X	-68.052	4.92
23	MP4A	Z	117.87	4.92
24	MP4A	Mx	.034	4.92
25	MP2A	X	-34.75	1.92
26	MP2A	Z	60.19	1.92
27	MP2A	Mx	-.017	1.92
28	MP2A	X	-33.547	3.92
29	MP2A	Z	58.106	3.92
30	MP2A	Mx	-.017	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft,%]
1	MP1A	X	-40.62	1.92
2	MP1A	Z	23.452	1.92
3	MP1A	Mx	.02	1.92
4	MP1A	X	-40.62	3.92
5	MP1A	Z	23.452	3.92
6	MP1A	Mx	.02	3.92
7	MP2A	X	-106.818	.92
8	MP2A	Z	61.671	.92
9	MP2A	Mx	.127	.92
10	MP2A	X	-106.818	4.92
11	MP2A	Z	61.671	4.92
12	MP2A	Mx	.127	4.92
13	MP2A	X	-106.818	.92



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft,%]
14	MP2A	Z	61.671	.92
15	MP2A	Mx	.016	.92
16	MP2A	X	-106.818	4.92
17	MP2A	Z	61.671	4.92
18	MP2A	Mx	.016	4.92
19	MP4A	X	-87.934	.92
20	MP4A	Z	50.769	.92
21	MP4A	Mx	.044	.92
22	MP4A	X	-87.934	4.92
23	MP4A	Z	50.769	4.92
24	MP4A	Mx	.044	4.92
25	MP2A	X	-49.31	1.92
26	MP2A	Z	28.469	1.92
27	MP2A	Mx	-.025	1.92
28	MP2A	X	-43.058	3.92
29	MP2A	Z	24.86	3.92
30	MP2A	Mx	-.022	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft,%]
1	MP1A	X	-33.495	1.92
2	MP1A	Z	0	1.92
3	MP1A	Mx	.017	1.92
4	MP1A	X	-33.495	3.92
5	MP1A	Z	0	3.92
6	MP1A	Mx	.017	3.92
7	MP2A	X	-109.343	.92
8	MP2A	Z	0	.92
9	MP2A	Mx	.073	.92
10	MP2A	X	-109.343	4.92
11	MP2A	Z	0	4.92
12	MP2A	Mx	.073	4.92
13	MP2A	X	-109.343	.92
14	MP2A	Z	0	.92
15	MP2A	Mx	.073	.92
16	MP2A	X	-109.343	4.92
17	MP2A	Z	0	4.92
18	MP2A	Mx	.073	4.92
19	MP4A	X	-84.254	.92
20	MP4A	Z	0	.92
21	MP4A	Mx	.042	.92
22	MP4A	X	-84.254	4.92
23	MP4A	Z	0	4.92
24	MP4A	Mx	.042	4.92
25	MP2A	X	-50.657	1.92
26	MP2A	Z	0	1.92
27	MP2A	Mx	-.025	1.92
28	MP2A	X	-41.032	3.92
29	MP2A	Z	0	3.92
30	MP2A	Mx	-.021	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft,%]
1	MP1A	X	-40.62	1.92
2	MP1A	Z	-23.452	1.92
3	MP1A	Mx	.02	1.92



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft,%]
4	MP1A	X	-40.62	3.92
5	MP1A	Z	-23.452	3.92
6	MP1A	Mx	.02	3.92
7	MP2A	X	-106.818	.92
8	MP2A	Z	-61.671	.92
9	MP2A	Mx	.016	.92
10	MP2A	X	-106.818	4.92
11	MP2A	Z	-61.671	4.92
12	MP2A	Mx	.016	4.92
13	MP2A	X	-106.818	.92
14	MP2A	Z	-61.671	.92
15	MP2A	Mx	.127	.92
16	MP2A	X	-106.818	4.92
17	MP2A	Z	-61.671	4.92
18	MP2A	Mx	.127	4.92
19	MP4A	X	-87.934	.92
20	MP4A	Z	-50.769	.92
21	MP4A	Mx	.044	.92
22	MP4A	X	-87.934	4.92
23	MP4A	Z	-50.769	4.92
24	MP4A	Mx	.044	4.92
25	MP2A	X	-49.31	1.92
26	MP2A	Z	-28.469	1.92
27	MP2A	Mx	-.025	1.92
28	MP2A	X	-43.058	3.92
29	MP2A	Z	-24.86	3.92
30	MP2A	Mx	-.022	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft,%]
1	MP1A	X	-36.86	1.92
2	MP1A	Z	-63.844	1.92
3	MP1A	Mx	.018	1.92
4	MP1A	X	-36.86	3.92
5	MP1A	Z	-63.844	3.92
6	MP1A	Mx	.018	3.92
7	MP2A	X	-75.672	.92
8	MP2A	Z	-131.067	.92
9	MP2A	Mx	-.068	.92
10	MP2A	X	-75.672	4.92
11	MP2A	Z	-131.067	4.92
12	MP2A	Mx	-.068	4.92
13	MP2A	X	-75.672	.92
14	MP2A	Z	-131.067	.92
15	MP2A	Mx	.168	.92
16	MP2A	X	-75.672	4.92
17	MP2A	Z	-131.067	4.92
18	MP2A	Mx	.168	4.92
19	MP4A	X	-68.052	.92
20	MP4A	Z	-117.87	.92
21	MP4A	Mx	.034	.92
22	MP4A	X	-68.052	4.92
23	MP4A	Z	-117.87	4.92
24	MP4A	Mx	.034	4.92
25	MP2A	X	-34.75	1.92
26	MP2A	Z	-60.19	1.92



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
27	MP2A	Mx	-.017	1.92
28	MP2A	X	-33.547	3.92
29	MP2A	Z	-58.106	3.92
30	MP2A	Mx	-.017	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
1	MP1A	X	0	1.92
2	MP1A	Z	-19.519	1.92
3	MP1A	Mx	0	1.92
4	MP1A	X	0	3.92
5	MP1A	Z	-19.519	3.92
6	MP1A	Mx	0	3.92
7	MP2A	X	0	.92
8	MP2A	Z	-35.618	.92
9	MP2A	Mx	-.032	.92
10	MP2A	X	0	4.92
11	MP2A	Z	-35.618	4.92
12	MP2A	Mx	-.032	4.92
13	MP2A	X	0	.92
14	MP2A	Z	-35.618	.92
15	MP2A	Mx	.032	.92
16	MP2A	X	0	4.92
17	MP2A	Z	-35.618	4.92
18	MP2A	Mx	.032	4.92
19	MP4A	X	0	.92
20	MP4A	Z	-33.247	.92
21	MP4A	Mx	0	.92
22	MP4A	X	0	4.92
23	MP4A	Z	-33.247	4.92
24	MP4A	Mx	0	4.92
25	MP2A	X	0	1.92
26	MP2A	Z	-18.4	1.92
27	MP2A	Mx	0	1.92
28	MP2A	X	0	3.92
29	MP2A	Z	-18.4	3.92
30	MP2A	Mx	0	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
1	MP1A	X	8.393	1.92
2	MP1A	Z	-14.537	1.92
3	MP1A	Mx	-.004	1.92
4	MP1A	X	8.393	3.92
5	MP1A	Z	-14.537	3.92
6	MP1A	Mx	-.004	3.92
7	MP2A	X	16.489	.92
8	MP2A	Z	-28.56	.92
9	MP2A	Mx	-.037	.92
10	MP2A	X	16.489	4.92
11	MP2A	Z	-28.56	4.92
12	MP2A	Mx	-.037	4.92
13	MP2A	X	16.489	.92
14	MP2A	Z	-28.56	.92
15	MP2A	Mx	.015	.92
16	MP2A	X	16.489	4.92



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
17	MP2A	Z	-28.56	4.92
18	MP2A	Mx	.015	4.92
19	MP4A	X	14.98	.92
20	MP4A	Z	-25.945	.92
21	MP4A	Mx	-.007	.92
22	MP4A	X	14.98	4.92
23	MP4A	Z	-25.945	4.92
24	MP4A	Mx	-.007	4.92
25	MP2A	X	8.532	1.92
26	MP2A	Z	-14.778	1.92
27	MP2A	Mx	.004	1.92
28	MP2A	X	8.278	3.92
29	MP2A	Z	-14.338	3.92
30	MP2A	Mx	.004	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
1	MP1A	X	9.803	1.92
2	MP1A	Z	-5.66	1.92
3	MP1A	Mx	-.005	1.92
4	MP1A	X	9.803	3.92
5	MP1A	Z	-5.66	3.92
6	MP1A	Mx	-.005	3.92
7	MP2A	X	23.987	.92
8	MP2A	Z	-13.849	.92
9	MP2A	Mx	-.028	.92
10	MP2A	X	23.987	4.92
11	MP2A	Z	-13.849	4.92
12	MP2A	Mx	-.028	4.92
13	MP2A	X	23.987	.92
14	MP2A	Z	-13.849	.92
15	MP2A	Mx	-.004	.92
16	MP2A	X	23.987	4.92
17	MP2A	Z	-13.849	4.92
18	MP2A	Mx	-.004	4.92
19	MP4A	X	20.25	.92
20	MP4A	Z	-11.691	.92
21	MP4A	Mx	-.01	.92
22	MP4A	X	20.25	4.92
23	MP4A	Z	-11.691	4.92
24	MP4A	Mx	-.01	4.92
25	MP2A	X	12.463	1.92
26	MP2A	Z	-7.196	1.92
27	MP2A	Mx	.006	1.92
28	MP2A	X	11.144	3.92
29	MP2A	Z	-6.434	3.92
30	MP2A	Mx	.006	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
1	MP1A	X	8.587	1.92
2	MP1A	Z	0	1.92
3	MP1A	Mx	-.004	1.92
4	MP1A	X	8.587	3.92
5	MP1A	Z	0	3.92
6	MP1A	Mx	-.004	3.92



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
7	MP2A	X	25.058	.92
8	MP2A	Z	0	.92
9	MP2A	Mx	-.017	.92
10	MP2A	X	25.058	4.92
11	MP2A	Z	0	4.92
12	MP2A	Mx	-.017	4.92
13	MP2A	X	25.058	.92
14	MP2A	Z	0	.92
15	MP2A	Mx	-.017	.92
16	MP2A	X	25.058	4.92
17	MP2A	Z	0	4.92
18	MP2A	Mx	-.017	4.92
19	MP4A	X	20.095	.92
20	MP4A	Z	0	.92
21	MP4A	Mx	-.01	.92
22	MP4A	X	20.095	4.92
23	MP4A	Z	0	4.92
24	MP4A	Mx	-.01	4.92
25	MP2A	X	13.055	1.92
26	MP2A	Z	0	1.92
27	MP2A	Mx	.007	1.92
28	MP2A	X	11.024	3.92
29	MP2A	Z	0	3.92
30	MP2A	Mx	.006	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
1	MP1A	X	9.803	1.92
2	MP1A	Z	5.66	1.92
3	MP1A	Mx	-.005	1.92
4	MP1A	X	9.803	3.92
5	MP1A	Z	5.66	3.92
6	MP1A	Mx	-.005	3.92
7	MP2A	X	23.987	.92
8	MP2A	Z	13.849	.92
9	MP2A	Mx	-.004	.92
10	MP2A	X	23.987	4.92
11	MP2A	Z	13.849	4.92
12	MP2A	Mx	-.004	4.92
13	MP2A	X	23.987	.92
14	MP2A	Z	13.849	.92
15	MP2A	Mx	-.028	.92
16	MP2A	X	23.987	4.92
17	MP2A	Z	13.849	4.92
18	MP2A	Mx	-.028	4.92
19	MP4A	X	20.25	.92
20	MP4A	Z	11.691	.92
21	MP4A	Mx	-.01	.92
22	MP4A	X	20.25	4.92
23	MP4A	Z	11.691	4.92
24	MP4A	Mx	-.01	4.92
25	MP2A	X	12.463	1.92
26	MP2A	Z	7.196	1.92
27	MP2A	Mx	.006	1.92
28	MP2A	X	11.144	3.92
29	MP2A	Z	6.434	3.92



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft.%]
30	MP2A	Mx	.006	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft.%]
1	MP1A	X	8.393	1.92
2	MP1A	Z	14.537	1.92
3	MP1A	Mx	-.004	1.92
4	MP1A	X	8.393	3.92
5	MP1A	Z	14.537	3.92
6	MP1A	Mx	-.004	3.92
7	MP2A	X	16.489	.92
8	MP2A	Z	28.56	.92
9	MP2A	Mx	.015	.92
10	MP2A	X	16.489	4.92
11	MP2A	Z	28.56	4.92
12	MP2A	Mx	.015	4.92
13	MP2A	X	16.489	.92
14	MP2A	Z	28.56	.92
15	MP2A	Mx	-.037	.92
16	MP2A	X	16.489	4.92
17	MP2A	Z	28.56	4.92
18	MP2A	Mx	-.037	4.92
19	MP4A	X	14.98	.92
20	MP4A	Z	25.945	.92
21	MP4A	Mx	-.007	.92
22	MP4A	X	14.98	4.92
23	MP4A	Z	25.945	4.92
24	MP4A	Mx	-.007	4.92
25	MP2A	X	8.532	1.92
26	MP2A	Z	14.778	1.92
27	MP2A	Mx	.004	1.92
28	MP2A	X	8.278	3.92
29	MP2A	Z	14.338	3.92
30	MP2A	Mx	.004	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft.%]
1	MP1A	X	0	1.92
2	MP1A	Z	19.519	1.92
3	MP1A	Mx	0	1.92
4	MP1A	X	0	3.92
5	MP1A	Z	19.519	3.92
6	MP1A	Mx	0	3.92
7	MP2A	X	0	.92
8	MP2A	Z	35.618	.92
9	MP2A	Mx	.032	.92
10	MP2A	X	0	4.92
11	MP2A	Z	35.618	4.92
12	MP2A	Mx	.032	4.92
13	MP2A	X	0	.92
14	MP2A	Z	35.618	.92
15	MP2A	Mx	-.032	.92
16	MP2A	X	0	4.92
17	MP2A	Z	35.618	4.92
18	MP2A	Mx	-.032	4.92
19	MP4A	X	0	.92



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft.-%]
20	MP4A	Z	33.247	.92
21	MP4A	Mx	0	.92
22	MP4A	X	0	4.92
23	MP4A	Z	33.247	4.92
24	MP4A	Mx	0	4.92
25	MP2A	X	0	1.92
26	MP2A	Z	18.4	1.92
27	MP2A	Mx	0	1.92
28	MP2A	X	0	3.92
29	MP2A	Z	18.4	3.92
30	MP2A	Mx	0	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft.-%]
1	MP1A	X	-8.393	1.92
2	MP1A	Z	14.537	1.92
3	MP1A	Mx	.004	1.92
4	MP1A	X	-8.393	3.92
5	MP1A	Z	14.537	3.92
6	MP1A	Mx	.004	3.92
7	MP2A	X	-16.489	.92
8	MP2A	Z	28.56	.92
9	MP2A	Mx	.037	.92
10	MP2A	X	-16.489	4.92
11	MP2A	Z	28.56	4.92
12	MP2A	Mx	.037	4.92
13	MP2A	X	-16.489	.92
14	MP2A	Z	28.56	.92
15	MP2A	Mx	-.015	.92
16	MP2A	X	-16.489	4.92
17	MP2A	Z	28.56	4.92
18	MP2A	Mx	-.015	4.92
19	MP4A	X	-14.98	.92
20	MP4A	Z	25.945	.92
21	MP4A	Mx	.007	.92
22	MP4A	X	-14.98	4.92
23	MP4A	Z	25.945	4.92
24	MP4A	Mx	.007	4.92
25	MP2A	X	-8.532	1.92
26	MP2A	Z	14.778	1.92
27	MP2A	Mx	-.004	1.92
28	MP2A	X	-8.278	3.92
29	MP2A	Z	14.338	3.92
30	MP2A	Mx	-.004	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft.-%]
1	MP1A	X	-9.803	1.92
2	MP1A	Z	5.66	1.92
3	MP1A	Mx	.005	1.92
4	MP1A	X	-9.803	3.92
5	MP1A	Z	5.66	3.92
6	MP1A	Mx	.005	3.92
7	MP2A	X	-23.987	.92
8	MP2A	Z	13.849	.92
9	MP2A	Mx	.028	.92



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft.%]
10	MP2A	X	-23.987	4.92
11	MP2A	Z	13.849	4.92
12	MP2A	Mx	.028	4.92
13	MP2A	X	-23.987	.92
14	MP2A	Z	13.849	.92
15	MP2A	Mx	.004	.92
16	MP2A	X	-23.987	4.92
17	MP2A	Z	13.849	4.92
18	MP2A	Mx	.004	4.92
19	MP4A	X	-20.25	.92
20	MP4A	Z	11.691	.92
21	MP4A	Mx	.01	.92
22	MP4A	X	-20.25	4.92
23	MP4A	Z	11.691	4.92
24	MP4A	Mx	.01	4.92
25	MP2A	X	-12.463	1.92
26	MP2A	Z	7.196	1.92
27	MP2A	Mx	-.006	1.92
28	MP2A	X	-11.144	3.92
29	MP2A	Z	6.434	3.92
30	MP2A	Mx	-.006	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft.%]
1	MP1A	X	-8.587	1.92
2	MP1A	Z	0	1.92
3	MP1A	Mx	.004	1.92
4	MP1A	X	-8.587	3.92
5	MP1A	Z	0	3.92
6	MP1A	Mx	.004	3.92
7	MP2A	X	-25.058	.92
8	MP2A	Z	0	.92
9	MP2A	Mx	.017	.92
10	MP2A	X	-25.058	4.92
11	MP2A	Z	0	4.92
12	MP2A	Mx	.017	4.92
13	MP2A	X	-25.058	.92
14	MP2A	Z	0	.92
15	MP2A	Mx	.017	.92
16	MP2A	X	-25.058	4.92
17	MP2A	Z	0	4.92
18	MP2A	Mx	.017	4.92
19	MP4A	X	-20.095	.92
20	MP4A	Z	0	.92
21	MP4A	Mx	.01	.92
22	MP4A	X	-20.095	4.92
23	MP4A	Z	0	4.92
24	MP4A	Mx	.01	4.92
25	MP2A	X	-13.055	1.92
26	MP2A	Z	0	1.92
27	MP2A	Mx	-.007	1.92
28	MP2A	X	-11.024	3.92
29	MP2A	Z	0	3.92
30	MP2A	Mx	-.006	3.92



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
1	MP1A	X	-9.803	1.92
2	MP1A	Z	-5.66	1.92
3	MP1A	Mx	.005	1.92
4	MP1A	X	-9.803	3.92
5	MP1A	Z	-5.66	3.92
6	MP1A	Mx	.005	3.92
7	MP2A	X	-23.987	.92
8	MP2A	Z	-13.849	.92
9	MP2A	Mx	.004	.92
10	MP2A	X	-23.987	4.92
11	MP2A	Z	-13.849	4.92
12	MP2A	Mx	.004	4.92
13	MP2A	X	-23.987	.92
14	MP2A	Z	-13.849	.92
15	MP2A	Mx	.028	.92
16	MP2A	X	-23.987	4.92
17	MP2A	Z	-13.849	4.92
18	MP2A	Mx	.028	4.92
19	MP4A	X	-20.25	.92
20	MP4A	Z	-11.691	.92
21	MP4A	Mx	.01	.92
22	MP4A	X	-20.25	4.92
23	MP4A	Z	-11.691	4.92
24	MP4A	Mx	.01	4.92
25	MP2A	X	-12.463	1.92
26	MP2A	Z	-7.196	1.92
27	MP2A	Mx	-.006	1.92
28	MP2A	X	-11.144	3.92
29	MP2A	Z	-6.434	3.92
30	MP2A	Mx	-.006	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
1	MP1A	X	-8.393	1.92
2	MP1A	Z	-14.537	1.92
3	MP1A	Mx	.004	1.92
4	MP1A	X	-8.393	3.92
5	MP1A	Z	-14.537	3.92
6	MP1A	Mx	.004	3.92
7	MP2A	X	-16.489	.92
8	MP2A	Z	-28.56	.92
9	MP2A	Mx	-.015	.92
10	MP2A	X	-16.489	4.92
11	MP2A	Z	-28.56	4.92
12	MP2A	Mx	-.015	4.92
13	MP2A	X	-16.489	.92
14	MP2A	Z	-28.56	.92
15	MP2A	Mx	.037	.92
16	MP2A	X	-16.489	4.92
17	MP2A	Z	-28.56	4.92
18	MP2A	Mx	.037	4.92
19	MP4A	X	-14.98	.92
20	MP4A	Z	-25.945	.92
21	MP4A	Mx	.007	.92
22	MP4A	X	-14.98	4.92
23	MP4A	Z	-25.945	4.92



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
24	MP4A	Mx	.007	4.92
25	MP2A	X	-8.532	1.92
26	MP2A	Z	-14.778	1.92
27	MP2A	Mx	-.004	1.92
28	MP2A	X	-8.278	3.92
29	MP2A	Z	-14.338	3.92
30	MP2A	Mx	-.004	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
1	MP1A	X	0	1.92
2	MP1A	Z	-5.828	1.92
3	MP1A	Mx	0	1.92
4	MP1A	X	0	3.92
5	MP1A	Z	-5.828	3.92
6	MP1A	Mx	0	3.92
7	MP2A	X	0	.92
8	MP2A	Z	-11.059	.92
9	MP2A	Mx	-.01	.92
10	MP2A	X	0	4.92
11	MP2A	Z	-11.059	4.92
12	MP2A	Mx	-.01	4.92
13	MP2A	X	0	.92
14	MP2A	Z	-11.059	.92
15	MP2A	Mx	.01	.92
16	MP2A	X	0	4.92
17	MP2A	Z	-11.059	4.92
18	MP2A	Mx	.01	4.92
19	MP4A	X	0	.92
20	MP4A	Z	-10.259	.92
21	MP4A	Mx	0	.92
22	MP4A	X	0	4.92
23	MP4A	Z	-10.259	4.92
24	MP4A	Mx	0	4.92
25	MP2A	X	0	1.92
26	MP2A	Z	-5.069	1.92
27	MP2A	Mx	0	1.92
28	MP2A	X	0	3.92
29	MP2A	Z	-5.069	3.92
30	MP2A	Mx	0	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
1	MP1A	X	2.465	1.92
2	MP1A	Z	-4.27	1.92
3	MP1A	Mx	-.001	1.92
4	MP1A	X	2.465	3.92
5	MP1A	Z	-4.27	3.92
6	MP1A	Mx	-.001	3.92
7	MP2A	X	5.061	.92
8	MP2A	Z	-8.766	.92
9	MP2A	Mx	-.011	.92
10	MP2A	X	5.061	4.92
11	MP2A	Z	-8.766	4.92
12	MP2A	Mx	-.011	4.92
13	MP2A	X	5.061	.92



