

John Coleman, Project Manager
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (240) 615 -7389
JColeman@clinellc.com

November 3, 2021

Melanie A. Bachman
Acting Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RE: EM-VER-0258-210819 – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 2627 Day Hill Road, Bloomfield, CT.

Dear Ms. Bachman,

In response to the Council's Incomplete Letter to modify an existing telecommunications facility dated October 4, 2021 for the afore mentioned site, please see the following attachments as outlined below per Councils request:

1. Original Facility Approval from the CSC Website.
2. Proof of mailing and delivery confirmation to Chief Elected Official: Mary Bylone.
 - a. UPS Label: 1Z9Y45030315888242
 - b. Delivery Confirmation dated: 08/19/21 – 03:15 p.m.
3. Proof of mailing and delivery confirmation to Zoning Official: Matthew Bordeaux.
 - a. UPS Label: 1Z9Y45030313539257
 - b. Delivery Confirmation dated: 08/19/21 – 03:16 p.m.
4. Proof of mailing and delivery confirmation to Property Owner: M&J Auto Recycling Inc.
 - a. UPS Label: 1Z9Y45030301392268
 - b. Delivery Confirmation dated: 08/19/21 – 10:10 a.m.
5. The Original Filing sent to the CSC on 8/13/2021 – Notice of Exempt Modification // Site: COLCHESTER CT 6 (ATC: 302465) Cellco Partnership d/b/a/ Verizon Wireless.

This list completes the items listed in the afore mentioned Letter of Incompleteness. I appreciate your time and consideration.

Sincerely,

John Coleman

John Coleman, Project Manager
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (240) 615 -7389
JColeman@clinellc.com

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:	:	
	:	
A SUB-PETITION OF CELLCO	:	SUB-PETITION NO. 1133
PARTNERSHIP D/B/A VERIZON WIRELESS	:	355 NEW LONDON ROAD
FOR THE SHARED USE OF AN EXISTING	:	COLCHESTER, CT
WIRELESS TELECOMMUNICATIONS	:	
FACILITY AT 355 NEW LONDON ROAD,	:	
COLCHESTER, CONNECTICUT	:	JULY 12, 2016

SUB-PETITION FOR DECLARATORY RULING:
ELIGIBLE FACILITIES REQUEST FOR MODIFICATIONS
THAT WILL NOT SUBSTANTIALLY CHANGE THE
PHYSICAL DIMENSIONS OF AN EXISTING BASE STATION

I. Introduction

Pursuant to Section 6409(a) of the Middle Class Tax Relief and Job Creation Act of 2012, codified at 47 U.S.C. § 1455(a) (“Section 6409(a)”) and the October 21, 2014 Report and Order (FCC-14-153) issued by the Federal Communications Commission (“FCC”) (the “FCC Order”), Cellco Partnership d/b/a Verizon Wireless (“Cellco”) hereby petitions the Connecticut Siting Council (the “Council”) for a declaratory ruling (“Sub-Petition”) that the installation of a single canister antenna and related telecommunications equipment at the existing wireless telecommunications base station at 355 New London Road (Route 85) in Colchester, Connecticut (the “Property”) constitutes an Eligible Facilities Request (“EFR”) under the FCC Order. Cellco has designated this site as its “Colchester South 2 Facility”.

II. Factual Background

The Property is a 36.1-acre parcel owned by M & J Auto Recycling Inc. The Property is zoned R-60 and is used for automobile recycling purposes and school bus parking/storage. The Property is surrounded by commercial and residential uses along New London Road and Dutton

Road. See Attachment 1 – Site Vicinity Map and Site Schematic (Aerial Photograph). American Tower Corporation (“ATC”) owns and maintains a 180-foot monopole tower in the central portion of the Property. The tower is currently shared by Sprint, with antennas at the 180-foot level, and AT&T, with antennas at the 150-foot level. Equipment associated with the Sprint and AT&T antennas is located in a fenced compound area near the base of the tower, within a 100’ x 100’ leased parcel. According to limited information available in the Town records, building permits for the tower were issued in August of 1998. There is no record of any corresponding zoning approvals in the Town’s files.

III. Proposed Colchester South 2 Facility

Cellco is licensed to provide wireless telecommunications services in the 850 MHz, 1900 MHz, 700 MHz and 2100 MHz frequency ranges in Colchester and throughout the State of Connecticut. The proposed Colchester South 2 Facility described in this filing will provide service and is designed to provide coverage and capacity relief to Cellco’s existing wireless network in Colchester.

Cellco intends to install a total of twelve (12) antennas and six (6) remote radio heads (“RRHs”) on a low profile antenna platform at the 161-foot level on the existing tower. Cellco will also install a 12’ x 20’ equipment platform and canopy structure near the base of the tower within the limits of the existing leased area.¹ The platform will support two (2) equipment cabinets and a 15 kW propane-fueled back-up generator. Cellco will also install a 1,000 gallon propane tank within the compound. Power and telephone service will extend from the existing utility backboard at the tower compound. Project Plans for the Colchester South 2 Facility are

¹ The existing compound fence will be extended to enclose the Cellco equipment platform. All of Cellco’s improvements will remain within the limits of the ATC leased parcel.

included in Attachment 2. Specifications for Cellco's antennas and equipment are included in Attachment 3. A Structural Analysis Report confirming that the tower can support Cellco's antenna and related equipment modifications is included in Attachment 4.

IV. Discussion

A. The Proposed Modification Will Not Cause a Substantial Change to the Physical Dimensions of the Existing Base Station

Section 6409(a) provides, in relevant part, that "a State or local government may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station." Pursuant to the FCC Order, the proposed modification does not substantially change the physical dimensions of the base station if the following criteria are satisfied.

1. *The proposed modified facility will not increase the height of the tower by more than ten (10) percent of the height.* Cellco does not intend to increase the height of the existing tower. Cellco's antennas and RRHs will be located at the 161-foot level on the existing 180-foot tower.

2. *The proposed facility modification will not protrude from the edge of the structure more than six (6) feet.* Cellco's antennas and RRHs will not protrude more than six (6) feet from the face of the tower.

3. *The proposed facility does not involve installation of more than the standard number of new equipment cabinets for the technology involved, but not to exceed four cabinets.* Cellco intends to install two equipment cabinets and a back-up generator on a steel platform and canopy structure.

4. *The proposed facility does not entail any excavation or deployment outside the current site of the base station.* Cellco's proposed modification will remain within the limits of the existing ATC leased parcel.

5. *The proposed facility does not defeat the existing concealment elements of the base station.* There are no concealment elements incorporated into Cellco's existing base station modification plan and none were required by the Town.

6. *The proposed facility complies with conditions associated with the prior approval of construction or modification of the base station.* The Town of Colchester issued its first building permit for this site on or about August 12, 1998. Cellco also searched local zoning files but found no evidence of a separate zoning approval for the parcel. Cellco's proposed installation does not violate any conditions of the Town's approval. A copy of the Town's building permit records is included in Attachment 5.

B. FCC Compliance

Included in Attachment 6 is a worst case General Power Density table for Cellco's proposed antennas confirming that the facility will operate within the FCC safety standards for radio frequency emissions.

C. Notice to the Town, Property Owner and Abutting Landowners


On July 12, 2016, a copy of this Sub-Petition was sent to Colchester's First Selectman, Art Shilosky, to M & J Auto Recycling Inc. ("M & J"), the owner of the Property and to ATC, the owner of the tower. A copy of the cover letter sent to Mr. Shilosky, M & J and ATC is included in Attachment 7. A copy of this Sub-Petition was also sent to the owners of land that abuts the Property. A sample abutter's cover letter and the list of those abutting landowners who were sent notice and a copy of this filing is included in Attachment 8.

V. Conclusion

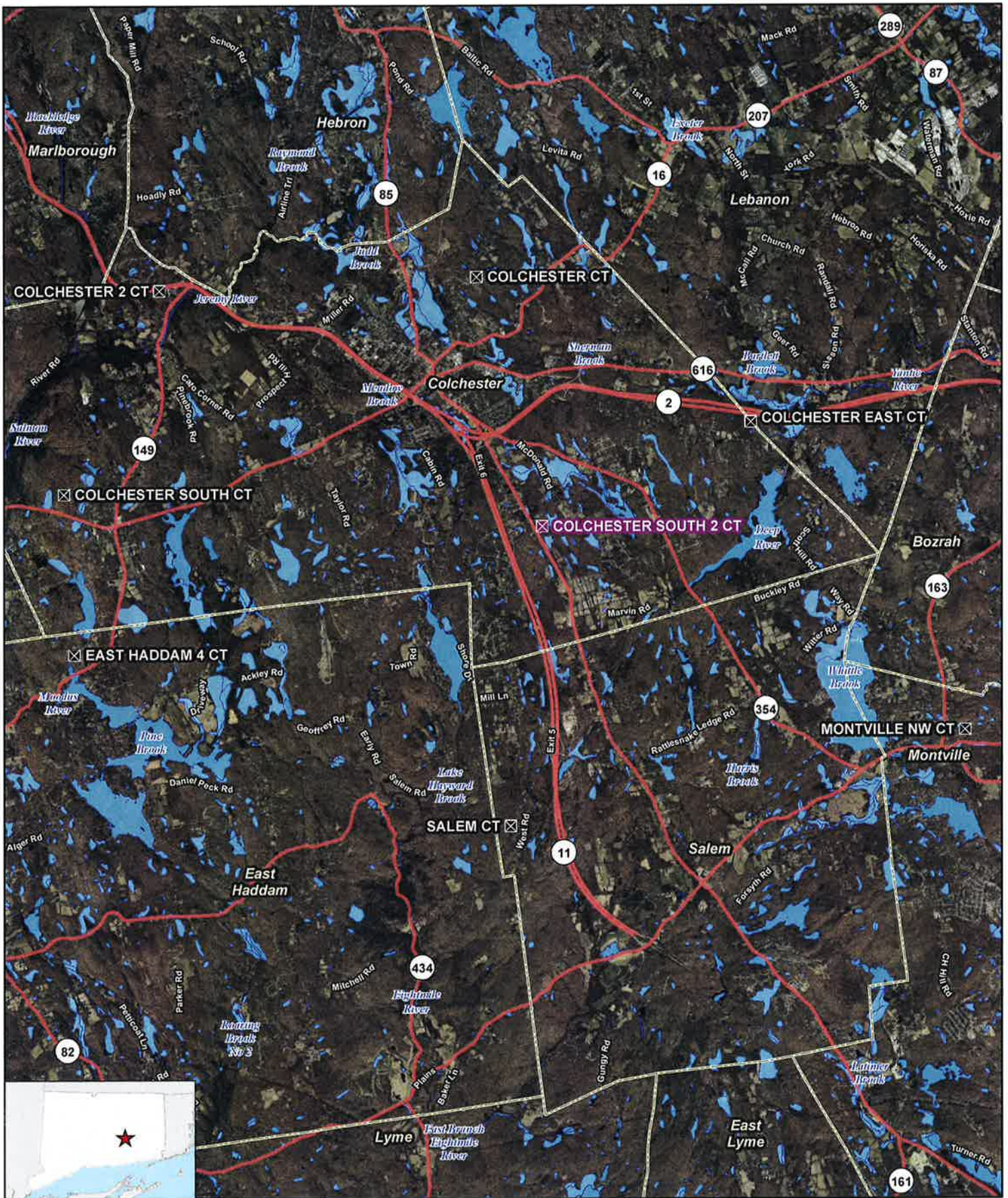
Based on the information provided above, Cellco respectfully submits that the proposed modification of the existing base station at the Property constitutes an “eligible facilities request” under Section 6409(a) and the FCC Order.

Respectfully submitted,

CELLCO PARTNERSHIP d/b/a VERIZON
WIRELESS

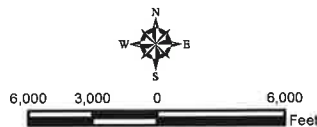
By  _____
Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597
(860) 275-8200
Its Attorneys

ATTACHMENT 1



- Legend**
- ✖ Proposed Verizon Wireless Facility
 - ✖ Surrounding Verizon Wireless Facilities
 - Municipal Boundary
 - ~ Waterbody

Base Map Source: 2012 Aerial Photograph (CTECO)
 Map Scale: 1 inch = 9,000 feet
 Map Date: June 2016



Site Vicinity Map

Proposed Wireless
 Telecommunications Facility
 Colchester South 2 CT
 355 New London Road (Route 85)
 Colchester, Connecticut





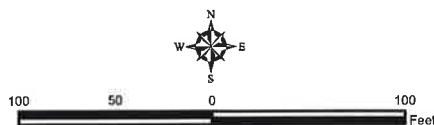
Legend

- Proposed Verizon Wireless Equipment Lease Areas
- Proposed Verizon Wireless Compound Expansion
- Approximate Parcel Boundary (CTDEEP GIS Parcels Last Updated 2010)
- Subject Property
- Existing Monopole Tower (By Others)
- Existing Compound Area (By Others)
- Existing Equipment (By Others)

Site Schematic

Proposed Wireless Telecommunications Facility
 Colchester South 2 CT
 355 New London Road (Route 85)
 Colchester, Connecticut

Map Notes:
 Base Map Source: 2012 Aerial Photograph (CTECO)
 Map Scale: 1 inch = 100 feet
 Map Date: June 2016



ATTACHMENT 2



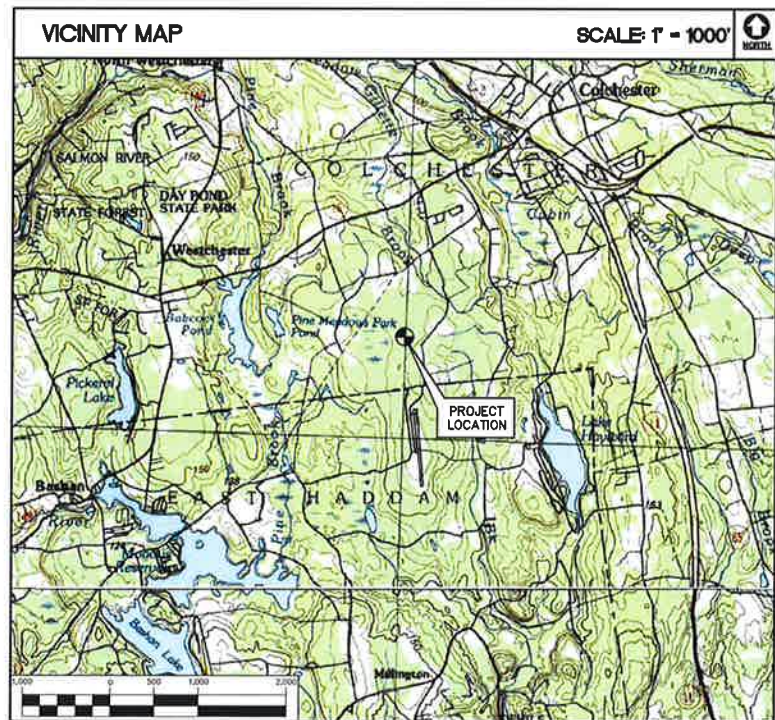
WIRELESS COMMUNICATIONS FACILITY

COLCHESTER SOUTH 2
 355 NEW LONDON ROAD (RT. 85)
 COLCHESTER, CT 06415

SITE DIRECTIONS	
FROM: 99 EAST RIVER DRIVE EAST HARTFORD, CONNECTICUT	TO: 355 NEW LONDON ROAD (RT. 85) NEW LONDON CT, CONNECTICUT
1. Head East on E River Dr	253 ft
2. Turn left onto the CT-2 E ramp to Norwich	0.2 mi
3. Merge onto I-84 E	374 ft
4. Take exit 55 to merge onto CT-2 toward Norwich/New London/I-84 E	23.8 mi
5. Keep right to continue on CT-11 S, follow signs for Connecticut 11 S/New London	0.3 mi
6. Take exit 6 for Lake Hayward Rd toward CT-85/CT-354	1.7 mi
7. Turn left onto Lake Hayward Rd	0.3 mi
8. Turn right onto CT-85 S, destination will be on the left	1.4 mi

GENERAL NOTES
1. PROPOSED ANTENNA LOCATIONS AND HEIGHTS PROVIDED BY CELCO PARTNERSHIP.

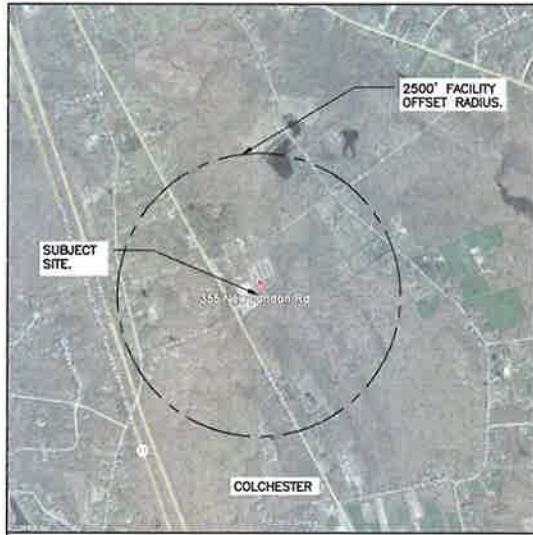
PROJECT SCOPE
1. THE PROPOSED SCOPE OF WORK GENERALLY INCLUDES THE EXPANSION OF THE EXISTING FENCED COMPOUND, INSTALLATION OF A 12'x20' RAISED EQUIPMENT PLATFORM ON CONCRETE PIERS WITH CANOPY ROOF AND THE INSTALLATION OF A 1000 GALLON PROPANE TANK ON A CONCRETE FOUNDATION, ALL OF WHICH ARE LOCATED WITHIN THE EXISTING WIRELESS COMMUNICATIONS LEASE AREA.
2. A TOTAL OF TWELVE (12) DIRECTIONAL PANEL ANTENNAS ARE PROPOSED TO BE MOUNTED ON AN EXISTING 180' TALL MONOPOLE TOWER AT A CENTERLINE ELEVATION OF 161' ABOVE FINISHED GRADE.
3. ELECTRIC AND TELCO UTILITIES SHALL BE ROUTED UNDERGROUND TO THE PROPOSED EQUIPMENT SHELTER FROM AN EXISTING UTILITY BACKBOARD LOCATED ADJACENT TO FENCED COMPOUND.
4. FINAL DESIGN FOR TOWER AND ANTENNA MOUNTS SHALL BE INCLUDED IN THE D&M PLANS.
5. THE PROPOSED WIRELESS FACILITY INSTALLATION WILL BE DESIGNED IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2009 CONNECTICUT SUPPLEMENT.
6. THERE WILL NOT BE ANY LIGHTING UNLESS REQUIRED BY THE FCC OR THE FAA.
7. THERE WILL NOT BE ANY SIGNS OR ADVERTISING ON THE ANTENNAS OR EQUIPMENT.



PROJECT SUMMARY	
SITE NAME:	COLCHESTER SOUTH 2
SITE ADDRESS:	355 NEW LONDON ROAD COLCHESTER, CT 06415
LESSEE/TENANT:	CELLCO PARTNERSHIP d.b.a. VERIZON WIRELESS 99 EAST RIVER DRIVE EAST HARTFORD, CT 06108
VERIZON SITE ACQUISITION CONTACT:	JAMES SMITH CELLCO PARTNERSHIP (860) 608-0028
LEGAL/REGULATORY COUNSEL:	KENNETH C. BALDWIN, ESQ. ROBINSON & COLE LLP (860) 257-8345
TOWER COORDINATES:	LATITUDE: 41°-32'-41.8" LONGITUDE: 72°-18'-17.2" GROUND ELEVATION: 376± A.M.S.L. COORDINATES & GROUND ELEVATION ARE BASED ON CONNECTICUT SITING COUNCIL DATABASE.

SHEET INDEX		
SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	2
C-1	ABUTTERS MAPS	2
C-2	COMPOUND PLAN AND ELEVATION	2

 verizon	 CENTEK <small>engineering</small> <small>Centered on solutions</small>	Cellco Partnership d/b/a Verizon Wireless <small>WIRELESS COMMUNICATIONS FACILITY</small> COLCHESTER SOUTH 2 355 NEW LONDON ROAD (RT. 85) COLCHESTER, CT 06415	<small>ISSUED FOR CSC</small> <small>REVISION CSC - EQUIPMENT CHANGE FOR CLIENT REVIEW</small> <small>CONNECTICUT SITING COUNCIL REVIEW</small>	<small>DATE</small> <small>ISSUED FOR CSC</small> <small>REVISION CSC - EQUIPMENT CHANGE FOR CLIENT REVIEW</small> <small>CONNECTICUT SITING COUNCIL REVIEW</small>	<small>DATE</small> <small>ISSUED FOR CSC</small> <small>REVISION CSC - EQUIPMENT CHANGE FOR CLIENT REVIEW</small> <small>CONNECTICUT SITING COUNCIL REVIEW</small>
 <small>PROFESSIONAL ENGINEER SEAL</small>	 verizon	 <small>(203) 488-0860</small> <small>(203) 488-8887 Fax</small> <small>63-2 North Branford Road</small> <small>Branford, CT 06405</small> <small>www.CentekEng.com</small>	<small>DATE</small> <small>ISSUED FOR CSC</small> <small>REVISION CSC - EQUIPMENT CHANGE FOR CLIENT REVIEW</small> <small>CONNECTICUT SITING COUNCIL REVIEW</small>	<small>DATE</small> <small>ISSUED FOR CSC</small> <small>REVISION CSC - EQUIPMENT CHANGE FOR CLIENT REVIEW</small> <small>CONNECTICUT SITING COUNCIL REVIEW</small>	<small>DATE</small> <small>ISSUED FOR CSC</small> <small>REVISION CSC - EQUIPMENT CHANGE FOR CLIENT REVIEW</small> <small>CONNECTICUT SITING COUNCIL REVIEW</small>
TITLE SHEET			T-1		
<small>Sheet No. 1 of 3</small>					



MUNICIPALITY NOTIFICATION LIMIT MAP

DUTTON RD

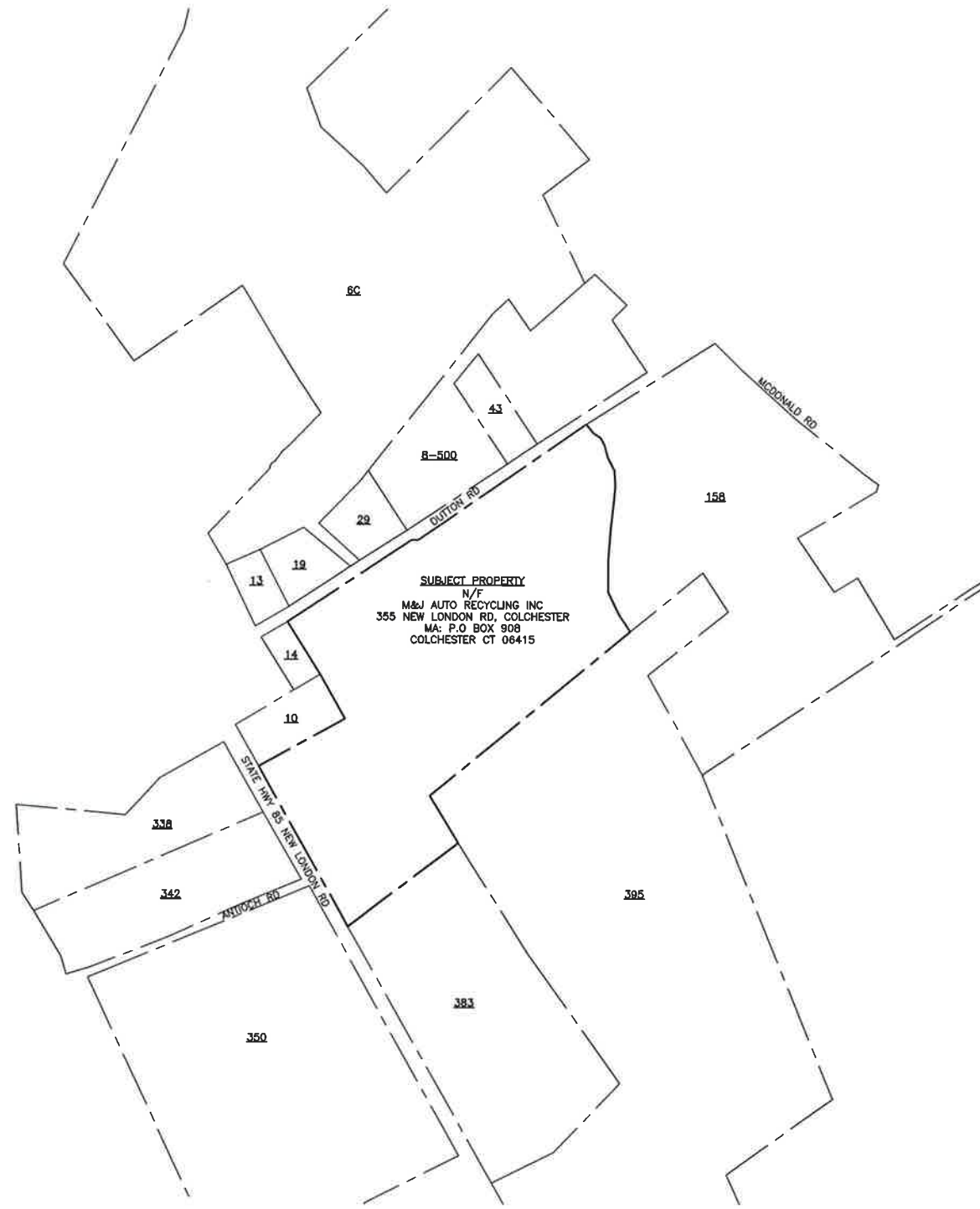
- 10 N/F
BAGSHAW CAROL A
MA: 10 DUTTON RD
COLCHESTER CT 06415
- 13 N/F
MAULICCI JOSEPH IV
MA: 13 DUTTON RD
COLCHESTER CT 06415
- 14 N/F
DIMOCK SCOTT & LYNETTE
MA: 14 DUTTON RD
COLCHESTER CT 06415
- 19 N/F
GERALD J & DIANE K PEARL
MA: 19 DUTTON RD
COLCHESTER CT 06415
- 29 N/F
MOROCH STANLEY & GINA
MA: 29 DUTTON RD
COLCHESTER CT 06415
- 43 N/F
WELLS A & MCCORMICK WELLS
KAREN K
MA: 43 DUTTON RD
COLCHESTER CT 06415

NEW LONDON RD

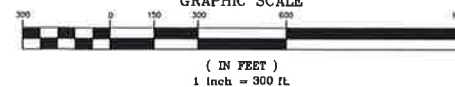
- 385 N/F
KENDZIOR DONALD J
MA: 383 NEW LONDON RD
COLCHESTER CT 06415
- 383 N/F
KENDZIOR DONALD
MA: 383 NEW LONDON RD
COLCHESTER CT 06415
- 338 N/F
RMD LAND DEVELOPMENT LLC
338 NEW LONDON RD
MA: 612 CHURCH ST
ASMSTON CT 06231
- 342 N/F
MILLER STEPHEN TY
MA: 342 NEW LONDON RD
COLCHESTER CT 06415
- 350 N/F
SCHOOLS JOSEPHINE EST OF
C/O SCHOOLS ROBERT P
350 NEW LONDON RD
MA: 184 WEST HIGH ST
EAST HAMPTON CT 06424

MCDONALD RD

- 6C N/F
COLCHESTER TOWN OF
86 MCDONALD RD
MA: 127 NORWICH AVE
COLCHESTER CT 06415
- B-500 N/F
COLCHESTER TOWN OF
MCDONALD RD
MA: 127 NORWICH AVE
COLCHESTER CT 06415
- 158 N/F
BEGUN THEODORA S
MA: 158 MCDONALD RD
COLCHESTER CT 06415



1
C-1
ABUTTERS MAP
SCALE: 1" = 300'



MAP REFERENCE NOTE:
PROPERTY LINES AND PROPERTY
OWNER INFORMATION SHOWN HEREIN
ARE REFERENCED FROM THE TOWN OF
COLCHESTER ONLINE GIS SERVICES.