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft,%]
14	MP2A	Z	-8.766	.92
15	MP2A	Mx	.005	.92
16	MP2A	X	5.061	4.92
17	MP2A	Z	-8.766	4.92
18	MP2A	Mx	.005	4.92
19	MP4A	X	4.552	.92
20	MP4A	Z	-7.884	.92
21	MP4A	Mx	-.002	.92
22	MP4A	X	4.552	4.92
23	MP4A	Z	-7.884	4.92
24	MP4A	Mx	-.002	4.92
25	MP2A	X	2.324	1.92
26	MP2A	Z	-4.026	1.92
27	MP2A	Mx	.001	1.92
28	MP2A	X	2.244	3.92
29	MP2A	Z	-3.886	3.92
30	MP2A	Mx	.001	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft,%]
1	MP1A	X	2.717	1.92
2	MP1A	Z	-1.569	1.92
3	MP1A	Mx	-.001	1.92
4	MP1A	X	2.717	3.92
5	MP1A	Z	-1.569	3.92
6	MP1A	Mx	-.001	3.92
7	MP2A	X	7.144	.92
8	MP2A	Z	-4.125	.92
9	MP2A	Mx	-.008	.92
10	MP2A	X	7.144	4.92
11	MP2A	Z	-4.125	4.92
12	MP2A	Mx	-.008	4.92
13	MP2A	X	7.144	.92
14	MP2A	Z	-4.125	.92
15	MP2A	Mx	-.001	.92
16	MP2A	X	7.144	4.92
17	MP2A	Z	-4.125	4.92
18	MP2A	Mx	-.001	4.92
19	MP4A	X	5.881	.92
20	MP4A	Z	-3.396	.92
21	MP4A	Mx	-.003	.92
22	MP4A	X	5.881	4.92
23	MP4A	Z	-3.396	4.92
24	MP4A	Mx	-.003	4.92
25	MP2A	X	3.298	1.92
26	MP2A	Z	-1.904	1.92
27	MP2A	Mx	.002	1.92
28	MP2A	X	2.88	3.92
29	MP2A	Z	-1.663	3.92
30	MP2A	Mx	.001	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft,%]
1	MP1A	X	2.24	1.92
2	MP1A	Z	0	1.92
3	MP1A	Mx	-.001	1.92



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

	Member Label	Direction	Magnitude[lb.-ft]	Location[ft.-%]
4	MP1A	X	2.24	3.92
5	MP1A	Z	0	3.92
6	MP1A	Mx	-.001	3.92
7	MP2A	X	7.313	.92
8	MP2A	Z	0	.92
9	MP2A	Mx	-.005	.92
10	MP2A	X	7.313	4.92
11	MP2A	Z	0	4.92
12	MP2A	Mx	-.005	4.92
13	MP2A	X	7.313	.92
14	MP2A	Z	0	.92
15	MP2A	Mx	-.005	.92
16	MP2A	X	7.313	4.92
17	MP2A	Z	0	4.92
18	MP2A	Mx	-.005	4.92
19	MP4A	X	5.635	.92
20	MP4A	Z	0	.92
21	MP4A	Mx	-.003	.92
22	MP4A	X	5.635	4.92
23	MP4A	Z	0	4.92
24	MP4A	Mx	-.003	4.92
25	MP2A	X	3.388	1.92
26	MP2A	Z	0	1.92
27	MP2A	Mx	.002	1.92
28	MP2A	X	2.744	3.92
29	MP2A	Z	0	3.92
30	MP2A	Mx	.001	3.92

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

	Member Label	Direction	Magnitude[lb.-ft]	Location[ft.-%]
1	MP1A	X	2.717	1.92
2	MP1A	Z	1.569	1.92
3	MP1A	Mx	-.001	1.92
4	MP1A	X	2.717	3.92
5	MP1A	Z	1.569	3.92
6	MP1A	Mx	-.001	3.92
7	MP2A	X	7.144	.92
8	MP2A	Z	4.125	.92
9	MP2A	Mx	-.001	.92
10	MP2A	X	7.144	4.92
11	MP2A	Z	4.125	4.92
12	MP2A	Mx	-.001	4.92
13	MP2A	X	7.144	.92
14	MP2A	Z	4.125	.92
15	MP2A	Mx	-.008	.92
16	MP2A	X	7.144	4.92
17	MP2A	Z	4.125	4.92
18	MP2A	Mx	-.008	4.92
19	MP4A	X	5.881	.92
20	MP4A	Z	3.396	.92
21	MP4A	Mx	-.003	.92
22	MP4A	X	5.881	4.92
23	MP4A	Z	3.396	4.92
24	MP4A	Mx	-.003	4.92
25	MP2A	X	3.298	1.92
26	MP2A	Z	1.904	1.92



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
27	MP2A	Mx	.002	1.92
28	MP2A	X	2.88	3.92
29	MP2A	Z	1.663	3.92
30	MP2A	Mx	.001	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
1	MP1A	X	2.465	1.92
2	MP1A	Z	4.27	1.92
3	MP1A	Mx	-.001	1.92
4	MP1A	X	2.465	3.92
5	MP1A	Z	4.27	3.92
6	MP1A	Mx	-.001	3.92
7	MP2A	X	5.061	.92
8	MP2A	Z	8.766	.92
9	MP2A	Mx	.005	.92
10	MP2A	X	5.061	4.92
11	MP2A	Z	8.766	4.92
12	MP2A	Mx	.005	4.92
13	MP2A	X	5.061	.92
14	MP2A	Z	8.766	.92
15	MP2A	Mx	-.011	.92
16	MP2A	X	5.061	4.92
17	MP2A	Z	8.766	4.92
18	MP2A	Mx	-.011	4.92
19	MP4A	X	4.552	.92
20	MP4A	Z	7.884	.92
21	MP4A	Mx	-.002	.92
22	MP4A	X	4.552	4.92
23	MP4A	Z	7.884	4.92
24	MP4A	Mx	-.002	4.92
25	MP2A	X	2.324	1.92
26	MP2A	Z	4.026	1.92
27	MP2A	Mx	.001	1.92
28	MP2A	X	2.244	3.92
29	MP2A	Z	3.886	3.92
30	MP2A	Mx	.001	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
1	MP1A	X	0	1.92
2	MP1A	Z	5.828	1.92
3	MP1A	Mx	0	1.92
4	MP1A	X	0	3.92
5	MP1A	Z	5.828	3.92
6	MP1A	Mx	0	3.92
7	MP2A	X	0	.92
8	MP2A	Z	11.059	.92
9	MP2A	Mx	.01	.92
10	MP2A	X	0	4.92
11	MP2A	Z	11.059	4.92
12	MP2A	Mx	.01	4.92
13	MP2A	X	0	.92
14	MP2A	Z	11.059	.92
15	MP2A	Mx	-.01	.92
16	MP2A	X	0	4.92



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
17	MP2A	Z	11.059	4.92
18	MP2A	Mx	-.01	4.92
19	MP4A	X	0	.92
20	MP4A	Z	10.259	.92
21	MP4A	Mx	0	.92
22	MP4A	X	0	4.92
23	MP4A	Z	10.259	4.92
24	MP4A	Mx	0	4.92
25	MP2A	X	0	1.92
26	MP2A	Z	5.069	1.92
27	MP2A	Mx	0	1.92
28	MP2A	X	0	3.92
29	MP2A	Z	5.069	3.92
30	MP2A	Mx	0	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
1	MP1A	X	-2.465	1.92
2	MP1A	Z	4.27	1.92
3	MP1A	Mx	.001	1.92
4	MP1A	X	-2.465	3.92
5	MP1A	Z	4.27	3.92
6	MP1A	Mx	.001	3.92
7	MP2A	X	-5.061	.92
8	MP2A	Z	8.766	.92
9	MP2A	Mx	.011	.92
10	MP2A	X	-5.061	4.92
11	MP2A	Z	8.766	4.92
12	MP2A	Mx	.011	4.92
13	MP2A	X	-5.061	.92
14	MP2A	Z	8.766	.92
15	MP2A	Mx	-.005	.92
16	MP2A	X	-5.061	4.92
17	MP2A	Z	8.766	4.92
18	MP2A	Mx	-.005	4.92
19	MP4A	X	-4.552	.92
20	MP4A	Z	7.884	.92
21	MP4A	Mx	.002	.92
22	MP4A	X	-4.552	4.92
23	MP4A	Z	7.884	4.92
24	MP4A	Mx	.002	4.92
25	MP2A	X	-2.324	1.92
26	MP2A	Z	4.026	1.92
27	MP2A	Mx	-.001	1.92
28	MP2A	X	-2.244	3.92
29	MP2A	Z	3.886	3.92
30	MP2A	Mx	-.001	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
1	MP1A	X	-2.717	1.92
2	MP1A	Z	1.569	1.92
3	MP1A	Mx	.001	1.92
4	MP1A	X	-2.717	3.92
5	MP1A	Z	1.569	3.92
6	MP1A	Mx	.001	3.92



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft.%]
7	MP2A	X	-7.144	.92
8	MP2A	Z	4.125	.92
9	MP2A	Mx	.008	.92
10	MP2A	X	-7.144	4.92
11	MP2A	Z	4.125	4.92
12	MP2A	Mx	.008	4.92
13	MP2A	X	-7.144	.92
14	MP2A	Z	4.125	.92
15	MP2A	Mx	.001	.92
16	MP2A	X	-7.144	4.92
17	MP2A	Z	4.125	4.92
18	MP2A	Mx	.001	4.92
19	MP4A	X	-5.881	.92
20	MP4A	Z	3.396	.92
21	MP4A	Mx	.003	.92
22	MP4A	X	-5.881	4.92
23	MP4A	Z	3.396	4.92
24	MP4A	Mx	.003	4.92
25	MP2A	X	-3.298	1.92
26	MP2A	Z	1.904	1.92
27	MP2A	Mx	-.002	1.92
28	MP2A	X	-2.88	3.92
29	MP2A	Z	1.663	3.92
30	MP2A	Mx	-.001	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft.%]
1	MP1A	X	-2.24	1.92
2	MP1A	Z	0	1.92
3	MP1A	Mx	.001	1.92
4	MP1A	X	-2.24	3.92
5	MP1A	Z	0	3.92
6	MP1A	Mx	.001	3.92
7	MP2A	X	-7.313	.92
8	MP2A	Z	0	.92
9	MP2A	Mx	.005	.92
10	MP2A	X	-7.313	4.92
11	MP2A	Z	0	4.92
12	MP2A	Mx	.005	4.92
13	MP2A	X	-7.313	.92
14	MP2A	Z	0	.92
15	MP2A	Mx	.005	.92
16	MP2A	X	-7.313	4.92
17	MP2A	Z	0	4.92
18	MP2A	Mx	.005	4.92
19	MP4A	X	-5.635	.92
20	MP4A	Z	0	.92
21	MP4A	Mx	.003	.92
22	MP4A	X	-5.635	4.92
23	MP4A	Z	0	4.92
24	MP4A	Mx	.003	4.92
25	MP2A	X	-3.388	1.92
26	MP2A	Z	0	1.92
27	MP2A	Mx	-.002	1.92
28	MP2A	X	-2.744	3.92
29	MP2A	Z	0	3.92



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft.%]
30	MP2A	Mx	-0.001	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft.%]
1	MP1A	X	-2.717	1.92
2	MP1A	Z	-1.569	1.92
3	MP1A	Mx	.001	1.92
4	MP1A	X	-2.717	3.92
5	MP1A	Z	-1.569	3.92
6	MP1A	Mx	.001	3.92
7	MP2A	X	-7.144	.92
8	MP2A	Z	-4.125	.92
9	MP2A	Mx	.001	.92
10	MP2A	X	-7.144	4.92
11	MP2A	Z	-4.125	4.92
12	MP2A	Mx	.001	4.92
13	MP2A	X	-7.144	.92
14	MP2A	Z	-4.125	.92
15	MP2A	Mx	.008	.92
16	MP2A	X	-7.144	4.92
17	MP2A	Z	-4.125	4.92
18	MP2A	Mx	.008	4.92
19	MP4A	X	-5.881	.92
20	MP4A	Z	-3.396	.92
21	MP4A	Mx	.003	.92
22	MP4A	X	-5.881	4.92
23	MP4A	Z	-3.396	4.92
24	MP4A	Mx	.003	4.92
25	MP2A	X	-3.298	1.92
26	MP2A	Z	-1.904	1.92
27	MP2A	Mx	-.002	1.92
28	MP2A	X	-2.88	3.92
29	MP2A	Z	-1.663	3.92
30	MP2A	Mx	-.001	3.92

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft.%]
1	MP1A	X	-2.465	1.92
2	MP1A	Z	-4.27	1.92
3	MP1A	Mx	.001	1.92
4	MP1A	X	-2.465	3.92
5	MP1A	Z	-4.27	3.92
6	MP1A	Mx	.001	3.92
7	MP2A	X	-5.061	.92
8	MP2A	Z	-8.766	.92
9	MP2A	Mx	-.005	.92
10	MP2A	X	-5.061	4.92
11	MP2A	Z	-8.766	4.92
12	MP2A	Mx	-.005	4.92
13	MP2A	X	-5.061	.92
14	MP2A	Z	-8.766	.92
15	MP2A	Mx	.011	.92
16	MP2A	X	-5.061	4.92
17	MP2A	Z	-8.766	4.92
18	MP2A	Mx	.011	4.92
19	MP4A	X	-4.552	.92



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft, %]
20	MP4A	Z	-7.884	.92
21	MP4A	Mx	.002	.92
22	MP4A	X	-4.552	4.92
23	MP4A	Z	-7.884	4.92
24	MP4A	Mx	.002	4.92
25	MP2A	X	-2.324	1.92
26	MP2A	Z	-4.026	1.92
27	MP2A	Mx	-.001	1.92
28	MP2A	X	-2.244	3.92
29	MP2A	Z	-3.886	3.92
30	MP2A	Mx	-.001	3.92

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft, %]
1	M1	Y	-500	%4

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft, %]
1	M1	Y	-500	%99

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft, %]
1	M1	Y	-250	%100

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	Y	-12.784	-12.784	0	%100
2	M2	Y	-12.784	-12.784	0	%100
3	M7A	Y	-12.784	-12.784	0	%100
4	M8	Y	-12.784	-12.784	0	%100
5	M13	Y	-8.798	-8.798	0	%100
6	M14	Y	-8.798	-8.798	0	%100
7	M15	Y	-8.798	-8.798	0	%100
8	M16	Y	-8.798	-8.798	0	%100
9	M19	Y	-12.784	-12.784	0	%100
10	M20	Y	-12.784	-12.784	0	%100
11	M25	Y	-18.69	-18.69	0	%100
12	M26	Y	-18.69	-18.69	0	%100
13	M27	Y	-8.798	-8.798	0	%100
14	M28	Y	-8.798	-8.798	0	%100
15	M29	Y	-5.596	-5.596	0	%100
16	MP4A	Y	-8.798	-8.798	0	%100
17	M30	Y	-8.798	-8.798	0	%100
18	MP3A	Y	-8.798	-8.798	0	%100
19	MP2A	Y	-8.798	-8.798	0	%100
20	MP1A	Y	-8.798	-8.798	0	%100
21	M35	Y	-9.865	-9.865	0	%100
22	M36	Y	-11.274	-11.274	0	%100
23	M37	Y	-11.274	-11.274	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
24	M44	Y	-9.865	-9.865	0	%100
25	M45	Y	-11.274	-11.274	0	%100
26	M46	Y	-11.274	-11.274	0	%100
27	M45A	Y	-11.274	-11.274	0	%100
28	M46A	Y	-11.274	-11.274	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	-20.263	-20.263	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-20.263	-20.263	0	%100
5	M7A	X	0	0	0	%100
6	M7A	Z	-20.263	-20.263	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	-20.263	-20.263	0	%100
9	M13	X	0	0	0	%100
10	M13	Z	-7.2	-7.2	0	%100
11	M14	X	0	0	0	%100
12	M14	Z	-7.2	-7.2	0	%100
13	M15	X	0	0	0	%100
14	M15	Z	-7.2	-7.2	0	%100
15	M16	X	0	0	0	%100
16	M16	Z	-7.2	-7.2	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	0	0	0	%100
21	M25	X	0	0	0	%100
22	M25	Z	0	0	0	%100
23	M26	X	0	0	0	%100
24	M26	Z	0	0	0	%100
25	M27	X	0	0	0	%100
26	M27	Z	-7.2	-7.2	0	%100
27	M28	X	0	0	0	%100
28	M28	Z	-7.2	-7.2	0	%100
29	M29	X	0	0	0	%100
30	M29	Z	-2.392	-2.392	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	-8.377	-8.377	0	%100
33	M30	X	0	0	0	%100
34	M30	Z	-.015	-.015	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	-8.377	-8.377	0	%100
37	MP2A	X	0	0	0	%100
38	MP2A	Z	-8.377	-8.377	0	%100
39	MP1A	X	0	0	0	%100
40	MP1A	Z	-8.377	-8.377	0	%100
41	M35	X	0	0	0	%100
42	M35	Z	-11.651	-11.651	0	%100
43	M36	X	0	0	0	%100
44	M36	Z	-10.296	-10.296	0	%100
45	M37	X	0	0	0	%100
46	M37	Z	-10.296	-10.296	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	-11.651	-11.651	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
49	M45	X	0	0	0	%100
50	M45	Z	-10.296	-10.296	0	%100
51	M46	X	0	0	0	%100
52	M46	Z	-10.296	-10.296	0	%100
53	M45A	X	0	0	0	%100
54	M45A	Z	-8.775	-8.775	0	%100
55	M46A	X	0	0	0	%100
56	M46A	Z	-8.775	-8.775	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	7.599	7.599	0	%100
2	M1	Z	-13.161	-13.161	0	%100
3	M2	X	7.599	7.599	0	%100
4	M2	Z	-13.161	-13.161	0	%100
5	M7A	X	7.599	7.599	0	%100
6	M7A	Z	-13.161	-13.161	0	%100
7	M8	X	7.599	7.599	0	%100
8	M8	Z	-13.161	-13.161	0	%100
9	M13	X	3.684	3.684	0	%100
10	M13	Z	-6.381	-6.381	0	%100
11	M14	X	3.684	3.684	0	%100
12	M14	Z	-6.381	-6.381	0	%100
13	M15	X	3.684	3.684	0	%100
14	M15	Z	-6.381	-6.381	0	%100
15	M16	X	3.684	3.684	0	%100
16	M16	Z	-6.381	-6.381	0	%100
17	M19	X	1.942	1.942	0	%100
18	M19	Z	-3.363	-3.363	0	%100
19	M20	X	1.942	1.942	0	%100
20	M20	Z	-3.363	-3.363	0	%100
21	M25	X	.19	.19	0	%100
22	M25	Z	-.329	-.329	0	%100
23	M26	X	.19	.19	0	%100
24	M26	Z	-.329	-.329	0	%100
25	M27	X	3.684	3.684	0	%100
26	M27	Z	-6.381	-6.381	0	%100
27	M28	X	3.684	3.684	0	%100
28	M28	Z	-6.381	-6.381	0	%100
29	M29	X	1.34	1.34	0	%100
30	M29	Z	-2.322	-2.322	0	%100
31	MP4A	X	4.344	4.344	0	%100
32	MP4A	Z	-7.525	-7.525	0	%100
33	M30	X	.943	.943	0	%100
34	M30	Z	-1.633	-1.633	0	%100
35	MP3A	X	4.344	4.344	0	%100
36	MP3A	Z	-7.525	-7.525	0	%100
37	MP2A	X	4.344	4.344	0	%100
38	MP2A	Z	-7.525	-7.525	0	%100
39	MP1A	X	4.344	4.344	0	%100
40	MP1A	Z	-7.525	-7.525	0	%100
41	M35	X	4.369	4.369	0	%100
42	M35	Z	-7.568	-7.568	0	%100
43	M36	X	1.118	1.118	0	%100
44	M36	Z	-1.937	-1.937	0	%100
45	M37	X	8.251	8.251	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
46	M37	Z	-14.292	-14.292	0	%100
47	M44	X	4.369	4.369	0	%100
48	M44	Z	-7.568	-7.568	0	%100
49	M45	X	1.118	1.118	0	%100
50	M45	Z	-1.937	-1.937	0	%100
51	M46	X	8.251	8.251	0	%100
52	M46	Z	-14.292	-14.292	0	%100
53	M45A	X	1.552	1.552	0	%100
54	M45A	Z	-2.689	-2.689	0	%100
55	M46A	X	7.698	7.698	0	%100
56	M46A	Z	-13.334	-13.334	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	4.387	4.387	0	%100
2	M1	Z	-2.533	-2.533	0	%100
3	M2	X	4.387	4.387	0	%100
4	M2	Z	-2.533	-2.533	0	%100
5	M7A	X	4.387	4.387	0	%100
6	M7A	Z	-2.533	-2.533	0	%100
7	M8	X	4.387	4.387	0	%100
8	M8	Z	-2.533	-2.533	0	%100
9	M13	X	6.671	6.671	0	%100
10	M13	Z	-3.851	-3.851	0	%100
11	M14	X	6.671	6.671	0	%100
12	M14	Z	-3.851	-3.851	0	%100
13	M15	X	6.671	6.671	0	%100
14	M15	Z	-3.851	-3.851	0	%100
15	M16	X	6.671	6.671	0	%100
16	M16	Z	-3.851	-3.851	0	%100
17	M19	X	10.09	10.09	0	%100
18	M19	Z	-5.825	-5.825	0	%100
19	M20	X	10.09	10.09	0	%100
20	M20	Z	-5.825	-5.825	0	%100
21	M25	X	.987	.987	0	%100
22	M25	Z	-.57	-.57	0	%100
23	M26	X	.987	.987	0	%100
24	M26	Z	-.57	-.57	0	%100
25	M27	X	6.671	6.671	0	%100
26	M27	Z	-3.851	-3.851	0	%100
27	M28	X	6.671	6.671	0	%100
28	M28	Z	-3.851	-3.851	0	%100
29	M29	X	2.821	2.821	0	%100
30	M29	Z	-1.629	-1.629	0	%100
31	MP4A	X	8.065	8.065	0	%100
32	MP4A	Z	-4.656	-4.656	0	%100
33	M30	X	5.419	5.419	0	%100
34	M30	Z	-3.128	-3.128	0	%100
35	MP3A	X	8.065	8.065	0	%100
36	MP3A	Z	-4.656	-4.656	0	%100
37	MP2A	X	8.065	8.065	0	%100
38	MP2A	Z	-4.656	-4.656	0	%100
39	MP1A	X	8.065	8.065	0	%100
40	MP1A	Z	-4.656	-4.656	0	%100
41	M35	X	2.523	2.523	0	%100
42	M35	Z	-1.456	-1.456	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
43	M36	X	.332	.332	0	%100
44	M36	Z	-.191	-.191	0	%100
45	M37	X	12.687	12.687	0	%100
46	M37	Z	-7.325	-7.325	0	%100
47	M44	X	2.523	2.523	0	%100
48	M44	Z	-1.456	-1.456	0	%100
49	M45	X	.332	.332	0	%100
50	M45	Z	-.191	-.191	0	%100
51	M46	X	12.687	12.687	0	%100
52	M46	Z	-7.325	-7.325	0	%100
53	M45A	X	3.512	3.512	0	%100
54	M45A	Z	-2.028	-2.028	0	%100
55	M46A	X	14.157	14.157	0	%100
56	M46A	Z	-8.173	-8.173	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M7A	X	0	0	0	%100
6	M7A	Z	0	0	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	0	0	0	%100
9	M13	X	7.871	7.871	0	%100
10	M13	Z	0	0	0	%100
11	M14	X	7.871	7.871	0	%100
12	M14	Z	0	0	0	%100
13	M15	X	7.871	7.871	0	%100
14	M15	Z	0	0	0	%100
15	M16	X	7.871	7.871	0	%100
16	M16	Z	0	0	0	%100
17	M19	X	15.535	15.535	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	15.535	15.535	0	%100
20	M20	Z	0	0	0	%100
21	M25	X	1.52	1.52	0	%100
22	M25	Z	0	0	0	%100
23	M26	X	1.52	1.52	0	%100
24	M26	Z	0	0	0	%100
25	M27	X	7.871	7.871	0	%100
26	M27	Z	0	0	0	%100
27	M28	X	7.871	7.871	0	%100
28	M28	Z	0	0	0	%100
29	M29	X	3.546	3.546	0	%100
30	M29	Z	0	0	0	%100
31	MP4A	X	9.625	9.625	0	%100
32	MP4A	Z	0	0	0	%100
33	M30	X	8.759	8.759	0	%100
34	M30	Z	0	0	0	%100
35	MP3A	X	9.625	9.625	0	%100
36	MP3A	Z	0	0	0	%100
37	MP2A	X	9.625	9.625	0	%100
38	MP2A	Z	0	0	0	%100
39	MP1A	X	9.625	9.625	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
40	MP1A	Z	0	0	0	%100
41	M35	X	0	0	0	%100
42	M35	Z	0	0	0	%100
43	M36	X	6.589	6.589	0	%100
44	M36	Z	0	0	0	%100
45	M37	X	6.59	6.59	0	%100
46	M37	Z	0	0	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	0	0	0	%100
49	M45	X	6.589	6.589	0	%100
50	M45	Z	0	0	0	%100
51	M46	X	6.59	6.59	0	%100
52	M46	Z	0	0	0	%100
53	M45A	X	10.676	10.676	0	%100
54	M45A	Z	0	0	0	%100
55	M46A	X	10.676	10.676	0	%100
56	M46A	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	4.387	4.387	0	%100
2	M1	Z	2.533	2.533	0	%100
3	M2	X	4.387	4.387	0	%100
4	M2	Z	2.533	2.533	0	%100
5	M7A	X	4.387	4.387	0	%100
6	M7A	Z	2.533	2.533	0	%100
7	M8	X	4.387	4.387	0	%100
8	M8	Z	2.533	2.533	0	%100
9	M13	X	6.671	6.671	0	%100
10	M13	Z	3.851	3.851	0	%100
11	M14	X	6.671	6.671	0	%100
12	M14	Z	3.851	3.851	0	%100
13	M15	X	6.671	6.671	0	%100
14	M15	Z	3.851	3.851	0	%100
15	M16	X	6.671	6.671	0	%100
16	M16	Z	3.851	3.851	0	%100
17	M19	X	10.09	10.09	0	%100
18	M19	Z	5.826	5.826	0	%100
19	M20	X	10.09	10.09	0	%100
20	M20	Z	5.826	5.826	0	%100
21	M25	X	.987	.987	0	%100
22	M25	Z	.57	.57	0	%100
23	M26	X	.987	.987	0	%100
24	M26	Z	.57	.57	0	%100
25	M27	X	6.671	6.671	0	%100
26	M27	Z	3.851	3.851	0	%100
27	M28	X	6.671	6.671	0	%100
28	M28	Z	3.851	3.851	0	%100
29	M29	X	2.821	2.821	0	%100
30	M29	Z	1.629	1.629	0	%100
31	MP4A	X	8.065	8.065	0	%100
32	MP4A	Z	4.656	4.656	0	%100
33	M30	X	5.966	5.966	0	%100
34	M30	Z	3.445	3.445	0	%100
35	MP3A	X	8.065	8.065	0	%100
36	MP3A	Z	4.656	4.656	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.%]
37	MP2A	X	8.065	8.065	0	%100
38	MP2A	Z	4.656	4.656	0	%100
39	MP1A	X	8.065	8.065	0	%100
40	MP1A	Z	4.656	4.656	0	%100
41	M35	X	2.523	2.523	0	%100
42	M35	Z	1.456	1.456	0	%100
43	M36	X	12.687	12.687	0	%100
44	M36	Z	7.325	7.325	0	%100
45	M37	X	.332	.332	0	%100
46	M37	Z	.191	.191	0	%100
47	M44	X	2.523	2.523	0	%100
48	M44	Z	1.456	1.456	0	%100
49	M45	X	12.687	12.687	0	%100
50	M45	Z	7.325	7.325	0	%100
51	M46	X	.332	.332	0	%100
52	M46	Z	.191	.191	0	%100
53	M45A	X	14.157	14.157	0	%100
54	M45A	Z	8.173	8.173	0	%100
55	M46A	X	3.512	3.512	0	%100
56	M46A	Z	2.028	2.028	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	7.599	7.599	0	%100
2	M1	Z	13.161	13.161	0	%100
3	M2	X	7.599	7.599	0	%100
4	M2	Z	13.161	13.161	0	%100
5	M7A	X	7.599	7.599	0	%100
6	M7A	Z	13.161	13.161	0	%100
7	M8	X	7.599	7.599	0	%100
8	M8	Z	13.161	13.161	0	%100
9	M13	X	3.684	3.684	0	%100
10	M13	Z	6.381	6.381	0	%100
11	M14	X	3.684	3.684	0	%100
12	M14	Z	6.381	6.381	0	%100
13	M15	X	3.684	3.684	0	%100
14	M15	Z	6.381	6.381	0	%100
15	M16	X	3.684	3.684	0	%100
16	M16	Z	6.381	6.381	0	%100
17	M19	X	1.942	1.942	0	%100
18	M19	Z	3.363	3.363	0	%100
19	M20	X	1.942	1.942	0	%100
20	M20	Z	3.363	3.363	0	%100
21	M25	X	.19	.19	0	%100
22	M25	Z	.329	.329	0	%100
23	M26	X	.19	.19	0	%100
24	M26	Z	.329	.329	0	%100
25	M27	X	3.684	3.684	0	%100
26	M27	Z	6.381	6.381	0	%100
27	M28	X	3.684	3.684	0	%100
28	M28	Z	6.381	6.381	0	%100
29	M29	X	1.34	1.34	0	%100
30	M29	Z	2.322	2.322	0	%100
31	MP4A	X	4.344	4.344	0	%100
32	MP4A	Z	7.525	7.525	0	%100
33	M30	X	1.259	1.259	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
34	M30	Z	2.18	2.18	0	%100
35	MP3A	X	4.344	4.344	0	%100
36	MP3A	Z	7.525	7.525	0	%100
37	MP2A	X	4.344	4.344	0	%100
38	MP2A	Z	7.525	7.525	0	%100
39	MP1A	X	4.344	4.344	0	%100
40	MP1A	Z	7.525	7.525	0	%100
41	M35	X	4.369	4.369	0	%100
42	M35	Z	7.568	7.568	0	%100
43	M36	X	8.251	8.251	0	%100
44	M36	Z	14.292	14.292	0	%100
45	M37	X	1.118	1.118	0	%100
46	M37	Z	1.937	1.937	0	%100
47	M44	X	4.369	4.369	0	%100
48	M44	Z	7.568	7.568	0	%100
49	M45	X	8.251	8.251	0	%100
50	M45	Z	14.292	14.292	0	%100
51	M46	X	1.118	1.118	0	%100
52	M46	Z	1.937	1.937	0	%100
53	M45A	X	7.698	7.698	0	%100
54	M45A	Z	13.334	13.334	0	%100
55	M46A	X	1.552	1.552	0	%100
56	M46A	Z	2.689	2.689	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	20.263	20.263	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	20.263	20.263	0	%100
5	M7A	X	0	0	0	%100
6	M7A	Z	20.263	20.263	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	20.263	20.263	0	%100
9	M13	X	0	0	0	%100
10	M13	Z	7.2	7.2	0	%100
11	M14	X	0	0	0	%100
12	M14	Z	7.2	7.2	0	%100
13	M15	X	0	0	0	%100
14	M15	Z	7.2	7.2	0	%100
15	M16	X	0	0	0	%100
16	M16	Z	7.2	7.2	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	0	0	0	%100
21	M25	X	0	0	0	%100
22	M25	Z	0	0	0	%100
23	M26	X	0	0	0	%100
24	M26	Z	0	0	0	%100
25	M27	X	0	0	0	%100
26	M27	Z	7.2	7.2	0	%100
27	M28	X	0	0	0	%100
28	M28	Z	7.2	7.2	0	%100
29	M29	X	0	0	0	%100
30	M29	Z	2.392	2.392	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.%,]
31	MP4A	X	0	0	0	%100
32	MP4A	Z	8.377	8.377	0	%100
33	M30	X	0	0	0	%100
34	M30	Z	.015	.015	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	8.377	8.377	0	%100
37	MP2A	X	0	0	0	%100
38	MP2A	Z	8.377	8.377	0	%100
39	MP1A	X	0	0	0	%100
40	MP1A	Z	8.377	8.377	0	%100
41	M35	X	0	0	0	%100
42	M35	Z	11.651	11.651	0	%100
43	M36	X	0	0	0	%100
44	M36	Z	10.296	10.296	0	%100
45	M37	X	0	0	0	%100
46	M37	Z	10.296	10.296	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	11.651	11.651	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	10.296	10.296	0	%100
51	M46	X	0	0	0	%100
52	M46	Z	10.296	10.296	0	%100
53	M45A	X	0	0	0	%100
54	M45A	Z	8.775	8.775	0	%100
55	M46A	X	0	0	0	%100
56	M46A	Z	8.775	8.775	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	-7.599	-7.599	0	%100
2	M1	Z	13.161	13.161	0	%100
3	M2	X	-7.599	-7.599	0	%100
4	M2	Z	13.161	13.161	0	%100
5	M7A	X	-7.599	-7.599	0	%100
6	M7A	Z	13.161	13.161	0	%100
7	M8	X	-7.599	-7.599	0	%100
8	M8	Z	13.161	13.161	0	%100
9	M13	X	-3.684	-3.684	0	%100
10	M13	Z	6.381	6.381	0	%100
11	M14	X	-3.684	-3.684	0	%100
12	M14	Z	6.381	6.381	0	%100
13	M15	X	-3.684	-3.684	0	%100
14	M15	Z	6.381	6.381	0	%100
15	M16	X	-3.684	-3.684	0	%100
16	M16	Z	6.381	6.381	0	%100
17	M19	X	-1.942	-1.942	0	%100
18	M19	Z	3.363	3.363	0	%100
19	M20	X	-1.942	-1.942	0	%100
20	M20	Z	3.363	3.363	0	%100
21	M25	X	-.19	-.19	0	%100
22	M25	Z	.329	.329	0	%100
23	M26	X	-.19	-.19	0	%100
24	M26	Z	.329	.329	0	%100
25	M27	X	-3.684	-3.684	0	%100
26	M27	Z	6.381	6.381	0	%100
27	M28	X	-3.684	-3.684	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
28	M28	Z	6.381	6.381	0	%100
29	M29	X	-1.34	-1.34	0	%100
30	M29	Z	2.322	2.322	0	%100
31	MP4A	X	-4.344	-4.344	0	%100
32	MP4A	Z	7.525	7.525	0	%100
33	M30	X	-.943	-.943	0	%100
34	M30	Z	1.633	1.633	0	%100
35	MP3A	X	-4.344	-4.344	0	%100
36	MP3A	Z	7.525	7.525	0	%100
37	MP2A	X	-4.344	-4.344	0	%100
38	MP2A	Z	7.525	7.525	0	%100
39	MP1A	X	-4.344	-4.344	0	%100
40	MP1A	Z	7.525	7.525	0	%100
41	M35	X	-4.369	-4.369	0	%100
42	M35	Z	7.568	7.568	0	%100
43	M36	X	-1.118	-1.118	0	%100
44	M36	Z	1.937	1.937	0	%100
45	M37	X	-8.251	-8.251	0	%100
46	M37	Z	14.292	14.292	0	%100
47	M44	X	-4.369	-4.369	0	%100
48	M44	Z	7.568	7.568	0	%100
49	M45	X	-1.118	-1.118	0	%100
50	M45	Z	1.937	1.937	0	%100
51	M46	X	-8.251	-8.251	0	%100
52	M46	Z	14.292	14.292	0	%100
53	M45A	X	-1.552	-1.552	0	%100
54	M45A	Z	2.689	2.689	0	%100
55	M46A	X	-7.698	-7.698	0	%100
56	M46A	Z	13.334	13.334	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	-4.387	-4.387	0	%100
2	M1	Z	2.533	2.533	0	%100
3	M2	X	-4.387	-4.387	0	%100
4	M2	Z	2.533	2.533	0	%100
5	M7A	X	-4.387	-4.387	0	%100
6	M7A	Z	2.533	2.533	0	%100
7	M8	X	-4.387	-4.387	0	%100
8	M8	Z	2.533	2.533	0	%100
9	M13	X	-6.671	-6.671	0	%100
10	M13	Z	3.851	3.851	0	%100
11	M14	X	-6.671	-6.671	0	%100
12	M14	Z	3.851	3.851	0	%100
13	M15	X	-6.671	-6.671	0	%100
14	M15	Z	3.851	3.851	0	%100
15	M16	X	-6.671	-6.671	0	%100
16	M16	Z	3.851	3.851	0	%100
17	M19	X	-10.09	-10.09	0	%100
18	M19	Z	5.825	5.825	0	%100
19	M20	X	-10.09	-10.09	0	%100
20	M20	Z	5.825	5.825	0	%100
21	M25	X	-.987	-.987	0	%100
22	M25	Z	.57	.57	0	%100
23	M26	X	-.987	-.987	0	%100
24	M26	Z	.57	.57	0	%100



Company : Maser Consulting
 Designer : AE
 Job Number : Project No. 10019508
 Model Name : 467225-VZW_MT_LOT_SectorA_H

Apr 11, 2021
 3:18 PM
 Checked By: DX

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
25	M27	X	-6.671	-6.671	0	%100
26	M27	Z	3.851	3.851	0	%100
27	M28	X	-6.671	-6.671	0	%100
28	M28	Z	3.851	3.851	0	%100
29	M29	X	-2.821	-2.821	0	%100
30	M29	Z	1.629	1.629	0	%100
31	MP4A	X	-8.065	-8.065	0	%100
32	MP4A	Z	4.656	4.656	0	%100
33	M30	X	-5.419	-5.419	0	%100
34	M30	Z	3.128	3.128	0	%100
35	MP3A	X	-8.065	-8.065	0	%100
36	MP3A	Z	4.656	4.656	0	%100
37	MP2A	X	-8.065	-8.065	0	%100
38	MP2A	Z	4.656	4.656	0	%100
39	MP1A	X	-8.065	-8.065	0	%100
40	MP1A	Z	4.656	4.656	0	%100
41	M35	X	-2.523	-2.523	0	%100
42	M35	Z	1.456	1.456	0	%100
43	M36	X	-.332	-.332	0	%100
44	M36	Z	.191	.191	0	%100
45	M37	X	-12.687	-12.687	0	%100
46	M37	Z	7.325	7.325	0	%100
47	M44	X	-2.523	-2.523	0	%100
48	M44	Z	1.456	1.456	0	%100
49	M45	X	-.332	-.332	0	%100
50	M45	Z	.191	.191	0	%100
51	M46	X	-12.687	-12.687	0	%100
52	M46	Z	7.325	7.325	0	%100
53	M45A	X	-3.512	-3.512	0	%100
54	M45A	Z	2.028	2.028	0	%100
55	M46A	X	-14.157	-14.157	0	%100
56	M46A	Z	8.173	8.173	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	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	M7A	X	0	0	0	%100
6	M7A	Z	0	0	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	0	0	0	%100
9	M13	X	-7.871	-7.871	0	%100
10	M13	Z	0	0	0	%100
11	M14	X	-7.871	-7.871	0	%100
12	M14	Z	0	0	0	%100
13	M15	X	-7.871	-7.871	0	%100
14	M15	Z	0	0	0	%100
15	M16	X	-7.871	-7.871	0	%100
16	M16	Z	0	0	0	%100
17	M19	X	-15.535	-15.535	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	-15.535	-15.535	0	%100
20	M20	Z	0	0	0	%100
21	M25	X	-1.52	-1.52	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.%,]
22	M25	Z	0	0	0	%100
23	M26	X	-1.52	-1.52	0	%100
24	M26	Z	0	0	0	%100
25	M27	X	-7.871	-7.871	0	%100
26	M27	Z	0	0	0	%100
27	M28	X	-7.871	-7.871	0	%100
28	M28	Z	0	0	0	%100
29	M29	X	-3.546	-3.546	0	%100
30	M29	Z	0	0	0	%100
31	MP4A	X	-9.625	-9.625	0	%100
32	MP4A	Z	0	0	0	%100
33	M30	X	-8.759	-8.759	0	%100
34	M30	Z	0	0	0	%100
35	MP3A	X	-9.625	-9.625	0	%100
36	MP3A	Z	0	0	0	%100
37	MP2A	X	-9.625	-9.625	0	%100
38	MP2A	Z	0	0	0	%100
39	MP1A	X	-9.625	-9.625	0	%100
40	MP1A	Z	0	0	0	%100
41	M35	X	0	0	0	%100
42	M35	Z	0	0	0	%100
43	M36	X	-6.589	-6.589	0	%100
44	M36	Z	0	0	0	%100
45	M37	X	-6.59	-6.59	0	%100
46	M37	Z	0	0	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	0	0	0	%100
49	M45	X	-6.589	-6.589	0	%100
50	M45	Z	0	0	0	%100
51	M46	X	-6.59	-6.59	0	%100
52	M46	Z	0	0	0	%100
53	M45A	X	-10.676	-10.676	0	%100
54	M45A	Z	0	0	0	%100
55	M46A	X	-10.676	-10.676	0	%100
56	M46A	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	-4.387	-4.387	0	%100
2	M1	Z	-2.533	-2.533	0	%100
3	M2	X	-4.387	-4.387	0	%100
4	M2	Z	-2.533	-2.533	0	%100
5	M7A	X	-4.387	-4.387	0	%100
6	M7A	Z	-2.533	-2.533	0	%100
7	M8	X	-4.387	-4.387	0	%100
8	M8	Z	-2.533	-2.533	0	%100
9	M13	X	-6.671	-6.671	0	%100
10	M13	Z	-3.851	-3.851	0	%100
11	M14	X	-6.671	-6.671	0	%100
12	M14	Z	-3.851	-3.851	0	%100
13	M15	X	-6.671	-6.671	0	%100
14	M15	Z	-3.851	-3.851	0	%100
15	M16	X	-6.671	-6.671	0	%100
16	M16	Z	-3.851	-3.851	0	%100
17	M19	X	-10.09	-10.09	0	%100
18	M19	Z	-5.826	-5.826	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
19	M20	X	-10.09	-10.09	0	%100
20	M20	Z	-5.826	-5.826	0	%100
21	M25	X	-.987	-.987	0	%100
22	M25	Z	-.57	-.57	0	%100
23	M26	X	-.987	-.987	0	%100
24	M26	Z	-.57	-.57	0	%100
25	M27	X	-6.671	-6.671	0	%100
26	M27	Z	-3.851	-3.851	0	%100
27	M28	X	-6.671	-6.671	0	%100
28	M28	Z	-3.851	-3.851	0	%100
29	M29	X	-2.821	-2.821	0	%100
30	M29	Z	-1.629	-1.629	0	%100
31	MP4A	X	-8.065	-8.065	0	%100
32	MP4A	Z	-4.656	-4.656	0	%100
33	M30	X	-5.966	-5.966	0	%100
34	M30	Z	-3.445	-3.445	0	%100
35	MP3A	X	-8.065	-8.065	0	%100
36	MP3A	Z	-4.656	-4.656	0	%100
37	MP2A	X	-8.065	-8.065	0	%100
38	MP2A	Z	-4.656	-4.656	0	%100
39	MP1A	X	-8.065	-8.065	0	%100
40	MP1A	Z	-4.656	-4.656	0	%100
41	M35	X	-2.523	-2.523	0	%100
42	M35	Z	-1.456	-1.456	0	%100
43	M36	X	-12.687	-12.687	0	%100
44	M36	Z	-7.325	-7.325	0	%100
45	M37	X	-.332	-.332	0	%100
46	M37	Z	-.191	-.191	0	%100
47	M44	X	-2.523	-2.523	0	%100
48	M44	Z	-1.456	-1.456	0	%100
49	M45	X	-12.687	-12.687	0	%100
50	M45	Z	-7.325	-7.325	0	%100
51	M46	X	-.332	-.332	0	%100
52	M46	Z	-.191	-.191	0	%100
53	M45A	X	-14.157	-14.157	0	%100
54	M45A	Z	-8.173	-8.173	0	%100
55	M46A	X	-3.512	-3.512	0	%100
56	M46A	Z	-2.028	-2.028	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-7.599	-7.599	0	%100
2	M1	Z	-13.161	-13.161	0	%100
3	M2	X	-7.599	-7.599	0	%100
4	M2	Z	-13.161	-13.161	0	%100
5	M7A	X	-7.599	-7.599	0	%100
6	M7A	Z	-13.161	-13.161	0	%100
7	M8	X	-7.599	-7.599	0	%100
8	M8	Z	-13.161	-13.161	0	%100
9	M13	X	-3.684	-3.684	0	%100
10	M13	Z	-6.381	-6.381	0	%100
11	M14	X	-3.684	-3.684	0	%100
12	M14	Z	-6.381	-6.381	0	%100
13	M15	X	-3.684	-3.684	0	%100
14	M15	Z	-6.381	-6.381	0	%100
15	M16	X	-3.684	-3.684	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
16	M16	Z	-6.381	-6.381	0 %100
17	M19	X	-1.942	-1.942	0 %100
18	M19	Z	-3.363	-3.363	0 %100
19	M20	X	-1.942	-1.942	0 %100
20	M20	Z	-3.363	-3.363	0 %100
21	M25	X	-.19	-.19	0 %100
22	M25	Z	-.329	-.329	0 %100
23	M26	X	-.19	-.19	0 %100
24	M26	Z	-.329	-.329	0 %100
25	M27	X	-3.684	-3.684	0 %100
26	M27	Z	-6.381	-6.381	0 %100
27	M28	X	-3.684	-3.684	0 %100
28	M28	Z	-6.381	-6.381	0 %100
29	M29	X	-1.34	-1.34	0 %100
30	M29	Z	-2.322	-2.322	0 %100
31	MP4A	X	-4.344	-4.344	0 %100
32	MP4A	Z	-7.525	-7.525	0 %100
33	M30	X	-1.259	-1.259	0 %100
34	M30	Z	-2.18	-2.18	0 %100
35	MP3A	X	-4.344	-4.344	0 %100
36	MP3A	Z	-7.525	-7.525	0 %100
37	MP2A	X	-4.344	-4.344	0 %100
38	MP2A	Z	-7.525	-7.525	0 %100
39	MP1A	X	-4.344	-4.344	0 %100
40	MP1A	Z	-7.525	-7.525	0 %100
41	M35	X	-4.369	-4.369	0 %100
42	M35	Z	-7.568	-7.568	0 %100
43	M36	X	-8.251	-8.251	0 %100
44	M36	Z	-14.292	-14.292	0 %100
45	M37	X	-1.118	-1.118	0 %100
46	M37	Z	-1.937	-1.937	0 %100
47	M44	X	-4.369	-4.369	0 %100
48	M44	Z	-7.568	-7.568	0 %100
49	M45	X	-8.251	-8.251	0 %100
50	M45	Z	-14.292	-14.292	0 %100
51	M46	X	-1.118	-1.118	0 %100
52	M46	Z	-1.937	-1.937	0 %100
53	M45A	X	-7.698	-7.698	0 %100
54	M45A	Z	-13.334	-13.334	0 %100
55	M46A	X	-1.552	-1.552	0 %100
56	M46A	Z	-2.689	-2.689	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	-6.247	-6.247	0 %100
3	M2	X	0	0	0 %100
4	M2	Z	-6.247	-6.247	0 %100
5	M7A	X	0	0	0 %100
6	M7A	Z	-6.247	-6.247	0 %100
7	M8	X	0	0	0 %100
8	M8	Z	-6.247	-6.247	0 %100
9	M13	X	0	0	0 %100
10	M13	Z	-3.252	-3.252	0 %100
11	M14	X	0	0	0 %100
12	M14	Z	-3.252	-3.252	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
13	M15	X	0	0	0	%100
14	M15	Z	-3.252	-3.252	0	%100
15	M16	X	0	0	0	%100
16	M16	Z	-3.252	-3.252	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	0	0	0	%100
21	M25	X	0	0	0	%100
22	M25	Z	0	0	0	%100
23	M26	X	0	0	0	%100
24	M26	Z	0	0	0	%100
25	M27	X	0	0	0	%100
26	M27	Z	-3.252	-3.252	0	%100
27	M28	X	0	0	0	%100
28	M28	Z	-3.252	-3.252	0	%100
29	M29	X	0	0	0	%100
30	M29	Z	-1.81	-1.81	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	-3.931	-3.931	0	%100
33	M30	X	0	0	0	%100
34	M30	Z	-0.006	-0.006	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	-3.973	-3.973	0	%100
37	MP2A	X	0	0	0	%100
38	MP2A	Z	-3.973	-3.973	0	%100
39	MP1A	X	0	0	0	%100
40	MP1A	Z	-3.973	-3.973	0	%100
41	M35	X	0	0	0	%100
42	M35	Z	-4.795	-4.795	0	%100
43	M36	X	0	0	0	%100
44	M36	Z	-3.428	-3.428	0	%100
45	M37	X	0	0	0	%100
46	M37	Z	-3.428	-3.428	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	-4.795	-4.795	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	-3.428	-3.428	0	%100
51	M46	X	0	0	0	%100
52	M46	Z	-3.428	-3.428	0	%100
53	M45A	X	0	0	0	%100
54	M45A	Z	-2.866	-2.866	0	%100
55	M46A	X	0	0	0	%100
56	M46A	Z	-2.866	-2.866	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	2.343	2.343	0	%100
2	M1	Z	-4.058	-4.058	0	%100
3	M2	X	2.343	2.343	0	%100
4	M2	Z	-4.058	-4.058	0	%100
5	M7A	X	2.343	2.343	0	%100
6	M7A	Z	-4.058	-4.058	0	%100
7	M8	X	2.343	2.343	0	%100
8	M8	Z	-4.058	-4.058	0	%100
9	M13	X	1.642	1.642	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
10	M13	Z	-2.844	-2.844	0	%100
11	M14	X	1.642	1.642	0	%100
12	M14	Z	-2.844	-2.844	0	%100
13	M15	X	1.642	1.642	0	%100
14	M15	Z	-2.844	-2.844	0	%100
15	M16	X	1.642	1.642	0	%100
16	M16	Z	-2.844	-2.844	0	%100
17	M19	X	.595	.595	0	%100
18	M19	Z	-1.03	-1.03	0	%100
19	M20	X	.595	.595	0	%100
20	M20	Z	-1.03	-1.03	0	%100
21	M25	X	.233	.233	0	%100
22	M25	Z	-.403	-.403	0	%100
23	M26	X	.233	.233	0	%100
24	M26	Z	-.403	-.403	0	%100
25	M27	X	1.642	1.642	0	%100
26	M27	Z	-2.844	-2.844	0	%100
27	M28	X	1.642	1.642	0	%100
28	M28	Z	-2.844	-2.844	0	%100
29	M29	X	1.014	1.014	0	%100
30	M29	Z	-1.756	-1.756	0	%100
31	MP4A	X	1.995	1.995	0	%100
32	MP4A	Z	-3.455	-3.455	0	%100
33	M30	X	.399	.399	0	%100
34	M30	Z	-.691	-.691	0	%100
35	MP3A	X	2.015	2.015	0	%100
36	MP3A	Z	-3.491	-3.491	0	%100
37	MP2A	X	2.015	2.015	0	%100
38	MP2A	Z	-3.491	-3.491	0	%100
39	MP1A	X	2.015	2.015	0	%100
40	MP1A	Z	-3.491	-3.491	0	%100
41	M35	X	1.798	1.798	0	%100
42	M35	Z	-3.115	-3.115	0	%100
43	M36	X	.372	.372	0	%100
44	M36	Z	-.645	-.645	0	%100
45	M37	X	2.747	2.747	0	%100
46	M37	Z	-4.758	-4.758	0	%100
47	M44	X	1.798	1.798	0	%100
48	M44	Z	-3.115	-3.115	0	%100
49	M45	X	.372	.372	0	%100
50	M45	Z	-.645	-.645	0	%100
51	M46	X	2.747	2.747	0	%100
52	M46	Z	-4.758	-4.758	0	%100
53	M45A	X	.507	.507	0	%100
54	M45A	Z	-.878	-.878	0	%100
55	M46A	X	2.515	2.515	0	%100
56	M46A	Z	-4.355	-4.355	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.353	1.353	0	%100
2	M1	Z	-.781	-.781	0	%100
3	M2	X	1.353	1.353	0	%100
4	M2	Z	-.781	-.781	0	%100
5	M7A	X	1.353	1.353	0	%100
6	M7A	Z	-.781	-.781	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.%]
7	M8	X	1.353	1.353	0	%100
8	M8	Z	-.781	-.781	0	%100
9	M13	X	2.898	2.898	0	%100
10	M13	Z	-1.673	-1.673	0	%100
11	M14	X	2.898	2.898	0	%100
12	M14	Z	-1.673	-1.673	0	%100
13	M15	X	2.898	2.898	0	%100
14	M15	Z	-1.673	-1.673	0	%100
15	M16	X	2.898	2.898	0	%100
16	M16	Z	-1.673	-1.673	0	%100
17	M19	X	3.091	3.091	0	%100
18	M19	Z	-1.785	-1.785	0	%100
19	M20	X	3.091	3.091	0	%100
20	M20	Z	-1.785	-1.785	0	%100
21	M25	X	1.21	1.21	0	%100
22	M25	Z	-.698	-.698	0	%100
23	M26	X	1.21	1.21	0	%100
24	M26	Z	-.698	-.698	0	%100
25	M27	X	2.898	2.898	0	%100
26	M27	Z	-1.673	-1.673	0	%100
27	M28	X	2.898	2.898	0	%100
28	M28	Z	-1.673	-1.673	0	%100
29	M29	X	2.134	2.134	0	%100
30	M29	Z	-1.232	-1.232	0	%100
31	MP4A	X	3.555	3.555	0	%100
32	MP4A	Z	-2.053	-2.053	0	%100
33	M30	X	2.293	2.293	0	%100
34	M30	Z	-1.324	-1.324	0	%100
35	MP3A	X	3.591	3.591	0	%100
36	MP3A	Z	-2.073	-2.073	0	%100
37	MP2A	X	3.591	3.591	0	%100
38	MP2A	Z	-2.073	-2.073	0	%100
39	MP1A	X	3.591	3.591	0	%100
40	MP1A	Z	-2.073	-2.073	0	%100
41	M35	X	1.038	1.038	0	%100
42	M35	Z	-.599	-.599	0	%100
43	M36	X	.11	.11	0	%100
44	M36	Z	-.064	-.064	0	%100
45	M37	X	4.224	4.224	0	%100
46	M37	Z	-2.438	-2.438	0	%100
47	M44	X	1.038	1.038	0	%100
48	M44	Z	-.599	-.599	0	%100
49	M45	X	.11	.11	0	%100
50	M45	Z	-.064	-.064	0	%100
51	M46	X	4.224	4.224	0	%100
52	M46	Z	-2.438	-2.438	0	%100
53	M45A	X	1.147	1.147	0	%100
54	M45A	Z	-.662	-.662	0	%100
55	M46A	X	4.624	4.624	0	%100
56	M46A	Z	-2.67	-2.67	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