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
2	07/17/18	LGL	DMD	ISSUED FOR CSC
1	08/20/18	LGL	DMD	REVISED CSC - EQUIPMENT CHANGE FOR CLIENT REVIEW
0	06/12/14	CTP	DMD	CONNECTICUT SITING COUNCIL REVIEW

PROFESSIONAL ENGINEER SEAL



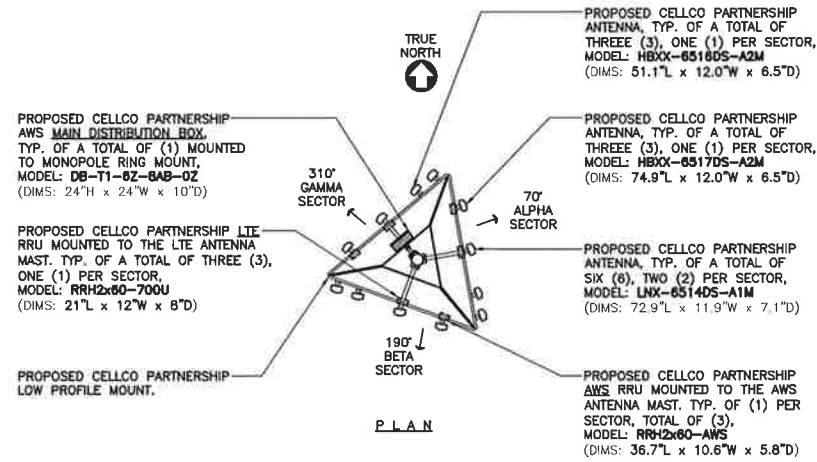
CENTEK engineering
Continued on Solutions
(203) 488-0580
(203) 488-6587 Fax
63-2 North Branford Road
Branford, CT 06405
www.CentekEng.com

Cellco Partnership d/b/a Verizon Wireless
WIRELESS COMMUNICATIONS FACILITY
COLCHESTER SOUTH 2
355 NEW LONDON ROAD (RT. 85)
COLCHESTER, CT 06415

DATE: 06/12/14
SCALE: AS NOTED
JOB NO. 13258.000

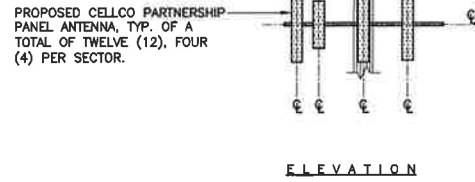
ABUTTERS MAP

C-1
Sheet No. 2 of 3

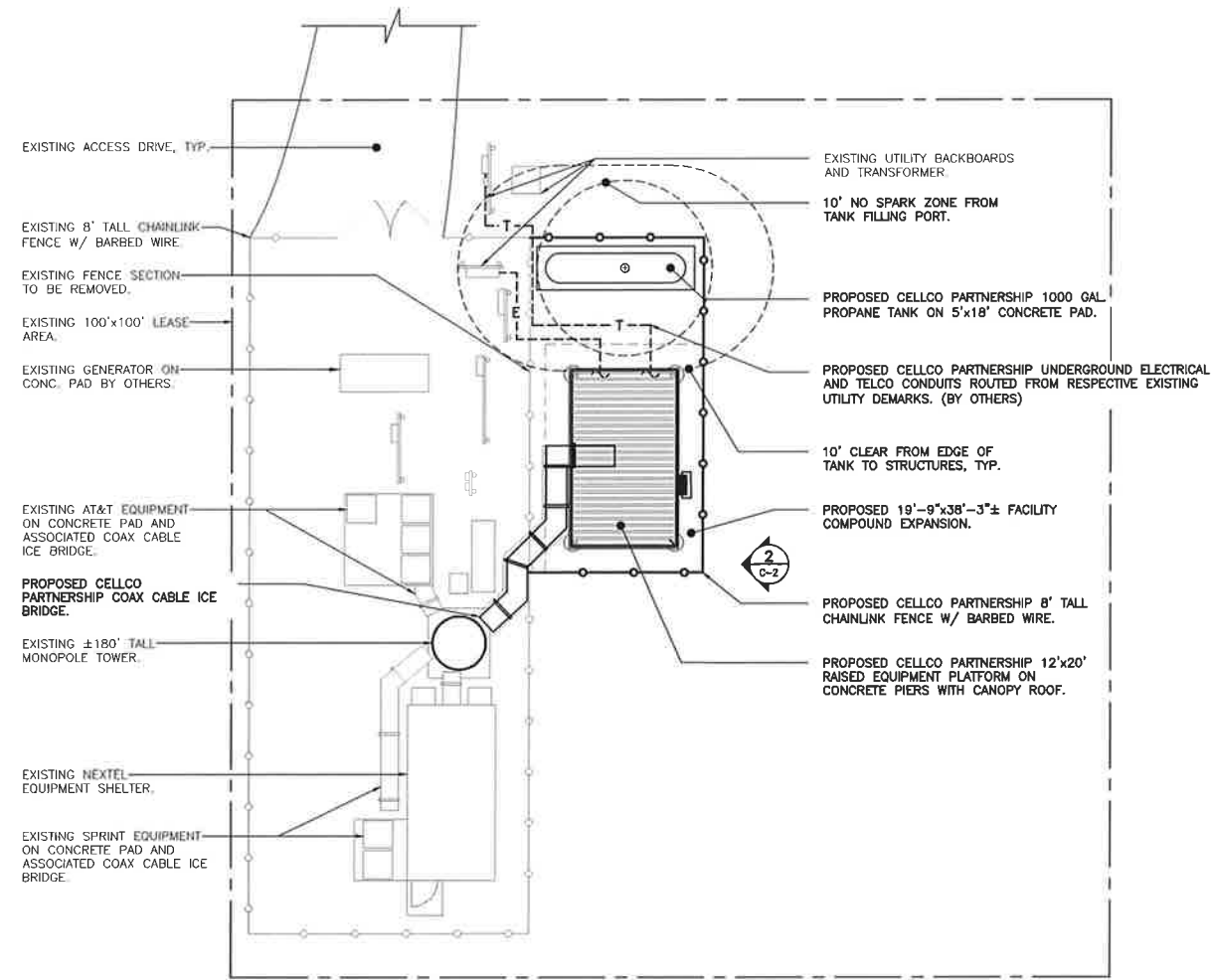
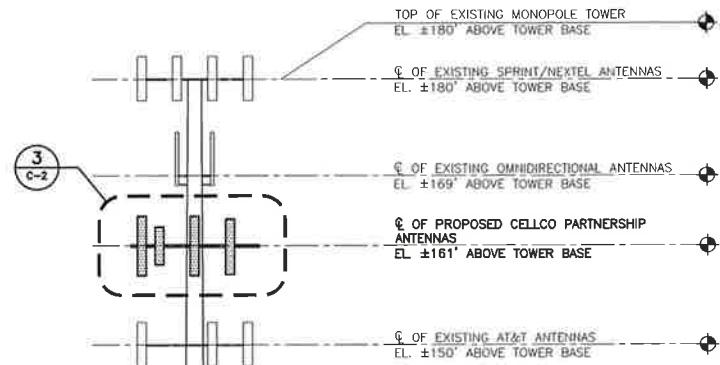


PLAN

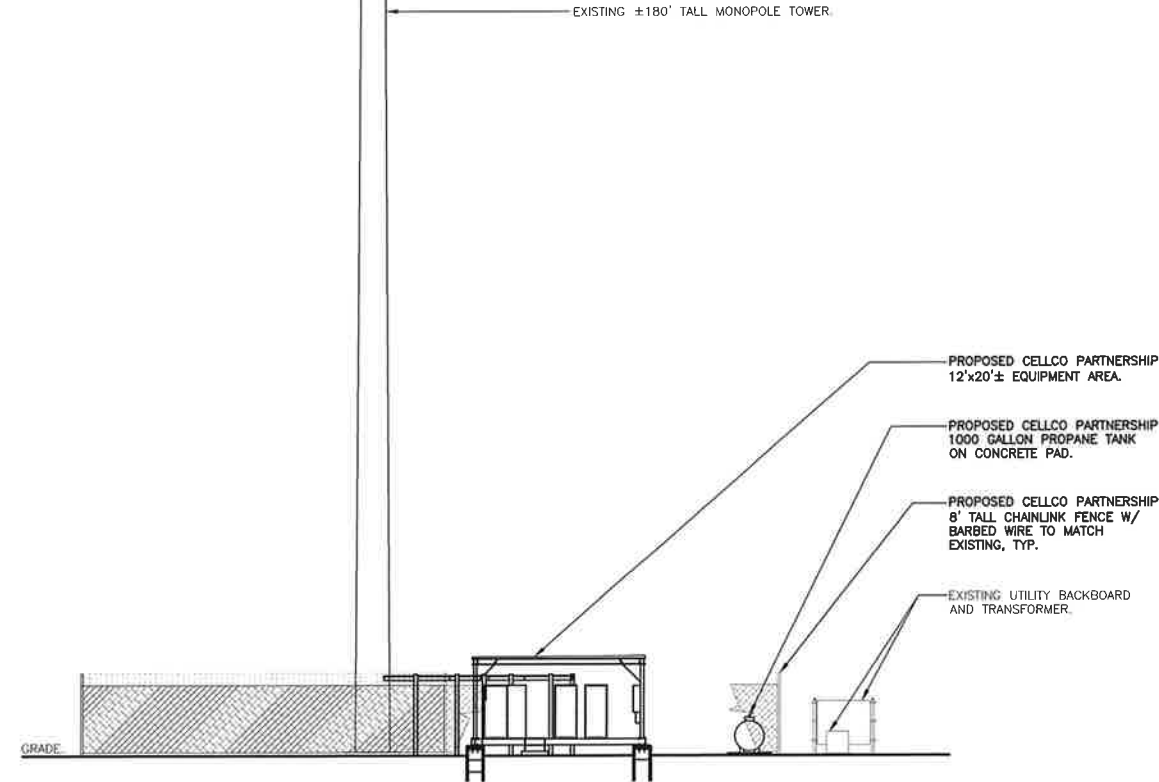
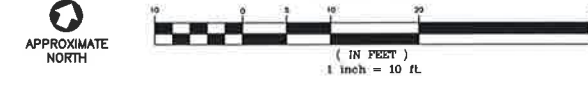
3 ANTENNA MOUNTING CONFIGURATION
C-2 NOT TO SCALE



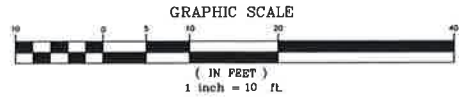
TOWER STRUCTURAL ANALYSIS NOTE:
REFER TO TOWER STRUCTURAL ANALYSIS AND MODIFICATION DESIGN AS PREPARED BY AMERICAN TOWER CORPORATION (ATC), DATED DECEMBER 9, 2015. ATC SITE NUMBER: 302465, ATC ENGINEERING NUMBER: 542622210.



1 COMPOUND PLAN
C-2 SCALE: 1" = 10'



2 EAST ELEVATION
C-2 SCALE: 1" = 10'



REV.	DATE	BY	CHK'D BY	DESCRIPTION
2	07/11/18	LGL		ISSUED FOR CSC
1	06/05/18	BMD		REVISED CSC - EQUIPMENT CHANGE FOR CLIENT REVIEW
0	05/12/14	CIP		CONNECTICUT STRING COUNCIL REVIEW

PROFESSIONAL ENGINEER SEAL



CENITEK engineering
Centered on Solutions™
(203) 488-0860
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Cellco Partnership d/b/a Verizon Wireless
WIRELESS COMMUNICATIONS FACILITY
COLCHESTER SOUTH 2
355 NEW LONDON ROAD (RT. 85)
COLCHESTER, CT 06415

DATE: 06/12/14
SCALE: AS NOTED
JOB NO. 13258.000

COMPOUND PLAN AND ELEVATION

C-2
Sheet No. 3 of 3

ATTACHMENT 3

POWERED BY



LNX-6514DS-VTM

Andrew® Antenna, 698–896 MHz, 65° horizontal beamwidth, RET compatible

- Great solution to maximize network coverage and capacity
- Excellent gain, VSWR, front-to-back ratio, and PIM specifications for robust network performance
- Ideal choice for site collocations and tough zoning restrictions
- Excellent solution for site sharing and maximizing capacity
- Fully compatible with Andrew remote electrical tilt system for greater OpEx savings
- The RF connectors are designed for IP67 rating and the radome for IP56 rating

Electrical Specifications

Frequency Band, MHz	698–806	806–896
Gain, dBi	15.8	15.9
Beamwidth, Horizontal, degrees	65	64
Beamwidth, Vertical, degrees	12.4	11.2
Beam Tilt, degrees	0–10	0–10
USLS (First Lobe), dB	17	18
Front-to-Back Ratio at 180°, dB	32	30
CPR at Boresight, dB	23	23
CPR at Sector, dB	12	10
Isolation, dB	30	30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153
Input Power per Port, maximum, watts	400	400
Polarization	±45°	±45°
Impedance	50 ohm	50 ohm

Electrical Specifications, BASTA*

Frequency Band, MHz	698–806	806–896
Gain by all Beam Tilts, average, dBi	15.6	15.7
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.5
	0 ° 15.7	0 ° 15.9
Gain by Beam Tilt, average, dBi	5 ° 15.7	5 ° 15.8
	10 ° 15.3	10 ° 15.3
Beamwidth, Horizontal Tolerance, degrees	±0.9	±1.4
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.6
USLS, beampeak to 20° above beampeak, dB	18	20
Front-to-Back Total Power at 180° ± 30°, dB	25	23
CPR at Boresight, dB	25	24
CPR at Sector, dB	15	12

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs.](#)

General Specifications

Antenna Brand	Andrew®
Antenna Type	DualPol®
Band	Single band
Brand	DualPol® Teletilt®

LNX-6514DS-VTM

POWERED BY



Operating Frequency Band 698 – 896 MHz
Performance Note Outdoor usage

Mechanical Specifications

Color Light gray
Lightning Protection dc Ground
Radiator Material Aluminum
Radome Material Fiberglass, UV resistant
RF Connector Interface 7-16 DIN Female
RF Connector Location Bottom
RF Connector Quantity, total 2
Wind Loading, maximum 617.7 N @ 150 km/h
138.9 lbf @ 150 km/h
Wind Speed, maximum 241 km/h | 150 mph

Dimensions

Depth 180.5 mm | 7.1 in
Length 1851.0 mm | 72.9 in
Width 301.0 mm | 11.9 in
Net Weight 14.2 kg | 31.3 lb

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator LNX-6514DS-A1M
RET System Teletilt®

Packed Dimensions

Depth 284.0 mm | 11.2 in
Length 2163.0 mm | 85.2 in
Width 411.0 mm | 16.2 in
Shipping Weight 32.3 kg | 71.2 lb

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
China RoHS SJ/T 11364-2006
ISO 9001:2008

Classification

Compliant by Exemption
Above Maximum Concentration Value (MCV)
Designed, manufactured and/or distributed under this quality management system



Included Products

DB380 — Pipe Mounting Kit for 2.4"-4.5" (60-115mm) OD round members on wide panel antennas. Includes 2 clamp sets and double nuts.

Product Specifications

COMMSCOPE®

INX-6514DS-VTM

POWERED BY



DB5083 — Downtilt Mounting Kit for 2.4"-4.5" (60 - 115 mm) OD round members. Includes a heavy-duty, galvanized steel downtilt mounting bracket assembly and associated hardware. This kit is compatible with the DB380 pipe mount kit for panel antennas that are equipped with two mounting brackets.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

POWERED BY



HBXX-6516DS-VTM

Andrew® Quad Port Antenna, 1710–2180 MHz, 65° horizontal beamwidth, RET compatible

- Each DualPol® array can be independently adjusted for greater flexibility
- Excellent gain, VSWR, front-to-back ratio, and PIM specifications for robust network performance
- Ideal choice for site collocations and tough zoning restrictions
- Great solution to maximize network coverage and capacity

Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain, dBi	17.7	18.0	18.0
Beamwidth, Horizontal, degrees	67	66	64
Beamwidth, Vertical, degrees	7.5	7.0	6.6
Beam Tilt, degrees	0–10	0–10	0–10
USLS, dB	18	18	18
Front-to-Back Ratio at 180°, dB	30	30	30
CPR at Boresight, dB	22	22	21
CPR at Sector, dB	8	9	9
Isolation, dB	30	30	30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153
Input Power per Port, maximum, watts	350	350	350
Polarization	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm

Electrical Specifications, BASTA*

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	17.2	17.2	17.5
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3	±0.5
	0° 17.0	0° 17.1	0° 17.4
Gain by Beam Tilt, average, dBi	5° 17.3	5° 17.4	5° 17.7
	10° 17.0	10° 17.0	10° 17.2
Beamwidth, Horizontal Tolerance, degrees	±2.7	±2.3	±3.5
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.4
USLS, dB	18	19	19
Front-to-Back Total Power at 180° ± 30°, dB	26	26	26
CPR at Boresight, dB	22	22	22
CPR at Sector, dB	9	9	9

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs.](#)

General Specifications

Antenna Brand	Andrew®
Antenna Type	DualPol® quad
Band	Single band
Brand	DualPol® Teletilt®
Operating Frequency Band	1710 – 2180 MHz

HBXX-6516DS-VTM

POWERED BY



Performance Note

Outdoor usage

Mechanical Specifications

Color	Light gray
Lightning Protection	dc Ground
Radiator Material	Low loss circuit board
Radome Material	PVC, UV resistant
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, total	4
Wind Loading, maximum	419.0 N @ 150 km/h 94.2 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 150 mph

Dimensions

Depth	166.0 mm 6.5 in
Length	1297.0 mm 51.1 in
Width	305.0 mm 12.0 in
Net Weight	13.9 kg 30.6 lb

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator	HBXX-6516DS-A2M
RET System	Teletilt®

Packed Dimensions

Depth	294.0 mm 11.6 in
Length	1609.0 mm 63.3 in
Width	409.0 mm 16.1 in
Shipping Weight	25.1 kg 55.3 lb

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
China RoHS SJ/T 11364-2006
ISO 9001:2008

Classification

Compliant by Exemption
Above Maximum Concentration Value (MCV)
Designed, manufactured and/or distributed under this quality management system



Included Products

600899A-2 — Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

Product Specifications

COMMSCOPE®

HBXX-6516DS-VTM

POWERED BY



* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance



HBXX-6517DS-VTM | HBXX-6517DS-A2M

Andrew® Quad Port Antenna, 1710–2180 MHz, 65° horizontal beamwidth, RET compatible

- Superior azimuth tracking and pattern symmetry with excellent passive intermodulation suppression

Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain, dBi	19.0	19.1	19.2
Beamwidth, Horizontal, degrees	67	66	65
Beamwidth, Vertical, degrees	5.0	4.7	4.4
Beam Tilt, degrees	0–6	0–6	0–6
USLS (First Lobe), dB	18	18	18
Front-to-Back Ratio at 180°, dB	30	30	30
CPR at Boresight, dB	21	22	21
CPR at Sector, dB	10	11	9
Isolation, dB	30	30	30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153
Input Power per Port, maximum, watts	350	350	350
Polarization	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm

Electrical Specifications, BASTA*

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	18.5	18.6	18.8
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.4
	0 ° 18.4	0 ° 18.4	0 ° 18.7
Gain by Beam Tilt, average, dBi	3 ° 18.7	3 ° 18.7	3 ° 18.9
	6 ° 18.4	6 ° 18.5	6 ° 18.6
Beamwidth, Horizontal Tolerance, degrees	±2.4	±1.7	±2.9
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.3	±0.3
USLS, beampeak to 20° above beampeak, dB	18	19	19
Front-to-Back Total Power at 180° ± 30°, dB	25	26	26
CPR at Boresight, dB	22	23	22
CPR at Sector, dB	10	10	9

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, download the whitepaper [Time to Raise the Bar on BSAs](#).

General Specifications

Antenna Brand	Andrew®
Antenna Type	DualPol® quad
Band	Single band
Brand	DualPol®
Operating Frequency Band	1710 – 2180 MHz

HBXX-6517DS-VTM | HBXX-6517DS-A2M

Performance Note

Outdoor usage

Mechanical Specifications

Color	Light gray
Lightning Protection	dc Ground
Radiator Material	Low loss circuit board
Radome Material	PVC, UV resistant
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, total	4
Wind Loading, frontal	668.0 N @ 150 km/h 150.2 lbf @ 150 km/h
Wind Loading, lateral	175.0 N @ 150 km/h 39.3 lbf @ 150 km/h
Wind Loading, rear	777.0 N @ 150 km/h 174.7 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 150 mph

Dimensions

Depth	166.0 mm 6.5 in
Length	1906.0 mm 75.0 in
Width	305.0 mm 12.0 in
Net Weight, without mounting kit	18.5 kg 40.8 lb

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator HBXX-6517DS-A2M

Packed Dimensions

Depth	292.0 mm 11.5 in
Length	2036.0 mm 80.2 in
Width	402.0 mm 15.8 in
Shipping Weight	28.2 kg 62.2 lb

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
China RoHS SJ/T 11364-2006
ISO 9001:2008

Classification

Compliant by Exemption
Above Maximum Concentration Value (MCV)
Designed, manufactured and/or distributed under this quality management system



Included Products

600899A-2 — Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket

HBXX-6517DS-VTM | HBXX-6517DS-A2M

set and one bottom bracket set.

* **Footnotes**

Performance Note Severe environmental conditions may degrade optimum performance

ALCATEL-LUCENT B13 RRH4X30-4R

Alcatel-Lucent B13 Remote Radio Head 4x30-4R is the newest addition of Remote Radio Head to the extended product line of Alcatel-Lucent's distributed Base Station solutions, aimed at facilitating smooth RF site acquisition and related civil engineering.

Supporting 2Tx/4Tx MIMO and 4-way Rx diversity, Alcatel-Lucent B13 RRH4x30-4R allows operators to have a compact radio solution to deploy LTE in the 700U band (700 MHz, 3GPP band 13), providing them with the means to achieve high capacity, high quality and high coverage with minimum site requirements.



The Alcatel-Lucent B13 RRH4x30-4R product has four transmit RF paths, offering the possibility to **select, via software only, 2Tx or 4Tx MIMO configurations** with either 2x60 W or 4x30 W RF output power. It supports also 4-way Rx diversity and up to 10MHz instantaneous bandwidth.

The Alcatel-Lucent B13 RRH4x30-4R is a near zero-footprint solution and operates noise free, simplifying negotiations with site property owners and minimizing environmental impacts.

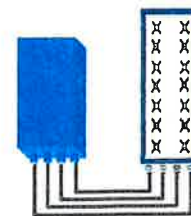
Its compactness and slim design makes the Alcatel-Lucent B13 RRH4x30-4R easy to install close to the antenna: operators can therefore locate this Remote Radio Head where RF design conditions are deemed ideal, minimizing trade-offs between available sites and RF optimum sites, together with reducing the RF feeder needs and installation costs.

FEATURES

- Supporting LTE in 700 MHz band (700U, 3GPP band 13)
- LTE 2Tx or 4Tx MIMO (SW switchable)
- Output power: Up to 2x60W or 4x30W
- 10MHz LTE carrier with 4Rx Diversity
- Convection-cooled (fan-less)
- Supports AISG 2.0 ALD devices (RET, TMA) through RS485 or RF ports

BENEFITS

- Compact to reduce additional footprint when adding LTE in 700U band
- MIMO scheme operation selection (2Tx or 4Tx) by software only
- Improves downlink spectral efficiency through MIMO4
- Increases LTE coverage thanks to 4Rx diversity capability and best in class Rx sensitivity
- Flexible mounting options: Pole or Wall



4x30W with 4T4R
or
2x60W with 2T4R
Can be switched between
modes via SW w/o site
visit

TECHNICAL SPECIFICATIONS

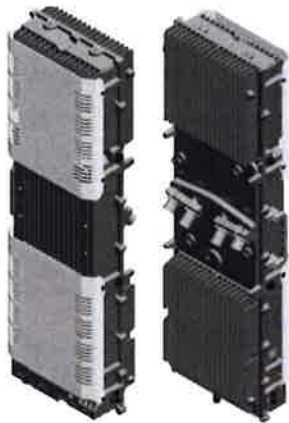
Features & performance	
Number of TX/RX paths	4 duplexed (either 4T4R or 2T4R by SW)
Frequency band	U700 (C) (3GPP bands 13): DL: 746 - 756 MHz / UL: 777 - 787 MHz
Instantaneous bandwidth - #carriers	10MHz - 1 LTE carrier (in 10MHz occupied bandwidth)
LTE carrier bandwidth	10 MHz
RF output power	2x60W or 4x30W (by SW)
Noise figure - RX Diversity scheme	2 dB typ. (<2.5 dB max) - 2 or 4 way Rx diversity
Sizes (HxWxD) in mm (in.)	550 x 305 x 230 (21.6" x 12.0" x 9") (with solar shield)
Volume in L	38 (with solar shield)
Weight in kg (lb) (w/o mounting HW)	26 (57.2) (with solar shield)
DC voltage range	-40.5 to -57V at full performance, -38 to -57V with relaxation on power consumption
DC power consumption	550W typical @100% RF load (in 2Tx or 4TX mode)
Environmental conditions	-40°C (-40°F) / +55°C (+131°F)
Wind load (@150km/h or 93mph)	IP65 Frontal: <200N / Lateral : <150N
Antenna ports	4 ports 7/16 DIN female (50 ohms) VSWR < 1.5
CPRI ports	2 CPRI ports (HW ready for Rate7, 9.8 Gbps) SFP single mode dual fiber
AISG interfaces	1 AISG2.0 output (RS485) Integrated Smart Bias Tees (x2)
Misc. Interfaces	4 external alarms (1 connector) - 4 RF Tx & 4 RF Rx monitor ports - 1 DC connector (2 pins)
Installation conditions	Pole and wall mounting
Regulatory compliance	3GPP 36.141 / 3GPP 36.113 / GR-1089-CORE / GR-3108-CORE / UL 60950-1 / FCC Part 27

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ALCATEL-LUCENT WIRELESS PRODUCT DATASHEET

B4 RRH2X60-4R FOR AWS BAND APPLICATIONS

The Alcatel-Lucent B4 RRH2x60-4R is a high power, small form factor Remote Radio Head operating in the AWS frequency band (3GPP Band 4) for LTE technology. It is designed with an eco-efficient approach, providing operators with the means to achieve high quality and high capacity coverage with minimum site requirements and efficient operation.



A distributed Node B expands the deployment options by using two components, a Base Band Unit (BBU) containing the digital assets and a separate RRH containing the radio-frequency (RF) elements. This modular design optimizes available space and allows the main components of a Node B to be installed separately, within the same site or several kilometers apart.

The Alcatel-Lucent B4 RRH2x60-4R is linked to the BBU by an optical-fiber connection carrying downlink and uplink digital radio signals along with operations, administration and maintenance (OA&M) information.

SUPERIOR RF PERFORMANCE

The Alcatel-Lucent B4 RRH2x60-4R integrates all the latest

technologies. This allows operators to offer best-in-class characteristics.

It delivers an outstanding 120 watts of total RF power thanks to its two transmit RF paths of 60 W each.

It is ideally suited to support multiple-input multiple-output (MIMO) 2x2 operation.

It includes four RF receivers to natively support 4-way uplink reception diversity. This improves the radio uplink coverage and this can be used to extend the cell radius commensurate with 2x2MIMO 2x60 W for the downlink.

It supports multiple discontinuous LTE carriers within an instantaneous bandwidth of 45 MHz corresponding to the entire AWS B4 spectrum.

The latest generation power amplifiers (PA) used in this product achieve high efficiency (>40%), resulting in improved power consumption figures.

OPTIMIZED TCO

The Alcatel-Lucent B4 RRH2x60-4R is designed to make available all the benefits of a distributed Node B, with excellent RF characteristics, with low capital expenditures (CAPEX) and low operating expenditures (OPEX).

The Alcatel-Lucent B4 RRH2x60-4R is a very cost-effective solution to deploy LTE MIMO.

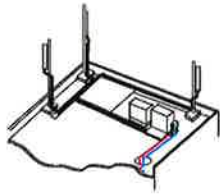
EASY INSTALLATION

The B4 RRH2x60-4R includes a reversible mounting bracket which allows for ease of installation behind an antenna, or on a rooftop knee wall while providing easy access to the mid body RF connectors.

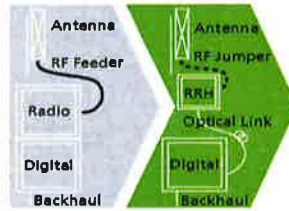
The limited space available in some sites may prevent the installation of traditional single-cabinet BTS equipment. However, many of these sites can host an Alcatel-Lucent B4 RRH2x60-4R installation, providing more flexible site selection and improved network quality along with greatly reduced installation time and costs.

The Alcatel-Lucent B4 RRH2x60-4R is a zero-footprint solution and is convection cooled without fans for silent operation, simplifying negotiations with site property owners and minimizing environmental impacts.

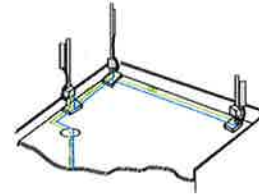
Installation can easily be done by a single person as the Alcatel-Lucent B4 RRH2x60-4R is compact and weighs about 25 kg, eliminating the need for a crane to hoist the BTS cabinet to the rooftop. A site can be in operation in less than one day.



Macro



RRH for space-constrained cell sites



Distributed

FEATURES

- B4 RRH2x60-4R integrates two power amplifiers of 60W rating (at each antenna connector)
- Support multiple carriers over the entire 3GPP band 4
- B4 RRH2x60-4R is optimized for LTE operation
- B4 RRH2x60-4R is a very compact and lightweight product
- Advanced power management techniques are embedded to provide power savings, such as PA bias control

BENEFITS

- MIMO LTE operation with only one single unit per sector
- Improved uplink coverage with built-in 4-way receive diversity capability
- RRH can be mounted close to the antenna, eliminating nearly all losses in RF cables and thus reducing power consumption by 50% compared to conventional solutions
- Distributed configurations provide easily deployable and cost-effective solutions, near zero footprint and

silent solutions, with minimum impact on the neighborhood, which ease the deployment

- RETA and TMA support without additional hardware thanks to the AISG v2.0 port and the integrated Bias-Tees. Bias-Tees support AISG DC supply and signaling.

TECHNICAL SPECIFICATIONS

Specifications listed are hardware capabilities. Some capabilities depend on support in a specific software release or future release.

Dimensions and weights

- HxWxD : 930x270x146 mm (with solar shield)
- Weight : 25 kg (55 lbs) (with solar shield)

Electrical Data

- Power Supply : -48V DC (-38 to -57V)
- Power Consumption: 346W typ. @2x30W (100%RF), 560W typ. @2x60W (100%RF)

RF Characteristics

- Frequency band: 1710-1755, UL / 2110-2155 MHz, DL (3GPP band 4)
- Output power: 2x60W at antenna connectors
- Technology supported: LTE
- Instantaneous bandwidth: 45 MHz
- Rx diversity: 2-way and 4-way uplink reception
- Typical sensitivity without Rx diversity: -105 dBm for LTE

Connectivity

- Two CPRI (3-6) optical ports for daisy chaining and up to six RRHs per fiber
- Type of optical fiber: Single-Mode (SM) and Multi-Mode (MM) SFPs
- Optical fiber length: up to 300m using MM fiber, up to 15km using SM fiber
- TMA/RETA : AISG 2.0 (RS485 connector and internal Bias-Tee)
- Four external alarms
- Surge protection for all external ports (DC and RF)

Environmental specifications

- Operating temperature: -40°C to 55°C including solar load
- Operating relative humidity: 8% to 100%
- Environmental Conditions : ETS 300 019-1-4 class 4.1E
- Ingress Protection : IEC 60529 IP65

- Acoustic Noise : Noiseless (natural convection cooling)

Safety and Regulatory Data

- EMC : 3GPP 25113, EN 301 489-1, EN 301 489-23, GR 1089, GR 3108, OET-65
- Safety : IEC60950-1, EN 60825-1, UL, ANSI/NFPA 70, CAN/CSA-C22.2
- Regulatory : FCC Part 15 Class B
- Health : EN 50385

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8220-603 series

Reliability through Simplicity



Founded in 1979 Polar Power specialized in solar photovoltaic systems, solar air conditioning and refrigeration. We developed and provided photovoltaic charging controls for telecommunications in the 1980s along with DC generators for the military. In 1994 we were first to provide DC generators with remote control and monitoring to the telecommunications industry.

Polar's success is based on engineering generators to meet the very specific needs of each application. Telecom site optimization is best met with the DC generator technology as the loads and batteries are DC. It makes no sense to install an AC generator and convert the output to DC. The AC generators are designed for a wide range of applications and they are not specifically produced for telecom applications so there are issues with reliability, space, and fuel efficiency.

Polar can save you considerable time and cost in permitting, installing, purchasing, and maintaining a backup generator. We reduce CAPEX and OPEX costs while improving backup reliability.

Intertek 4003706

Conforms to UL STD 2200

Certified to CSA STD C22.2 No. 100

Meets EPA Emission Regulations

CA/MA Emissions Compliant

2 year standard warranty, extended 5-10 year warranty available

Available Models:

- **8220-603-NG-12** Natural Gas 12 kW -48 VDC
- **8340-603-NG-15** Natural Gas 15 kW -48 VDC
- **8220-603-LP-12** LPG 12 kW -48 VDC
- **8340-603-LP-15** LPG 15 kW -48 VDC



The concepts and features behind Polar's backup generator for telecommunications include:

SMALL FOOTPRINT. Polar's DC generator is considerably smaller in size than an AC generator. You can now backup sites that could not accommodate an AC generator. Smaller also means less cost for space leasing.

LOW ACOUSTIC NOISE. <59 dBA @ 7 meters, and low vibration so as not to disturb the local residents or building landlords. Quieter than other generators with lower noise ratings.

LIGHTWEIGHT. Up to 1/3 the weight of a comparable AC generator. Facilitates roof top installations.

RODENT RESISTANT. Small animals can quickly destroy a generator set by gnawing on wires, fuel lines, radiator hoses, etc. Cooling air inlets and outlets have perforated aluminum screens to keep small rodents and large insects out. Stainless steel wire braid is placed over fuel and radiator lines for increased reliability and safety.

CORROSION RESISTANT. All-aluminum enclosure with stainless hardware for low maintenance, and long service life.

SUPERCAPACITOR STARTER. Failure to start is the number one problem plaguing generator reliability. Polar's unique design has replaced the starting battery with a Super Capacitor. Capacitors are more reliable and last longer than batteries (10-15 year life).

LONG LIFE. Controls and wire harnesses are designed to exceed a 20 year life. Higher grade, longer life electrical wire (UL 3173), weather tight connectors, gold plated connector pins on signal circuits. Controls and wire harness are easily replaceable.

ADVANCED MONITORING. Remote diagnostics, control, and monitoring. Ethernet and RS232 standard, with optional SNMP.

SIMPLICITY. Transfer switch, rectifier, and starting battery are not required.

COMPARING THE COST OF AC vs DC

	AC	DC
Transfer switch required	Yes	No
Permitting costs	\$\$	\$
Shipping to site and installation cost	\$\$	\$
Site preparation/reinforcing structures	\$\$\$	\$
Ethernet/RS232 remote control and monitoring	Extra	Standard

8220 ALTERNATOR FEATURES

- No mechanical adjustments
- Very lightweight
- High quality electrical output
- Voltage and current regulation
- Up to 94% efficiency
- Class 220° C insulation
- Anodized type III process for aluminum parts
- Nickel plating for steel parts
- Stator is varnished

8220 ALTERNATOR SPECIFICATIONS

Type	Permanent Magnets, NdFeB
Weight (lb/kg)	46.5/21
Regulation Type	Variable engine speed
Stator	3 phase/32 poles
Overcurrent Protection (A)	12 kW - 250 15 kW - 350
Disconnect Means	Pull fuse block, sized for each generator kW
Voltage Range (VDC)	44 to 62
Alternator Exhaust Flow (cfm/cmm)	130 to 180 / 3.68 to 5.1
MTBF (hr)	100,000+

ENCLOSURE

Model	88-25-0603
Type	Weather Protective
Materials	Marine Grade Aluminum
Door Hardware	Three Point with Padlock Hasp, and Removable Side Panels
Mounting	Secure Mounting Tabs

WEIGHTS AND DIMENSIONS

	Natural Gas	LPG
Dry Weight (lb/kg)	765/347	770/350
Dimensions (LxWxH) (in/cm)	32 x 50 x 72 / 81.3 x 127 x 183	

PERMITTING IS FACILITATED

- Small engine horsepower
- DC generator is fully isolated from the utility grid
- No transfer switch
- Low acoustic noise
- Incorporates all requirements made by local Fire Marshals

STARTER SUPERCAPACITOR SPECIFICATIONS

Model	20-16-0001
Storage Rating (Farads)	500
Voltage (VDC)	13-14.4
Weight (lb/kg)	12.1/5.5
Operating Temperature (°C/°F)	-40 to 65 / -40 to 149
Service Life (year)	10 to 15

CHARGER SPECIFICATIONS

Model	00-10-0015
Input Voltage (VDC)	28.8 to 60
Output Voltage (VDC)	14 to 14.4
Recharge time from 0 VDC (min)	10
Recharge time from 8 VDC (min)	2
Weight (lb/kg)	2.2/1

SOUND EMISSIONS

Contact us for current sound data.

ENGINE SPECIFICATIONS: 12 - 15 KW NATURAL GAS and LPG

Engine Model	Natural Gas - Kubota DG972 LPG - Kubota WG972
Cylinders	3 In-line
Displacement (L)	0.962
Bore (in./mm)	2.93/74.5
Stroke (in./mm)	2.9/73.6
Intake Air System	Naturally Aspirated
Engine HP	18
Emissions Compliance	EPA and CARB Certified
Variable RPM	2300 to 3150

ENVIRONMENTAL

Operating Temperature (°C/°F)	-40 to 72 or -40 to 162
Operating Humidity %	100
Cold Start Aids	Glow Plugs

PROPANE ENGINE FUEL CONSUMPTION

	Output (kW)	gal/hr	L/hr
Kubota 972	4	0.97	3.67
	5	1.1	4.16
	6	1.26	4.77
	7	1.475	5.58
	8	1.69	6.4
	9	1.945	7.36
	10	2.2	8.33
	12	2.52	9.54
	15	3.55	13.44

ENGINE LUBRICATION SYSTEM

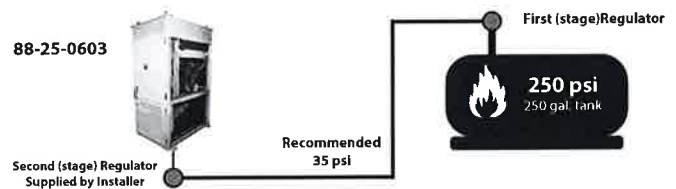
Oil Filter Type	Full flow spin-on canister
Oil Capacity	3.7 L - DG972/WG972
Oil Pressure Switch	Yes
Oil Pressure Transducer	Optional

ENGINE COOLING SYSTEM

Type	Pressurized Aluminum Radiator
Water Pump	Belt-driven, Pre-lubed, self-sealing
Fan Type	Electric Fans
Airflow CFM or M³/hr	1300 or 2200
Fan Mode	Pusher
Temperature Switch	Yes

FUEL SYSTEM

Type	Natural Gas or Propane
Fuel Tank/Line	Supplied By Customer
Max Fuel Flow Rate (BTU/hr)	12 kW - 241,000 15 kW - 340,000



Pressure Chart

Minimum	Recommended	Maximum
0.14 psi	0.39 psi	0.5 psi
4 in H2O	11 in H2O	13.9 in H2O
10 mbar	27.4 mbar	34.5 mbar

POWER ADJUSTMENT FOR AMBIENT CONDITIONS

Temperature Deration	1% derate for every 5.6 °C (10 °F) above 25 °C (77 °F)
Altitude Deration	3% derate for every 300 m (1000 ft) above 91 m (300 ft)

ENGINE COOLING

	Natural Gas	LPG
System coolant capacity (gal/L)	2.2/8.3	
Maximum operation air temperature on radiator (°C/°F)	54/129	
Maximum ambient temperature (°C/°F)	49/120	

COMBUSTION REQUIREMENTS

	Natural Gas	LPG
Flow at rated power (cfm/cmm)	47/1.34	

EXHAUST

	Natural Gas	LPG
Exhaust flow at rated output (cfm/cmm)	90/2.55	
Exhaust temperature at rated output (°C/°F)	480/900	

CONTROLLER FEATURES

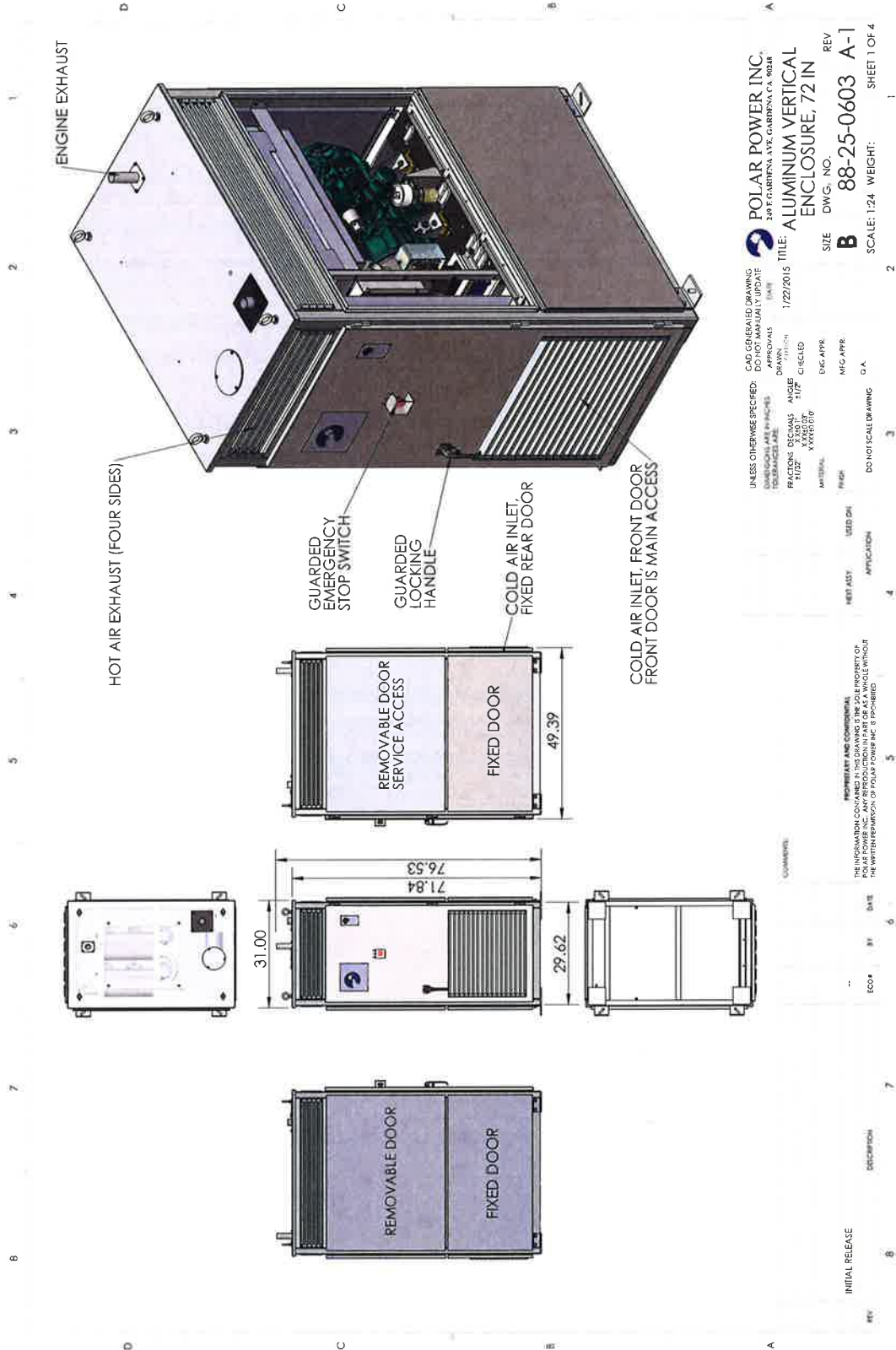
- Controller Type.....Supra Model 250
- 4-Line Plain Text LCD Display.....Simple user interface for ease of operation
- Engine Run Hours Indication.....Standard
- Programmable Start Delay.....Standard
- Run/Alarm/Maintenance Logs.....Standard
- Engine Start Sequence.....Cyclic cranking: 5 sec on, 45 sec rest (3 attempts maximum)
- Starter Supercapacitor Charger.....Standard
- Automatic Voltage Regulation with Over and Under Voltage Protection.....Standard
- Automatic Low Oil Pressure/High Oil Temperature Shutdown.....Standard
- Overcrank/Overspeed.....Standard
- Automatic High Engine Temperature Shutdown.....Standard
- Field Upgradeable Firmware.....Standard
- Glow Plug DelayAutomatic With Temperature
- Engine Start Delay.....Adjustable, Set at 60 sec
- Return to Utility Delay.....Adjustable, Set at 60 sec
- Engine Cooldown.....Adjustable, Set at 60 sec
- Exerciser.....Programmable, weekly/bi-weekly

WARNING ALARMS

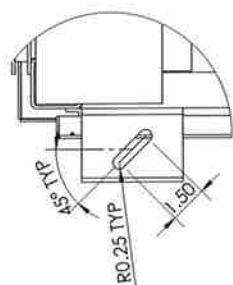
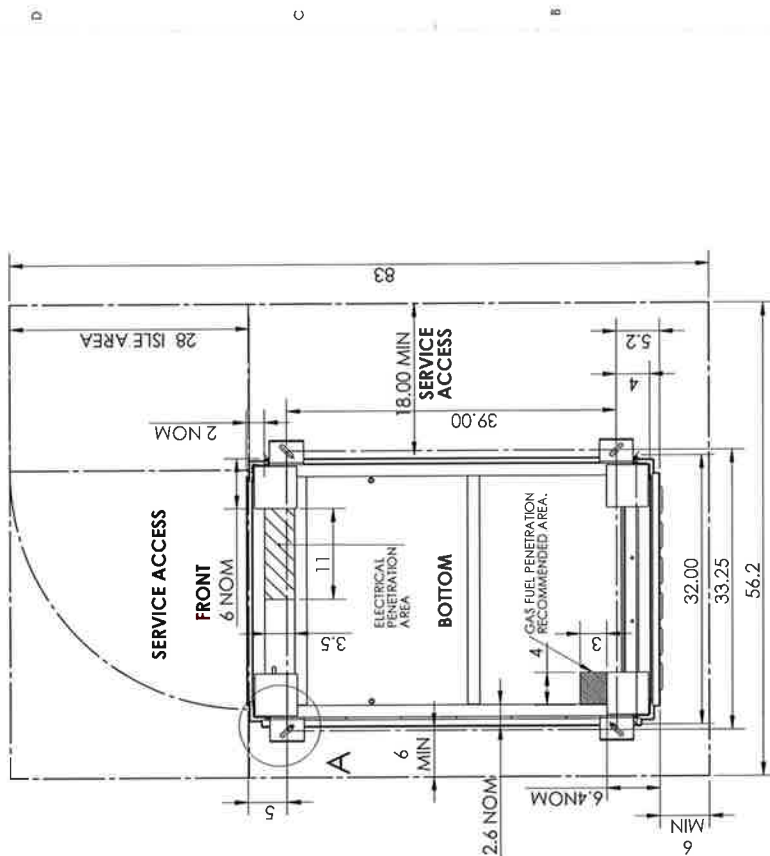
- Low Diesel Fuel Level.....Standard
- Diesel Fuel Tank Rapture Basin.....Standard
- Low/High Supercapacitor Voltage.....Standard
- High Water Temperature.....Standard
- Low Oil Pressure.....Standard

CONTACT CLOSURE FOR REMOTE INDICATION (PN 84-12-0640)

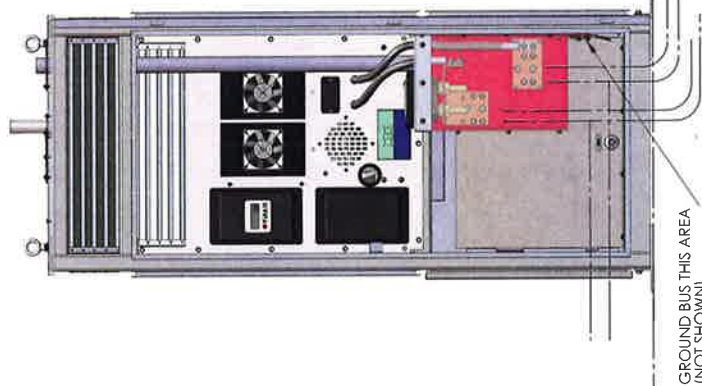
- Shutdown Alarm.....Optional
- Warning Alarm.....Optional
- Engine Run.....Optional
- Low Diesel Fuel Level.....Optional
- Diesel Fuel Leak.....Optional
- E-Stop Depressed.....Optional
- Fuel Level Over 90%.....Optional



INSTALLATION FOOTPRINT, BOTTOM VIEW



DETAIL A
SCALE 1:4



TYP ELECTRICAL PENETRATION

FRONT DOOR
REMOVED
FOR CLARITY

UNLESS OTHERWISE SPECIFIED:
 CAD GENERATED DRAWING DO NOT MANUALLY UPDATE
 DIMENSIONS ARE PER IEC APPROVALS TO THE DATE 1/22/2015
 PROJECT: 8220-603 1/22/2015
 DRAWING NO: 8220-603-0122 CHECKED: X2008107
 MATERIAL: ALUMINUM
 FINISH: ANODIZED
 DO NOT SCALE DRAWING O.A.
 NEXT ASY: USED ON: APPLICATION: SCALE: 1:24 WEIGHT: SHEET 2 OF 4

POLAR POWER INC.
 249 E. GARDENA AVE. GARDENA, CA 90248
 TITLE: ALUMINUM VERTICAL ENCLOSURE, 72 IN
 DWG. NO. 88-25-0603 A-1
 REV. 1

INITIAL RELEASE

ATTACHMENT 4



AMERICAN TOWER®
CORPORATION

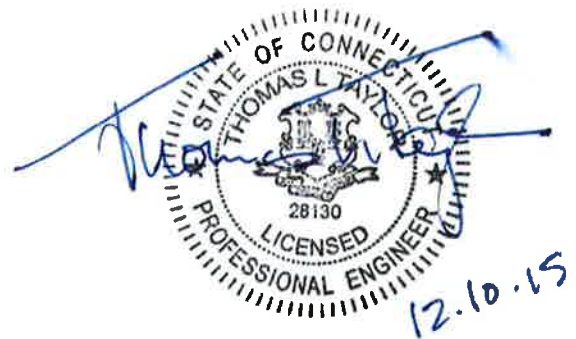
This report was prepared for American Tower Corporation by



Structural Analysis Report

Structure : 180 ft Monopole
ATC Site Name : Colchester CT 6, CT
ATC Site Number : 302465
Engineering Number : 542622210
Proposed Carrier : Verizon Wireless
Carrier Site Name : Colchester South 2 CT
Carrier Site Number : 273484
Site Location : 355 Route 85
Colchester, CT
41.54481944, -72.30489167
County : New London
Date : December 9, 2015
Max Usage : 88%
Result : Pass

Mitchell Gocke
SES Structural Engineer





AMERICAN TOWER®
CORPORATION

This report was prepared for American Tower Corporation by



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Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 180 ft monopole to reflect the change in loading by Verizon Wireless.