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,%]	
4	M2	Z	0	0	0	%100
5	M7A	X	0	0	0	%100
6	M7A	Z	0	0	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	0	0	0	%100
9	M13	X	3.377	3.377	0	%100
10	M13	Z	0	0	0	%100
11	M14	X	3.377	3.377	0	%100
12	M14	Z	0	0	0	%100
13	M15	X	3.377	3.377	0	%100
14	M15	Z	0	0	0	%100
15	M16	X	3.377	3.377	0	%100
16	M16	Z	0	0	0	%100
17	M19	X	4.759	4.759	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	4.759	4.759	0	%100
20	M20	Z	0	0	0	%100
21	M25	X	1.862	1.862	0	%100
22	M25	Z	0	0	0	%100
23	M26	X	1.862	1.862	0	%100
24	M26	Z	0	0	0	%100
25	M27	X	3.377	3.377	0	%100
26	M27	Z	0	0	0	%100
27	M28	X	3.377	3.377	0	%100
28	M28	Z	0	0	0	%100
29	M29	X	2.683	2.683	0	%100
30	M29	Z	0	0	0	%100
31	MP4A	X	4.163	4.163	0	%100
32	MP4A	Z	0	0	0	%100
33	M30	X	3.706	3.706	0	%100
34	M30	Z	0	0	0	%100
35	MP3A	X	4.205	4.205	0	%100
36	MP3A	Z	0	0	0	%100
37	MP2A	X	4.205	4.205	0	%100
38	MP2A	Z	0	0	0	%100
39	MP1A	X	4.205	4.205	0	%100
40	MP1A	Z	0	0	0	%100
41	M35	X	0	0	0	%100
42	M35	Z	0	0	0	%100
43	M36	X	2.194	2.194	0	%100
44	M36	Z	0	0	0	%100
45	M37	X	2.194	2.194	0	%100
46	M37	Z	0	0	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	0	0	0	%100
49	M45	X	2.194	2.194	0	%100
50	M45	Z	0	0	0	%100
51	M46	X	2.194	2.194	0	%100
52	M46	Z	0	0	0	%100
53	M45A	X	3.487	3.487	0	%100
54	M45A	Z	0	0	0	%100
55	M46A	X	3.487	3.487	0	%100
56	M46A	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,%]
--------------	-----------	---------------------------	--------------------------	----------------------	--------------------



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, %]
1	M1	X	1.353	1.353	0	%100
2	M1	Z	.781	.781	0	%100
3	M2	X	1.353	1.353	0	%100
4	M2	Z	.781	.781	0	%100
5	M7A	X	1.353	1.353	0	%100
6	M7A	Z	.781	.781	0	%100
7	M8	X	1.353	1.353	0	%100
8	M8	Z	.781	.781	0	%100
9	M13	X	2.898	2.898	0	%100
10	M13	Z	1.673	1.673	0	%100
11	M14	X	2.898	2.898	0	%100
12	M14	Z	1.673	1.673	0	%100
13	M15	X	2.898	2.898	0	%100
14	M15	Z	1.673	1.673	0	%100
15	M16	X	2.898	2.898	0	%100
16	M16	Z	1.673	1.673	0	%100
17	M19	X	3.091	3.091	0	%100
18	M19	Z	1.785	1.785	0	%100
19	M20	X	3.091	3.091	0	%100
20	M20	Z	1.785	1.785	0	%100
21	M25	X	1.21	1.21	0	%100
22	M25	Z	.698	.698	0	%100
23	M26	X	1.21	1.21	0	%100
24	M26	Z	.698	.698	0	%100
25	M27	X	2.898	2.898	0	%100
26	M27	Z	1.673	1.673	0	%100
27	M28	X	2.898	2.898	0	%100
28	M28	Z	1.673	1.673	0	%100
29	M29	X	2.134	2.134	0	%100
30	M29	Z	1.232	1.232	0	%100
31	MP4A	X	3.555	3.555	0	%100
32	MP4A	Z	2.053	2.053	0	%100
33	M30	X	2.525	2.525	0	%100
34	M30	Z	1.458	1.458	0	%100
35	MP3A	X	3.591	3.591	0	%100
36	MP3A	Z	2.073	2.073	0	%100
37	MP2A	X	3.591	3.591	0	%100
38	MP2A	Z	2.073	2.073	0	%100
39	MP1A	X	3.591	3.591	0	%100
40	MP1A	Z	2.073	2.073	0	%100
41	M35	X	1.038	1.038	0	%100
42	M35	Z	.599	.599	0	%100
43	M36	X	4.223	4.223	0	%100
44	M36	Z	2.438	2.438	0	%100
45	M37	X	.11	.11	0	%100
46	M37	Z	.064	.064	0	%100
47	M44	X	1.038	1.038	0	%100
48	M44	Z	.599	.599	0	%100
49	M45	X	4.223	4.223	0	%100
50	M45	Z	2.438	2.438	0	%100
51	M46	X	.11	.11	0	%100
52	M46	Z	.064	.064	0	%100
53	M45A	X	4.624	4.624	0	%100
54	M45A	Z	2.67	2.67	0	%100
55	M46A	X	1.147	1.147	0	%100
56	M46A	Z	.662	.662	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	2.343	2.343	0	%100
2	M1	Z	4.058	4.058	0	%100
3	M2	X	2.343	2.343	0	%100
4	M2	Z	4.058	4.058	0	%100
5	M7A	X	2.343	2.343	0	%100
6	M7A	Z	4.058	4.058	0	%100
7	M8	X	2.343	2.343	0	%100
8	M8	Z	4.058	4.058	0	%100
9	M13	X	1.642	1.642	0	%100
10	M13	Z	2.844	2.844	0	%100
11	M14	X	1.642	1.642	0	%100
12	M14	Z	2.844	2.844	0	%100
13	M15	X	1.642	1.642	0	%100
14	M15	Z	2.844	2.844	0	%100
15	M16	X	1.642	1.642	0	%100
16	M16	Z	2.844	2.844	0	%100
17	M19	X	.595	.595	0	%100
18	M19	Z	1.03	1.03	0	%100
19	M20	X	.595	.595	0	%100
20	M20	Z	1.03	1.03	0	%100
21	M25	X	.233	.233	0	%100
22	M25	Z	.403	.403	0	%100
23	M26	X	.233	.233	0	%100
24	M26	Z	.403	.403	0	%100
25	M27	X	1.642	1.642	0	%100
26	M27	Z	2.844	2.844	0	%100
27	M28	X	1.642	1.642	0	%100
28	M28	Z	2.844	2.844	0	%100
29	M29	X	1.014	1.014	0	%100
30	M29	Z	1.756	1.756	0	%100
31	MP4A	X	1.995	1.995	0	%100
32	MP4A	Z	3.455	3.455	0	%100
33	M30	X	.533	.533	0	%100
34	M30	Z	.922	.922	0	%100
35	MP3A	X	2.015	2.015	0	%100
36	MP3A	Z	3.491	3.491	0	%100
37	MP2A	X	2.015	2.015	0	%100
38	MP2A	Z	3.491	3.491	0	%100
39	MP1A	X	2.015	2.015	0	%100
40	MP1A	Z	3.491	3.491	0	%100
41	M35	X	1.798	1.798	0	%100
42	M35	Z	3.115	3.115	0	%100
43	M36	X	2.747	2.747	0	%100
44	M36	Z	4.758	4.758	0	%100
45	M37	X	.372	.372	0	%100
46	M37	Z	.645	.645	0	%100
47	M44	X	1.798	1.798	0	%100
48	M44	Z	3.115	3.115	0	%100
49	M45	X	2.747	2.747	0	%100
50	M45	Z	4.758	4.758	0	%100
51	M46	X	.372	.372	0	%100
52	M46	Z	.645	.645	0	%100
53	M45A	X	2.515	2.515	0	%100
54	M45A	Z	4.355	4.355	0	%100
55	M46A	X	.507	.507	0	%100
56	M46A	Z	.878	.878	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	6.247	6.247	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	6.247	6.247	0	%100
5	M7A	X	0	0	0	%100
6	M7A	Z	6.247	6.247	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	6.247	6.247	0	%100
9	M13	X	0	0	0	%100
10	M13	Z	3.252	3.252	0	%100
11	M14	X	0	0	0	%100
12	M14	Z	3.252	3.252	0	%100
13	M15	X	0	0	0	%100
14	M15	Z	3.252	3.252	0	%100
15	M16	X	0	0	0	%100
16	M16	Z	3.252	3.252	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	0	0	0	%100
21	M25	X	0	0	0	%100
22	M25	Z	0	0	0	%100
23	M26	X	0	0	0	%100
24	M26	Z	0	0	0	%100
25	M27	X	0	0	0	%100
26	M27	Z	3.252	3.252	0	%100
27	M28	X	0	0	0	%100
28	M28	Z	3.252	3.252	0	%100
29	M29	X	0	0	0	%100
30	M29	Z	1.81	1.81	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	3.931	3.931	0	%100
33	M30	X	0	0	0	%100
34	M30	Z	.006	.006	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	3.973	3.973	0	%100
37	MP2A	X	0	0	0	%100
38	MP2A	Z	3.973	3.973	0	%100
39	MP1A	X	0	0	0	%100
40	MP1A	Z	3.973	3.973	0	%100
41	M35	X	0	0	0	%100
42	M35	Z	4.795	4.795	0	%100
43	M36	X	0	0	0	%100
44	M36	Z	3.428	3.428	0	%100
45	M37	X	0	0	0	%100
46	M37	Z	3.428	3.428	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	4.795	4.795	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	3.428	3.428	0	%100
51	M46	X	0	0	0	%100
52	M46	Z	3.428	3.428	0	%100
53	M45A	X	0	0	0	%100
54	M45A	Z	2.866	2.866	0	%100
55	M46A	X	0	0	0	%100
56	M46A	Z	2.866	2.866	0	%100



Company : Maser Consulting
 Designer : AE
 Job Number : Project No. 10019508
 Model Name : 467225-VZW_MT_LOT_SectorA_H

Apr 11, 2021
 3:18 PM
 Checked By: DX

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	-2.343	-2.343	0 %100
2	M1	Z	4.058	4.058	0 %100
3	M2	X	-2.343	-2.343	0 %100
4	M2	Z	4.058	4.058	0 %100
5	M7A	X	-2.343	-2.343	0 %100
6	M7A	Z	4.058	4.058	0 %100
7	M8	X	-2.343	-2.343	0 %100
8	M8	Z	4.058	4.058	0 %100
9	M13	X	-1.642	-1.642	0 %100
10	M13	Z	2.844	2.844	0 %100
11	M14	X	-1.642	-1.642	0 %100
12	M14	Z	2.844	2.844	0 %100
13	M15	X	-1.642	-1.642	0 %100
14	M15	Z	2.844	2.844	0 %100
15	M16	X	-1.642	-1.642	0 %100
16	M16	Z	2.844	2.844	0 %100
17	M19	X	-.595	-.595	0 %100
18	M19	Z	1.03	1.03	0 %100
19	M20	X	-.595	-.595	0 %100
20	M20	Z	1.03	1.03	0 %100
21	M25	X	-.233	-.233	0 %100
22	M25	Z	.403	.403	0 %100
23	M26	X	-.233	-.233	0 %100
24	M26	Z	.403	.403	0 %100
25	M27	X	-1.642	-1.642	0 %100
26	M27	Z	2.844	2.844	0 %100
27	M28	X	-1.642	-1.642	0 %100
28	M28	Z	2.844	2.844	0 %100
29	M29	X	-1.014	-1.014	0 %100
30	M29	Z	1.756	1.756	0 %100
31	MP4A	X	-1.995	-1.995	0 %100
32	MP4A	Z	3.455	3.455	0 %100
33	M30	X	-.399	-.399	0 %100
34	M30	Z	.691	.691	0 %100
35	MP3A	X	-2.015	-2.015	0 %100
36	MP3A	Z	3.491	3.491	0 %100
37	MP2A	X	-2.015	-2.015	0 %100
38	MP2A	Z	3.491	3.491	0 %100
39	MP1A	X	-2.015	-2.015	0 %100
40	MP1A	Z	3.491	3.491	0 %100
41	M35	X	-1.798	-1.798	0 %100
42	M35	Z	3.115	3.115	0 %100
43	M36	X	-.372	-.372	0 %100
44	M36	Z	.645	.645	0 %100
45	M37	X	-2.747	-2.747	0 %100
46	M37	Z	4.758	4.758	0 %100
47	M44	X	-1.798	-1.798	0 %100
48	M44	Z	3.115	3.115	0 %100
49	M45	X	-.372	-.372	0 %100
50	M45	Z	.645	.645	0 %100
51	M46	X	-2.747	-2.747	0 %100
52	M46	Z	4.758	4.758	0 %100
53	M45A	X	-.507	-.507	0 %100
54	M45A	Z	.878	.878	0 %100
55	M46A	X	-2.515	-2.515	0 %100
56	M46A	Z	4.355	4.355	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.353	-1.353	0 %100
2	M1	Z	.781	.781	0 %100
3	M2	X	-1.353	-1.353	0 %100
4	M2	Z	.781	.781	0 %100
5	M7A	X	-1.353	-1.353	0 %100
6	M7A	Z	.781	.781	0 %100
7	M8	X	-1.353	-1.353	0 %100
8	M8	Z	.781	.781	0 %100
9	M13	X	-2.898	-2.898	0 %100
10	M13	Z	1.673	1.673	0 %100
11	M14	X	-2.898	-2.898	0 %100
12	M14	Z	1.673	1.673	0 %100
13	M15	X	-2.898	-2.898	0 %100
14	M15	Z	1.673	1.673	0 %100
15	M16	X	-2.898	-2.898	0 %100
16	M16	Z	1.673	1.673	0 %100
17	M19	X	-3.091	-3.091	0 %100
18	M19	Z	1.785	1.785	0 %100
19	M20	X	-3.091	-3.091	0 %100
20	M20	Z	1.785	1.785	0 %100
21	M25	X	-1.21	-1.21	0 %100
22	M25	Z	.698	.698	0 %100
23	M26	X	-1.21	-1.21	0 %100
24	M26	Z	.698	.698	0 %100
25	M27	X	-2.898	-2.898	0 %100
26	M27	Z	1.673	1.673	0 %100
27	M28	X	-2.898	-2.898	0 %100
28	M28	Z	1.673	1.673	0 %100
29	M29	X	-2.134	-2.134	0 %100
30	M29	Z	1.232	1.232	0 %100
31	MP4A	X	-3.555	-3.555	0 %100
32	MP4A	Z	2.053	2.053	0 %100
33	M30	X	-2.293	-2.293	0 %100
34	M30	Z	1.324	1.324	0 %100
35	MP3A	X	-3.591	-3.591	0 %100
36	MP3A	Z	2.073	2.073	0 %100
37	MP2A	X	-3.591	-3.591	0 %100
38	MP2A	Z	2.073	2.073	0 %100
39	MP1A	X	-3.591	-3.591	0 %100
40	MP1A	Z	2.073	2.073	0 %100
41	M35	X	-1.038	-1.038	0 %100
42	M35	Z	.599	.599	0 %100
43	M36	X	-.11	-.11	0 %100
44	M36	Z	.064	.064	0 %100
45	M37	X	-4.224	-4.224	0 %100
46	M37	Z	2.438	2.438	0 %100
47	M44	X	-1.038	-1.038	0 %100
48	M44	Z	.599	.599	0 %100
49	M45	X	-.11	-.11	0 %100
50	M45	Z	.064	.064	0 %100
51	M46	X	-4.224	-4.224	0 %100
52	M46	Z	2.438	2.438	0 %100
53	M45A	X	-1.147	-1.147	0 %100
54	M45A	Z	.662	.662	0 %100
55	M46A	X	-4.624	-4.624	0 %100
56	M46A	Z	2.67	2.67	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	%100
2	M1	Z	0	0	%100
3	M2	X	0	0	%100
4	M2	Z	0	0	%100
5	M7A	X	0	0	%100
6	M7A	Z	0	0	%100
7	M8	X	0	0	%100
8	M8	Z	0	0	%100
9	M13	X	-3.377	-3.377	%100
10	M13	Z	0	0	%100
11	M14	X	-3.377	-3.377	%100
12	M14	Z	0	0	%100
13	M15	X	-3.377	-3.377	%100
14	M15	Z	0	0	%100
15	M16	X	-3.377	-3.377	%100
16	M16	Z	0	0	%100
17	M19	X	-4.759	-4.759	%100
18	M19	Z	0	0	%100
19	M20	X	-4.759	-4.759	%100
20	M20	Z	0	0	%100
21	M25	X	-1.862	-1.862	%100
22	M25	Z	0	0	%100
23	M26	X	-1.862	-1.862	%100
24	M26	Z	0	0	%100
25	M27	X	-3.377	-3.377	%100
26	M27	Z	0	0	%100
27	M28	X	-3.377	-3.377	%100
28	M28	Z	0	0	%100
29	M29	X	-2.683	-2.683	%100
30	M29	Z	0	0	%100
31	MP4A	X	-4.163	-4.163	%100
32	MP4A	Z	0	0	%100
33	M30	X	-3.706	-3.706	%100
34	M30	Z	0	0	%100
35	MP3A	X	-4.205	-4.205	%100
36	MP3A	Z	0	0	%100
37	MP2A	X	-4.205	-4.205	%100
38	MP2A	Z	0	0	%100
39	MP1A	X	-4.205	-4.205	%100
40	MP1A	Z	0	0	%100
41	M35	X	0	0	%100
42	M35	Z	0	0	%100
43	M36	X	-2.194	-2.194	%100
44	M36	Z	0	0	%100
45	M37	X	-2.194	-2.194	%100
46	M37	Z	0	0	%100
47	M44	X	0	0	%100
48	M44	Z	0	0	%100
49	M45	X	-2.194	-2.194	%100
50	M45	Z	0	0	%100
51	M46	X	-2.194	-2.194	%100
52	M46	Z	0	0	%100
53	M45A	X	-3.487	-3.487	%100
54	M45A	Z	0	0	%100
55	M46A	X	-3.487	-3.487	%100
56	M46A	Z	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.353	-1.353	0 %100
2	M1	Z	-.781	-.781	0 %100
3	M2	X	-1.353	-1.353	0 %100
4	M2	Z	-.781	-.781	0 %100
5	M7A	X	-1.353	-1.353	0 %100
6	M7A	Z	-.781	-.781	0 %100
7	M8	X	-1.353	-1.353	0 %100
8	M8	Z	-.781	-.781	0 %100
9	M13	X	-2.898	-2.898	0 %100
10	M13	Z	-1.673	-1.673	0 %100
11	M14	X	-2.898	-2.898	0 %100
12	M14	Z	-1.673	-1.673	0 %100
13	M15	X	-2.898	-2.898	0 %100
14	M15	Z	-1.673	-1.673	0 %100
15	M16	X	-2.898	-2.898	0 %100
16	M16	Z	-1.673	-1.673	0 %100
17	M19	X	-3.091	-3.091	0 %100
18	M19	Z	-1.785	-1.785	0 %100
19	M20	X	-3.091	-3.091	0 %100
20	M20	Z	-1.785	-1.785	0 %100
21	M25	X	-1.21	-1.21	0 %100
22	M25	Z	-.698	-.698	0 %100
23	M26	X	-1.21	-1.21	0 %100
24	M26	Z	-.698	-.698	0 %100
25	M27	X	-2.898	-2.898	0 %100
26	M27	Z	-1.673	-1.673	0 %100
27	M28	X	-2.898	-2.898	0 %100
28	M28	Z	-1.673	-1.673	0 %100
29	M29	X	-2.134	-2.134	0 %100
30	M29	Z	-1.232	-1.232	0 %100
31	MP4A	X	-3.555	-3.555	0 %100
32	MP4A	Z	-2.053	-2.053	0 %100
33	M30	X	-2.525	-2.525	0 %100
34	M30	Z	-1.458	-1.458	0 %100
35	MP3A	X	-3.591	-3.591	0 %100
36	MP3A	Z	-2.073	-2.073	0 %100
37	MP2A	X	-3.591	-3.591	0 %100
38	MP2A	Z	-2.073	-2.073	0 %100
39	MP1A	X	-3.591	-3.591	0 %100
40	MP1A	Z	-2.073	-2.073	0 %100
41	M35	X	-1.038	-1.038	0 %100
42	M35	Z	-.599	-.599	0 %100
43	M36	X	-4.223	-4.223	0 %100
44	M36	Z	-2.438	-2.438	0 %100
45	M37	X	-.11	-.11	0 %100
46	M37	Z	-.064	-.064	0 %100
47	M44	X	-1.038	-1.038	0 %100
48	M44	Z	-.599	-.599	0 %100
49	M45	X	-4.223	-4.223	0 %100
50	M45	Z	-2.438	-2.438	0 %100
51	M46	X	-.11	-.11	0 %100
52	M46	Z	-.064	-.064	0 %100
53	M45A	X	-4.624	-4.624	0 %100
54	M45A	Z	-2.67	-2.67	0 %100
55	M46A	X	-1.147	-1.147	0 %100
56	M46A	Z	-.662	-.662	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	-2.343	-2.343	0 %100
2	M1	Z	-4.058	-4.058	0 %100
3	M2	X	-2.343	-2.343	0 %100
4	M2	Z	-4.058	-4.058	0 %100
5	M7A	X	-2.343	-2.343	0 %100
6	M7A	Z	-4.058	-4.058	0 %100
7	M8	X	-2.343	-2.343	0 %100
8	M8	Z	-4.058	-4.058	0 %100
9	M13	X	-1.642	-1.642	0 %100
10	M13	Z	-2.844	-2.844	0 %100
11	M14	X	-1.642	-1.642	0 %100
12	M14	Z	-2.844	-2.844	0 %100
13	M15	X	-1.642	-1.642	0 %100
14	M15	Z	-2.844	-2.844	0 %100
15	M16	X	-1.642	-1.642	0 %100
16	M16	Z	-2.844	-2.844	0 %100
17	M19	X	-.595	-.595	0 %100
18	M19	Z	-1.03	-1.03	0 %100
19	M20	X	-.595	-.595	0 %100
20	M20	Z	-1.03	-1.03	0 %100
21	M25	X	-.233	-.233	0 %100
22	M25	Z	-.403	-.403	0 %100
23	M26	X	-.233	-.233	0 %100
24	M26	Z	-.403	-.403	0 %100
25	M27	X	-1.642	-1.642	0 %100
26	M27	Z	-2.844	-2.844	0 %100
27	M28	X	-1.642	-1.642	0 %100
28	M28	Z	-2.844	-2.844	0 %100
29	M29	X	-1.014	-1.014	0 %100
30	M29	Z	-1.756	-1.756	0 %100
31	MP4A	X	-1.995	-1.995	0 %100
32	MP4A	Z	-3.455	-3.455	0 %100
33	M30	X	-.533	-.533	0 %100
34	M30	Z	-.922	-.922	0 %100
35	MP3A	X	-2.015	-2.015	0 %100
36	MP3A	Z	-3.491	-3.491	0 %100
37	MP2A	X	-2.015	-2.015	0 %100
38	MP2A	Z	-3.491	-3.491	0 %100
39	MP1A	X	-2.015	-2.015	0 %100
40	MP1A	Z	-3.491	-3.491	0 %100
41	M35	X	-1.798	-1.798	0 %100
42	M35	Z	-3.115	-3.115	0 %100
43	M36	X	-2.747	-2.747	0 %100
44	M36	Z	-4.758	-4.758	0 %100
45	M37	X	-.372	-.372	0 %100
46	M37	Z	-.645	-.645	0 %100
47	M44	X	-1.798	-1.798	0 %100
48	M44	Z	-3.115	-3.115	0 %100
49	M45	X	-2.747	-2.747	0 %100
50	M45	Z	-4.758	-4.758	0 %100
51	M46	X	-.372	-.372	0 %100
52	M46	Z	-.645	-.645	0 %100
53	M45A	X	-2.515	-2.515	0 %100
54	M45A	Z	-4.355	-4.355	0 %100
55	M46A	X	-.507	-.507	0 %100
56	M46A	Z	-.878	-.878	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	-1.355	-1.355	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-1.355	-1.355	0	%100
5	M7A	X	0	0	0	%100
6	M7A	Z	-1.355	-1.355	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	-1.355	-1.355	0	%100
9	M13	X	0	0	0	%100
10	M13	Z	-0.482	-0.482	0	%100
11	M14	X	0	0	0	%100
12	M14	Z	-0.482	-0.482	0	%100
13	M15	X	0	0	0	%100
14	M15	Z	-0.482	-0.482	0	%100
15	M16	X	0	0	0	%100
16	M16	Z	-0.482	-0.482	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	0	0	0	%100
21	M25	X	0	0	0	%100
22	M25	Z	0	0	0	%100
23	M26	X	0	0	0	%100
24	M26	Z	0	0	0	%100
25	M27	X	0	0	0	%100
26	M27	Z	-0.482	-0.482	0	%100
27	M28	X	0	0	0	%100
28	M28	Z	-0.482	-0.482	0	%100
29	M29	X	0	0	0	%100
30	M29	Z	-0.16	-0.16	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	-0.56	-0.56	0	%100
33	M30	X	0	0	0	%100
34	M30	Z	-0.001	-0.001	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	-0.56	-0.56	0	%100
37	MP2A	X	0	0	0	%100
38	MP2A	Z	-0.56	-0.56	0	%100
39	MP1A	X	0	0	0	%100
40	MP1A	Z	-0.56	-0.56	0	%100
41	M35	X	0	0	0	%100
42	M35	Z	-0.779	-0.779	0	%100
43	M36	X	0	0	0	%100
44	M36	Z	-0.689	-0.689	0	%100
45	M37	X	0	0	0	%100
46	M37	Z	-0.689	-0.689	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	-0.779	-0.779	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	-0.689	-0.689	0	%100
51	M46	X	0	0	0	%100
52	M46	Z	-0.689	-0.689	0	%100
53	M45A	X	0	0	0	%100
54	M45A	Z	-0.587	-0.587	0	%100
55	M46A	X	0	0	0	%100
56	M46A	Z	-0.587	-0.587	0	%100



Company : Maser Consulting
 Designer : AE
 Job Number : Project No. 10019508
 Model Name : 467225-VZW_MT_LOT_SectorA_H

Apr 11, 2021
 3:18 PM
 Checked By: DX

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	.508	.508	0	%100
2	M1	Z	-.88	-.88	0	%100
3	M2	X	.508	.508	0	%100
4	M2	Z	-.88	-.88	0	%100
5	M7A	X	.508	.508	0	%100
6	M7A	Z	-.88	-.88	0	%100
7	M8	X	.508	.508	0	%100
8	M8	Z	-.88	-.88	0	%100
9	M13	X	.246	.246	0	%100
10	M13	Z	-.427	-.427	0	%100
11	M14	X	.246	.246	0	%100
12	M14	Z	-.427	-.427	0	%100
13	M15	X	.246	.246	0	%100
14	M15	Z	-.427	-.427	0	%100
15	M16	X	.246	.246	0	%100
16	M16	Z	-.427	-.427	0	%100
17	M19	X	.13	.13	0	%100
18	M19	Z	-.225	-.225	0	%100
19	M20	X	.13	.13	0	%100
20	M20	Z	-.225	-.225	0	%100
21	M25	X	.013	.013	0	%100
22	M25	Z	-.022	-.022	0	%100
23	M26	X	.013	.013	0	%100
24	M26	Z	-.022	-.022	0	%100
25	M27	X	.246	.246	0	%100
26	M27	Z	-.427	-.427	0	%100
27	M28	X	.246	.246	0	%100
28	M28	Z	-.427	-.427	0	%100
29	M29	X	.09	.09	0	%100
30	M29	Z	-.155	-.155	0	%100
31	MP4A	X	.291	.291	0	%100
32	MP4A	Z	-.503	-.503	0	%100
33	M30	X	.063	.063	0	%100
34	M30	Z	-.109	-.109	0	%100
35	MP3A	X	.291	.291	0	%100
36	MP3A	Z	-.503	-.503	0	%100
37	MP2A	X	.291	.291	0	%100
38	MP2A	Z	-.503	-.503	0	%100
39	MP1A	X	.291	.291	0	%100
40	MP1A	Z	-.503	-.503	0	%100
41	M35	X	.292	.292	0	%100
42	M35	Z	-.506	-.506	0	%100
43	M36	X	.075	.075	0	%100
44	M36	Z	-.13	-.13	0	%100
45	M37	X	.552	.552	0	%100
46	M37	Z	-.956	-.956	0	%100
47	M44	X	.292	.292	0	%100
48	M44	Z	-.506	-.506	0	%100
49	M45	X	.075	.075	0	%100
50	M45	Z	-.13	-.13	0	%100
51	M46	X	.552	.552	0	%100
52	M46	Z	-.956	-.956	0	%100
53	M45A	X	.104	.104	0	%100
54	M45A	Z	-.18	-.18	0	%100
55	M46A	X	.515	.515	0	%100
56	M46A	Z	-.892	-.892	0	%100



Company : Maser Consulting
 Designer : AE
 Job Number : Project No. 10019508
 Model Name : 467225-VZW_MT_LOT_SectorA_H

Apr 11, 2021
 3:18 PM
 Checked By: DX

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	.293	.293	0 %100
2	M1	Z	-.169	-.169	0 %100
3	M2	X	.293	.293	0 %100
4	M2	Z	-.169	-.169	0 %100
5	M7A	X	.293	.293	0 %100
6	M7A	Z	-.169	-.169	0 %100
7	M8	X	.293	.293	0 %100
8	M8	Z	-.169	-.169	0 %100
9	M13	X	.446	.446	0 %100
10	M13	Z	-.258	-.258	0 %100
11	M14	X	.446	.446	0 %100
12	M14	Z	-.258	-.258	0 %100
13	M15	X	.446	.446	0 %100
14	M15	Z	-.258	-.258	0 %100
15	M16	X	.446	.446	0 %100
16	M16	Z	-.258	-.258	0 %100
17	M19	X	.675	.675	0 %100
18	M19	Z	-.39	-.39	0 %100
19	M20	X	.675	.675	0 %100
20	M20	Z	-.39	-.39	0 %100
21	M25	X	.066	.066	0 %100
22	M25	Z	-.038	-.038	0 %100
23	M26	X	.066	.066	0 %100
24	M26	Z	-.038	-.038	0 %100
25	M27	X	.446	.446	0 %100
26	M27	Z	-.258	-.258	0 %100
27	M28	X	.446	.446	0 %100
28	M28	Z	-.258	-.258	0 %100
29	M29	X	.189	.189	0 %100
30	M29	Z	-.109	-.109	0 %100
31	MP4A	X	.539	.539	0 %100
32	MP4A	Z	-.311	-.311	0 %100
33	M30	X	.362	.362	0 %100
34	M30	Z	-.209	-.209	0 %100
35	MP3A	X	.539	.539	0 %100
36	MP3A	Z	-.311	-.311	0 %100
37	MP2A	X	.539	.539	0 %100
38	MP2A	Z	-.311	-.311	0 %100
39	MP1A	X	.539	.539	0 %100
40	MP1A	Z	-.311	-.311	0 %100
41	M35	X	.169	.169	0 %100
42	M35	Z	-.097	-.097	0 %100
43	M36	X	.022	.022	0 %100
44	M36	Z	-.013	-.013	0 %100
45	M37	X	.849	.849	0 %100
46	M37	Z	-.49	-.49	0 %100
47	M44	X	.169	.169	0 %100
48	M44	Z	-.097	-.097	0 %100
49	M45	X	.022	.022	0 %100
50	M45	Z	-.013	-.013	0 %100
51	M46	X	.849	.849	0 %100
52	M46	Z	-.49	-.49	0 %100
53	M45A	X	.235	.235	0 %100
54	M45A	Z	-.136	-.136	0 %100
55	M46A	X	.947	.947	0 %100
56	M46A	Z	-.547	-.547	0 %100



Company : Maser Consulting
 Designer : AE
 Job Number : Project No. 10019508
 Model Name : 467225-VZW_MT_LOT_SectorA_H

Apr 11, 2021
 3:18 PM
 Checked By: DX

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	M7A	X	0	0	0	%100
6	M7A	Z	0	0	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	0	0	0	%100
9	M13	X	.526	.526	0	%100
10	M13	Z	0	0	0	%100
11	M14	X	.526	.526	0	%100
12	M14	Z	0	0	0	%100
13	M15	X	.526	.526	0	%100
14	M15	Z	0	0	0	%100
15	M16	X	.526	.526	0	%100
16	M16	Z	0	0	0	%100
17	M19	X	1.039	1.039	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	1.039	1.039	0	%100
20	M20	Z	0	0	0	%100
21	M25	X	.102	.102	0	%100
22	M25	Z	0	0	0	%100
23	M26	X	.102	.102	0	%100
24	M26	Z	0	0	0	%100
25	M27	X	.526	.526	0	%100
26	M27	Z	0	0	0	%100
27	M28	X	.526	.526	0	%100
28	M28	Z	0	0	0	%100
29	M29	X	.237	.237	0	%100
30	M29	Z	0	0	0	%100
31	MP4A	X	.644	.644	0	%100
32	MP4A	Z	0	0	0	%100
33	M30	X	.586	.586	0	%100
34	M30	Z	0	0	0	%100
35	MP3A	X	.644	.644	0	%100
36	MP3A	Z	0	0	0	%100
37	MP2A	X	.644	.644	0	%100
38	MP2A	Z	0	0	0	%100
39	MP1A	X	.644	.644	0	%100
40	MP1A	Z	0	0	0	%100
41	M35	X	0	0	0	%100
42	M35	Z	0	0	0	%100
43	M36	X	.441	.441	0	%100
44	M36	Z	0	0	0	%100
45	M37	X	.441	.441	0	%100
46	M37	Z	0	0	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	0	0	0	%100
49	M45	X	.441	.441	0	%100
50	M45	Z	0	0	0	%100
51	M46	X	.441	.441	0	%100
52	M46	Z	0	0	0	%100
53	M45A	X	.714	.714	0	%100
54	M45A	Z	0	0	0	%100
55	M46A	X	.714	.714	0	%100
56	M46A	Z	0	0	0	%100



Company : Maser Consulting
 Designer : AE
 Job Number : Project No. 10019508
 Model Name : 467225-VZW_MT_LOT_SectorA_H