Supporting Documents

Tower Drawings	Valmont order # 17494-98, dated June 8, 1998
Foundation Drawing	Valmont drawing # 17494-S-01 dated July 10, 1998
Geotechnical Report	Tectonic Engineering Consultants W.O. 1170.C877 dated June 5, 1998

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/EIA-222.

Basic Wind Speed:	85 mph (Fastest Mile)
Basic Wind Speed w/ Ice:	74 mph (Fastest Mile)w/ 1/2" radial ice concurrent
Code:	ANSI/TIA/EIA-222-F / 2003 IBC , Sec. 1609.1.1, Exception (5) & Sec. 3108.4 w/ 2005 CT Supplement & 2013 CT Amendment

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.



Existing and Reserved Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
180.0	-	-	-	-	(15) 1 5/8" Coax	Sprint Nextel
177.0	177.0	9	Generic 48" x 12" Panel	T-Arms	-	
		3	Generic 72" x 12" x 7" Panel			
169.0	169.0	2	Diamond X50A	Standoff Mounts	(2) 1/2" Coax	Senet
150.0	152.0	6	LGP LGP21903	Low Profile Platform	(12) 1 1/4" Coax (2) 8 AWG 2C (1) 1.3" Hybrid	AT&T Mobility
	149.0	6	Ericsson RRUS-11 800MHz			
	152.0	6	Powerwave LGP21401			
		6	Powerwave 7770.00			
	151.0	1	KMW AM-X-CD-16-65-00T-RET			
		2	Powerwave P65-17-XLH-RR			
	150.0	1	Raycap DC6-48-60-18-8F			

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
No loading considered as to be removed						

Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
161.0	161.0	3	Alcatel-Lucent RRH2x60-AWS	Existing Low Profile Platform	(2) 1 5/8" Coax	Verizon
		3	Alcatel-Lucent RRH2x60 700			
		1	RFS DB-T1-6Z-8AB-OZ			
		3	Commscope HBXX-6517DS-VTM			
		3	Commscope HBXX-6516DS-VTM			
		6	Commscope LNX-6514DS-VTM			

¹Mount elevation is defined as height above bottom of steel structure to the bottom of mount, RAD elevation is defined as center of antenna above ground level (AGL).

Install proposed coax inside the pole shaft.



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	77%	Pass
Shaft	88%	Pass
Base Plate	62%	Pass

Foundations

Reaction Component	Original Design Reactions	Analysis Reactions	% of Design
Moment (Kips-Ft)	4,932.4	4,504.9	91%
Shear (Kips)	41.5	39.0	94%

The structure base reactions resulting from this analysis are acceptable when compared to those shown on the original structure drawings, therefore no modification or reinforcement of the foundation will be required.

Deflection and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
161.0	RFS DB-T1-6Z-8AB-0Z	Verizon Wireless	2.708	2.067
	Alcatel-Lucent RRH2x60-AWS			
	Alcatel-Lucent RRH2x60 700			
	Commscope HBXX-6517DS-VTM			

*Deflection and Sway was evaluated considering a design wind speed of 50 mph (Fastest Mile) per ANSI/TIA/EIA-222-F.



Standard Conditions

All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.

- Information from drawings in the possession of Semaan Engineering Solutions, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to Semaan Engineering Solutions Holdings and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and that their capacity has not significantly changed from the "as new" condition.

Unless explicitly agreed by both the client and Semaan Engineering Solutions, all services will be performed in accordance with the current revision of ANSI/TIA -222. The design basic wind speed will be determined based on the minimum basic wind speed as prescribed in ANSI/TIA-222. Although every effort is taken to ensure that the loading considered is adequate to meet the requirements of all applicable regulatory entities, we can provide no assurance to meet any other local and state codes or requirements. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement.

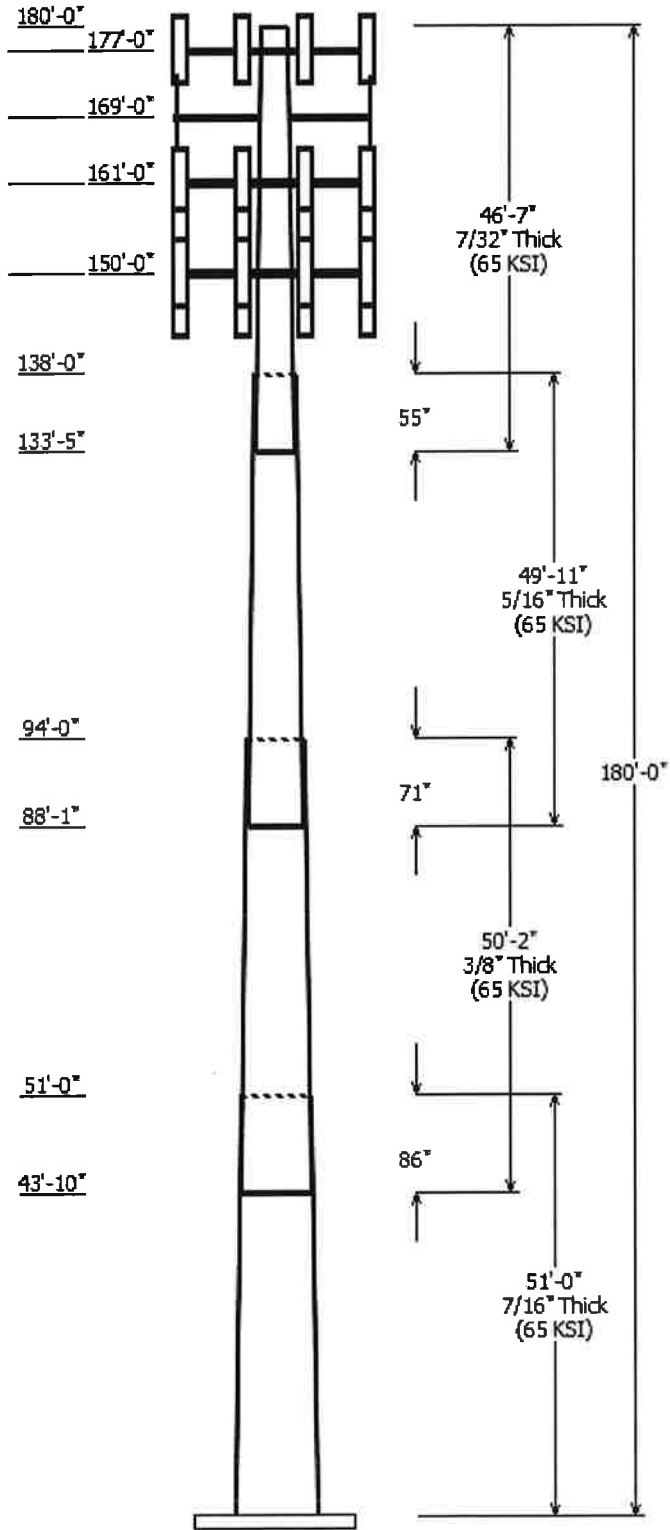
All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Semaan Engineering Solutions Holdings is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

SEMAAN ENGINEERING SOLUTIONS, LLC

1079 N.205th Street
 Elkhorn, NE 68022
 Phone: 402-289-1888
 Fax: 402-289-1861

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Job Information	
Pole :	302465
Code:	TIA/EIA-222-F
Description :	180 ft Valmont Monopole verified 10-16-12 JK
Client :	VERIZON WIRELESS
Location :	Colchester CT 6, CT
Shape :	12 Sides
Height :	180.00 (ft)
Base Elev (ft):	0.00
Taper:	0.26080(in/ft)



Sections Properties								
Shaft Section	Length (ft)	Diameter (in)		Thick Joint (in)	Type	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)
		Across Top	Flats Bottom					
1	51.000	50.69	64.00	0.438		0.000	0.260800	65
2	50.167	40.23	53.31	0.375	Slip Joint	86.000	0.260800	65
3	49.917	29.38	42.40	0.313	Slip Joint	71.000	0.260800	65
4	46.583	18.86	31.01	0.219	Slip Joint	55.000	0.260800	65

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
177.000	177.000	3	T-Arms
177.000	177.000	3	Generic 72" x 12" x 7" Panel
177.000	177.000	9	Generic 48" x 12" Panel
169.000	169.000	2	Standoff Mounts
169.000	169.000	2	Diamond X50A
161.000	161.000	6	Commscope LNX-6514DS-VTM
161.000	161.000	3	Commscope HBXX-6516DS-
161.000	161.000	3	Commscope HBXX-6517DS-
161.000	161.000	3	Alcatel-Lucent RRH2x60 700
161.000	161.000	3	Alcatel-Lucent RRH2x60-AWS
161.000	161.000	1	Low Profile Platform
161.000	161.000	1	RFS DB-T1-6Z-8AB-0Z
150.000	151.000	6	Powerwave 7770.00
150.000	151.000	1	KMW AM-X-CD-16-65-00T-RET
150.000	150.000	1	Low Profile Platform
150.000	151.000	2	Powerwave P65-17-XLH-RR
150.000	149.000	6	Ericsson RRUS-11 800 MHz
150.000	152.000	6	Powerwave LGP21401
150.000	150.000	1	Raycap DC6-48-60-18-8F
150.000	152.000	6	LGP Allgon LGP21903

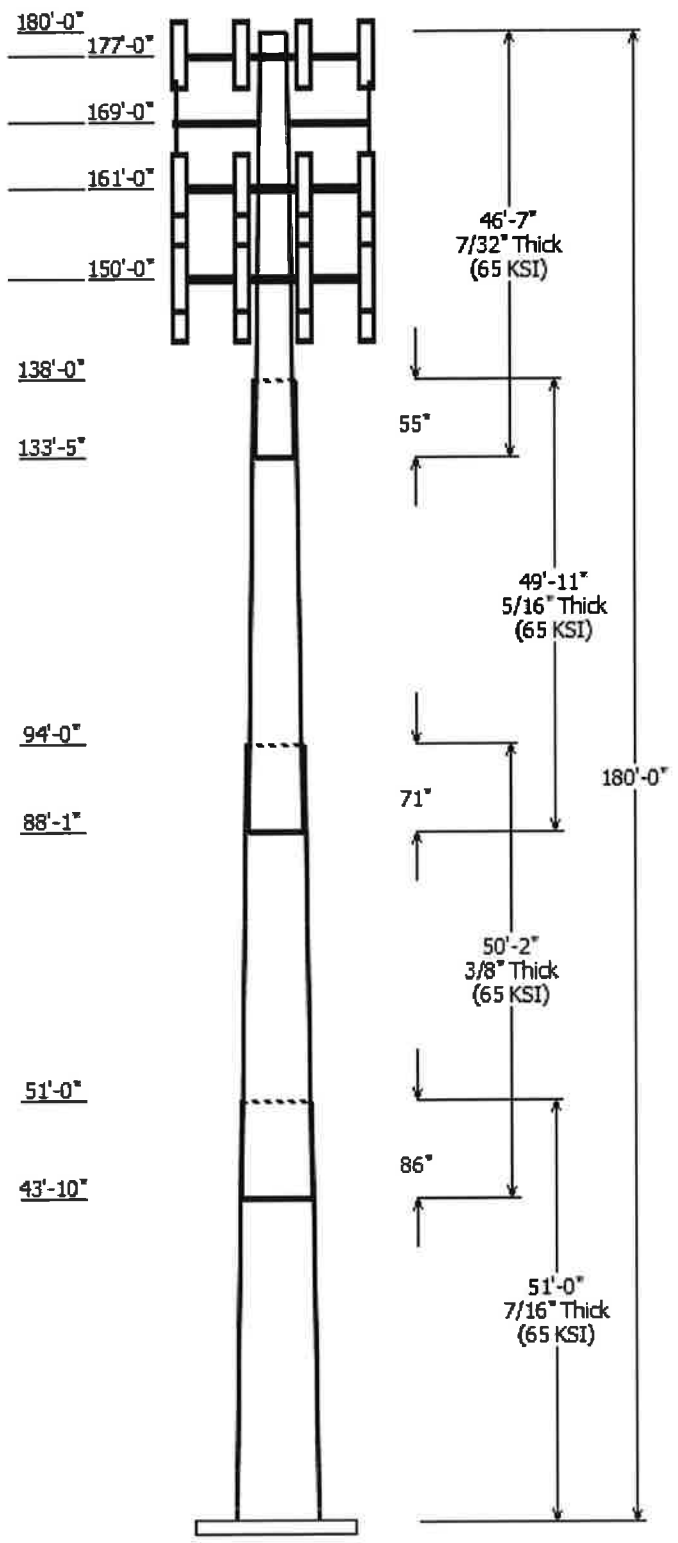
Linear Appurtenance				
Elev (ft)	From	To	Description	Exposed To Wind
0.000	0.000	150.0	1 1/4" Coax	No
0.000	0.000	150.0	1.3" Hybrid	No
0.000	0.000	150.0	8 AWG 2C	No
0.000	0.000	161.0	1 5/8" Coax	No
0.000	0.000	169.0	1/2" Coax	No
0.000	0.000	180.0	1 5/8" Coax	No

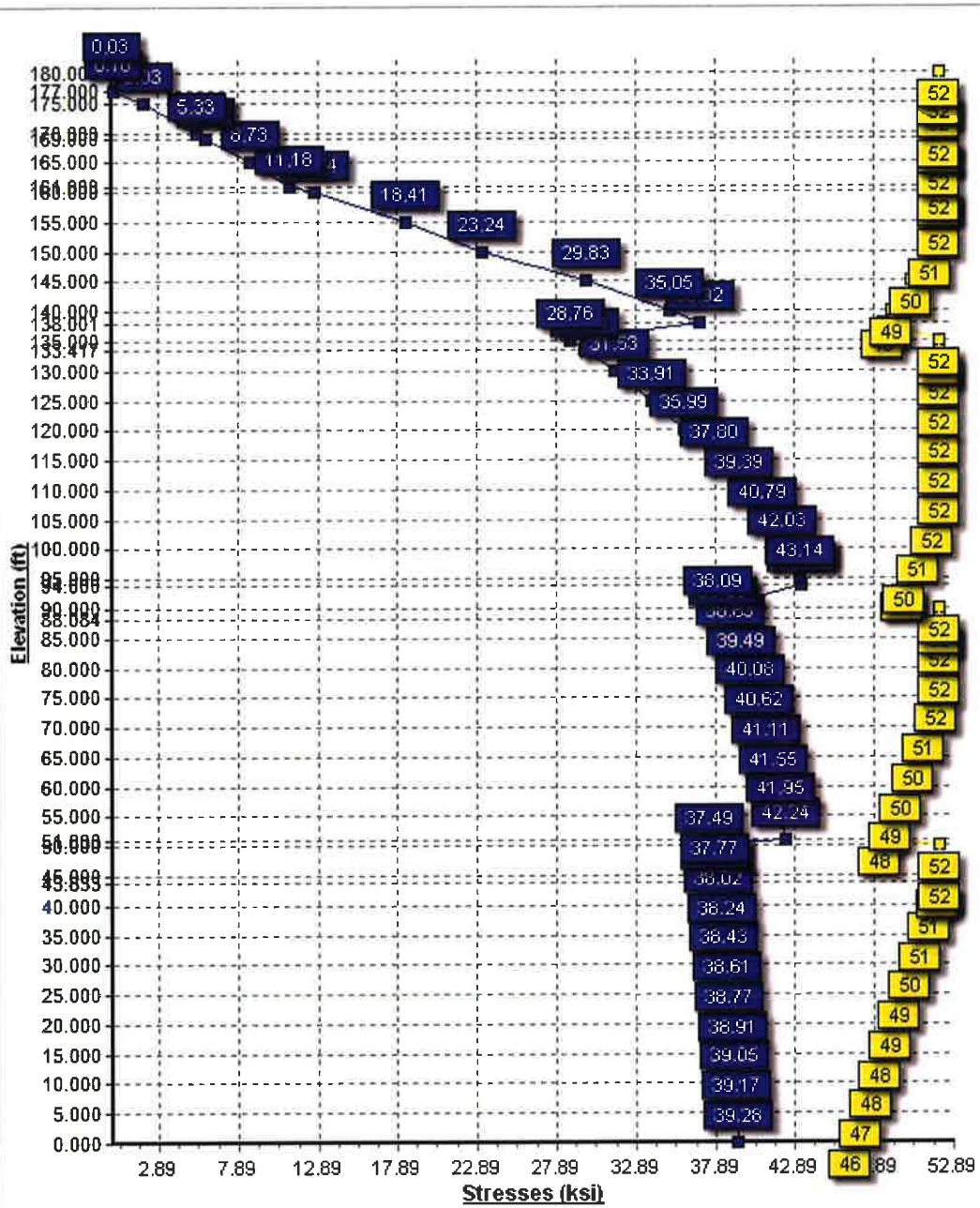
Load Cases	
No Ice	85.00 mph Wind with No Ice
Ice	73.61 mph Wind with Ice
Twist/Sway	50.00 mph Wind with No Ice

Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)

No Ice	4504.87	38.98	41.53
Ice	3652.27	30.91	48.38
Twist/Sway	1560.52	13.49	41.57

Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
	0.00	0.000	0.000





Site Number: 302465

Code: TIA/EIA-222-F

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Site Name: Colchester CT 6, CT

Engineering Number: 542622210

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Customer: VERIZON WIRELESS

Analysis Parameters

Location:	New London County, CT	Height (ft):	180
Code:	TIA/EIA-222-F	Base Diameter (in):	64.00
Shape:	12 Sides	Top Diameter (in):	18.87
Pole Type:	Taper	Taper (in/ft) :	0.261
Pole Manufacturer:	Valmont		

Load Cases

No Ice	85.00 mph Wind with No Ice
Ice	73.61 mph Wind with Ice
Twist/Sway	50.00 mph Wind with No Ice

Site Number: 302465

Code: TIA/EIA-222-F

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Site Name: Colchester CT 6, CT

Engineering Number: 542622210

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Customer: VERIZON WIRELESS

Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint Len (in)	Weight (lb)	Bottom						Top						
							Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Taper (in/ft)
1-12	51.000	0.4375	65		0.00	13,914	64.00	0.00	89.54	46176.7	37.05	146.29	50.69	51.00	70.81	22831.3	28.91	115.88	0.260800
2-12	50.167	0.3750	65	Slip	86.00	9,565	53.31	43.83	63.93	22872.0	35.95	142.18	40.23	94.00	48.13	9760.5	26.61	107.29	0.260800
3-12	49.917	0.3125	65	Slip	71.00	6,081	42.40	88.08	42.35	9577.1	34.21	135.69	29.38	138.00	29.25	3155.8	23.05	94.03	0.260800
4-12	46.583	0.2188	65	Slip	55.00	2,761	31.01	133.42	21.70	2627.1	35.84	141.76	18.86	180.00	13.14	583.3	20.96	86.24	0.260800
Shaft Weight						32,321													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	No Ice			Ice			Distance From Face (ft)	Vert Ecc (ft)
			Weight (lb)	EPAA (sf)	Orientation Factor	Weight (lb)	EPAA (sf)	Orientation Factor		
177.00	Generic 48" x 12" Panel	9	30.00	5.600	0.75	63.00	6.190	0.75	0.000	0.000
177.00	Generic 72" x 12" x 7" Panel	3	45.00	8.400	0.75	87.00	9.230	0.75	0.000	0.000
177.00	T-Arms	3	250.00	9.700	0.75	314.00	12.100	0.75	0.000	0.000
169.00	Diamond X50A	2	2.30	1.120	1.00	57.20	1.630	1.00	0.000	0.000
169.00	Standoff Mounts	2	150.00	5.200	1.00	175.00	5.900	1.00	0.000	0.000
161.00	Alcatel-Lucent RRH2x60 700	3	56.70	2.510	0.67	67.60	2.550	0.67	0.000	0.000
161.00	Alcatel-Lucent RRH2x60-AWS	3	44.00	2.190	0.67	61.40	2.870	0.67	0.000	0.000
161.00	Commscope HBXX-6516DS-	3	30.60	5.930	0.81	41.00	6.670	0.81	0.000	0.000
161.00	Commscope HBXX-6517DS-	3	43.00	8.730	0.81	41.00	6.670	0.81	0.000	0.000
161.00	Commscope LNX-6514DS-	6	38.80	8.410	0.71	71.30	8.310	0.71	0.000	0.000
161.00	Low Profile Platform	1	1500.00	26.100	1.00	1,700.00	31.600	1.00	0.000	0.000
161.00	RFS DB-T1-6Z-8AB-0Z	1	44.00	5.600	1.00	144.50	6.080	1.00	0.000	0.000
150.00	Ericsson RRUS-11 800 MHz	6	54.00	2.940	0.67	75.64	3.290	0.67	0.000	-1.000
150.00	KMW AM-X-CD-16-65-00T-	1	33.00	6.620	1.00	95.00	9.080	1.00	0.000	1.000
150.00	LGP Allgon LGP21903	6	5.50	0.270	0.50	7.90	0.380	0.50	0.000	2.000
150.00	Low Profile Platform	1	1500.00	21.700	1.00	1,700.00	27.200	1.00	0.000	0.000
150.00	Powerwave 7770.00	6	35.00	5.880	0.75	67.63	6.530	0.75	0.000	1.000
150.00	Powerwave LGP21401	6	14.10	1.290	0.50	21.26	1.530	0.50	0.000	2.000
150.00	Powerwave P65-17-XLH-RR	2	59.00	11.460	0.80	121.00	12.390	0.80	0.000	1.000
150.00	Raycap DC6-48-60-18-8F	1	20.00	1.260	1.00	35.10	1.460	1.00	0.000	0.000
Totals		68	6081.90			8,246.38			Number of Loadings : 20	

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Qty	Description	No Ice		Ice		Exposed To Wind
				Weight (lb/ft)	CaAa (sf/ft)	Weight (lb/ft)	CaAa (sf/ft)	
0.00	180.00	15	1 5/8" Coax	15.00	0.00	0.00	0.00	N
0.00	169.00	2	1/2" Coax	0.30	0.00	0.00	0.00	N
0.00	161.00	2	1 5/8" Coax	0.82	0.00	0.00	0.00	N
0.00	150.00	12	1 1/4" Coax	0.63	0.00	0.00	0.00	N
0.00	150.00	1	1.3" Hybrid	1.00	0.00	0.00	0.00	N
0.00	150.00	2	8 AWG 2C	0.31	0.00	0.00	0.00	N
Total Weight				3,173.72 (lb)		0.00 (lb)		

Site Number: 302465

Code: TIA/EIA-222-F

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Site Name: Colchester CT 6, CT

Engineering Number: 542622210

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Customer: VERIZON WIRELESS

Segment Properties (Max Len : 5.ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Fa (ksi)	Weight (lb)
0.00		0.4375	64.000	89.544	46,176.7	37.05	146.29	65	46	0	0.0
5.00		0.4375	62.696	87.707	43,392.6	36.25	143.31	65	47	0	1,507.9
10.00		0.4375	61.392	85.870	40,722.8	35.46	140.32	65	48	0	1,476.6
15.00		0.4375	60.088	84.033	38,164.7	34.66	137.34	65	48	0	1,445.3
20.00		0.4375	58.784	82.196	35,716.1	33.86	134.36	65	49	0	1,414.1
25.00		0.4375	57.480	80.359	33,374.6	33.06	131.38	65	49	0	1,382.8
30.00		0.4375	56.176	78.522	31,137.6	32.26	128.40	65	50	0	1,351.6
35.00		0.4375	54.872	76.685	29,003.0	31.46	125.42	65	51	0	1,320.3
40.00		0.4375	53.568	74.848	26,968.2	30.66	122.44	65	51	0	1,289.1
43.83	Bot - Section 2	0.4375	52.568	73.439	25,474.3	30.05	120.16	65	52	0	967.1
45.00		0.4375	52.264	73.011	25,030.8	29.87	119.46	65	52	0	543.8
50.00		0.4375	50.960	71.174	23,188.6	29.07	116.48	65	52	0	2,294.6
51.00	Top - Section 1	0.3750	51.449	61.672	20,534.2	34.62	137.20	65	48	0	452.0
55.00		0.3750	50.406	60.412	19,301.5	33.87	134.42	65	49	0	830.9
60.00		0.3750	49.102	58.838	17,831.3	32.94	130.94	65	50	0	1,014.5
65.00		0.3750	47.798	57.263	16,437.7	32.01	127.46	65	50	0	987.7
70.00		0.3750	46.494	55.689	15,118.6	31.08	123.98	65	51	0	960.9
75.00		0.3750	45.190	54.114	13,872.1	30.15	120.51	65	52	0	934.1
80.00		0.3750	43.886	52.540	12,696.1	29.21	117.03	65	52	0	907.3
85.00		0.3750	42.582	50.965	11,588.5	28.28	113.55	65	52	0	880.5
88.08	Bot - Section 3	0.3750	41.778	49.994	10,938.6	27.71	111.41	65	52	0	529.7
90.00		0.3750	41.278	49.390	10,547.2	27.35	110.07	65	52	0	598.6
94.00	Top - Section 2	0.3125	40.860	40.801	8,562.0	32.89	130.75	65	50	0	1,226.3
95.00		0.3125	40.599	40.538	8,397.9	32.67	129.92	65	50	0	138.3
100.0		0.3125	39.295	39.226	7,608.5	31.55	125.74	65	51	0	678.6
105.0		0.3125	37.991	37.914	6,870.3	30.43	121.57	65	52	0	656.2
110.0		0.3125	36.687	36.602	6,181.3	29.31	117.40	65	52	0	633.9
115.0		0.3125	35.383	35.290	5,540.1	28.20	113.23	65	52	0	611.6
120.0		0.3125	34.079	33.978	4,944.8	27.08	109.05	65	52	0	589.3
125.0		0.3125	32.775	32.665	4,393.8	25.96	104.88	65	52	0	566.9
130.0		0.3125	31.471	31.353	3,885.3	24.84	100.71	65	52	0	544.6
133.4	Bot - Section 4	0.3125	30.580	30.456	3,561.3	24.08	97.86	65	52	0	359.4
135.0		0.3125	30.167	30.041	3,417.6	23.72	96.53	65	52	0	279.0
138.0	Top - Section 3	0.2188	29.822	20.857	2,333.0	34.38	136.30	65	48	0	518.5
140.0		0.2188	29.301	20.489	2,211.8	33.74	133.92	65	49	0	140.6
145.0		0.2188	27.997	19.570	1,927.4	32.14	127.96	65	50	0	340.8
150.0		0.2188	26.693	18.652	1,668.5	30.54	122.00	65	51	0	325.2
155.0		0.2188	25.389	17.733	1,433.9	28.95	116.04	65	52	0	309.5
160.0		0.2188	24.085	16.814	1,222.4	27.35	110.08	65	52	0	293.9
161.0		0.2188	23.824	16.631	1,182.8	27.03	108.88	65	52	0	56.9
165.0		0.2188	22.781	15.896	1,032.8	25.75	104.12	65	52	0	221.4
169.0		0.2188	21.737	15.161	896.0	24.48	99.35	65	52	0	211.4
170.0		0.2188	21.477	14.977	863.9	24.16	98.16	65	52	0	51.3
175.0		0.2188	20.173	14.058	714.4	22.56	92.20	65	52	0	247.0
177.0		0.2188	19.651	13.691	659.9	21.92	89.81	65	52	0	94.4
180.0		0.2188	18.869	13.139	583.3	20.96	86.24	65	52	0	136.9
											32,320.9

Load Case: No Ice

85.00 mph Wind with No Ice

25 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion Moment MY (lb-ft)	Torsion Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion Moment MY (lb-ft)	Torsion Moment MZ (lb)
0.00		424.9	0.0					0.0	0.0	424.9	0.0	0.0	0.0
5.00		841.1	1,507.9					0.0	90.3	841.1	1,598.2	0.0	0.0
10.00		823.6	1,476.6					0.0	90.3	823.6	1,566.9	0.0	0.0
15.00		806.1	1,445.3					0.0	90.3	806.1	1,535.6	0.0	0.0
20.00		788.6	1,414.1					0.0	90.3	788.6	1,504.4	0.0	0.0
25.00		771.1	1,382.8					0.0	90.3	771.1	1,473.1	0.0	0.0
30.00		753.6	1,351.6					0.0	90.3	753.6	1,441.9	0.0	0.0
35.00		749.6	1,320.3					0.0	90.3	749.6	1,410.6	0.0	0.0
40.00		669.4	1,289.1					0.0	90.3	669.4	1,379.4	0.0	0.0
43.83	Bot - Section 2	382.8	967.1					0.0	69.2	382.8	1,036.4	0.0	0.0
45.00		480.3	543.8					0.0	21.1	480.3	564.8	0.0	0.0
50.00		467.9	2,294.6					0.0	90.3	467.9	2,384.9	0.0	0.0
51.00	Top - Section 1	391.0	452.0					0.0	18.1	391.0	470.0	0.0	0.0
55.00		704.0	830.9					0.0	72.2	704.0	903.1	0.0	0.0
60.00		781.1	1,014.5					0.0	90.3	781.1	1,104.8	0.0	0.0
65.00		778.0	987.7					0.0	90.3	778.0	1,078.0	0.0	0.0
70.00		773.0	960.9					0.0	90.3	773.0	1,051.2	0.0	0.0
75.00		766.3	934.1					0.0	90.3	766.3	1,024.4	0.0	0.0
80.00		758.0	907.3					0.0	90.3	758.0	997.6	0.0	0.0
85.00		606.6	880.5					0.0	90.3	606.6	970.8	0.0	0.0
88.08	Bot - Section 3	373.7	529.7					0.0	55.7	373.7	585.4	0.0	0.0
90.00		441.6	598.6					0.0	34.6	441.6	633.2	0.0	0.0
94.00	Top - Section 2	371.4	1,226.3					0.0	72.2	371.4	1,298.5	0.0	0.0
95.00		438.9	138.3					0.0	18.1	438.9	156.4	0.0	0.0
100.00		723.5	678.6					0.0	90.3	723.5	768.9	0.0	0.0
105.00		709.3	656.2					0.0	90.3	709.3	746.5	0.0	0.0
110.00		694.1	633.9					0.0	90.3	694.1	724.2	0.0	0.0
115.00		678.0	611.6					0.0	90.3	678.0	701.9	0.0	0.0
120.00		661.0	589.3					0.0	90.3	661.0	679.6	0.0	0.0
125.00		643.2	566.9					0.0	90.3	643.2	657.2	0.0	0.0
130.00		528.2	544.6					0.0	90.3	528.2	634.9	0.0	0.0
133.42	Bot - Section 4	308.9	359.4					0.0	61.7	308.9	421.1	0.0	0.0
135.00		280.1	279.0					0.0	28.6	280.1	307.6	0.0	0.0
138.00	Top - Section 3	302.0	518.5					0.0	54.2	302.0	572.7	0.0	0.0
140.00		411.4	140.6					0.0	36.1	411.4	176.8	0.0	0.0
145.00		573.2	340.8					0.0	90.3	573.2	431.1	0.0	0.0
150.00	Appertunance(s)	551.8	325.2	4,382.6	0.0	2,366.1	2,322.6	0.0	90.3	4,934.4	2,738.1	0.0	0.0
155.00		529.8	309.5					0.0	80.6	529.8	390.1	0.0	0.0
160.00		309.8	293.9					0.0	80.6	309.8	374.5	0.0	0.0
161.00	Appertunance(s)	247.8	56.9	5,535.5	0.0	0.0	2,299.7	0.0	16.1	5,783.3	2,372.7	0.0	0.0
165.00		387.2	221.4					0.0	61.2	387.2	282.6	0.0	0.0
169.00	Appertunance(s)	236.1	211.4	630.1	0.0	0.0	304.6	0.0	61.2	866.2	577.2	0.0	0.0
170.00		270.3	51.3					0.0	15.0	270.3	66.3	0.0	0.0
175.00		310.2	247.0					0.0	75.0	310.2	322.0	0.0	0.0
177.00	Appertunance(s)	211.7	94.4	3,966.3	0.0	0.0	1,155.0	0.0	30.0	4,178.1	1,279.4	0.0	0.0
180.00		125.6	136.9					0.0	45.0	125.6	181.9	0.0	0.0

Site Number: 302465

Code: TIA/EIA-222-F

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Site Name: Colchester CT 6, CT

Engineering Number: 542622210

12/9/2015 3:38:59 PM

Customer: VERIZON WIRELESS

Load Case: No Ice

85.00 mph Wind with No Ice

25 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Totals: 39,350.4 41,576.5 0.00 0.00

Site Number: 302465

Code: TIA/EIA-222-F

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Site Name: Colchester CT 6, CT

Engineering Number: 542622210

12/9/2015 3:38:59 PM

Customer: VERIZON WIRELESS

Load Case: No Ice

85.00 mph Wind with No Ice

25 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Calculated Shaft Forces and Deflections

Seg Elev (ft)	Lateral FX (-) (kips)	Axial FY (-) (kips)	Lateral FZ (kips)	Moment MX (ft-kips)	Torsion MY (ft-kips)	Moment MZ (ft-kips)	X Deflect (in)	Z Deflect (in)	Total Deflect (in)	Rotation (deg)
0.00	-38.975	-41.529	0.000	0.000	0.000	-4,504.875	0.000	0.000	0.000	0.000
5.00	-38.228	-39.840	0.000	0.000	0.000	-4,310.002	-0.073	0.000	0.073	-0.136
10.00	-37.491	-38.185	0.000	0.000	0.000	-4,118.867	-0.290	0.000	0.290	-0.274
15.00	-36.767	-36.564	0.000	0.000	0.000	-3,931.413	-0.653	0.000	0.653	-0.415
20.00	-36.054	-34.975	0.000	0.000	0.000	-3,747.583	-1.165	0.000	1.165	-0.558
25.00	-35.352	-33.420	0.000	0.000	0.000	-3,567.318	-1.827	0.000	1.827	-0.703
30.00	-34.662	-31.898	0.000	0.000	0.000	-3,390.560	-2.644	0.000	2.644	-0.852
35.00	-33.971	-30.410	0.000	0.000	0.000	-3,217.251	-3.617	0.000	3.617	-1.003
40.00	-33.345	-28.964	0.000	0.000	0.000	-3,047.398	-4.750	0.000	4.750	-1.156
43.83	-32.979	-27.890	0.000	0.000	0.000	-2,919.578	-5.728	0.000	5.728	-1.277
45.00	-32.533	-27.280	0.000	0.000	0.000	-2,881.104	-6.045	0.000	6.045	-1.315
50.00	-32.048	-24.854	0.000	0.000	0.000	-2,718.441	-7.508	0.000	7.508	-1.474
51.00	-31.680	-24.349	0.000	0.000	0.000	-2,686.394	-7.820	0.000	7.820	-1.507
55.00	-31.016	-23.380	0.000	0.000	0.000	-2,559.674	-9.139	0.000	9.139	-1.638
60.00	-30.274	-22.202	0.000	0.000	0.000	-2,404.595	-10.953	0.000	10.953	-1.821
65.00	-29.529	-21.055	0.000	0.000	0.000	-2,253.228	-12.959	0.000	12.959	-2.006
70.00	-28.784	-19.937	0.000	0.000	0.000	-2,105.585	-15.162	0.000	15.162	-2.195
75.00	-28.041	-18.850	0.000	0.000	0.000	-1,961.666	-17.563	0.000	17.563	-2.386
80.00	-27.301	-17.793	0.000	0.000	0.000	-1,821.462	-20.166	0.000	20.166	-2.580
85.00	-26.697	-16.778	0.000	0.000	0.000	-1,684.957	-22.973	0.000	22.973	-2.777
88.08	-26.323	-16.165	0.000	0.000	0.000	-1,602.633	-24.808	0.000	24.808	-2.901
90.00	-25.883	-15.501	0.000	0.000	0.000	-1,552.190	-25.988	0.000	25.988	-2.980
94.00	-25.467	-14.179	0.000	0.000	0.000	-1,448.652	-28.554	0.000	28.554	-3.142
95.00	-25.054	-13.987	0.000	0.000	0.000	-1,423.194	-29.216	0.000	29.216	-3.184
100.0	-24.341	-13.163	0.000	0.000	0.000	-1,297.924	-32.673	0.000	32.673	-3.414
105.0	-23.637	-12.366	0.000	0.000	0.000	-1,176.220	-36.372	0.000	36.372	-3.645
110.0	-22.944	-11.597	0.000	0.000	0.000	-1,058.036	-40.312	0.000	40.312	-3.877
115.0	-22.262	-10.855	0.000	0.000	0.000	-943.317	-44.493	0.000	44.493	-4.107
120.0	-21.593	-10.141	0.000	0.000	0.000	-832.006	-48.915	0.000	48.915	-4.335
125.0	-20.938	-9.455	0.000	0.000	0.000	-724.041	-53.572	0.000	53.572	-4.559
130.0	-20.387	-8.801	0.000	0.000	0.000	-619.353	-58.459	0.000	58.459	-4.776
133.4	-20.060	-8.370	0.000	0.000	0.000	-549.683	-61.929	0.000	61.929	-4.922
135.0	-19.767	-8.055	0.000	0.000	0.000	-517.936	-63.571	0.000	63.571	-4.990
138.0	-19.429	-7.477	0.000	0.000	0.000	-458.622	-66.743	0.000	66.743	-5.112
140.0	-19.025	-7.284	0.000	0.000	0.000	-419.777	-68.899	0.000	68.899	-5.191
145.0	-18.441	-6.836	0.000	0.000	0.000	-324.655	-74.461	0.000	74.461	-5.430
150.0	-13.280	-4.544	0.000	0.000	0.000	-230.087	-80.256	0.000	80.256	-5.636
155.0	-12.725	-4.176	0.000	0.000	0.000	-163.689	-86.244	0.000	86.244	-5.804
160.0	-12.383	-3.819	0.000	0.000	0.000	-100.067	-92.388	0.000	92.388	-5.935
161.0	-6.387	-2.053	0.000	0.000	0.000	-87.684	-93.631	0.000	93.631	-5.956
165.0	-5.974	-1.806	0.000	0.000	0.000	-62.138	-98.645	0.000	98.645	-6.029
169.0	-5.053	-1.321	0.000	0.000	0.000	-38.242	-103.712	0.000	103.712	-6.084
170.0	-4.777	-1.282	0.000	0.000	0.000	-33.190	-104.986	0.000	104.986	-6.095
175.0	-4.435	-0.993	0.000	0.000	0.000	-9.303	-111.380	0.000	111.380	-6.130
177.0	-0.144	-0.167	0.000	0.000	0.000	-0.433	-113.944	0.000	113.944	-6.134
180.0	-0.125	0.000	0.000	0.000	0.000	0.000	-117.791	0.000	117.791	-6.134

Site Number: 302465

Code: TIA/EIA-222-F

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Site Name: Colchester CT 6, CT

Engineering Number: 542622210

12/9/2015 3:38:59 PM

Customer: VERIZON WIRELESS

Load Case: No Ice

85.00 mph Wind with No Ice

25 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Calculated Stresses

Seg Elev (ft)	Applied Stresses							Allowable Stress (Fb) (ksi)	Allowable Stress (Fa) (ksi)	Stress Ratio
	Axial (Y) (ksi)	Shear (X) (ksi)	Shear (Z) (ksi)	Torsion (ksi)	Bending (X) (ksi)	Bending (Z) (ksi)	Combined (ksi)			
0.00	0.46	0.88	0.00	0.00	0.00	38.78	39.28	46.3	0.0	0.848
5.00	0.45	0.89	0.00	0.00	0.00	38.68	39.17	47.0	0.0	0.834
10.00	0.44	0.89	0.00	0.00	0.00	38.57	39.05	47.6	0.0	0.820
15.00	0.44	0.89	0.00	0.00	0.00	38.45	38.91	48.2	0.0	0.807
20.00	0.43	0.89	0.00	0.00	0.00	38.31	38.77	48.8	0.0	0.794
25.00	0.42	0.89	0.00	0.00	0.00	38.16	38.61	49.5	0.0	0.780
30.00	0.41	0.90	0.00	0.00	0.00	38.00	38.43	50.1	0.0	0.767
35.00	0.40	0.90	0.00	0.00	0.00	37.81	38.24	50.7	0.0	0.754
40.00	0.39	0.91	0.00	0.00	0.00	37.60	38.02	51.4	0.0	0.740
43.83	0.38	0.91	0.00	0.00	0.00	37.42	37.84	51.8	0.0	0.730
45.00	0.37	0.91	0.00	0.00	0.00	37.37	37.77	52.0	0.0	0.727
50.00	0.35	0.91	0.00	0.00	0.00	37.11	37.49	52.0	0.0	0.721
51.00	0.39	1.04	0.00	0.00	0.00	41.81	42.24	48.3	0.0	0.875
55.00	0.39	1.04	0.00	0.00	0.00	41.52	41.95	48.8	0.0	0.859
60.00	0.38	1.05	0.00	0.00	0.00	41.13	41.55	49.6	0.0	0.838
65.00	0.37	1.05	0.00	0.00	0.00	40.70	41.11	50.3	0.0	0.817
70.00	0.36	1.05	0.00	0.00	0.00	40.22	40.62	51.0	0.0	0.796
75.00	0.35	1.05	0.00	0.00	0.00	39.69	40.08	51.8	0.0	0.774
80.00	0.34	1.06	0.00	0.00	0.00	39.11	39.49	52.0	0.0	0.759
85.00	0.33	1.06	0.00	0.00	0.00	38.46	38.83	52.0	0.0	0.747
88.08	0.32	1.07	0.00	0.00	0.00	38.02	38.39	52.0	0.0	0.738
90.00	0.31	1.06	0.00	0.00	0.00	37.73	38.09	52.0	0.0	0.733
94.00	0.35	1.27	0.00	0.00	0.00	42.94	43.35	49.6	0.0	0.874
95.00	0.35	1.26	0.00	0.00	0.00	42.74	43.14	49.8	0.0	0.867
100.00	0.34	1.26	0.00	0.00	0.00	41.64	42.03	50.7	0.0	0.830
105.00	0.33	1.27	0.00	0.00	0.00	40.40	40.79	51.5	0.0	0.791
110.00	0.32	1.27	0.00	0.00	0.00	39.01	39.39	52.0	0.0	0.757
115.00	0.31	1.28	0.00	0.00	0.00	37.42	37.80	52.0	0.0	0.727
120.00	0.30	1.29	0.00	0.00	0.00	35.62	35.99	52.0	0.0	0.692
125.00	0.29	1.30	0.00	0.00	0.00	33.55	33.91	52.0	0.0	0.652
130.00	0.28	1.32	0.00	0.00	0.00	31.16	31.53	52.0	0.0	0.606
133.42	0.27	1.34	0.00	0.00	0.00	29.32	29.68	52.0	0.0	0.571
135.00	0.27	1.34	0.00	0.00	0.00	28.40	28.76	52.0	0.0	0.553
138.00	0.36	1.89	0.00	0.00	0.00	36.42	36.92	48.4	0.0	0.762
140.00	0.36	1.89	0.00	0.00	0.00	34.54	35.05	48.9	0.0	0.716
145.00	0.35	1.91	0.00	0.00	0.00	29.29	29.83	50.2	0.0	0.594
150.00	0.24	1.45	0.00	0.00	0.00	22.86	23.24	51.4	0.0	0.452
155.00	0.24	1.46	0.00	0.00	0.00	18.00	18.41	52.0	0.0	0.354
160.00	0.23	1.50	0.00	0.00	0.00	12.25	12.74	52.0	0.0	0.245
161.00	0.12	0.78	0.00	0.00	0.00	10.97	11.18	52.0	0.0	0.215
165.00	0.11	0.76	0.00	0.00	0.00	8.51	8.73	52.0	0.0	0.168
169.00	0.09	0.68	0.00	0.00	0.00	5.76	5.97	52.0	0.0	0.115
170.00	0.09	0.65	0.00	0.00	0.00	5.13	5.33	52.0	0.0	0.103
175.00	0.07	0.64	0.00	0.00	0.00	1.63	2.03	52.0	0.0	0.039
177.00	0.01	0.02	0.00	0.00	0.00	0.08	0.10	52.0	0.0	0.002
180.00	0.00	0.02	0.00	0.00	0.00	0.00	0.03	52.0	0.0	0.001

Site Number: 302465

Code: TIA/EIA-222-F

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Site Name: Colchester CT 6, CT

Engineering Number: 542622210

12/9/2015 3:38:59 PM

Customer: VERIZON WIRELESS

Load Case: Ice

73.61 mph Wind with Ice

25 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		323.7	0.0					0.0	0.0	323.7	0.0	0.0	0.0
5.00		640.8	1,705.7					0.0	90.3	640.8	1,796.0	0.0	0.0
10.00		627.7	1,670.4					0.0	90.3	627.7	1,760.7	0.0	0.0
15.00		614.6	1,635.0					0.0	90.3	614.6	1,725.3	0.0	0.0
20.00		601.5	1,599.7					0.0	90.3	601.5	1,690.0	0.0	0.0
25.00		588.3	1,564.3					0.0	90.3	588.3	1,654.6	0.0	0.0
30.00		575.2	1,529.0					0.0	90.3	575.2	1,619.3	0.0	0.0
35.00		572.4	1,493.7					0.0	90.3	572.4	1,584.0	0.0	0.0
40.00		511.4	1,458.3					0.0	90.3	511.4	1,548.6	0.0	0.0
43.83	Bot - Section 2	292.5	1,094.5					0.0	69.2	292.5	1,163.7	0.0	0.0
45.00		367.1	582.8					0.0	21.1	367.1	603.9	0.0	0.0
50.00		357.6	2,458.0					0.0	90.3	357.6	2,548.3	0.0	0.0
51.00	Top - Section 1	299.0	484.5					0.0	18.1	299.0	502.5	0.0	0.0
55.00		538.5	958.3					0.0	72.2	538.5	1,030.6	0.0	0.0
60.00		597.7	1,169.7					0.0	90.3	597.7	1,260.0	0.0	0.0
65.00		595.7	1,138.9					0.0	90.3	595.7	1,229.2	0.0	0.0
70.00		592.2	1,108.0					0.0	90.3	592.2	1,198.3	0.0	0.0
75.00		587.4	1,077.1					0.0	90.3	587.4	1,167.4	0.0	0.0
80.00		581.5	1,046.2					0.0	90.3	581.5	1,136.5	0.0	0.0
85.00		465.5	1,015.4					0.0	90.3	465.5	1,105.7	0.0	0.0
88.08	Bot - Section 3	286.9	611.3					0.0	55.7	286.9	667.0	0.0	0.0
90.00		339.1	649.5					0.0	34.6	339.1	684.1	0.0	0.0
94.00	Top - Section 2	285.3	1,329.9					0.0	72.2	285.3	1,402.1	0.0	0.0
95.00		337.4	164.1					0.0	18.1	337.4	182.1	0.0	0.0
100.00		556.4	803.1					0.0	90.3	556.4	893.4	0.0	0.0
105.00		545.9	776.7					0.0	90.3	545.9	867.0	0.0	0.0
110.00		534.7	750.3					0.0	90.3	534.7	840.6	0.0	0.0
115.00		522.8	723.9					0.0	90.3	522.8	814.2	0.0	0.0
120.00		510.3	697.5					0.0	90.3	510.3	787.8	0.0	0.0
125.00		497.1	671.1					0.0	90.3	497.1	761.4	0.0	0.0
130.00		408.7	644.7					0.0	90.3	408.7	735.0	0.0	0.0
133.42	Bot - Section 4	239.1	425.9					0.0	61.7	239.1	487.6	0.0	0.0
135.00		217.0	309.8					0.0	28.6	217.0	338.4	0.0	0.0
138.00	Top - Section 3	234.1	575.5					0.0	54.2	234.1	629.7	0.0	0.0
140.00		319.2	177.9					0.0	36.1	319.2	214.1	0.0	0.0
145.00		445.2	430.0					0.0	90.3	445.2	520.3	0.0	0.0
150.00	Appertunance(s)	429.3	410.3	3,830.3	0.0	2,048.7	3,106.7	0.0	90.3	4,259.7	3,607.3	0.0	0.0
155.00		413.0	390.6					0.0	80.6	413.0	471.2	0.0	0.0
160.00		241.8	370.9					0.0	80.6	241.8	451.5	0.0	0.0
161.00	Appertunance(s)	193.8	72.1	4,291.2	0.0	0.0	2,905.3	0.0	16.1	4,485.0	2,993.6	0.0	0.0
165.00		303.1	279.7					0.0	61.2	303.1	340.9	0.0	0.0
169.00	Appertunance(s)	185.1	267.0	563.0	0.0	0.0	464.4	0.0	61.2	748.1	792.6	0.0	0.0
170.00		212.4	65.0					0.0	15.0	212.4	80.0	0.0	0.0
175.00		244.0	311.7					0.0	75.0	244.0	386.7	0.0	0.0
177.00	Appertunance(s)	166.9	119.7	3,400.7	0.0	0.0	1,770.0	0.0	30.0	3,567.7	1,919.7	0.0	0.0
180.00		99.0	173.3					0.0	45.0	99.0	218.3	0.0	0.0