Apr 11, 2021
 3:18 PM
 Checked By: DX

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	.293	.293	0	%100
2	M1	Z	.169	.169	0	%100
3	M2	X	.293	.293	0	%100
4	M2	Z	.169	.169	0	%100
5	M7A	X	.293	.293	0	%100
6	M7A	Z	.169	.169	0	%100
7	M8	X	.293	.293	0	%100
8	M8	Z	.169	.169	0	%100
9	M13	X	.446	.446	0	%100
10	M13	Z	.258	.258	0	%100
11	M14	X	.446	.446	0	%100
12	M14	Z	.258	.258	0	%100
13	M15	X	.446	.446	0	%100
14	M15	Z	.258	.258	0	%100
15	M16	X	.446	.446	0	%100
16	M16	Z	.258	.258	0	%100
17	M19	X	.675	.675	0	%100
18	M19	Z	.39	.39	0	%100
19	M20	X	.675	.675	0	%100
20	M20	Z	.39	.39	0	%100
21	M25	X	.066	.066	0	%100
22	M25	Z	.038	.038	0	%100
23	M26	X	.066	.066	0	%100
24	M26	Z	.038	.038	0	%100
25	M27	X	.446	.446	0	%100
26	M27	Z	.258	.258	0	%100
27	M28	X	.446	.446	0	%100
28	M28	Z	.258	.258	0	%100
29	M29	X	.189	.189	0	%100
30	M29	Z	.109	.109	0	%100
31	MP4A	X	.539	.539	0	%100
32	MP4A	Z	.311	.311	0	%100
33	M30	X	.399	.399	0	%100
34	M30	Z	.23	.23	0	%100
35	MP3A	X	.539	.539	0	%100
36	MP3A	Z	.311	.311	0	%100
37	MP2A	X	.539	.539	0	%100
38	MP2A	Z	.311	.311	0	%100
39	MP1A	X	.539	.539	0	%100
40	MP1A	Z	.311	.311	0	%100
41	M35	X	.169	.169	0	%100
42	M35	Z	.097	.097	0	%100
43	M36	X	.849	.849	0	%100
44	M36	Z	.49	.49	0	%100
45	M37	X	.022	.022	0	%100
46	M37	Z	.013	.013	0	%100
47	M44	X	.169	.169	0	%100
48	M44	Z	.097	.097	0	%100
49	M45	X	.849	.849	0	%100
50	M45	Z	.49	.49	0	%100
51	M46	X	.022	.022	0	%100
52	M46	Z	.013	.013	0	%100
53	M45A	X	.947	.947	0	%100
54	M45A	Z	.547	.547	0	%100
55	M46A	X	.235	.235	0	%100
56	M46A	Z	.136	.136	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	.508	.508	0	%100
2	M1	Z	.88	.88	0	%100
3	M2	X	.508	.508	0	%100
4	M2	Z	.88	.88	0	%100
5	M7A	X	.508	.508	0	%100
6	M7A	Z	.88	.88	0	%100
7	M8	X	.508	.508	0	%100
8	M8	Z	.88	.88	0	%100
9	M13	X	.246	.246	0	%100
10	M13	Z	.427	.427	0	%100
11	M14	X	.246	.246	0	%100
12	M14	Z	.427	.427	0	%100
13	M15	X	.246	.246	0	%100
14	M15	Z	.427	.427	0	%100
15	M16	X	.246	.246	0	%100
16	M16	Z	.427	.427	0	%100
17	M19	X	.13	.13	0	%100
18	M19	Z	.225	.225	0	%100
19	M20	X	.13	.13	0	%100
20	M20	Z	.225	.225	0	%100
21	M25	X	.013	.013	0	%100
22	M25	Z	.022	.022	0	%100
23	M26	X	.013	.013	0	%100
24	M26	Z	.022	.022	0	%100
25	M27	X	.246	.246	0	%100
26	M27	Z	.427	.427	0	%100
27	M28	X	.246	.246	0	%100
28	M28	Z	.427	.427	0	%100
29	M29	X	.09	.09	0	%100
30	M29	Z	.155	.155	0	%100
31	MP4A	X	.291	.291	0	%100
32	MP4A	Z	.503	.503	0	%100
33	M30	X	.084	.084	0	%100
34	M30	Z	.146	.146	0	%100
35	MP3A	X	.291	.291	0	%100
36	MP3A	Z	.503	.503	0	%100
37	MP2A	X	.291	.291	0	%100
38	MP2A	Z	.503	.503	0	%100
39	MP1A	X	.291	.291	0	%100
40	MP1A	Z	.503	.503	0	%100
41	M35	X	.292	.292	0	%100
42	M35	Z	.506	.506	0	%100
43	M36	X	.552	.552	0	%100
44	M36	Z	.956	.956	0	%100
45	M37	X	.075	.075	0	%100
46	M37	Z	.13	.13	0	%100
47	M44	X	.292	.292	0	%100
48	M44	Z	.506	.506	0	%100
49	M45	X	.552	.552	0	%100
50	M45	Z	.956	.956	0	%100
51	M46	X	.075	.075	0	%100
52	M46	Z	.13	.13	0	%100
53	M45A	X	.515	.515	0	%100
54	M45A	Z	.892	.892	0	%100
55	M46A	X	.104	.104	0	%100
56	M46A	Z	.18	.18	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	1.355	1.355	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	1.355	1.355	0	%100
5	M7A	X	0	0	0	%100
6	M7A	Z	1.355	1.355	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	1.355	1.355	0	%100
9	M13	X	0	0	0	%100
10	M13	Z	.482	.482	0	%100
11	M14	X	0	0	0	%100
12	M14	Z	.482	.482	0	%100
13	M15	X	0	0	0	%100
14	M15	Z	.482	.482	0	%100
15	M16	X	0	0	0	%100
16	M16	Z	.482	.482	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	0	0	0	%100
21	M25	X	0	0	0	%100
22	M25	Z	0	0	0	%100
23	M26	X	0	0	0	%100
24	M26	Z	0	0	0	%100
25	M27	X	0	0	0	%100
26	M27	Z	.482	.482	0	%100
27	M28	X	0	0	0	%100
28	M28	Z	.482	.482	0	%100
29	M29	X	0	0	0	%100
30	M29	Z	.16	.16	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	.56	.56	0	%100
33	M30	X	0	0	0	%100
34	M30	Z	.001	.001	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	.56	.56	0	%100
37	MP2A	X	0	0	0	%100
38	MP2A	Z	.56	.56	0	%100
39	MP1A	X	0	0	0	%100
40	MP1A	Z	.56	.56	0	%100
41	M35	X	0	0	0	%100
42	M35	Z	.779	.779	0	%100
43	M36	X	0	0	0	%100
44	M36	Z	.689	.689	0	%100
45	M37	X	0	0	0	%100
46	M37	Z	.689	.689	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	.779	.779	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	.689	.689	0	%100
51	M46	X	0	0	0	%100
52	M46	Z	.689	.689	0	%100
53	M45A	X	0	0	0	%100
54	M45A	Z	.587	.587	0	%100
55	M46A	X	0	0	0	%100
56	M46A	Z	.587	.587	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	-.508	-.508	0	%100
2	M1	Z	.88	.88	0	%100
3	M2	X	-.508	-.508	0	%100
4	M2	Z	.88	.88	0	%100
5	M7A	X	-.508	-.508	0	%100
6	M7A	Z	.88	.88	0	%100
7	M8	X	-.508	-.508	0	%100
8	M8	Z	.88	.88	0	%100
9	M13	X	-.246	-.246	0	%100
10	M13	Z	.427	.427	0	%100
11	M14	X	-.246	-.246	0	%100
12	M14	Z	.427	.427	0	%100
13	M15	X	-.246	-.246	0	%100
14	M15	Z	.427	.427	0	%100
15	M16	X	-.246	-.246	0	%100
16	M16	Z	.427	.427	0	%100
17	M19	X	-.13	-.13	0	%100
18	M19	Z	.225	.225	0	%100
19	M20	X	-.13	-.13	0	%100
20	M20	Z	.225	.225	0	%100
21	M25	X	-.013	-.013	0	%100
22	M25	Z	.022	.022	0	%100
23	M26	X	-.013	-.013	0	%100
24	M26	Z	.022	.022	0	%100
25	M27	X	-.246	-.246	0	%100
26	M27	Z	.427	.427	0	%100
27	M28	X	-.246	-.246	0	%100
28	M28	Z	.427	.427	0	%100
29	M29	X	-.09	-.09	0	%100
30	M29	Z	.155	.155	0	%100
31	MP4A	X	-.291	-.291	0	%100
32	MP4A	Z	.503	.503	0	%100
33	M30	X	-.063	-.063	0	%100
34	M30	Z	.109	.109	0	%100
35	MP3A	X	-.291	-.291	0	%100
36	MP3A	Z	.503	.503	0	%100
37	MP2A	X	-.291	-.291	0	%100
38	MP2A	Z	.503	.503	0	%100
39	MP1A	X	-.291	-.291	0	%100
40	MP1A	Z	.503	.503	0	%100
41	M35	X	-.292	-.292	0	%100
42	M35	Z	.506	.506	0	%100
43	M36	X	-.075	-.075	0	%100
44	M36	Z	.13	.13	0	%100
45	M37	X	-.552	-.552	0	%100
46	M37	Z	.956	.956	0	%100
47	M44	X	-.292	-.292	0	%100
48	M44	Z	.506	.506	0	%100
49	M45	X	-.075	-.075	0	%100
50	M45	Z	.13	.13	0	%100
51	M46	X	-.552	-.552	0	%100
52	M46	Z	.956	.956	0	%100
53	M45A	X	-.104	-.104	0	%100
54	M45A	Z	.18	.18	0	%100
55	M46A	X	-.515	-.515	0	%100
56	M46A	Z	.892	.892	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	-.293	-.293	0 %100
2	M1	Z	.169	.169	0 %100
3	M2	X	-.293	-.293	0 %100
4	M2	Z	.169	.169	0 %100
5	M7A	X	-.293	-.293	0 %100
6	M7A	Z	.169	.169	0 %100
7	M8	X	-.293	-.293	0 %100
8	M8	Z	.169	.169	0 %100
9	M13	X	-.446	-.446	0 %100
10	M13	Z	.258	.258	0 %100
11	M14	X	-.446	-.446	0 %100
12	M14	Z	.258	.258	0 %100
13	M15	X	-.446	-.446	0 %100
14	M15	Z	.258	.258	0 %100
15	M16	X	-.446	-.446	0 %100
16	M16	Z	.258	.258	0 %100
17	M19	X	-.675	-.675	0 %100
18	M19	Z	.39	.39	0 %100
19	M20	X	-.675	-.675	0 %100
20	M20	Z	.39	.39	0 %100
21	M25	X	-.066	-.066	0 %100
22	M25	Z	.038	.038	0 %100
23	M26	X	-.066	-.066	0 %100
24	M26	Z	.038	.038	0 %100
25	M27	X	-.446	-.446	0 %100
26	M27	Z	.258	.258	0 %100
27	M28	X	-.446	-.446	0 %100
28	M28	Z	.258	.258	0 %100
29	M29	X	-.189	-.189	0 %100
30	M29	Z	.109	.109	0 %100
31	MP4A	X	-.539	-.539	0 %100
32	MP4A	Z	.311	.311	0 %100
33	M30	X	-.362	-.362	0 %100
34	M30	Z	.209	.209	0 %100
35	MP3A	X	-.539	-.539	0 %100
36	MP3A	Z	.311	.311	0 %100
37	MP2A	X	-.539	-.539	0 %100
38	MP2A	Z	.311	.311	0 %100
39	MP1A	X	-.539	-.539	0 %100
40	MP1A	Z	.311	.311	0 %100
41	M35	X	-.169	-.169	0 %100
42	M35	Z	.097	.097	0 %100
43	M36	X	-.022	-.022	0 %100
44	M36	Z	.013	.013	0 %100
45	M37	X	-.849	-.849	0 %100
46	M37	Z	.49	.49	0 %100
47	M44	X	-.169	-.169	0 %100
48	M44	Z	.097	.097	0 %100
49	M45	X	-.022	-.022	0 %100
50	M45	Z	.013	.013	0 %100
51	M46	X	-.849	-.849	0 %100
52	M46	Z	.49	.49	0 %100
53	M45A	X	-.235	-.235	0 %100
54	M45A	Z	.136	.136	0 %100
55	M46A	X	-.947	-.947	0 %100
56	M46A	Z	.547	.547	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	%100
2	M1	Z	0	0	%100
3	M2	X	0	0	%100
4	M2	Z	0	0	%100
5	M7A	X	0	0	%100
6	M7A	Z	0	0	%100
7	M8	X	0	0	%100
8	M8	Z	0	0	%100
9	M13	X	-0.526	-0.526	%100
10	M13	Z	0	0	%100
11	M14	X	-0.526	-0.526	%100
12	M14	Z	0	0	%100
13	M15	X	-0.526	-0.526	%100
14	M15	Z	0	0	%100
15	M16	X	-0.526	-0.526	%100
16	M16	Z	0	0	%100
17	M19	X	-1.039	-1.039	%100
18	M19	Z	0	0	%100
19	M20	X	-1.039	-1.039	%100
20	M20	Z	0	0	%100
21	M25	X	-0.102	-0.102	%100
22	M25	Z	0	0	%100
23	M26	X	-0.102	-0.102	%100
24	M26	Z	0	0	%100
25	M27	X	-0.526	-0.526	%100
26	M27	Z	0	0	%100
27	M28	X	-0.526	-0.526	%100
28	M28	Z	0	0	%100
29	M29	X	-0.237	-0.237	%100
30	M29	Z	0	0	%100
31	MP4A	X	-0.644	-0.644	%100
32	MP4A	Z	0	0	%100
33	M30	X	-0.586	-0.586	%100
34	M30	Z	0	0	%100
35	MP3A	X	-0.644	-0.644	%100
36	MP3A	Z	0	0	%100
37	MP2A	X	-0.644	-0.644	%100
38	MP2A	Z	0	0	%100
39	MP1A	X	-0.644	-0.644	%100
40	MP1A	Z	0	0	%100
41	M35	X	0	0	%100
42	M35	Z	0	0	%100
43	M36	X	-0.441	-0.441	%100
44	M36	Z	0	0	%100
45	M37	X	-0.441	-0.441	%100
46	M37	Z	0	0	%100
47	M44	X	0	0	%100
48	M44	Z	0	0	%100
49	M45	X	-0.441	-0.441	%100
50	M45	Z	0	0	%100
51	M46	X	-0.441	-0.441	%100
52	M46	Z	0	0	%100
53	M45A	X	-0.714	-0.714	%100
54	M45A	Z	0	0	%100
55	M46A	X	-0.714	-0.714	%100
56	M46A	Z	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.293	-.293	0 %100
2	M1	Z	-.169	-.169	0 %100
3	M2	X	-.293	-.293	0 %100
4	M2	Z	-.169	-.169	0 %100
5	M7A	X	-.293	-.293	0 %100
6	M7A	Z	-.169	-.169	0 %100
7	M8	X	-.293	-.293	0 %100
8	M8	Z	-.169	-.169	0 %100
9	M13	X	-.446	-.446	0 %100
10	M13	Z	-.258	-.258	0 %100
11	M14	X	-.446	-.446	0 %100
12	M14	Z	-.258	-.258	0 %100
13	M15	X	-.446	-.446	0 %100
14	M15	Z	-.258	-.258	0 %100
15	M16	X	-.446	-.446	0 %100
16	M16	Z	-.258	-.258	0 %100
17	M19	X	-.675	-.675	0 %100
18	M19	Z	-.39	-.39	0 %100
19	M20	X	-.675	-.675	0 %100
20	M20	Z	-.39	-.39	0 %100
21	M25	X	-.066	-.066	0 %100
22	M25	Z	-.038	-.038	0 %100
23	M26	X	-.066	-.066	0 %100
24	M26	Z	-.038	-.038	0 %100
25	M27	X	-.446	-.446	0 %100
26	M27	Z	-.258	-.258	0 %100
27	M28	X	-.446	-.446	0 %100
28	M28	Z	-.258	-.258	0 %100
29	M29	X	-.189	-.189	0 %100
30	M29	Z	-.109	-.109	0 %100
31	MP4A	X	-.539	-.539	0 %100
32	MP4A	Z	-.311	-.311	0 %100
33	M30	X	-.399	-.399	0 %100
34	M30	Z	-.23	-.23	0 %100
35	MP3A	X	-.539	-.539	0 %100
36	MP3A	Z	-.311	-.311	0 %100
37	MP2A	X	-.539	-.539	0 %100
38	MP2A	Z	-.311	-.311	0 %100
39	MP1A	X	-.539	-.539	0 %100
40	MP1A	Z	-.311	-.311	0 %100
41	M35	X	-.169	-.169	0 %100
42	M35	Z	-.097	-.097	0 %100
43	M36	X	-.849	-.849	0 %100
44	M36	Z	-.49	-.49	0 %100
45	M37	X	-.022	-.022	0 %100
46	M37	Z	-.013	-.013	0 %100
47	M44	X	-.169	-.169	0 %100
48	M44	Z	-.097	-.097	0 %100
49	M45	X	-.849	-.849	0 %100
50	M45	Z	-.49	-.49	0 %100
51	M46	X	-.022	-.022	0 %100
52	M46	Z	-.013	-.013	0 %100
53	M45A	X	-.947	-.947	0 %100
54	M45A	Z	-.547	-.547	0 %100
55	M46A	X	-.235	-.235	0 %100
56	M46A	Z	-.136	-.136	0 %100



Company : Maser Consulting
 Designer : AE
 Job Number : Project No. 10019508
 Model Name : 467225-VZW_MT_LOT_SectorA_H

Apr 11, 2021
 3:18 PM
 Checked By: DX

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.508	-.508	0 %100
2	M1	Z	-.88	-.88	0 %100
3	M2	X	-.508	-.508	0 %100
4	M2	Z	-.88	-.88	0 %100
5	M7A	X	-.508	-.508	0 %100
6	M7A	Z	-.88	-.88	0 %100
7	M8	X	-.508	-.508	0 %100
8	M8	Z	-.88	-.88	0 %100
9	M13	X	-.246	-.246	0 %100
10	M13	Z	-.427	-.427	0 %100
11	M14	X	-.246	-.246	0 %100
12	M14	Z	-.427	-.427	0 %100
13	M15	X	-.246	-.246	0 %100
14	M15	Z	-.427	-.427	0 %100
15	M16	X	-.246	-.246	0 %100
16	M16	Z	-.427	-.427	0 %100
17	M19	X	-.13	-.13	0 %100
18	M19	Z	-.225	-.225	0 %100
19	M20	X	-.13	-.13	0 %100
20	M20	Z	-.225	-.225	0 %100
21	M25	X	-.013	-.013	0 %100
22	M25	Z	-.022	-.022	0 %100
23	M26	X	-.013	-.013	0 %100
24	M26	Z	-.022	-.022	0 %100
25	M27	X	-.246	-.246	0 %100
26	M27	Z	-.427	-.427	0 %100
27	M28	X	-.246	-.246	0 %100
28	M28	Z	-.427	-.427	0 %100
29	M29	X	-.09	-.09	0 %100
30	M29	Z	-.155	-.155	0 %100
31	MP4A	X	-.291	-.291	0 %100
32	MP4A	Z	-.503	-.503	0 %100
33	M30	X	-.084	-.084	0 %100
34	M30	Z	-.146	-.146	0 %100
35	MP3A	X	-.291	-.291	0 %100
36	MP3A	Z	-.503	-.503	0 %100
37	MP2A	X	-.291	-.291	0 %100
38	MP2A	Z	-.503	-.503	0 %100
39	MP1A	X	-.291	-.291	0 %100
40	MP1A	Z	-.503	-.503	0 %100
41	M35	X	-.292	-.292	0 %100
42	M35	Z	-.506	-.506	0 %100
43	M36	X	-.552	-.552	0 %100
44	M36	Z	-.956	-.956	0 %100
45	M37	X	-.075	-.075	0 %100
46	M37	Z	-.13	-.13	0 %100
47	M44	X	-.292	-.292	0 %100
48	M44	Z	-.506	-.506	0 %100
49	M45	X	-.552	-.552	0 %100
50	M45	Z	-.956	-.956	0 %100
51	M46	X	-.075	-.075	0 %100
52	M46	Z	-.13	-.13	0 %100
53	M45A	X	-.515	-.515	0 %100
54	M45A	Z	-.892	-.892	0 %100
55	M46A	X	-.104	-.104	0 %100
56	M46A	Z	-.18	-.18	0 %100



Member Area Loads

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

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

Member	Shape	Code Check	Loc[ft]	LC	Shear	CheckLoc.....	LC	phi*Pn...	phi*Pn...	phi*Mn...	phi*Mn.....	Eqn	
1	M35	PIPE_2.5	.601	2.798	17	.203	9.993	20	13902...	50715	3596.25	3596.25	1..H1-1b
2	M26	PL3/8x7...	.459	0	23	.005	1 z	24	45408...	73710	499.079	9438.8...	1 H1-1b
3	M1	L3X3X3	.452	2.065	24	.608	6.396 z	43	14314...	35316	1320.0...	2489.8...	1..H2-1
4	M25	PL3/8x7...	.451	0	23	.005	1 z	24	45408...	73710	499.079	9438.8...	1 H1-1b
5	M16	PIPE_2.0	.435	1	11	.095	0	5	28843...	32130	1871.6...	1871.6...	1..H1-1b
6	M2	L3X3X3	.354	5.929	23	.187	5.929 z	5	14314...	35316	1320.0...	2632.0...	2..H2-1
7	MP2A	PIPE_2.0	.349	5.125	18	.251	4.438	20	20866...	32130	1871.6...	1871.6...	4..H1-1b
8	M45A	L2.5x2.5x4	.326	2.585	23	.010	5.772 y	23	13019...	38556	1113.5...	2165.7...	1..H2-1
9	MP1A	PIPE_2.0	.318	5.125	23	.302	5.125	12	20866...	32130	1871.6...	1871.6...	4..H1-1b
10	M46A	L2.5x2.5x4	.303	3.126	16	.012	0 y	23	13020...	38556	1113.5...	2165.8...	1..H2-1
11	M13	PIPE_2.0	.300	0	26	.073	0	17	28843...	32130	1871.6...	1871.6...	2..H1-1b
12	M7A	L3X3X3	.292	1.066	26	.293	.333 y	35	14314...	35316	1320.0...	2574.2...	1..H2-1
13	MP3A	PIPE_2.0	.281	5.125	26	.245	4.438	21	20866...	32130	1871.6...	1871.6...	4..H1-1b
14	M8	L3X3X3	.180	5.929	12	.128	5.929 z	23	14314...	35316	1320.0...	2833.4...	3..H2-1
15	M46	L2.5x2.5x4	.163	0	12	.013	0 v	18	10578...	38556	1113.5...	2158.9...	1..H2-1
16	M20	L3X3X6	.154	2.435	19	.019	.315 z	22	57685...	68364	2307.3...	5322.3...	2..H2-1
17	M37	L2.5x2.5x4	.142	3.335	18	.021	0 y	24	10578...	38556	1113.5...	2109.9...	1..H2-1
18	M36	L2.5x2.5x4	.142	3.068	20	.016	6.403 y	24	10578...	38556	1113.5...	2110.0...	1..H2-1
19	M19	L3X3X6	.138	2.435	18	.019	.315 z	16	57685...	68364	2307.3...	5322.3...	2..H2-1
20	MP4A	PIPE_2.0	.128	.779	33	.074	4.372	17	21614...	32130	1871.6...	1871.6...	3..H1-1b
21	M45	L2.5x2.5x4	.123	6.403	1	.014	6.403 y	18	10578...	38556	1113.5...	2479.4...	2..H2-1
22	M44	PIPE_2.5	.118	10.66	24	.098	1.332	6	13902...	50715	3596.25	3596.25	2..H1-1b
23	M27	PIPE_2.0	.079	0	15	.047	0	36	28843...	32130	1871.6...	1871.6...	1..H1-1b
24	M14	PIPE_2.0	.070	0	47	.070	3	35	28843...	32130	1871.6...	1871.6...	2..H1-1b
25	M29	SR_0.875	.053	1.826	24	.005	0	15	6905.8...	19482...	284.124	284.124	1..H1-1b
26	M30	PIPE_2.0	.046	0	5	.003	0	22	26512...	32130	1871.6...	1871.6...	1..H1-1b*
27	M15	PIPE_2.0	.041	0	12	.052	0	35	28843...	32130	1871.6...	1871.6...	2..H1-1b
28	M28	PIPE_2.0	.012	3	15	.038	3	35	28843...	32130	1871.6...	1871.6...	1..H1-1b

Envelope Joint Reactions

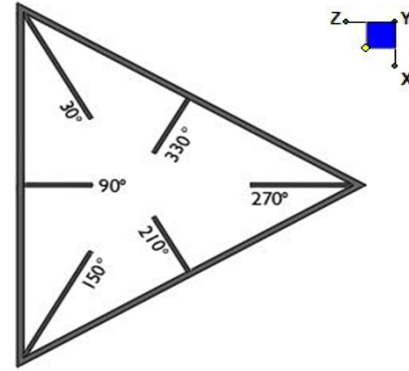
Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	N34	max	39.718	34	249.453	19	459.001	1	0	51	0	51
2		min	-43.151	4	76.627	2	-700.266	7	0	1	0	1
3	N33	max	26.766	10	277.783	19	57.474	1	0	51	0	51
4		min	-39.138	28	80.406	2	-1738.555	19	0	1	0	1
5	N51	max	65.854	11	28.766	23	1212.504	5	0	51	0	51
6		min	-60.083	5	4.494	5	-1214.288	11	0	1	0	1
7	N67	max	1311.671	35	122.503	18	344.873	12	0	51	0	51
8		min	-1080.75	5	30.749	12	-3284.885	18	0	1	0	1
9	N84	max	592.674	9	105.056	18	1112.549	12	0	51	0	51
10		min	-688.521	3	28.812	12	-991.58	6	0	1	0	1
11	N88A	max	240.535	6	2701.656	13	4711.147	13	0	51	0	51
12		min	-1443.55	36	884.076	8	1479.38	7	0	1	0	1
13	Totals:	max	1625.501	11	3463.952	20	2812.78	1				
14		min	-1625.5	5	1134.67	2	-2812.774	7				



I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N33	90
N34	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):

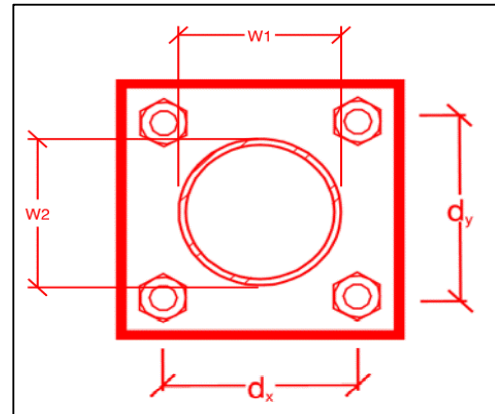
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

no
2
A307
0.75
1.7
0.3
14.4
8.6
6.0%*
1.6%



*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 _____

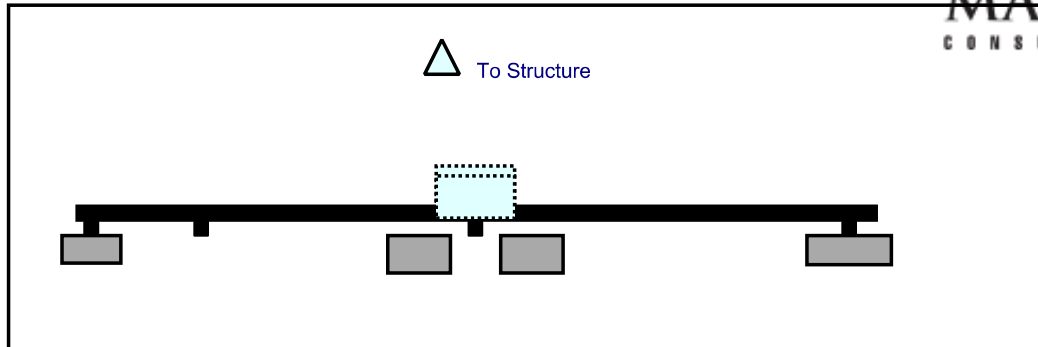
Signature _____

Schedule A – Photo & Document File Structure

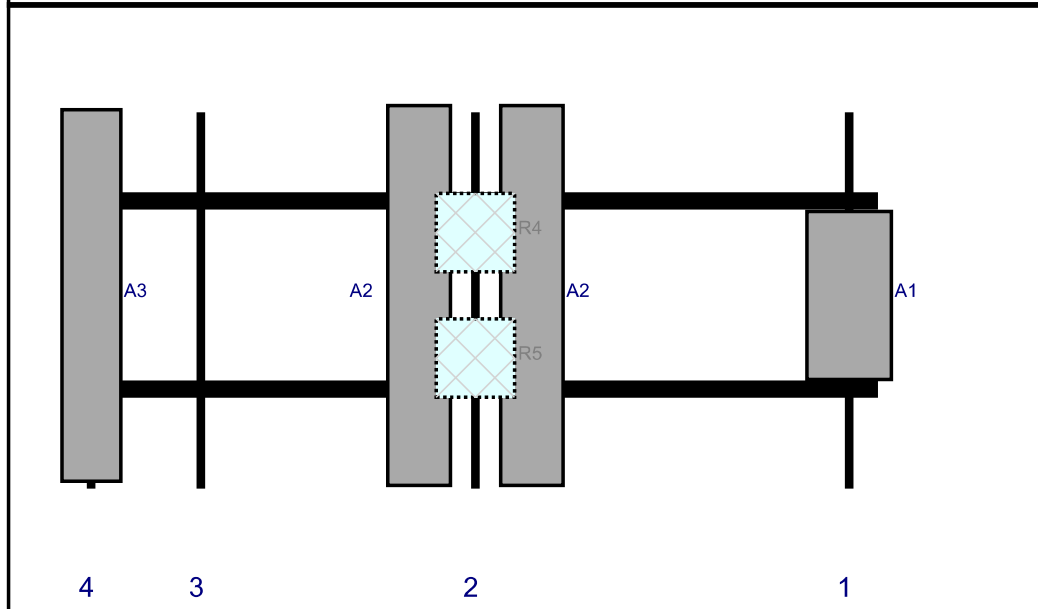
-  VzW Site Number / Name
 -  Base & “During Installation” Photos
 -  Pre-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Post-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Photos of climbing facility and safety climb – If Present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