Site Number: 302465

Code: TIA/EIA-222-F

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Site Name: Colchester CT 6, CT

Engineering Number: 542622210

12/9/2015 3:39:00 PM

Customer: VERIZON WIRELESS

Load Case: Ice

73.61 mph Wind with Ice

25 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Totals: 31,183.2 48,411.2 0.00 0.00

Site Number: 302465

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Customer: VERIZON WIRELESS

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73.61 mph Wind with Ice

25 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Calculated Shaft Forces and Deflections

Seg Elev (ft)	Lateral FX (-) (kips)	Axial FY (-) (kips)	Lateral FZ (kips)	Moment MX (ft-kips)	Torsion MY (ft-kips)	Moment MZ (ft-kips)	X Deflect (in)	Z Deflect (in)	Total Deflect (in)	Rotation (deg)
0.00	-30.907	-48.381	0.000	0.000	0.000	-3,652.269	0.000	0.000	0.000	0.000
5.00	-30.354	-46.526	0.000	0.000	0.000	-3,497.739	-0.060	0.000	0.060	-0.110
10.00	-29.810	-44.709	0.000	0.000	0.000	-3,345.970	-0.235	0.000	0.235	-0.222
15.00	-29.273	-42.928	0.000	0.000	0.000	-3,196.923	-0.530	0.000	0.530	-0.337
20.00	-28.745	-41.183	0.000	0.000	0.000	-3,050.558	-0.945	0.000	0.945	-0.453
25.00	-28.224	-39.475	0.000	0.000	0.000	-2,906.837	-1.484	0.000	1.484	-0.572
30.00	-27.712	-37.803	0.000	0.000	0.000	-2,765.718	-2.148	0.000	2.148	-0.693
35.00	-27.197	-36.168	0.000	0.000	0.000	-2,627.162	-2.939	0.000	2.939	-0.816
40.00	-26.730	-34.575	0.000	0.000	0.000	-2,491.179	-3.861	0.000	3.861	-0.941
43.83	-26.455	-33.387	0.000	0.000	0.000	-2,388.718	-4.658	0.000	4.658	-1.040
45.00	-26.123	-32.753	0.000	0.000	0.000	-2,357.854	-4.916	0.000	4.916	-1.071
50.00	-25.756	-30.177	0.000	0.000	0.000	-2,227.242	-6.108	0.000	6.108	-1.201
51.00	-25.481	-29.651	0.000	0.000	0.000	-2,201.487	-6.362	0.000	6.362	-1.228
55.00	-24.984	-28.576	0.000	0.000	0.000	-2,099.564	-7.438	0.000	7.438	-1.335
60.00	-24.428	-27.267	0.000	0.000	0.000	-1,974.644	-8.917	0.000	8.917	-1.486
65.00	-23.869	-25.990	0.000	0.000	0.000	-1,852.507	-10.555	0.000	10.555	-1.638
70.00	-23.309	-24.747	0.000	0.000	0.000	-1,733.165	-12.355	0.000	12.355	-1.793
75.00	-22.749	-23.536	0.000	0.000	0.000	-1,616.624	-14.317	0.000	14.317	-1.951
80.00	-22.190	-22.359	0.000	0.000	0.000	-1,502.883	-16.447	0.000	16.447	-2.111
85.00	-21.732	-21.222	0.000	0.000	0.000	-1,391.934	-18.744	0.000	18.744	-2.273
88.08	-21.448	-20.536	0.000	0.000	0.000	-1,324.921	-20.247	0.000	20.247	-2.376
90.00	-21.115	-19.830	0.000	0.000	0.000	-1,283.821	-21.214	0.000	21.214	-2.441
94.00	-20.795	-18.411	0.000	0.000	0.000	-1,199.355	-23.316	0.000	23.316	-2.575
95.00	-20.487	-18.203	0.000	0.000	0.000	-1,178.567	-23.859	0.000	23.859	-2.610
100.0	-19.946	-17.271	0.000	0.000	0.000	-1,076.136	-26.694	0.000	26.694	-2.801
105.0	-19.412	-16.367	0.000	0.000	0.000	-976.406	-29.730	0.000	29.730	-2.992
110.0	-18.885	-15.494	0.000	0.000	0.000	-879.345	-32.967	0.000	32.967	-3.185
115.0	-18.365	-14.650	0.000	0.000	0.000	-784.921	-36.404	0.000	36.404	-3.376
120.0	-17.854	-13.836	0.000	0.000	0.000	-693.096	-40.041	0.000	40.041	-3.566
125.0	-17.351	-13.052	0.000	0.000	0.000	-603.828	-43.874	0.000	43.874	-3.752
130.0	-16.927	-12.301	0.000	0.000	0.000	-517.073	-47.900	0.000	47.900	-3.934
133.4	-16.672	-11.806	0.000	0.000	0.000	-459.229	-50.759	0.000	50.759	-4.056
135.0	-16.448	-11.461	0.000	0.000	0.000	-432.843	-52.113	0.000	52.113	-4.112
138.0	-16.184	-10.826	0.000	0.000	0.000	-383.489	-54.729	0.000	54.729	-4.214
140.0	-15.876	-10.598	0.000	0.000	0.000	-351.132	-56.507	0.000	56.507	-4.281
145.0	-15.425	-10.064	0.000	0.000	0.000	-271.754	-61.098	0.000	61.098	-4.481
150.0	-10.910	-6.778	0.000	0.000	0.000	-192.582	-65.883	0.000	65.883	-4.653
155.0	-10.473	-6.319	0.000	0.000	0.000	-138.035	-70.830	0.000	70.830	-4.794
160.0	-10.200	-5.879	0.000	0.000	0.000	-85.669	-75.909	0.000	75.909	-4.905
161.0	-5.478	-3.277	0.000	0.000	0.000	-75.469	-76.938	0.000	76.938	-4.924
165.0	-5.149	-2.959	0.000	0.000	0.000	-53.559	-81.086	0.000	81.086	-4.986
169.0	-4.336	-2.233	0.000	0.000	0.000	-32.962	-85.280	0.000	85.280	-5.033
170.0	-4.118	-2.170	0.000	0.000	0.000	-28.627	-86.334	0.000	86.334	-5.043
175.0	-3.841	-1.805	0.000	0.000	0.000	-8.037	-91.628	0.000	91.628	-5.073
177.0	-0.118	-0.209	0.000	0.000	0.000	-0.354	-93.752	0.000	93.752	-5.077
180.0	-0.099	0.000	0.000	0.000	0.000	0.000	-96.937	0.000	96.937	-5.077

Site Number: 302465

Code: TIA/EIA-222-F

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Site Name: Colchester CT 6, CT

Engineering Number: 542622210

12/9/2015 3:39:00 PM

Customer: VERIZON WIRELESS

Load Case: Ice

73.61 mph Wind with Ice

25 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Calculated Stresses

Seg Elev (ft)	Applied Stresses							Allowable Stress (Fb) (ksi)	Allowable Stress (Fa) (ksi)	Stress Ratio
	Axial (Y) (ksi)	Shear (X) (ksi)	Shear (Z) (ksi)	Torsion (ksi)	Bending (X) (ksi)	Bending (Z) (ksi)	Combined (ksi)			
0.00	0.54	0.70	0.00	0.00	0.00	31.44	32.01	46.3	0.0	0.691
5.00	0.53	0.70	0.00	0.00	0.00	31.39	31.95	47.0	0.0	0.680
10.00	0.52	0.71	0.00	0.00	0.00	31.33	31.88	47.6	0.0	0.670
15.00	0.51	0.71	0.00	0.00	0.00	31.27	31.80	48.2	0.0	0.659
20.00	0.50	0.71	0.00	0.00	0.00	31.19	31.71	48.8	0.0	0.649
25.00	0.49	0.71	0.00	0.00	0.00	31.10	31.61	49.5	0.0	0.639
30.00	0.48	0.72	0.00	0.00	0.00	30.99	31.50	50.1	0.0	0.629
35.00	0.47	0.72	0.00	0.00	0.00	30.87	31.37	50.7	0.0	0.618
40.00	0.46	0.73	0.00	0.00	0.00	30.74	31.22	51.4	0.0	0.608
43.83	0.45	0.73	0.00	0.00	0.00	30.62	31.10	51.8	0.0	0.600
45.00	0.45	0.73	0.00	0.00	0.00	30.58	31.06	52.0	0.0	0.597
50.00	0.42	0.74	0.00	0.00	0.00	30.40	30.85	52.0	0.0	0.593
51.00	0.48	0.84	0.00	0.00	0.00	34.26	34.77	48.3	0.0	0.721
55.00	0.47	0.84	0.00	0.00	0.00	34.06	34.56	48.8	0.0	0.708
60.00	0.46	0.84	0.00	0.00	0.00	33.78	34.27	49.6	0.0	0.691
65.00	0.45	0.85	0.00	0.00	0.00	33.46	33.95	50.3	0.0	0.675
70.00	0.44	0.85	0.00	0.00	0.00	33.11	33.58	51.0	0.0	0.658
75.00	0.43	0.85	0.00	0.00	0.00	32.71	33.18	51.8	0.0	0.641
80.00	0.43	0.86	0.00	0.00	0.00	32.27	32.73	52.0	0.0	0.629
85.00	0.42	0.87	0.00	0.00	0.00	31.77	32.22	52.0	0.0	0.620
88.08	0.41	0.87	0.00	0.00	0.00	31.43	31.88	52.0	0.0	0.613
90.00	0.40	0.87	0.00	0.00	0.00	31.21	31.65	52.0	0.0	0.609
94.00	0.45	1.04	0.00	0.00	0.00	35.55	36.05	49.6	0.0	0.727
95.00	0.45	1.03	0.00	0.00	0.00	35.39	35.89	49.8	0.0	0.721
100.00	0.44	1.03	0.00	0.00	0.00	34.52	35.01	50.7	0.0	0.691
105.00	0.43	1.04	0.00	0.00	0.00	33.54	34.02	51.5	0.0	0.660
110.00	0.42	1.05	0.00	0.00	0.00	32.42	32.89	52.0	0.0	0.633
115.00	0.42	1.06	0.00	0.00	0.00	31.14	31.61	52.0	0.0	0.608
120.00	0.41	1.07	0.00	0.00	0.00	29.67	30.14	52.0	0.0	0.580
125.00	0.40	1.08	0.00	0.00	0.00	27.98	28.44	52.0	0.0	0.547
130.00	0.39	1.10	0.00	0.00	0.00	26.02	26.48	52.0	0.0	0.509
133.42	0.39	1.11	0.00	0.00	0.00	24.49	24.96	52.0	0.0	0.480
135.00	0.38	1.11	0.00	0.00	0.00	23.73	24.19	52.0	0.0	0.465
138.00	0.52	1.58	0.00	0.00	0.00	30.45	31.09	48.4	0.0	0.642
140.00	0.52	1.57	0.00	0.00	0.00	28.89	29.54	48.9	0.0	0.604
145.00	0.51	1.60	0.00	0.00	0.00	24.52	25.19	50.2	0.0	0.502
150.00	0.36	1.19	0.00	0.00	0.00	19.14	19.61	51.4	0.0	0.381
155.00	0.36	1.20	0.00	0.00	0.00	15.18	15.68	52.0	0.0	0.301
160.00	0.35	1.23	0.00	0.00	0.00	10.48	11.04	52.0	0.0	0.212
161.00	0.20	0.67	0.00	0.00	0.00	9.44	9.71	52.0	0.0	0.187
165.00	0.19	0.66	0.00	0.00	0.00	7.34	7.61	52.0	0.0	0.146
169.00	0.15	0.58	0.00	0.00	0.00	4.97	5.21	52.0	0.0	0.100
170.00	0.14	0.56	0.00	0.00	0.00	4.42	4.67	52.0	0.0	0.090
175.00	0.13	0.56	0.00	0.00	0.00	1.41	1.81	52.0	0.0	0.035
177.00	0.02	0.02	0.00	0.00	0.00	0.07	0.09	52.0	0.0	0.002
180.00	0.00	0.02	0.00	0.00	0.00	0.00	0.03	52.0	0.0	0.001

Load Case: Twist/Sway

50.00 mph Wind with No Ice

24 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion Moment MY (lb-ft)	MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		147.0	0.0					0.0	0.0	147.0	0.0	0.0	0.0
5.00		291.0	1,507.9					0.0	90.3	291.0	1,598.2	0.0	0.0
10.00		285.0	1,476.6					0.0	90.3	285.0	1,566.9	0.0	0.0
15.00		278.9	1,445.3					0.0	90.3	278.9	1,535.6	0.0	0.0
20.00		272.9	1,414.1					0.0	90.3	272.9	1,504.4	0.0	0.0
25.00		266.8	1,382.8					0.0	90.3	266.8	1,473.1	0.0	0.0
30.00		260.8	1,351.6					0.0	90.3	260.8	1,441.9	0.0	0.0
35.00		259.4	1,320.3					0.0	90.3	259.4	1,410.6	0.0	0.0
40.00		231.6	1,289.1					0.0	90.3	231.6	1,379.4	0.0	0.0
43.83	Bot - Section 2	132.4	967.1					0.0	69.2	132.4	1,036.4	0.0	0.0
45.00		166.2	543.8					0.0	21.1	166.2	564.8	0.0	0.0
50.00		161.9	2,294.6					0.0	90.3	161.9	2,384.9	0.0	0.0
51.00	Top - Section 1	135.3	452.0					0.0	18.1	135.3	470.0	0.0	0.0
55.00		243.6	830.9					0.0	72.2	243.6	903.1	0.0	0.0
60.00		270.3	1,014.5					0.0	90.3	270.3	1,104.8	0.0	0.0
65.00		269.2	987.7					0.0	90.3	269.2	1,078.0	0.0	0.0
70.00		267.5	960.9					0.0	90.3	267.5	1,051.2	0.0	0.0
75.00		265.2	934.1					0.0	90.3	265.2	1,024.4	0.0	0.0
80.00		262.3	907.3					0.0	90.3	262.3	997.6	0.0	0.0
85.00		209.9	880.5					0.0	90.3	209.9	970.8	0.0	0.0
88.08	Bot - Section 3	129.3	529.7					0.0	55.7	129.3	585.4	0.0	0.0
90.00		152.8	598.6					0.0	34.6	152.8	633.2	0.0	0.0
94.00	Top - Section 2	128.5	1,226.3					0.0	72.2	128.5	1,298.5	0.0	0.0
95.00		151.9	138.3					0.0	18.1	151.9	156.4	0.0	0.0
100.00		250.3	678.6					0.0	90.3	250.3	768.9	0.0	0.0
105.00		245.4	656.2					0.0	90.3	245.4	746.5	0.0	0.0
110.00		240.2	633.9					0.0	90.3	240.2	724.2	0.0	0.0
115.00		234.6	611.6					0.0	90.3	234.6	701.9	0.0	0.0
120.00		228.7	589.3					0.0	90.3	228.7	679.6	0.0	0.0
125.00		222.5	566.9					0.0	90.3	222.5	657.2	0.0	0.0
130.00		182.8	544.6					0.0	90.3	182.8	634.9	0.0	0.0
133.42	Bot - Section 4	106.9	359.4					0.0	61.7	106.9	421.1	0.0	0.0
135.00		96.9	279.0					0.0	28.6	96.9	307.6	0.0	0.0
138.00	Top - Section 3	104.5	518.5					0.0	54.2	104.5	572.7	0.0	0.0
140.00		142.4	140.6					0.0	36.1	142.4	176.8	0.0	0.0
145.00		198.3	340.8					0.0	90.3	198.3	431.1	0.0	0.0
150.00	Appertunance(s)	190.9	325.2	1,516.5	0.0	818.7	2,322.6	0.0	90.3	1,707.4	2,738.1	0.0	0.0
155.00		183.3	309.5					0.0	80.6	183.3	390.1	0.0	0.0
160.00		107.2	293.9					0.0	80.6	107.2	374.5	0.0	0.0
161.00	Appertunance(s)	85.8	56.9	1,915.4	0.0	0.0	2,299.7	0.0	16.1	2,001.1	2,372.7	0.0	0.0
165.00		134.0	221.4					0.0	61.2	134.0	282.6	0.0	0.0
169.00	Appertunance(s)	81.7	211.4	218.0	0.0	0.0	304.6	0.0	61.2	299.7	577.2	0.0	0.0
170.00		93.5	51.3					0.0	15.0	93.5	66.3	0.0	0.0
175.00		107.4	247.0					0.0	75.0	107.4	322.0	0.0	0.0
177.00	Appertunance(s)	73.3	94.4	1,372.4	0.0	0.0	1,155.0	0.0	30.0	1,445.7	1,279.4	0.0	0.0
180.00		43.4	136.9					0.0	45.0	43.4	181.9	0.0	0.0

Site Number: 302465

Code: TIA/EIA-222-F

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Site Name: Colchester CT 6, CT

Engineering Number: 542622210

12/9/2015 3:39:01 PM

Customer: VERIZON WIRELESS

Load Case: Twist/Sway

50.00 mph Wind with No Ice

24 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Totals: 13,616.0 41,576.5 0.00 0.00

Site Number: 302465

Code: TIA/EIA-222-F

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Site Name: Colchester CT 6, CT

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Customer: VERIZON WIRELESS

Load Case: Twist/Sway

50.00 mph Wind with No Ice

24 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Calculated Shaft Forces and Deflections

Seg Elev (ft)	Lateral FX (-) (kips)	Axial FY (-) (kips)	Lateral FZ (kips)	Moment MX (ft-kips)	Torsion MY (ft-kips)	Moment MZ (ft-kips)	X Deflect (in)	Z Deflect (in)	Total Deflect (in)	Rotation (deg)
0.00	-13.485	-41.571	0.000	0.000	0.000	-1,560.522	0.000	0.000	0.000	0.000
5.00	-13.227	-39.962	0.000	0.000	0.000	-1,493.096	-0.025	0.000	0.025	-0.047
10.00	-12.972	-38.384	0.000	0.000	0.000	-1,426.963	-0.101	0.000	0.101	-0.095
15.00	-12.722	-36.838	0.000	0.000	0.000	-1,362.103	-0.226	0.000	0.226	-0.144
20.00	-12.475	-35.324	0.000	0.000	0.000	-1,298.496	-0.403	0.000	0.403	-0.193
25.00	-12.233	-33.841	0.000	0.000	0.000	-1,236.121	-0.633	0.000	0.633	-0.244
30.00	-11.995	-32.390	0.000	0.000	0.000	-1,174.957	-0.916	0.000	0.916	-0.295
35.00	-11.756	-30.970	0.000	0.000	0.000	-1,114.985	-1.253	0.000	1.253	-0.347
40.00	-11.540	-29.582	0.000	0.000	0.000	-1,056.206	-1.646	0.000	1.646	-0.401
43.83	-11.413	-28.541	0.000	0.000	0.000	-1,011.971	-1.985	0.000	1.985	-0.442
45.00	-11.259	-27.971	0.000	0.000	0.000	-998.656	-2.095	0.000	2.095	-0.456
50.00	-11.092	-25.581	0.000	0.000	0.000	-942.360	-2.601	0.000	2.601	-0.511
51.00	-10.965	-25.107	0.000	0.000	0.000	-931.268	-2.710	0.000	2.710	-0.522
55.00	-10.736	-24.196	0.000	0.000	0.000	-887.408	-3.167	0.000	3.167	-0.567
60.00	-10.480	-23.083	0.000	0.000	0.000	-833.728	-3.795	0.000	3.795	-0.631
65.00	-10.223	-21.996	0.000	0.000	0.000	-781.329	-4.491	0.000	4.491	-0.695
70.00	-9.967	-20.937	0.000	0.000	0.000	-730.214	-5.254	0.000	5.254	-0.761
75.00	-9.710	-19.905	0.000	0.000	0.000	-680.382	-6.087	0.000	6.087	-0.827
80.00	-9.456	-18.900	0.000	0.000	0.000	-631.831	-6.989	0.000	6.989	-0.894
85.00	-9.247	-17.924	0.000	0.000	0.000	-584.554	-7.963	0.000	7.963	-0.963
88.08	-9.119	-17.336	0.000	0.000	0.000	-556.039	-8.599	0.000	8.599	-1.006
90.00	-8.967	-16.699	0.000	0.000	0.000	-538.565	-9.008	0.000	9.008	-1.033
94.00	-8.824	-15.397	0.000	0.000	0.000	-502.695	-9.898	0.000	9.898	-1.089
95.00	-8.682	-15.237	0.000	0.000	0.000	-493.875	-10.128	0.000	10.128	-1.104
100.0	-8.436	-14.461	0.000	0.000	0.000	-450.468	-11.327	0.000	11.327	-1.184
105.0	-8.194	-13.709	0.000	0.000	0.000	-408.288	-12.610	0.000	12.610	-1.264
110.0	-7.956	-12.979	0.000	0.000	0.000	-367.318	-13.977	0.000	13.977	-1.344
115.0	-7.721	-12.272	0.000	0.000	0.000	-327.540	-15.428	0.000	15.428	-1.424
120.0	-7.491	-11.588	0.000	0.000	0.000	-288.935	-16.963	0.000	16.963	-1.503
125.0	-7.266	-10.928	0.000	0.000	0.000	-251.480	-18.579	0.000	18.579	-1.581
130.0	-7.076	-10.290	0.000	0.000	0.000	-215.152	-20.276	0.000	20.276	-1.657
133.4	-6.963	-9.868	0.000	0.000	0.000	-190.970	-21.481	0.000	21.481	-1.707
135.0	-6.863	-9.560	0.000	0.000	0.000	-179.950	-22.051	0.000	22.051	-1.731
138.0	-6.746	-8.986	0.000	0.000	0.000	-159.357	-23.153	0.000	23.153	-1.773
140.0	-6.607	-8.808	0.000	0.000	0.000	-145.869	-23.901	0.000	23.901	-1.801
145.0	-6.407	-8.374	0.000	0.000	0.000	-112.832	-25.833	0.000	25.833	-1.884
150.0	-4.615	-5.690	0.000	0.000	0.000	-79.980	-27.847	0.000	27.847	-1.955
155.0	-4.423	-5.303	0.000	0.000	0.000	-56.906	-29.927	0.000	29.927	-2.014
160.0	-4.305	-4.930	0.000	0.000	0.000	-34.791	-32.062	0.000	32.062	-2.059
161.0	-2.220	-2.630	0.000	0.000	0.000	-30.487	-32.495	0.000	32.495	-2.067
165.0	-2.077	-2.352	0.000	0.000	0.000	-21.606	-34.237	0.000	34.237	-2.092
169.0	-1.757	-1.786	0.000	0.000	0.000	-13.298	-35.998	0.000	35.998	-2.111
170.0	-1.661	-1.723	0.000	0.000	0.000	-11.541	-36.441	0.000	36.441	-2.115
175.0	-1.542	-1.405	0.000	0.000	0.000	-3.235	-38.663	0.000	38.663	-2.127
177.0	-0.050	-0.180	0.000	0.000	0.000	-0.150	-39.555	0.000	39.555	-2.129
180.0	-0.043	0.000	0.000	0.000	0.000	0.000	-40.892	0.000	40.892	-2.129

Site Number: 302465

Code: TIA/EIA-222-F

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Site Name: Colchester CT 6, CT

Engineering Number: 542622210

12/9/2015 3:39:01 PM

Customer: VERIZON WIRELESS

Load Case: Twist/Sway

50.00 mph Wind with No Ice

24 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Calculated Stresses

Seg Elev (ft)	Applied Stresses							Allowable Stress (Fb) (ksi)	Allowable Stress (Fa) (ksi)	Stress Ratio
	Axial (Y) (ksi)	Shear (X) (ksi)	Shear (Z) (ksi)	Torsion (ksi)	Bending (X) (ksi)	Bending (Z) (ksi)	Combined (ksi)			
0.00	0.46	0.31	0.00	0.00	0.00	13.43	13.91	46.3	0.0	0.300
5.00	0.46	0.31	0.00	0.00	0.00	13.40	13.87	47.0	0.0	0.295
10.00	0.45	0.31	0.00	0.00	0.00	13.36	13.82	47.6	0.0	0.290
15.00	0.44	0.31	0.00	0.00	0.00	13.32	13.77	48.2	0.0	0.286
20.00	0.43	0.31	0.00	0.00	0.00	13.28	13.72	48.8	0.0	0.281
25.00	0.42	0.31	0.00	0.00	0.00	13.22	13.66	49.5	0.0	0.276
30.00	0.41	0.31	0.00	0.00	0.00	13.17	13.59	50.1	0.0	0.271
35.00	0.40	0.31	0.00	0.00	0.00	13.10	13.52	50.7	0.0	0.266
40.00	0.40	0.31	0.00	0.00	0.00	13.03	13.44	51.4	0.0	0.262
43.83	0.39	0.32	0.00	0.00	0.00	12.97	13.37	51.8	0.0	0.258
45.00	0.38	0.31	0.00	0.00	0.00	12.95	13.35	52.0	0.0	0.257
50.00	0.36	0.32	0.00	0.00	0.00	12.86	13.23	52.0	0.0	0.255
51.00	0.41	0.36	0.00	0.00	0.00	14.49	14.91	48.3	0.0	0.309
55.00	0.40	0.36	0.00	0.00	0.00	14.40	14.81	48.8	0.0	0.303
60.00	0.39	0.36	0.00	0.00	0.00	14.26	14.67	49.6	0.0	0.296
65.00	0.38	0.36	0.00	0.00	0.00	14.11	14.51	50.3	0.0	0.288
70.00	0.38	0.36	0.00	0.00	0.00	13.95	14.34	51.0	0.0	0.281
75.00	0.37	0.36	0.00	0.00	0.00	13.77	14.15	51.8	0.0	0.273
80.00	0.36	0.37	0.00	0.00	0.00	13.57	13.94	52.0	0.0	0.268
85.00	0.35	0.37	0.00	0.00	0.00	13.34	13.71	52.0	0.0	0.264
88.08	0.35	0.37	0.00	0.00	0.00	13.19	13.55	52.0	0.0	0.261
90.00	0.34	0.37	0.00	0.00	0.00	13.09	13.45	52.0	0.0	0.259
94.00	0.38	0.44	0.00	0.00	0.00	14.90	15.30	49.6	0.0	0.308
95.00	0.38	0.44	0.00	0.00	0.00	14.83	15.23	49.8	0.0	0.306
100.00	0.37	0.44	0.00	0.00	0.00	14.45	14.84	50.7	0.0	0.293
105.00	0.36	0.44	0.00	0.00	0.00	14.02	14.41	51.5	0.0	0.280
110.00	0.35	0.44	0.00	0.00	0.00	13.54	13.92	52.0	0.0	0.268
115.00	0.35	0.44	0.00	0.00	0.00	12.99	13.36	52.0	0.0	0.257
120.00	0.34	0.45	0.00	0.00	0.00	12.37	12.73	52.0	0.0	0.245
125.00	0.33	0.45	0.00	0.00	0.00	11.65	12.01	52.0	0.0	0.231
130.00	0.33	0.46	0.00	0.00	0.00	10.83	11.18	52.0	0.0	0.215
133.42	0.32	0.46	0.00	0.00	0.00	10.19	10.54	52.0	0.0	0.203
135.00	0.32	0.46	0.00	0.00	0.00	9.87	10.22	52.0	0.0	0.196
138.00	0.43	0.66	0.00	0.00	0.00	12.65	13.13	48.4	0.0	0.271
140.00	0.43	0.66	0.00	0.00	0.00	12.00	12.48	48.9	0.0	0.255
145.00	0.43	0.67	0.00	0.00	0.00	10.18	10.67	50.2	0.0	0.213
150.00	0.31	0.50	0.00	0.00	0.00	7.95	8.30	51.4	0.0	0.161
155.00	0.30	0.51	0.00	0.00	0.00	6.26	6.62	52.0	0.0	0.127
160.00	0.29	0.52	0.00	0.00	0.00	4.26	4.64	52.0	0.0	0.089
161.00	0.16	0.27	0.00	0.00	0.00	3.81	4.00	52.0	0.0	0.077
165.00	0.15	0.27	0.00	0.00	0.00	2.96	3.14	52.0	0.0	0.060
169.00	0.12	0.24	0.00	0.00	0.00	2.00	2.16	52.0	0.0	0.042
170.00	0.12	0.23	0.00	0.00	0.00	1.78	1.94	52.0	0.0	0.037
175.00	0.10	0.22	0.00	0.00	0.00	0.57	0.77	52.0	0.0	0.015
177.00	0.01	0.01	0.00	0.00	0.00	0.03	0.04	52.0	0.0	0.001
180.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	52.0	0.0	0.000

Site Number: 302465

Code: TIA/EIA-222-F

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Site Name: Colchester CT 6, CT

Engineering Number: 542622210

12/9/2015 3:39:01 PM

Customer: VERIZON WIRELESS

Analysis Summary

Load Case	Reactions						Combined Stress (ksi)	Max Stresses Allowable		
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)		Stress (ksi)	Elev (ft)	Stress Ratio
No Ice	39.0	0.00	41.53	0.00	0.00	4504.87	42.24	48.3	51.00	0.875
Ice	30.9	0.00	48.38	0.00	0.00	3652.27	36.05	49.6	94.00	0.727
Twist/Sway	13.5	0.00	41.57	0.00	0.00	1560.52	14.91	48.3	51.00	0.309

Site Number: 302465

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Site Name: Colchester CT 6, CT

Engineering Number: 542622210

12/9/2015 3:39:01 PM

Customer: VERIZON WIRELESS

Base Summary

Reactions

Original Design			Analysis			Moment Design %
Moment (kip-ft)	Axial (kip)	Shear (kip)	Moment (kip-ft)	Axial (kip)	Shear (kip)	
4,932.40	45.02	41.52	4,504.87	48.38	38.98	91.33

Base Plate

Yield (ksi)	Thick (in)	Width (in)	Style	Poly Sides	Clip Len (in)	Effective Len (in)	Moment (kip-in)	Allow Stress (ksi)	Applied Stress (ksi)	Stress Ratio
60.0	2.500	78.760	Polygon	12	0.00	44.450	1732.97	60.00	37.43	0.62

Anchor Bolts

Bolt Circle	Num Bolts	Bolt Type	Bolt Dia (in)	Yield (ksi)	Ultimate (ksi)	Arrange	Cluster Dist (in)	Start Angle (deg)	Compression			Tension		
									Force (kip)	Allow (kip)	Ratio	Force (kip)	Allow (kip)	Ratio
72.76	20	2.25" 18J	2.25	75.00	100.00	Radial	0.00	0.0	151.01	195.00	0.77	146.17	195.00	0.75

ATTACHMENT 5

NO. 755 New London Rd
STREET ADDRESS

M & J AUTO (NEXTEL)
PROPERTY OWNER

2-8 / 13
TAX MAP LOT

800.537.5002
PHONE

CONTRACTOR

PHONE

BUILDING PERMIT

NO. _____ DATE _____

Other Permits/Dates

- () Wetlands _____
- () Zoning _____
- () Driveway _____

Inspections/Dates

- () Temp Electrical _____
- () Footings _____
- () Rough Framing _____
- () Rough Elec. _____
- () Rough Plumb. _____
- () Perm. Elec. _____

() CERTIFICATE OF OCCUPANCY

Activity	Date
1. Testing application	
2. Testing fee	
3. Final plan review	
4. Septic permit application	10/28/00
5. Septic permit fee	10/29/00
6. Strip inspection	5/7/01
7. Final septic inspection	6/5/01
8. Soil pipe inspection	5/9/01
9. As-built approved	
10. Permit to discharge	
11. Well permit issued	10/92 - RG.
12. Well completion report	10/92
13. Water supply approved	
14. C.O. approved	
Comments:	
Strip depth ok. bottom to be re-graded prior to fill placement.	
5/9/01 - Septer OK - need to verify pump, once in	

ADDITIONAL PERMITS

NO.	DATE	USE
		MONORAIL
98-7406	8/12/98	
00-8873	10/24/00	HEATER
		10/24/00 - Bus Terminal
		Per 10/24/00
00-8919	12/28/00	ANTENNA
02-10163	9/13/02	ANTENNA
07-13278	1/29/07	Replace Antennat Equip
08-14511	9/16/08	Coil Storage

- P.O. Box 447, 615 Route 32, Highland Mills, N.Y. 10930
Phone: (914)928-6531 Fax: (914)928-9211
- 2 Northway Lane, Latham, N.Y. 12110
Phone: (513)783-1630 Fax: (513)783-1544
- 714B Southbridge St., Auburn, M.A. 01501
Phone: (508)832-7146 Fax: (508)832-0775
- 7370 Kingsgate, Suite H, West Chester, OH 45069
Phone: (513)759-9500

DATE: 8/5/98	JOB NO.: 1170.C877
ATTENTION: Timothy York	
RE: Colchester South	

TO
Timothy York

Town of Colchester Bldg. Dept.

127 Norwich Avenue

Colchester, CT 06415

WE ARE SENDING YOU Attached Under separate cover via overnight the following items:

Shop drawings Prints Plans Samples Specifications
 Copy of letter Change order _____

COPIES	DATE	NO.	DESCRIPTION	REVISION:
1			Monopole Review	
1	7/24/98	13592	Check for \$965.00 for Building Permit	
1	7/93	5948001	Safeco Performance Bond (2 pages) Signed & Sealed.	
1	8/18/97	9501	Safeco Power of Attorney	
1	8/5/98		Letter - Design Review	

THESE ARE TRANSMITTED as checked below:

- For approval
- For your use
- As requested
- For review and comment
- For BIDS DUE _____ 19____
- Approved as submitted
- Approved as noted
- Returned for corrections
- _____
- Resubmit _____ copies for approval
- Submit _____ copies for distribution
- Return _____ corrected prints
- PRINTS RETURNED AFTER LOAN TO US

REMARKS
Please send a receipt for the
check. Thank you.

COPY TO:

SIGNED: **Tammy Rossie/cmp**

TOWN OF COLCHESTER INSPECTION REQUEST

LOCATION: Dutton Rd. / Monopole ^{m & J Auto} REQUESTED BY: Contractor

REC'D ON: _____ AT: _____ DATE NEEDED: 9/15/98 10AM

TYPE OF INSPECTION (RESIDENTIAL)

BUILDING		PLUMBING		MECHANICAL		ELECTRICAL		SEPTIC
Footing	<input checked="" type="checkbox"/>	Sewer/Water Lns.		Rough in		Temp Service		Stripped
Backfill		Rough In		Final		New Service		Final
Rough In		Slab		Wood Stove		Service Change		Test Pit
Insulation		Air or Water Test		Smoke Chamber		Rough In		E & S Controls
Final		Final		Pools		Final		Septic Repair

TYPE OF INSPECTION (COMMERCIAL)

Footings		Supply Duct		Vent Systems		Panel Location		Other
Concrete Slab		Return Air		Waste Lines		Disconnect		
Foundation		Comb. Air		Supply Lines		Service		
Framing		Supply Tank		Pressure Test		GFIC		
Fire Separation		Furnace Location						
Insulation		Fire Dampers						
Alarms		Duct Insulation						
Sprinklers		Seismic						

COMMENTS: Grade Beams set 9/14/98 VISUAL
inspection 9/15/98 BEAMS OK

INSPECTOR'S SIGNATURE: _____

TOWN OF COLCHESTER INSPECTION REQUEST

LOCATION: **NEXTEL TOWER**

REQUESTED BY: **CONTRACTOR**

REC'D ON:

AT:

DATE NEEDED: **9-30-98 3:30 PM**

TYPE OF INSPECTION (RESIDENTIAL)

BUILDING	PLUMBING	MECHANICAL	ELECTRICAL	SEPTIC
Footings	Sewer/Water Lns.	Rough in	Temp Service	Stripped
Backfill	Rough In	Final	New Service X	Final
Rough In	Slab	Wood Stove	Service Change	Test Pit
Insulation	Air or Water Test	Smoke Chamber	Rough In	E & S Controls
Final	Final	Pools	Final	Septic Repair

TYPE OF INSPECTION (COMMERCIAL)

BUILDING	PLUMBING	MECHANICAL	ELECTRICAL	OTHER
Footings	Supply Duct	Vent Systems	Panel Location	Other
Concrete Slab	Return Air	Waste Lines	Disconnect	
Foundation	Comb. Air	Supply Lines	Service	
Framing	Supply Tank	Pressure Test	GFIC	
Fire Separation	Furnace Location			
Insulation	Fire Dampers			
Alarms	Duct Insulation			
Sprinklers	Seismic			

COMMENTS: *Trench OK to Back Fill, Install 2nd Ground Rod with continuous ground wire service OK will ID*

INSPECTOR'S SIGNATURE:

**TOWN OF COLCHESTER
BUILDING PERMIT**

OFFICE USE ONLY	
Street	<u>355 New London Rd</u>
Map	Lot
Date	<u>12/26/00</u>
PERMIT	No. <u>8919</u>

FEES PAID	Structural	<u>80</u>	Plumbing	_____	Misc. (<u>h. 1/100</u>)	<u>2</u>
	Septic	_____	Heating	_____	Misc. (<u>5/100</u>)	<u>10</u>
	Electrical	_____	Well	_____	Total Fee Paid	<u>92</u>

PERMISSION IS HEREBY GRANTED TO M & J Auto Recycling
 to: erect ✓, alter _____, enlarge _____, repair _____, move _____, demolish _____, a Antenna
 located at 355 New London Rd on land
 owned by same
 Said: erection _____, alteration _____, enlargement _____, repairs _____, removal _____, demolition _____, to be
 occupied as _____
 as described in Application No. _____ and to conform with plans and specifications filed with
 application, all provisions of the Connecticut Building Code and to comply with all other laws and rules relating to this
 subject. If no work is performed within six months from the time of issuance, this permit shall expire by limitation as
 provided by law.

REMARKS Antenna & Assoc. equipment

Receipt No: #1154 Approved by Timothy E. York

 Building Inspector

Please refer to notice on reverse side of this permit
WHITE: Applicant CANARY: Assessor PINK: Gen. File GOLDENROD: Street File

**TOWN OF COLCHESTER
APPLICATION FOR BUILDING PERMIT**

DATE OF APPLICATION 12-21-00 ASSESSOR'S TAX MAP & LOT # 1
 Notice: Please refer to rules and requirements on reverse side.

The undersigned hereby applies for a permit to: ERECT (), ALTER (), ENLARGE (), REPAIR (), REMOVE (),
 DEMOLISH (), a building or structure herein described and in accordance with plans and specifications submitted.

LOCATION (Street & No.) 355 Route 85 PROPERTY OWNER M J Auto Recycling

OWNER'S ADDRESS same PHONE _____

BUILDER Douglas Manson PHONE 203 268 6666

BUILDER'S ADDRESS 1229 Daniels Farm Rd Trumbull 06611 LICENSE # 122377

USE GROUP _____ TYPE OF CONSTRUCTION pod mount control Box SIZE OF BUILDING 3' x 8'

GARAGE SIZE _____ x _____ ATTACHED _____ TOTAL FLOOR AREA _____ NUMBER OF STORIES _____

NUMBER OF BATHS _____ NUMBER OF BEDROOMS _____ JACUZZI/HOT-TUBS _____ GAL.

HEATING TYPE _____ SIDING _____ SEPTIC _____ WELL _____ CITY WATER _____

CITY SEWER _____ GARBAGE DISPOSAL _____ ACCESSORY BUILDING SIZE _____

IS PROPERTY WITHIN 100 YEAR FLOOD PLAIN? _____ EST. CONSTRUCTION VALUE \$ 8,000.00

The applicant agrees to comply with all the provisions of the building code and with the provisions of all other laws and rules governing building construction.

Signed (Owner or Agent) Douglas Manson Print Name Douglas Manson

APPROVED (Building Official) Timothy Eyer

DESCRIPTION OF PROPOSED WORK UNDER THIS APPLICATION: A 6 Meter Electric SVC 5 of which are for future & 1 of which will be used for the 100 amp 1 @ 220/208 panel for antenna equipment control box

SUBCONTRACTORS		OFFICIAL USE ONLY	
Electrician Name Signature	Address Lic.#	Electrical	_____
Plumber Name Signature	Address Lic.#	Plumbing	_____
Heating Contractor Name Signature	Address Lic.#	Heating	_____
Remodeler Name Signature	Address Lic.#	Sed/Erosion	_____
Sprinkler Contractor Name Signature	Address Lic.#	Septic	_____
		Well	_____
		Driveway	_____
		Building	<u>80</u>
		Education Fee	<u>2</u>
		State Fee	<u>10</u>
		Total Fee	<u>92</u>

ATTACHMENT 6

General Power Density

Site Name: Colchester S 2, CT
 Cumulative Power Density

Operator	Operating Frequency (MHz)	Number of Trans.	ERP Per Trans. (watts)	Total ERP (watts)	Distance to Target (feet)	Calculated Power Density (mW/cm ²)	Maximum Permissible Exposure* (mW/cm ²)	Fraction of MPE (%)
VZW PCS	1970	11	400	4396.354	161	0.0610	1.0	6.10%
VZW Cellular	869	9	342	3078.432	161	0.0427	0.5793333333	7.37%
VZW AWS	2145	1	1750	1750	161	0.0243	1.0	2.43%
VZW 700	746	1	1050	1050	161	0.0146	0.4973333333	2.93%

Total Percentage of Maximum Permissible Exposure

18.83%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz

mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.

ATTACHMENT 7

July 12, 2016

Via Certificate of Mailing

Art Shilosky, First Selectman
Town of Colchester
127 Norwich Avenue
Colchester, CT 06415

Re: Proposed Modifications to a Telecommunications Facility at 355 New London Road in Colchester, Connecticut

Dear Mr. Shilosky:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Sub-Petition for Declaratory Ruling (“Sub-Petition”) with the Connecticut Siting Council (“Council”) seeking approval to install antennas and related equipment on the existing 180-foot monopole tower at 355 New London Road in Colchester, Connecticut (the “Property”). Cellco intends to install twelve (12) antennas and six (6) remote radio heads at the 161-foot level on the tower. Equipment associated with Cellco’s antennas and an emergency back-up generator will be installed on a new equipment platform with canopy roof.

As presented in the Sub-Petition, the proposed facility modifications constitute an eligible facility request pursuant to Section 6409(a) of the Federal Middle Class Tax Relief and Job Creation act of 2012 (47 U.S.C. § 1455(a)) and the October 21, 2014 Order of the Federal Communications Commission (FCC-14-153). A copy of the full Sub-Petition is attached for your review. Landowners whose property abuts the Property were also sent notice of this filing along with a copy of the Sub-Petition.

15008556-v1

Art Shilosky
July 12, 2016
Page 2

Pursuant to its decision in Petition No. 1133, comments or concerns regarding this proposal should be submitted to the Council within thirty (30) days of the date of the attached Sub-Petition.

Please contact me if you have any questions regarding this proposal.

Sincerely,

A handwritten signature in blue ink, appearing to read 'K. Baldwin', is positioned above the printed name.

Kenneth C. Baldwin

Attachment

July 12, 2016

Via Certificate of Mailing

M & J Auto Recycling Inc.
P.O. Box 908
Colchester, CT 06415

Re: **Proposed Modifications to a Telecommunications Facility at 355 New London Road in Colchester, Connecticut**

Dear Sir or Madam:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Sub-Petition for Declaratory Ruling (“Sub-Petition”) with the Connecticut Siting Council (“Council”) seeking approval to install antennas and related equipment on the existing 180-foot monopole tower at 355 New London Road in Colchester, Connecticut (the “Property”). Cellco intends to install twelve (12) antennas and six (6) remote radio heads at the 161-foot level on the tower. Equipment associated with Cellco’s antennas and an emergency back-up generator will be installed on a new equipment platform with canopy roof.

As presented in the Sub-Petition, the proposed facility modifications constitute an eligible facility request pursuant to Section 6409(a) of the Federal Middle Class Tax Relief and Job Creation act of 2012 (47 U.S.C. § 1455(a)) and the October 21, 2014 Order of the Federal Communications Commission (FCC-14-153). A copy of the full Sub-Petition is attached for your review. Landowners whose property abuts the Property were also sent notice of this filing along with a copy of the Sub-Petition.

15008575-v1

M & J Auto Recycling Inc.

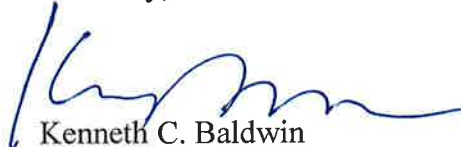
July 12, 2016

Page 2

Pursuant to its decision in Petition No. 1133, comments or concerns regarding this proposal should be submitted to the Council within thirty (30) days of the date of the attached Sub-Petition.

Please contact me if you have any questions regarding this proposal.

Sincerely,

A handwritten signature in blue ink, appearing to read 'K. Baldwin', is written over the typed name.

Kenneth C. Baldwin

Attachment

July 12, 2016

Via Certificate of Mailing

Heather Douglas Wilkins
Territory Manager-Business Development
Northeast (New England/NY)
American Tower Corporation
10 Presidential Way
Woburn, MA 01801

Re: **Proposed Modifications to a Telecommunications Facility at 355 New London Road
in Colchester, Connecticut**

Dear Ms. Wilkins:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Sub-Petition for Declaratory Ruling (“Sub-Petition”) with the Connecticut Siting Council (“Council”) seeking approval to install antennas and related equipment on the existing 180-foot monopole tower at 355 New London Road in Colchester, Connecticut (the “Property”). Cellco intends to install twelve (12) antennas and six (6) remote radio heads at the 161-foot level on the tower. Equipment associated with Cellco’s antennas and an emergency back-up generator will be installed on a new equipment platform with canopy roof.

As presented in the Sub-Petition, the proposed facility modifications constitute an eligible facility request pursuant to Section 6409(a) of the Federal Middle Class Tax Relief and Job Creation act of 2012 (47 U.S.C. § 1455(a)) and the October 21, 2014 Order of the Federal Communications Commission (FCC-14-153). A copy of the full Sub-Petition is attached for your review. Landowners whose property abuts the Property were also sent notice of this filing along with a copy of the Sub-Petition.

15008587-v1

Heather Douglas Wilkins
July 12, 2016
Page 2

Pursuant to its decision in Petition No. 1133, comments or concerns regarding this proposal should be submitted to the Council within thirty (30) days of the date of the attached Sub-Petition.

Please contact me if you have any questions regarding this proposal.

Sincerely,



Kenneth C. Baldwin

Attachment

ATTACHMENT 8

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

July 12, 2016

Via Certificate of Mailing

«Name_and_Address»

**Re: Proposed Telecommunications Facility at 355 New London Road in Colchester,
Connecticut**

Dear «Salutation»:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Sub-Petition for Declaratory Ruling (“Sub-Petition”) with the Connecticut Siting Council (“Council”) seeking approval to install antennas and related equipment on the existing 180-foot monopole tower at 355 New London Road in Colchester, Connecticut (the “Property”). Cellco intends to install twelve (12) antennas and six (6) remote radio heads at the 161-foot level on the tower. Equipment associated with Cellco’s antennas and an emergency back-up generator will be installed on a new equipment platform with canopy roof.

As presented in the Sub-Petition, the proposed facility improvements at the Property constitute an eligible facility request pursuant to Section 6409(a) of the Federal Middle Class Tax Relief and Job Creation act of 2012 (47 U.S.C. § 1455(a)) and the October 21, 2014 Order of the Federal Communications Commission (FCC-14-153). A copy of the full Sub-Petition is attached for your review.

Pursuant to its decision in Petition No. 1133, comments or concerns regarding this proposal should be submitted to the Council within thirty (30) days of the date of the Sub-Petition.

July 12, 2016
Page 2

This notice is being sent to you because you are listed as an owner of land that abuts the Property. If you have any questions regarding the Sub-Petition, the Council's process for reviewing the Sub-Petition or the details of the filing itself, please feel free to contact me at the number listed above. You may also contact the Council directly at 860-827-2935.

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth C. Baldwin", with a long horizontal flourish extending to the right.

Kenneth C. Baldwin

Attachment

CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

ABUTTING PROPERTY OWNERS

**355 NEW LONDON ROAD/ROUTE 85
COLCHESTER, CONNECTICUT**

	Property Address	Owner's and Mailing Address
1.	10 Dutton Road	Carol A. Bagshaw 10 Dutton Road Colchester, CT 06415
2.	14 Dutton Road	Scott and Lynette Dimock 14 Dutton Road Colchester, CT 06415
3.	13 Dutton Road	Joseph Maulucci 13 Dutton Road Colchester, CT 06415
4.	19 Dutton Road	Gerald and Diane Pearl 19 Dutton Road Colchester, CT 06415
5.	86 McDonald Road	Town of Colchester 127 Norwich Road Colchester, CT 06415
6.	29 Dutton Road	Stanley and Gina Moroch 29 Dutton Road Colchester, CT 06415
7.	McDonald Road	Town of Colchester 127 Norwich Road Colchester, CT 06415
8.	43 Dutton Road	William A. and Karen McCormick Wells 43 Dutton Road Colchester, CT 06415
9.	158 McDonald Road	Theodora C. Begun 158 McDonald Road Colchester, CT 06415
10.	395 New London Road	Donald J. Kendzior 383 New London Road Colchester, CT 06415

	Property Address	Owner's and Mailing Address
11.	383 New London Road	Donald J. Kendzior 383 New London Road Colchester, CT 06415
12.	350 New London Road	Estate of Josephine Schools c/o Robert P. Schools 184 West High Street East Hampton, CT 06424
13.	342 New London Road	Stephen Ty Miller 342 New London Road Colchester, CT 06415
14.	338 New London Road	RMD Land Development LLC 612 Church Street Amston, CT 06231

UPS CampusShip: View/Print Label

- 1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
- 2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
- 3. **GETTING YOUR SHIPMENT TO UPS**
Customers with a Daily Pickup
 Your driver will pickup your shipment(s) as usual.

Customers without a Daily Pickup



Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.
 Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.
 Hand the package to any UPS driver in your area.