Plan View



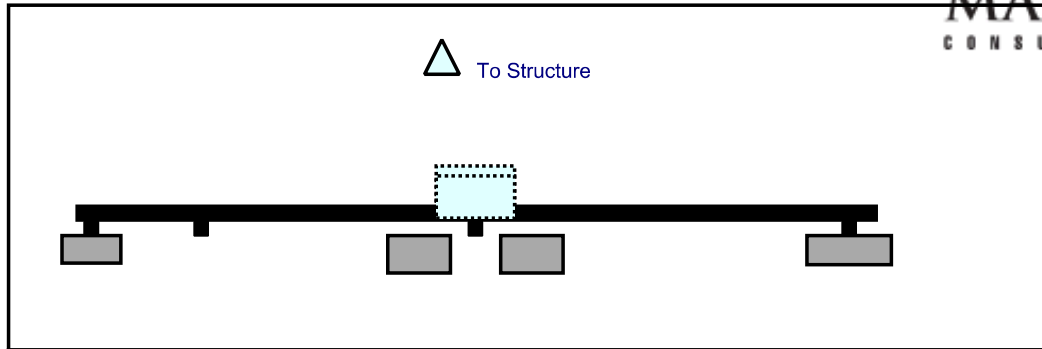
Front View
Looking at Structure



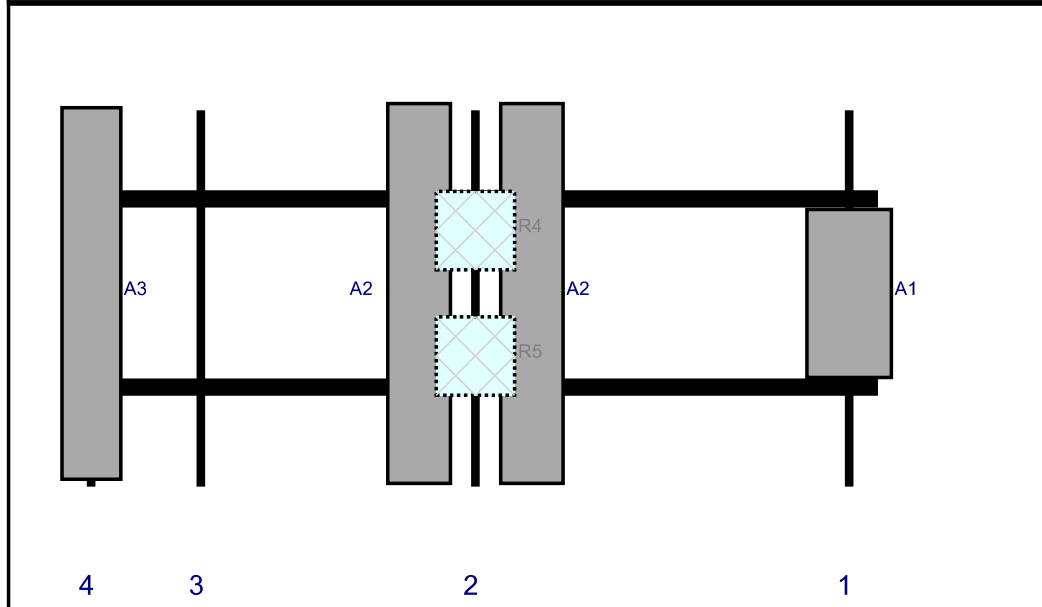
Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	MT6407-77A	32.1	16.1	148	1	a	Front	35.04	0	Added	
A2	SBNHH-1D65B	72.6	11.9	76.5	2	a	Front	35.04	10.8	Retained	11/09/2020
A2	SBNHH-1D65B	72.6	11.9	76.5	2	b	Front	35.04	-10.8	Retained	11/09/2020
R4	B2/B66A RRH-BR049	15	15	76.5	2	a	Behind	23.04	0	Added	
R5	B5/B13 RRH-BR04C	15	15	76.5	2	a	Behind	47.04	0	Added	
A3	BXA-70063-6CF-5	71	11.2	3	4	a	Front	35.04	0	Retained	11/09/2020



Plan View



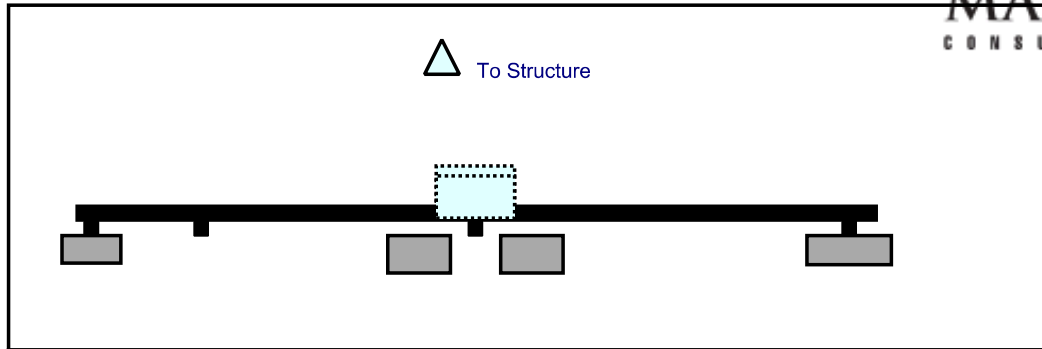
Front View
 Looking at Structure



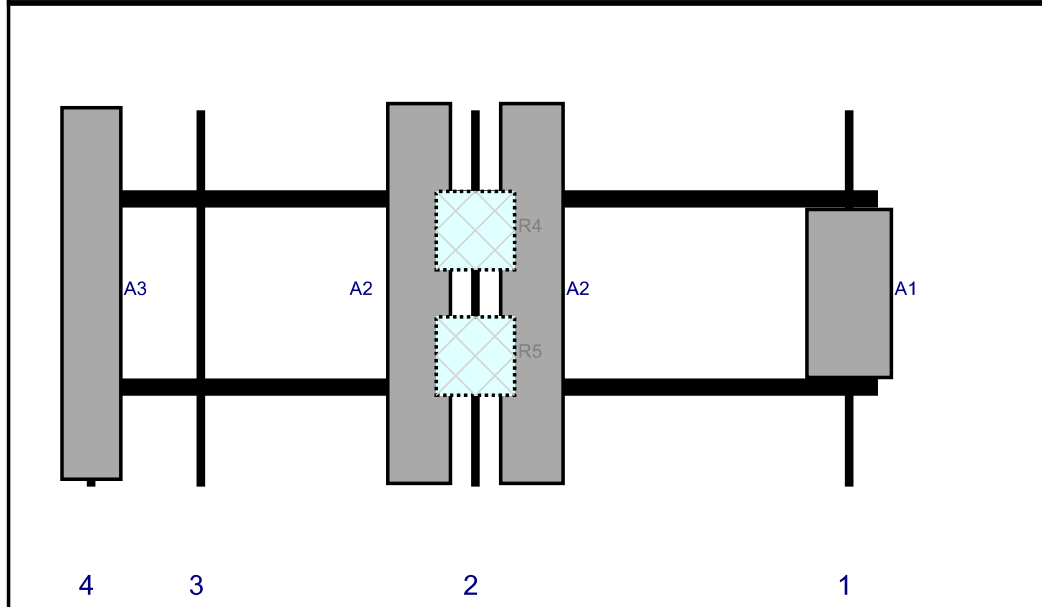
Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	MT6407-77A	32.1	16.1	148	1	a	Front	35.04	0	Added	
A2	SBNHH-1D65B	72.6	11.9	76.5	2	a	Front	35.04	10.8	Retained	11/09/2020
A2	SBNHH-1D65B	72.6	11.9	76.5	2	b	Front	35.04	-10.8	Retained	11/09/2020
R4	B2/B66A RRH-BR049	15	15	76.5	2	a	Behind	23.04	0	Added	
R5	B5/B13 RRH-BR04C	15	15	76.5	2	a	Behind	47.04	0	Added	
A3	BXA-70063-6CF-5	71	11.2	3	4	a	Front	35.04	0	Retained	11/09/2020



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
A1	MT6407-77A	32.1	16.1	148	1	a	Front	35.04	0	Added	
A2	SBNHH-1D65B	72.6	11.9	76.5	2	a	Front	35.04	10.8	Retained	11/09/2020
A2	SBNHH-1D65B	72.6	11.9	76.5	2	b	Front	35.04	-10.8	Retained	11/09/2020
R4	B2/B66A RRH-BR049	15	15	76.5	2	a	Behind	23.04	0	Added	
R5	B5/B13 RRH-BR04C	15	15	76.5	2	a	Behind	47.04	0	Added	
A3	BXA-70063-6CF-5	71	11.2	3	4	a	Front	35.04	0	Retained	11/09/2020

<u>Subject</u>	TIA-222-Usage Letter
<u>Site Information</u>	Site ID: 467225-VZW / Windsor Locks NE CT Site Name: Windsor Locks NE CT Carrier Name: Verizon Wireless Address: 4 Volunteer Road Windsor Locks, Connecticut 06096 Hartford County Latitude: 41.928106° Longitude: -72.646772°
<u>Structure Information</u>	Tower Type: Self-Support Mount Type: (3) 12.79-Ft T-Frames

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 map 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 method, seismic analysis, 30-degree increment wind direction 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,

Taqi Khawaja, PE
Technical Manager

PROJECT NOTES

- SEE MODIFICATION NOTES
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, TOWN, COUNTY AND STATE 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 ANY WORK. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL BE REPAIRED 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 OF ANY DISCREPANCIES PRIOR TO 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 RE EXPOSURE 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).

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 WHOM THE WORK WAS CONTRACTED OR TO WHOM IT IS CERTIFIED. THIS DRAWING MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT PERMISSION, FOR ANY OTHER PURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT OF MASER CONSULTING CONNECTICUT.



MOUNT MODIFICATION DRAWINGS EXISTING 12.79' T-FRAME

**SITE NAME: WINDSOR LOCKS NE CT
SITE NUMBER: 467225**

**4 VOLUNTEER ROAD
WINDSOR LOCKS, CT 06096
HARTFORD COUNTY**

MASER CONSULTING
CONNECTICUT
100 W. MAIN STREET
MIDDLETOWN, CT 06457
Customer Loyalty Through Client Satisfaction
www.maser.com | Tel: 860-336-6000

- NEW JERSEY
- NEW MEXICO
- FLORIDA
- MISSISSIPPI
- GEORGIA
- ALABAMA
- LOUISIANA
- MISSOURI
- KENTUCKY
- INDIANA
- OHIO
- PENNSYLVANIA
- DELAWARE
- MARYLAND
- VIRGINIA
- TENNESSEE
- KANSAS
- NEBRASKA
- MINNESOTA
- WISCONSIN
- ILLINOIS
- MISSOURI
- COLORADO

© 2021 Maser Consulting, Inc. All rights reserved. Maser Consulting, Inc. is a registered trademark of Maser Consulting, Inc. All other trademarks are the property of their respective owners. This document is the property of Maser Consulting, Inc. and is not to be distributed, copied, or used in any way without the written consent of Maser Consulting, Inc.



PROTECT YOURSELF
ALL STATES REQUIRE AN OPERATING LICENSE TO CONDUCT BUSINESS AS A CONTRACTOR. OBTAIN YOUR LICENSE TODAY!
811
Call before you dig.
FOR STATE LICENSES, VISIT: www.811.com

DATE	AS SHOWN	BY	DATE	DESCRIPTION
2020/11/17				

Digitally signed by Taci Kikvidze-Gruhin
DN: cn=Taci Kikvidze-Gruhin, o=Maser Consulting, ou=Maser Consulting, email=taci.kikvidze@maser.com, c=US

DATE: 2020/11/17 10:58:00 AM EST
Maser Consulting

SITE NAME:
WINDSOR LOCKS NE CT
467225
4 VOLUNTEER ROAD
WINDSOR LOCKS, CT 06096
HARTFORD COUNTY

MASER CONSULTING
CONNECTICUT
100 W. MAIN STREET
MIDDLETOWN, CT 06457
Tel: 860-336-6000
Fax: 860-336-1100

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

SITE INFORMATION
LATITUDE: 41.891845° N
LONGITUDE: 71.649772° W
JURISDICTION: HARTFORD COUNTY

APPLICANT/LESEE
COMPANY: VERIZON WIRELESS

CLIENT REPRESENTATIVE
COMPANY: VERIZON WIRELESS
ADDRESS: 1000 WESTBOROUGH MA 01581
CITY, STATE, ZIP: WESTBOROUGH MA 01581
CONTACT: ANDREW CANDELLO
EMAIL: ANDREW.CANDELLO@VERIZONWIRELESS.COM

PROJECT MANAGER
COMPANY: MASER CONSULTING CONNECTICUT
CONTACT: GREG DULNIK
PHONE: (615) 486-3375
EMAIL: GREG.DULNIK@COLLIERSENGINEERING.COM

CONTRACTOR PMI REQUIREMENTS
FILING MOUNT ANALYSIS REPORT SMART TOOL PROJECT #: 10019308 MASER CONSULTING PROJECT #: 2077395A ANALYSIS DATE: 11/24/2020

PHI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT
PMI LOCATION: HTTPS://PMI.VZWSMART.COM SMART TOOL PROJECT #: 10019308 VZW LOCATION CODE (PLC): 467225 FUZE ID: 16541129

BILL OF MATERIALS

VZWSMART KITS		NOTES
QUANTITY	MANUFACTURER	DESCRIPTION
24	VZWSMART-HKI	CROSSOVER PLATE
9	VZWSMART-SFK3	V-BRACING KIT
VZWSMART		CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET 19-L.
OTHER REQUIRED PARTS		NOTES
QUANTITY	MANUFACTURER	DESCRIPTION
6	-	156" 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

COMMSCOPE	
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT BAMEY
PHONE	(766) 335-7645 (O), (766) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(841) 887-6723
EMAIL	WWW.PERFECTVISION.COM
WEBSITE	WIRELESS@PERFECTVISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESOLUTIONS.COM
SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

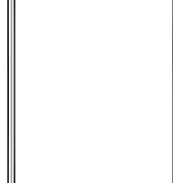
NOTE: WHEN SPECIFIED, VZWSMART KITS SHALL BE REQUIRED AND WILL BE VERIFIED DURING THE DESKTOP PMI



MABER CONSULTING
 1000 WEST 10TH AVENUE
 SUITE 100
 DENVER, CO 80202
 WWW.MC.COM
 CUSTOMER LOYALTY THROUGH CLIENT SATISFACTION

- NEW JERSEY
- NEW MEXICO
- ARIZONA
- CALIFORNIA
- TEXAS
- FLORIDA
- NORTH CAROLINA
- SOUTH CAROLINA
- ALABAMA
- MISSISSIPPI
- MISSOURI
- ILLINOIS
- INDIANA
- OHIO
- PENNSYLVANIA
- GEORGIA
- TENNESSEE
- COLORADO

© 2008 MABER CONSULTING
 ALL RIGHTS RESERVED. THIS DOCUMENT IS THE PROPERTY OF MABER CONSULTING. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED IN THE PROJECT TITLE. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF MABER CONSULTING.



PROTECT YOURSELF
 ALL STATES REQUIRE AN 811 CALL BEFORE YOU DIG.
 CALL 811 BEFORE YOU DIG.
 VISIT 811.CALLBEFOREYOU.DIG

REV	DATE	DESCRIPTION	BY	CHKD



Originally signed by Todd K. Kibben
 Todd K. Kibben - Engineer
 State of Colorado
 License No. 14004
 MABER CONSULTING

THIS DRAWING IS VALID FOR ANY PERSON UNLESS THE FABRICATING UNDER THE DIRECTION OF ANOTHER PERSON IS SPECIFICALLY INDICATED BY A NOTE ON THIS DOCUMENT.

SITE NAME:
WINDSOR LOCKS NE CT
 467225
 41 VOLUNTEER ROAD
 WINDSOR LOCKS, CT 06096
 HARTFORD COUNTY



BILL OF MATERIALS

SHEET NO: S-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

GENERAL NOTES

- 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.
- 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 SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK. ORDERING MATERIAL AND PREPARING OF SHOP DRAWINGS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR'S SHOP DRAWINGS 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.
- IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
- ALL CONSTRUCTION MEANS AND METHODS, INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCLE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSITIA-332 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSITIA-332 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
- 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 MEANS AS NECESSARY TO MAINTAIN ALL EXISTING STRUCTURES STANDING AND BEING ERECTED TO REMAIN FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
- 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, ANSITIA-332.
- CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOPRAC, GRADING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
- CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS 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.
- DO NOT SCALE DRAWINGS.
- ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ALL MATERIALS TO BE UTILIZED FOR THIS PROJECT MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
- THE POINT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

DESIGN LOADS

- WIND LOADS
- BASIC WIND SPEED (3 SECOND GUST), $V = 116$ MPH
 - EXPOSURE CATEGORY C
 - TOPOGRAPHIC CATEGORY 1
 - MEAN BASE ELEVATION (AMS), $= 106.87$
- ICE LOADS
- ICE WIND SPEED (3 SECOND GUST), $V = 50$ MPH
 - ICE THICKNESS = 1.50 IN
- SEISMIC LOADS
- SEISMIC DESIGN CATEGORY B
 - SHORT TERM MCR GROUND MOTION, $S_s = .175$
 - LONG TERM MCR GROUND MOTION, $S_1 = .055$

STRUCTURAL STEEL

- DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
 - SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
 - AISC CODE OF STANDARD PRACTICE
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:
 - CHANNELS, ANGLES, PLATES, ETC. ASTM A99 (GR 36)
 - STEEL PIPE ASTM A57 (GR 35)
 - BOLTS ASTM A325
 - WASHERS LOCKING STRUCTURAL GRADE
 - LOCK WASHERS
- ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPAIRS, SHALL BE NOTED IN SHOP DRAWINGS. COSTS ASSOCIATED WITH THE SUBSTITUTIONS SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SUBCONTRACTORS SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
- PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 - SUBMIT SHOP DRAWINGS TO GREGDUNN@COLLIERENGINEERING.COM
 - PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
- 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.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL NEW STEEL SHALL BE HOT DIPPED 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.
- ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
- 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.
- FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND TYPE. MEET ALL AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT IT ENDS ON THE BEARING SURFACE OF THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL NEW STEEL SHALL BE HOT DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO

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

MASER CONSULTING
 ENGINEERING ARCHITECTURE INTERIORS
 1100 W. 11th Street, Suite 100
 Oklahoma City, Oklahoma 73101
 Phone: 405.233.1100
 Fax: 405.233.1101

NEW JERSEY
 NEW MEXICO
 NORTH CAROLINA
 PENNSYLVANIA
 TEXAS
 VIRGINIA
 WISCONSIN



PROTECT YOURSELF
 ALL STATE REQUIREMENTS FOR THE PROTECTION OF THE PUBLIC SHALL BE MET.
 CALL US TODAY FOR MORE INFORMATION.
 811
 FOR STATE REQUIREMENTS, VISIT WWW.811.CC

REV	DATE	DESCRIPTION	BY	CHK
0 <td>01/15/2020 <td>ISSUED FOR PERMIT <td>MD <td>SK</td> </td></td></td>	01/15/2020 <td>ISSUED FOR PERMIT <td>MD <td>SK</td> </td></td>	ISSUED FOR PERMIT <td>MD <td>SK</td> </td>	MD <td>SK</td>	SK
1 <td>01/15/2020 <td>ISSUED FOR PERMIT <td>MD <td>SK</td> </td></td></td>	01/15/2020 <td>ISSUED FOR PERMIT <td>MD <td>SK</td> </td></td>	ISSUED FOR PERMIT <td>MD <td>SK</td> </td>	MD <td>SK</td>	SK
2 <td>01/15/2020 <td>ISSUED FOR PERMIT <td>MD <td>SK</td> </td></td></td>	01/15/2020 <td>ISSUED FOR PERMIT <td>MD <td>SK</td> </td></td>	ISSUED FOR PERMIT <td>MD <td>SK</td> </td>	MD <td>SK</td>	SK

Digitally signed by Tadi K. Kuvshinov
 DN: cn=Tadi K. Kuvshinov, o=Maser Consulting, email=tadi.kuvshinov@maserconsulting.com, c=US

DATE: 2020 JAN 15 10:04:46 -0500
 Maser Consulting

WINDSOR LOCKS NE CT
 467225
 41 VOLUNTEER ROAD
 WINDSOR LOCKS, CT 06096
 HARTFORD COUNTY

MASER CONSULTING
 1100 W. 11th Street, Suite 100
 Oklahoma City, Oklahoma 73101
 Phone: 405.233.1100
 Fax: 405.233.1101

MODIFICATION NOTES

SHEET: S-2

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

MODIFICATION INSPECTION NOTES

MI CHECKLIST	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING (COMPLETED BY EOR)	REPORT ITEM
X	PRE-CONSTRUCTION
X	MI CHECKLIST DRAWING
X	FOR 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 DRAWINGS)
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 ORIGINAL DRAWINGS AND AS SHOWN IN THE 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 SHALL TAKE A REVIEW OF THE MODIFICATION DESIGN PRIOR TO CONDUCTING THE MI. THE MI INSPECTOR SHALL BE RESPONSIBLE FOR VERIFYING 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) AND THE MI INSPECTOR COORDINATE AND COMMUNICATE 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 EFFICIENCY 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.
- WHEN POSSIBLE, THE MI INSPECTOR SHOULD 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 RETENSIONING OPERATIONS.
- IT MAY BE BENEFICIAL TO INSTALL ALL MODIFICATIONS PRIOR TO CONDUCTING THE MI TO AVOID THE NEED FOR A LOW THE FOUNDATION AND MI INSPECTIONS TO COMMENCE WITH ON-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 REMEDIATION PLAN:

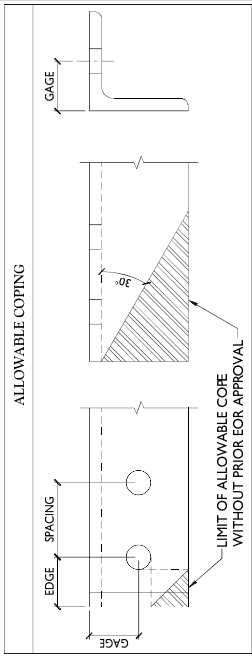
- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.

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:

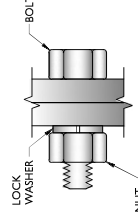
- PRE-CONSTRUCTION GENERAL SITE CONDITION PHOTOGRAPHS
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION
- RAW MATERIALS
- PHOTOS OF ALL CRITICAL DETAILS
- FOUNDATION MODIFICATIONS
- FOUNDATION MODIFICATION
- BOLT INSTALLATION
- FINAL INSTALLED CONDITION
- SURFACE COATING REPAIR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

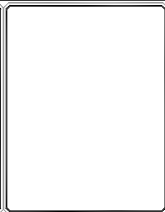
NOTES:

- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AS A MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY DIMENSIONS OF PROPOSED MEMBERS AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
- THE DIMENSIONS PROVIDED ARE MINIMUMS. CONTRACTOR SHALL VERIFY DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AS-BUILT 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.

MAKER CONSULTING GROUP, INC.
 1000 W. 10th Street, Suite 100
 Waco, TX 76798
 Customer Loyalty Through Client Satisfaction
 Waco, TX • 76798 • Phone: 817-771-1111 • Fax: 817-771-1112
 E-MAIL: info@makerconsulting.com

NEW JERSEY
 NEW YORK
 NORTH CAROLINA
 NORTH DAKOTA
 PENNSYLVANIA
 TEXAS
 VIRGINIA
 WISCONSIN

NEW MEXICO
 ARIZONA
 CALIFORNIA
 GEORGIA
 ILLINOIS
 INDIANA
 IOWA
 KANSAS
 MISSOURI
 OHIO
 OKLAHOMA
 SOUTH CAROLINA
 TENNESSEE
 COLORADO



PROTECT YOURSELF
 ALL STATES REQUIRE AN 811 CALL BEFORE ANY EXCAVATION
 BEFORE ANY EXCAVATION
 CALL 811 BEFORE YOU DIG
 FOR STATE BY STATE INFORMATION VISIT: WWW.811.CC

DATE	AS SHOWN	EXEMPTED	2027725A
REP.	DATE	DESCRIPTION	BY
0	1/1/2018	ISSUANCE	PHD
0	1/1/2018	ISSUANCE	PHD
0	1/1/2018	ISSUANCE	PHD



Originally signed by Teal
 Paul Kravits - State of Texas
 No. 14609 - Exp. 08/31/2019
 2018-2019
 4400 W. 10th Street, Suite 100
 Waco, TX 76798
 Phone: 817-771-1111
 Fax: 817-771-1112

IF THE SIGNATURE OF ANY PERSON UNLESS THE SIGNATURE UNDER THE DIRECTION OF THE REGISTERED PROFESSIONAL ENGINEER, DOES NOT APPEAR ON THIS DOCUMENT, IT IS VOID.

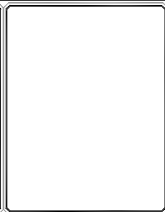
SITE NAME:
WINDSOR LOCKS NE CT
 467225
 41 VOLUNTEER ROAD
 WINDSOR LOCKS, CT 06096
 HARTFORD COUNTY



MODIFICATION NOTES

HEET TITLE:
S-3

MAIER CONSULTING GROUP, INC.
 1000 WEST 17TH AVENUE, SUITE 300
 DENVER, COLORADO 80202
 WWW.MCGROUP.COM
 Customer Loyalty Through Client Satisfaction
 NEW JERSEY ■ NEW MEXICO
 PENNSYLVANIA ■ TEXAS
 GEORGIA ■ VIRGINIA
 FLORIDA ■ NORTH CAROLINA
 MISSISSIPPI ■ TENNESSEE
 COLORADO



PROTECT YOURSELF
 ALL STATES REQUIRE AN OVERSIGHTOR
 TO SEAL AND SIGN ALL WORK. MAIER
 CONSULTING GROUP, INC. IS AN
 EQUAL OPPORTUNITY EMPLOYER.
 Call below for more information.
 MAIER CONSULTING GROUP, INC.
 1000 WEST 17TH AVENUE, SUITE 300
 DENVER, CO 80202

REV	DATE	DESCRIPTION	BY	CHK
0	10/20/2016	ISSUED FOR PERMIT	CHAD K. WILLIAMS	CHAD K. WILLIAMS

Digitally signed by Teal Williams
 DN: cn=Teal Williams, o=Maier Consulting, ou=Maier Consulting, email=teal@maierconsulting.com, c=US

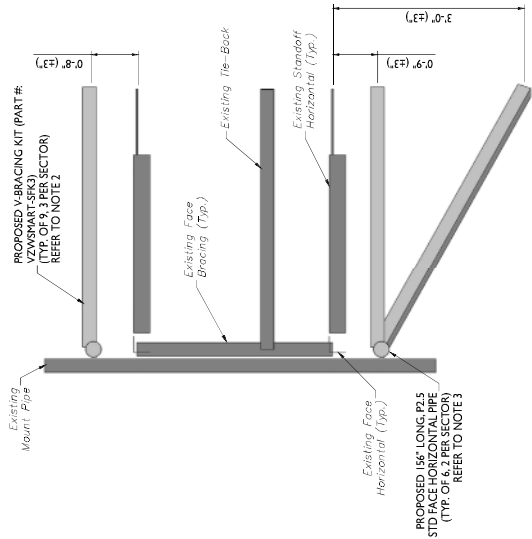
SITE NAME:
 WINDSOR LOCKS NE CT
 467225
 41 VOLUNTEER ROAD
 WINDSOR LOCKS, CT 06096
 HARTFORD COUNTY

MODIFICATION DETAILS

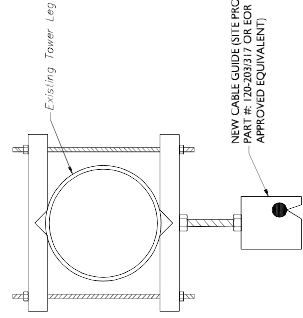
DATE: 2016-10-20
 TIME: 10:00 AM
 PROJECT: WINDSOR LOCKS NE CT
 SHEET: 04-049-00

MODIFICATION DETAILS

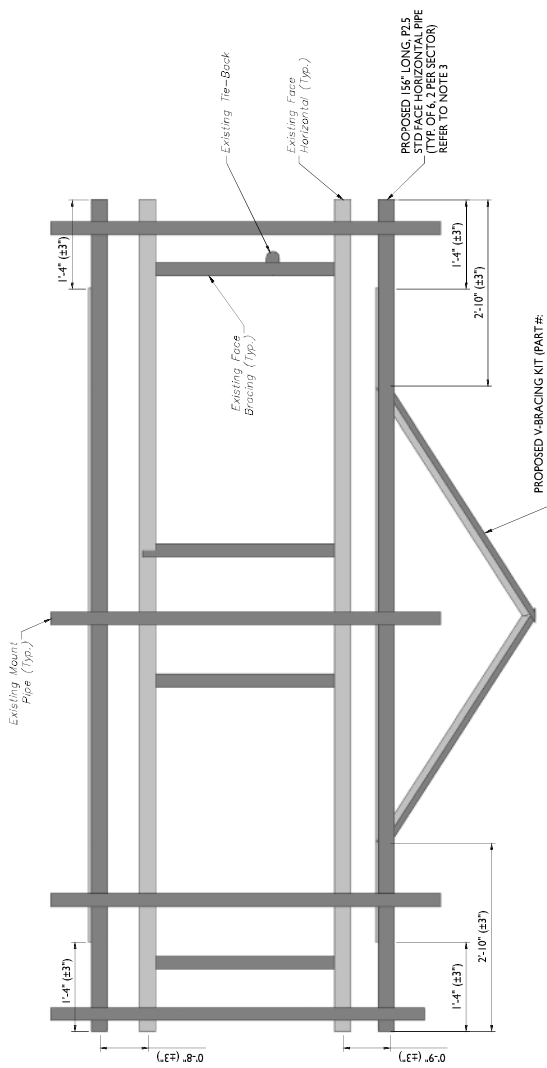
DATE: 2016-10-20
 TIME: 10:00 AM
 PROJECT: WINDSOR LOCKS NE CT
 SHEET: 04-049-00



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. RADIO AND/OR THE POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
 4. CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).

MAIER CONSULTING GROUP, INC.
 1000 WEST 100th Street
 Suite 100
 Westland, MI 48090
 Customer Loyalty Through Client Satisfaction
 www.mcg.com
 C O R P .

NEW JERSEY
 NEW MEXICO
 NORTH CAROLINA
 NORTH DAKOTA
 PENNSYLVANIA
 TEXAS
 VIRGINIA
 WISCONSIN
 FLORIDA
 GEORGIA
 ILLINOIS
 INDIANA
 KANSAS
 MISSISSIPPI
 MISSOURI
 OHIO
 OKLAHOMA
 SOUTH CAROLINA
 TENNESSEE
 UTAH
 WYOMING
 COLOrado



PROTECT YOURSELF
 ALL STATE REGULATORY AGENCIES
 REQUIRE A STATE LICENSE TO
 CONTRACT WITH THE STATE.
 Call 800-891-0000
 For State License Information

REV	DATE	DESCRIPTION	BY	CHK
0	10/08/10	ISSUED FOR CONSTRUCTION	MM	



Digitally signed by Taci K. Kwasnik-Grubis
 DN: cn=Taci K. Kwasnik-Grubis, o=Maier Consulting, email=t.kwasnik@maierconsulting.com, c=US

THIS DRAWING IS VALID FOR ANY PERSON
 UNLESS THEY ARE ACTING UNDER THE DIRECTION
 OF AN ENGINEER OR ARCHITECT. THIS DOCUMENT IS
 VALID FOR THE STATE OF MICHIGAN.

SITE NAME:
 WINDSOR LOCKS NE CT
 467225
 41 VOLUNTEER ROAD
 WINDSOR LOCKS, CT 06096
 HARTFORD COUNTY



SHEET TITLE:
 MOUNT PHOTOS

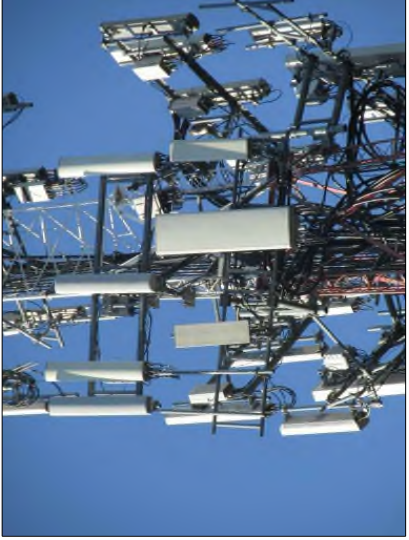
SHEET NUMBER:
 S-6



MOUNT PHOTO 2



MOUNT PHOTO 4

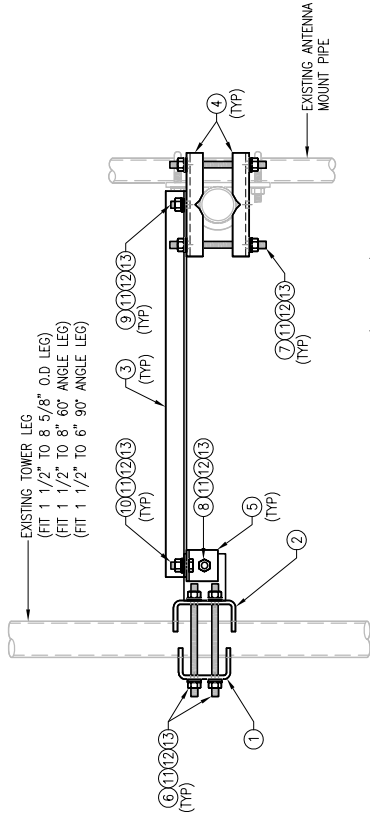


MOUNT PHOTO 1

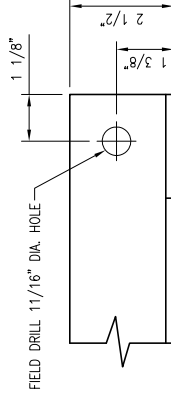


MOUNT PHOTO 3

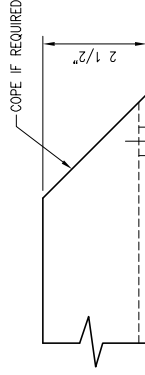
DRAWN BY: H.R.	CHECKED BY: HMA
REV.	DATE
DESCRIPTION	H.R. 05/09/20
BY	
DATE	
FIRST ISSUE	
SHEET TITLE:	
VZWSMART-SFK3 V-BRACING KIT	
SHEET NUMBER:	REV #:
VZWSMART-SFK3	0



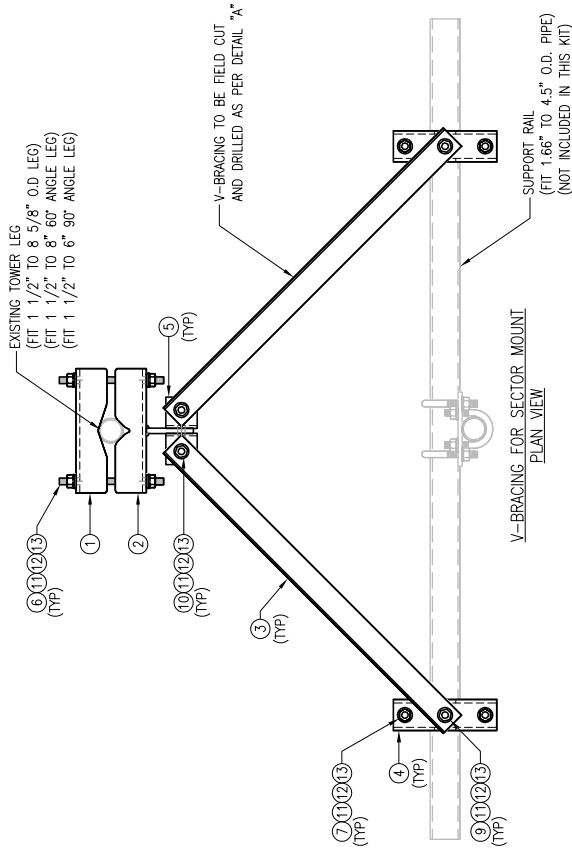
V-BRACING KIT - HORIZONTAL (OPTION-1)
 SIDE VIEW



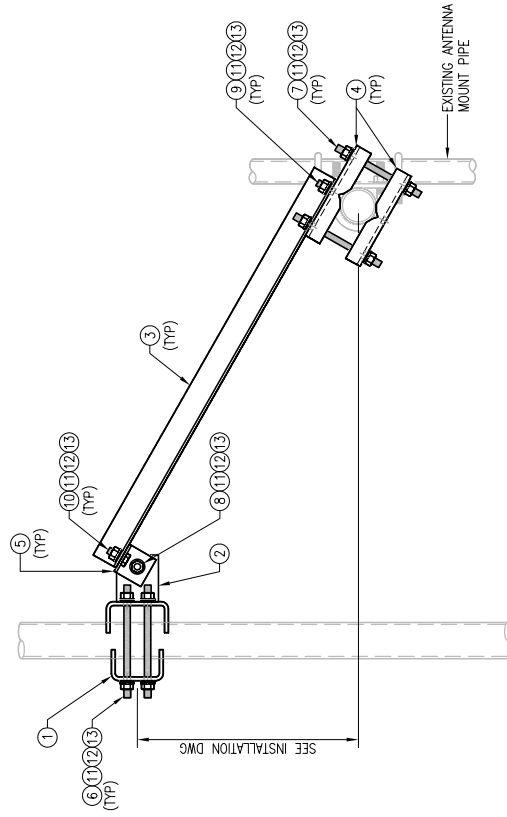
PLAN VIEW



FRONT VIEW
 DETAIL "A"



V-BRACING FOR SECTOR MOUNT
 PLAN VIEW



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

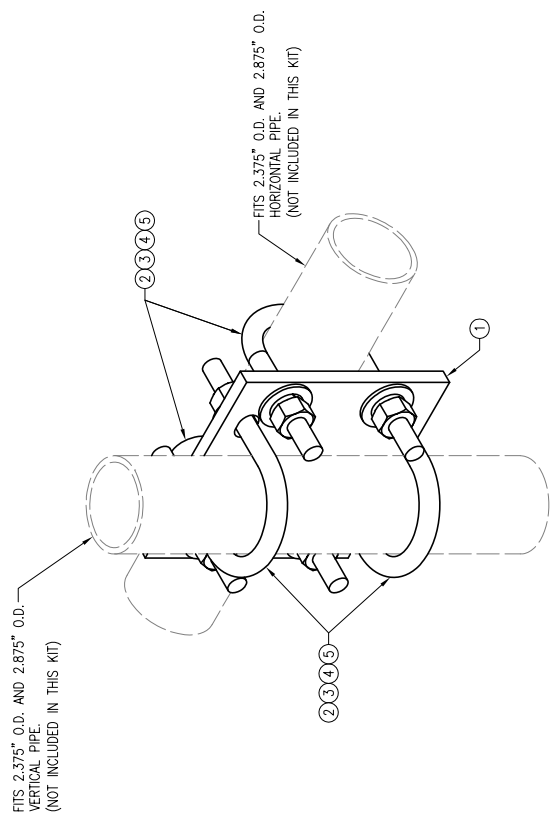
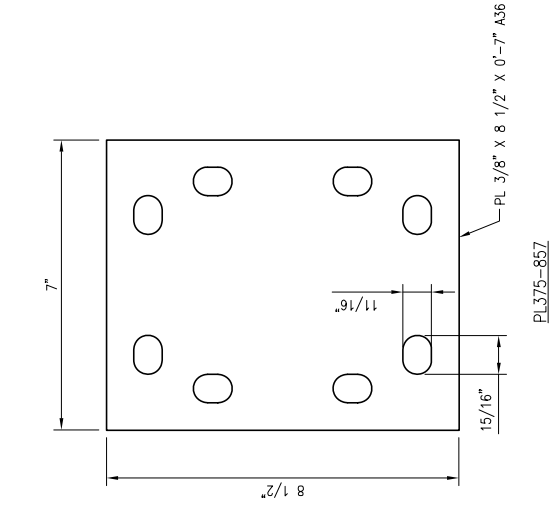
VZWSMART-SFK3 (V-BRACING KIT)

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	---	3
6	4	---	THREADED ROD 5/8" DIA. X 1'-6" F1554-36 HDG	---	---
7	4	---	BOLT 5/8" X 2 1/4" A325	---	---
8	1	---	BOLT 5/8" X 2" A325	---	---
9	2	---	BOLT 5/8" X 1 3/4" A325	---	---
10	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.

DRWN BY: H.R.	CHECKED BY: HMA
REV	DESCRIPTION
BY	DATE
Δ	FIRST ISSUE
Δ	H.R. 05/09/20
Δ	
Δ	
Δ	
Δ	
Δ	

SHEET TITLE:	VZWSMART-MSK1 CROSSOVER PLATE
SHEET NUMBER:	REV #: 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	MS92-625-300-500	RU-BOLT 5/8" X 3" LW. X 5" LL. 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	NUIT-625	5/8" HDG HEX NUT	---	1
				GALVANIZED	WT 14

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

ATTACHMENT 5

Property Detail:

Parcel ID:	Alternate ID/Map Block Lot:	Card:	Card:	Street Name:	Street Number:	Zoning:	LUC:	Acres:
00023300	034-062-080-0004	1	1	VOLUNTEER DRIVE	4	RESA	Municipal Indus	11.20

Owner Information:

Owner 1 Name:	WINDSOR LOCKS TOWN OF
Owner 2 Name:	
Street 1:	50 CHURCH ST
Street 2:	
City:	WINDSOR LOCKS
State:	CT
Zip:	06096
Volume:	113
Page:	299
Deed Date:	0000-00-00

Building Information:

Building Number:	1
Units:	0
Structure Type:	POLICE/FIRE STATION
Grade:	C
Identical Units:	1
Year Built:	1975

Valuation:

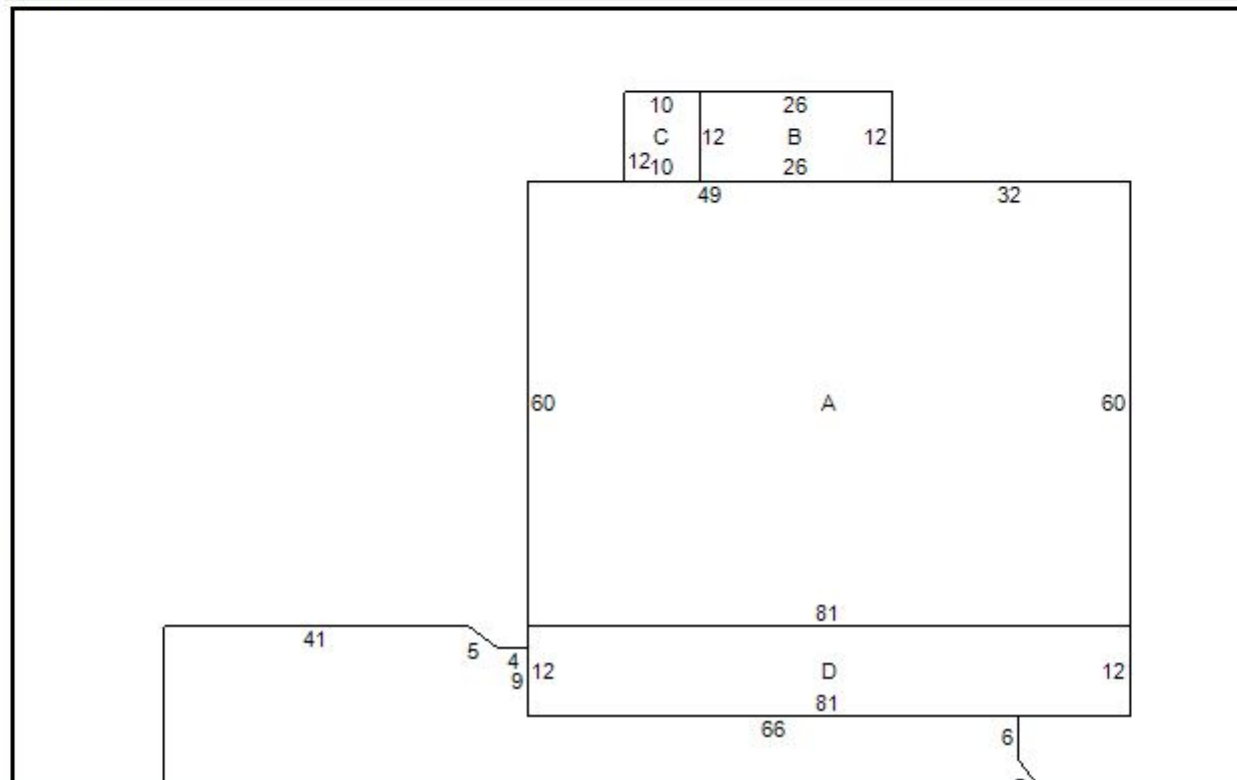
Appraised Land:	\$562,200.00
Appraised Land PA490:	\$0.00
Appraised Bldg:	\$2,373,700.00
Appraised Total:	\$2,935,900.00
Total Assessment:	\$2,055,130.00

Property Images:

Picture:



Sketch:



ID	Code	Description	Area
A	RG1	GARAGE-ATTACHED-FRM	4860
B	RS1	UTILITY BLDG-FRAME	312
C	RS1	UTILITY BLDG-FRAME	120
D	VS1	1S	972
E	VB2	2S/B	5418
F	VB0	BASEMENT	3056
G	060	MUNICIPAL	3056*
H	060	MUNICIPAL	5418*
I	053	OFFICES	1944*
J	060	MUNICIPAL	4860*
K	045	WAREHOUSE	432*
L	060	MUNICIPAL	5418*
M	SS1	SPRINKLER SYS WET	0
N	RG1	FRAME OR CB DETACHED GA...	2592*
O	PA1	PAVING ASPHALT PARKING	46600*
P	RG1	FRAME OR CB DETACHED GA...	800*

ATTACHMENT 6



WINDSOR LOCKS NE
Certificate of Mailing — Firm

Name and Address of Sender Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™ <div style="text-align: center; font-size: 2em;">2</div>	Affix Stamp Here <i>Postmark with Date of Receipt.</i> <div style="text-align: right;"> </div>
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.	J. Christopher Kervick, First Selectman Town of Windsor Locks 50 Church Street Windsor Locks, CT 06096				
2.	Jennifer Rodriguez, Town Planner Town of Windsor Locks 50 Church Street Windsor Locks, CT 06096				
3.					
4.					
5.					
6.					