UPS Access Point™
 CVS STORE # 972
 555 WASHINGTON ST
 SOUTH EASTON ,MA 02375

UPS Access Point™
 CVS STORE # 7232
 689 DEPOT ST
 NORTH EASTON ,MA 02356

UPS Access Point™
 TOWN LINE GENERAL STORE
 450 E CENTER ST
 WEST BRIDGEWATER ,MA 02379

FOLD HERE

<p>1 LBS</p> <p>1 OF 1</p> <p>SHIP TO: MARY BYLONE, FIRST SELECTMAN 127 NORWICH AVENUE COLCHESTER CT 06415-1230</p> <p>MIJUMALI 9785687906 CENTERLINE COMMUNICATIONS 750 W. CENTER ST. WEST BRIDGEWATER MA 02379</p>	<p>CT 063 0-01</p>  	<p>UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 1588 8242</p> 	<p>BILLING: P/P</p> <p>Reference # 1: 302465 Reference # 2: Colchester CT 6 <small>CS 23.0.18 * WNTNV50 32.OA 08/2021 *</small></p> 
---	--	--	---

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1Z9Y45030315888242

Weight

1.00 LBS

Service

UPS Ground

Shipped / Billed On

08/13/2021

Delivered On

08/19/2021 3:15 P.M.

Delivered To

COLCHESTER, CT, US

Received By

GEATO

Left At

Front Desk

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

Tracking results provided by UPS: 10/25/2021 12:31 P.M. EST

UPS CampusShip: View/Print Label

- 1. Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
- 2. Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
- 3. GETTING YOUR SHIPMENT TO UPS**
Customers with a Daily Pickup
 Your driver will pickup your shipment(s) as usual.

Customers without a Daily Pickup

Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.


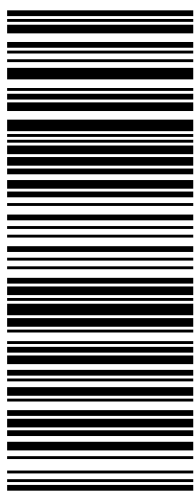

Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages. Hand the package to any UPS driver in your area.

UPS Access Point™
CVS STORE # 972
555 WASHINGTON ST
SOUTH EASTON ,MA 02375

UPS Access Point™
CVS STORE # 7232
689 DEPOT ST
NORTH EASTON ,MA 02356

UPS Access Point™
TOWN LINE GENERAL STORE
450 E CENTER ST
WEST BRIDGEWATER ,MA 02379

FOLD HERE

<p style="text-align: right;">1 OF 1</p> <p style="text-align: center;">1 LBS</p> <p>MIJMAIL 9785687906 CENTERLINE COMMUNICATIONS 750 W. CENTER ST. WEST BRIDGEWATER MA 02379</p> <p>SHIP TO: MATTHEW BORDEAUX, TOWN PLANNER 127 NORWICH AVENUE COLCHESTER CT 06415-1230</p>	<p style="font-size: 2em;">CT 063 0-01</p> 	<p style="font-size: 1.5em;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 1353 9257</p> 	<p style="text-align: center;">BILLING: P/P</p> <p>Reference # 1: 302465 Reference # 2: Colchester CT 6 <small>CS 23.0.18 * WNTNV50 32.OA 08/2021 *</small></p> 
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Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1Z9Y45030313539257

Weight

1.00 LBS

Service

UPS Ground

Shipped / Billed On

08/13/2021

Delivered On

08/19/2021 3:16 P.M.

Delivered To

COLCHESTER, CT, US

Received By

CAVANAUGH

Left At

Front Desk

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

Tracking results provided by UPS: 10/25/2021 12:33 P.M. EST

UPS CampusShip: View/Print Label

- 1. Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
- 2. Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
- 3. GETTING YOUR SHIPMENT TO UPS**
Customers with a Daily Pickup
 Your driver will pickup your shipment(s) as usual.

Customers without a Daily Pickup

Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.


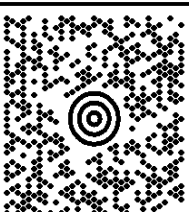

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CVS STORE # 7232
689 DEPOT ST
NORTH EASTON ,MA 02356

UPS Access Point™
TOWN LINE GENERAL STORE
450 E CENTER ST
WEST BRIDGEWATER ,MA 02379

FOLD HERE

<p style="text-align: right;">1 OF 1</p> <p style="text-align: center;">1 LBS</p> <p>SHIP TO: M & J AUTO RECYCLING, INC 355 ROUTE 85 COLCHESTER CT 06415-1830</p> <p>MJUMALT 9785687906 CENTERLINE COMMUNICATIONS 750 W. CENTER ST. WEST BRIDGEWATER MA 02379</p>	<p style="font-size: 2em;">CT 063 0-01</p>  	<p style="font-size: 1.5em;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 0139 2268</p> 	<p>BILLING: P/P</p> <p>Reference # 1: 302465 Reference # 2: Colchester CT 6 <small>CS 23.0.18 * WNTNV50 32.OA 08/2021 *</small></p> 
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Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1Z9Y45030301392268

Weight

1.00 LBS

Service

UPS Ground

Shipped / Billed On

08/13/2021

Delivered On

08/19/2021 10:10 A.M.

Delivered To

COLCHESTER, CT, US

Received By

EVANS

Left At

Office

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

Tracking results provided by UPS: 10/25/2021 12:32 P.M. EST

Centerline Communications LLC

028220

CONNECTICUT SITING COUNCIL

Check: 28220
Date: 8/11/2021
Vendor: 0

<u>Invoice</u>	<u>P.O. Num.</u>	<u>Invoice Amt</u>	<u>Prior Balance</u>	<u>Retention</u>	<u>Discount</u>	<u>Amt. Paid</u>
531374-004		625.00	625.00	0.00	0.00	625.00
ATC - Verizon-13668833						
		===== 625.00	===== 625.00	===== 0.00	===== 0.00	===== 625.00

Centerline Communications LLC

750 W. Center Street
Suite 301
W. Bridgewater, MA 02379
(781) 713-4725

ROCKLAND TRUST COMPANY
MEDFIELD, MA 02052

53-447/113

028220

PAY
TO THE
ORDER
OF

THE SUM OF SIX HUNDRED TWENTY FIVE DOLLARS AND

CONNECTICUT SITING COUNCIL

VOID AFTER 90 DAYS

AUTHORIZED SIGNATURE

Security features. Details on back

⑈ 0 28 2 20 ⑈ +

⑈

Mj Umali, Site Acquisition Consultant
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (978) 568 -7906
MUmali@centerlinecommunications.com

August 9th, 2021

Melanie A. Bachman
Acting Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

**RE: Notice of Exempt Modification // Site: COLCHESTER CT 6 (ATC: 302465)
355 New London Road (aka State Route 85), COLCHESTER, CT 06415
N 41.5448 // W 72.3048**

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless currently maintains 6 antennas at the 163-foot mount on the existing 180-foot monopole tower, located at 355 New London Road (aka State Route 85). The tower is owned by American Tower. The property is owned by M & J Auto Recycling Inc. Verizon Wireless facility was approved for colocation by the Council in 2016. Verizon Wireless now intends to install 3 new antennas integrated remote radio heads (RRHs) and 3 diplexers for its 5G (3700 MHz) upgrade. Additionally, Verizon Wireless will reinforce existing side by side mounts; altogether updating leased equipment rights, as reflected by the final configuration outlined in the structural analysis and proposed hereby.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §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 Mary Bylone, First Selectman of the Town of Colchester, its Town Planner, Matthew Bordeaux, including for the Planning & Zoning Department, American Tower, the tower owner, and to the ground owner, M & J Auto Recycling Inc.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Enclosed to accommodate this filing are construction drawings dated June 29, 2021 by Telamon CLS, a structural analysis dated May 5, 2021 by A.T. Engineering Service, PLLC, and a structural mount analysis by Maser Consulting Connecticut dated June 11, 2021 and radio frequency (RF) analysis table showing worst-case RF emission calculation by Verizon Wireless RF Design Engineering.

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications 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 operation of the new antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading, as shown in the attached structural analysis by Telamon CLS, dated May 5, 2021 and a structural mount analysis by Maser Consulting Connecticut, dated June 11, 2021, pursuant to certain conditions defined therein. Design and engineering is fully illustrated within final construction drawings, signed and stamped dated June 29th 2021.

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

Sincerely,

MJ Umali

MJ Umali, Site Acquisition Consultant
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (978) 568-7906
MUmali@centerlinecommunications.com

Attachments

cc: Mary Bylone- as First Selectman of the Town of Colchester
Matthew Bordeaux, Town Planner - as P&Z official
American Tower Corporation - as tower owner
M & J Auto Recycling Inc - as property owner

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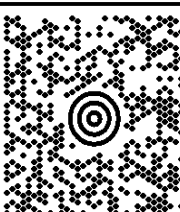
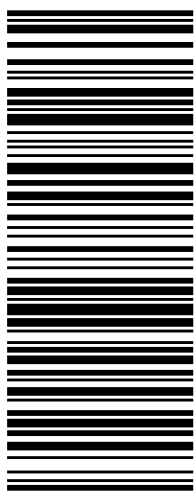

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<p style="text-align: right;">1 OF 1</p> <p style="text-align: center;">1 LBS</p> <p>SHIP TO: MARY BYLONE, FIRST SELECTMAN 127 NORWICH AVENUE COLCHESTER CT 06415-1230</p> <p>MIJMAIL 9785687906 CENTERLINE COMMUNICATIONS 750 W. CENTER ST. WEST BRIDGEWATER MA 02379</p>	<p style="font-size: 2em; font-weight: bold;">CT 063 0-01</p>  	<p style="font-weight: bold; font-size: 1.5em;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 1588 8242</p> 	<p style="text-align: center;">BILLING: P/P</p> <p>Reference # 1: 302465 Reference # 2: Colchester CT 6 <small>CS 23.0.18 * WNTNV50 32.OA 08/2021 *</small></p> 
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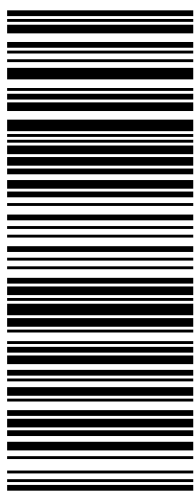

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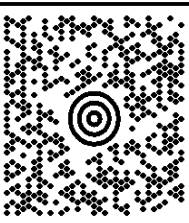

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<p style="text-align: right;">1 OF 1</p> <p style="text-align: center;">1 LBS</p> <p>SHIP TO: M & J AUTO RECYCLING, INC 355 ROUTE 85 COLCHESTER CT 06415-1830</p> <p>MJUMALT 9785687906 CENTERLINE COMMUNICATIONS 750 W. CENTER ST. WEST BRIDGEWATER MA 02379</p>	<p style="font-size: 2em;">CT 063 0-01</p>  	<p style="font-size: 1.5em;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 0139 2268</p> 	<p>BILLING: P/P</p> <p>Reference # 1: 302465 Reference # 2: Colchester CT 6 <small>CS 23.0.18 * W/NTNV50 32.0A 08/2021 *</small></p> 
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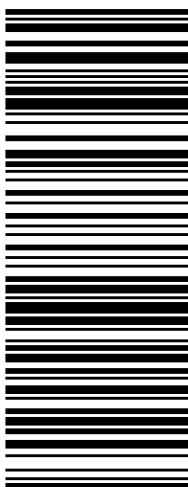
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<p style="text-align: right;">1 OF 1</p> <p style="text-align: center;">5 LBS</p> <p>MJ UMALT 9785687906 CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER MA 02379</p> <p>SHIP TO: LAND MANAGEMENT 7814287250 AMERICAN TOWER CORPORATION 10 PRESIDENTIAL WAY WOBURN MA 01801-1053</p>	<p style="font-size: 2em;">MA 018 9-04</p> 	<p style="font-size: 1.5em;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 0742 7577</p> 	<p style="text-align: center;">BILLING: P/P</p> <p style="text-align: center;">Reference # 1: ATC CSC Hard Copies</p> <p style="font-size: 0.8em;">CS 22.0.18. WNTNV50 32.0A 08/2021*</p> 
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AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 180 ft Monopole
ATC Site Name : Colchester CT 6, CT
ATC Asset Number : 302465
Engineering Number : 13668833_C3_02
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : COLCHESTER SO II CT
Carrier Site Number : 468035
Site Location : 355 Route 85
Colchester, CT 06415-1825
41.544800, -72.304900
County : New London
Date : May 5, 2021
Max Usage : 61%
Result : Pass



Prepared By:
Isaac P. Dodson
Structural Engineer III

Reviewed By:

COA: PEC.0001553



Table of Contents

Introduction	1
Supporting Documents	1
Analysis	1
Conclusion.....	1
Existing and Reserved Equipment.....	2
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Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 180 ft monopole to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower Drawings	Valmont order #17494-98, dated June 8, 1998
Foundation Drawing	Valmont drawing #17494-S-01, dated July 10, 1998
Geotechnical Report	Tectonic Engineering Consultants Project #1170.C877, dated June 5, 1998

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	122 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Crest Height (H):	0 ft
Spectral Response:	$S_s = 0.20, S_1 = 0.05$
Site Class:	D - Stiff Soil

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.



Existing and Reserved Equipment

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
180.0	3	Alcatel-Lucent 1900 MHz 4X45 RRH	T-Arm	(4) 1 1/4" Hybriflex Cable (6) 1 5/8" Coax	SPRINT NEXTEL
	6	Alcatel-Lucent RRH2x50-08			
	3	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield			
	3	RFS APXVTM14-ALU-I20			
	3	Commscope NNVV-65B-R4			
172.0	2	Generic 6' Omni	Side Arm	(2) 0.405" Coax	OTHER
163.0	3	Commscope CBC78T-DS-43-2X	Triangular Platform w/ Handrails	(2) 1 5/8" Hybriflex	VERIZON WIRELESS
	3	Samsung B5/B13 RRH-BR04C			
	3	Samsung B2/B66A RRH-BR049			
	2	RFS DB-B1-6C-12AB-0Z			
	6	Commscope JAHH-65B-R3B			
150.0	6	Powerwave Allgon LGP21401	Triangular Platform w/ Handrails	(2) 0.39" Fiber Trunk (2) 0.65" 8 AWG 2C (6) 0.78" 8 AWG 6 (12) 1 1/4" Coax (1) 2" Carflex Non-Metallic Conduit (1) 3" conduit	AT&T MOBILITY
	6	LGP Allgon LGP21903			
	2	Raycap DC6-48-60-18-8F (23.5" Height)			
	2	Kathrein Scala 80010966			
	1	Kathrein Scala 80010965			
	2	CCI HPA65R-BU8A			
	1	CCI HPA65R-BU6A			
	3	Powerwave Allgon 7770.00			
	3	Ericsson Radio 8843 - B2 + B66A			
	3	Ericsson RRUS 4449 B5, B12			
138.0	3	Ericsson RRUS 11 B4	Triangular Platform w/ Handrails	(1) 1 1/4" Hybriflex Cable (1) 1" Hybrid (1) 1 5/8" Fiber	T-MOBILE
	3	Ericsson RRUS 11 B2			
	3	RFS APX16DWV-16DWVS-E-A20			
	3	Ericsson RRUS 11 B12			
	3	Commscope LNX-6515DS-A1M (96.6" Height)			

Equipment to be Removed

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
No loading was considered as removed as part of this analysis.					

Proposed Equipment

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
163.0	3	Samsung MT6407-77A	Triangular Platform w/ Handrails	-	VERIZON WIRELESS

¹ Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.

Install proposed coax inside the pole shaft.



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	57%	Pass
Shaft	61%	Pass
Base Plate	25%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	3,954.5	49%
Axial (Kips)	76.0	55%
Shear (Kips)	33.9	20%

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.

Deflection and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
163.0	Samsung MT6407-77A	VERIZON WIRELESS	1.490	1.091

*Deflection and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-H



Standard Conditions

All engineering services performed by A.T. Engineering Service, PLLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

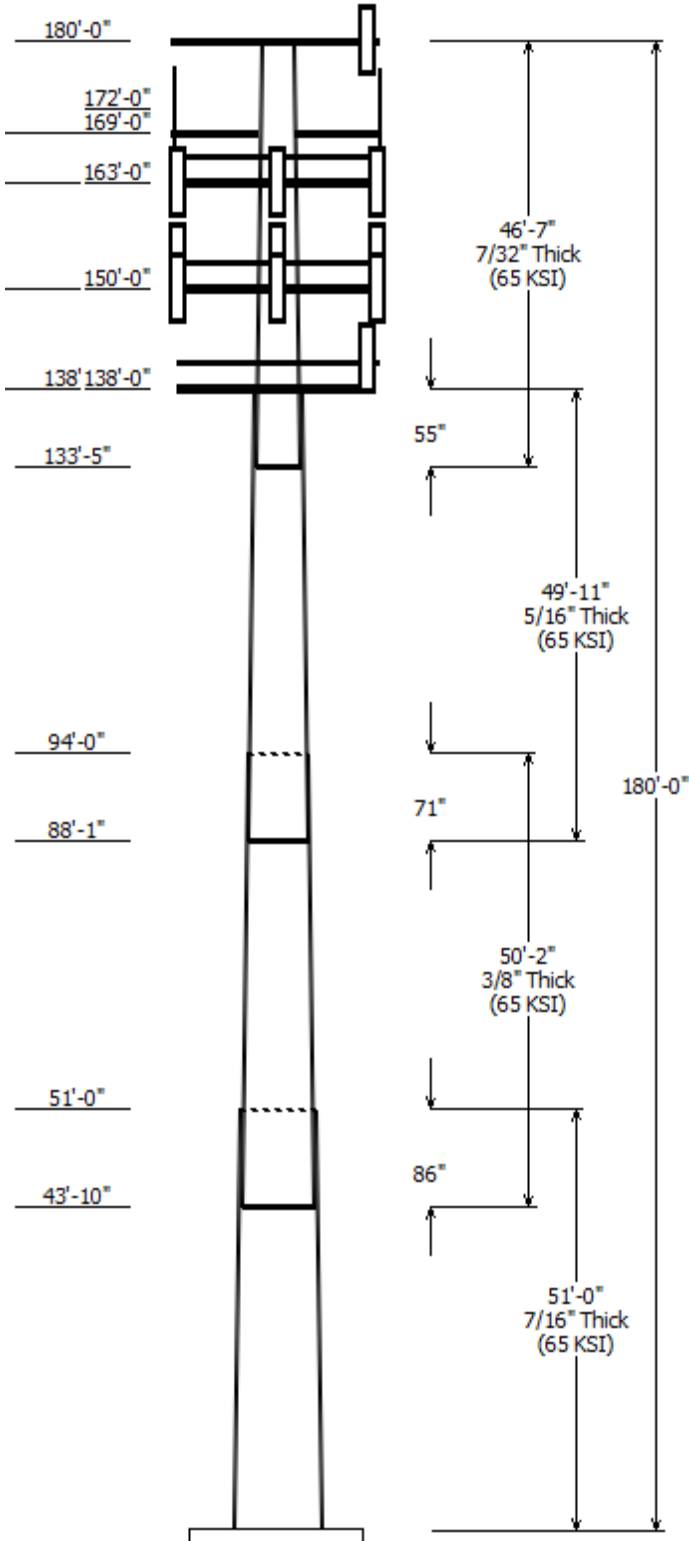
It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete.

All assets of American Tower Corporation, its affiliates and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and A.T. Engineering Service, PLLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

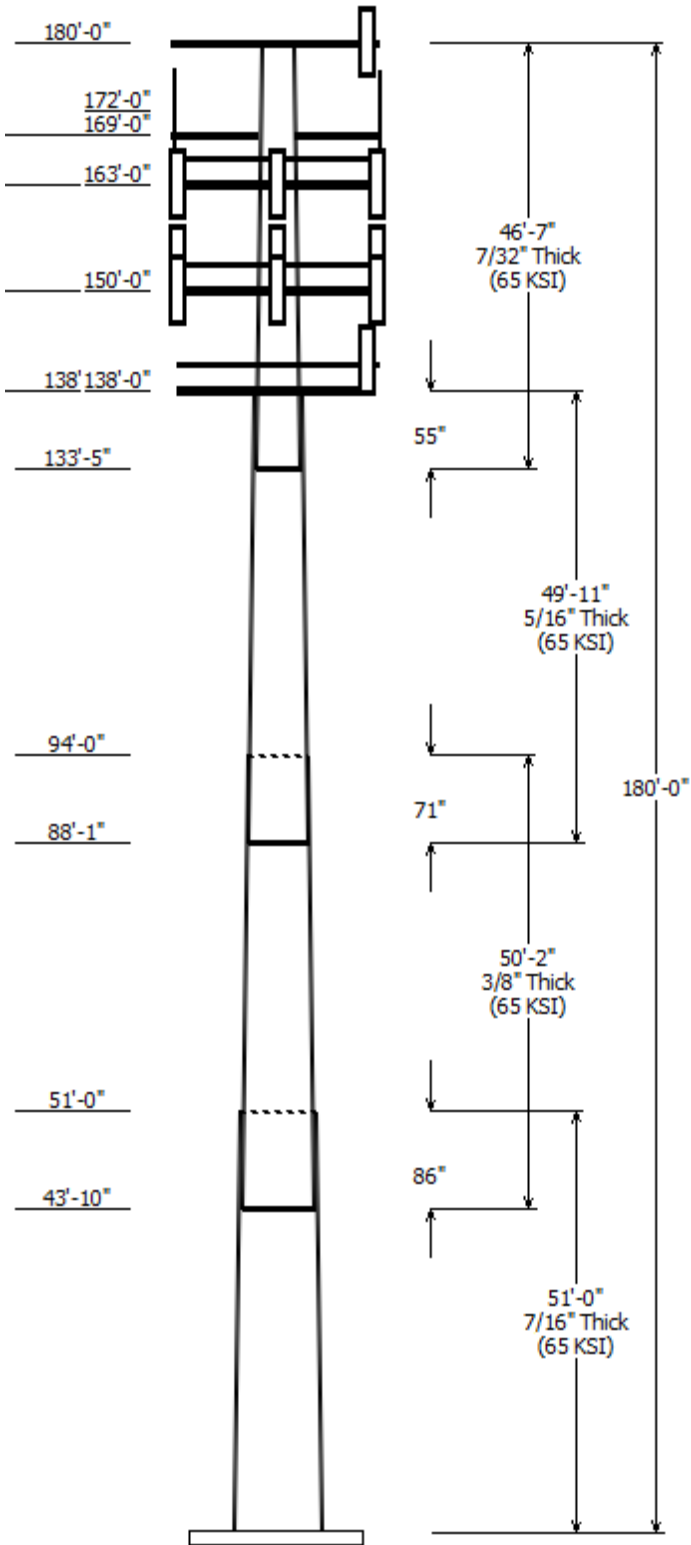
Job Information	
Client : VERIZON WIRELESS	Code: ANSI/TIA-222-H
Pole : 302465	
Location : Colchester CT 6, CT	
Description : 180 ft Valmont Monopole	Risk Category : II
Shape : 12 Sides	Exposure : B
Height : 180.00 (ft)	Topo Method : Method 1
Base Elev (ft): 0.00	Topographic Category : 1
Taper: 0.260792in/ft)	



Sections Properties							
Shaft Section	Length (ft)	Diameter (in)		Thick (in)	Joint Type	Overlap Length (in)	Steel Grade
		Across Top	Flats Bottom				
1	51.000	50.70	64.00	0.438		0.000	12 Sides 65
2	50.167	40.23	53.31	0.375	Slip Joint	86.000	12 Sides 65
3	49.917	29.38	42.40	0.313	Slip Joint	71.000	12 Sides 65
4	46.583	18.87	31.01	0.219	Slip Joint	55.000	12 Sides 65

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
180.000	180.000	3	Round T-Arm
180.000	180.000	3	RFS APXVTM14-ALU-I20
180.000	180.000	3	Alcatel-Lucent TD-RRH8x20-25
180.000	180.000	3	Alcatel-Lucent 1900 MHz 4X45
180.000	180.000	3	Commscope NNVV-65B-R4
180.000	180.000	6	Alcatel-Lucent RRH2x50-08
172.000	172.000	2	Generic 6' Omni
169.000	169.000	2	Round Side Arm
163.000	163.000	1	Round Platform w/ Handrails
163.000	163.000	6	Commscope JAHH-65B-R3B
163.000	163.000	3	Samsung MT6407-77A
163.000	163.000	2	RFS DB-B1-6C-12AB-0Z
163.000	163.000	3	Samsung B2/B66A RRH-BR049
163.000	163.000	3	Samsung B5/B13 RRH-BR04C
163.000	163.000	3	Commscope CBC78T-DS-43-2X
150.000	150.000	1	Round Platform w/ Handrails
150.000	150.000	2	Kathrein Scala 80010966
150.000	150.000	1	Kathrein Scala 80010965
150.000	150.000	2	CCI HPA65R-BU8A
150.000	150.000	1	CCI HPA65R-BU6A
150.000	153.000	3	Powerwave Allgon 7770.00
150.000	150.000	3	Ericsson RRUS 4449 B5, B12
150.000	150.000	3	Ericsson Radio 8843 - B2 + B66
150.000	153.000	2	Raycap DC6-48-60-18-8F (23.5"
150.000	153.000	6	Powerwave Allgon LGP21401
150.000	152.000	6	LGP Allgon LGP21903
138.000	138.000	1	Round Platform w/ Handrails
138.000	139.000	3	Commscope LNX-6515DS-A1M
138.000	139.000	3	RFS APX16DWV-16DWV-E-A20
138.000	139.000	3	Ericsson RRUS 11 B12
138.000	139.000	3	Ericsson RRUS 11 B4
138.000	139.000	3	Ericsson RRUS 11 B2

Linear Appurtenance			
From Elev (ft)	To Elev (ft)	Description	Exposed To Wind
0.000	138.0	1 5/8" (1.63"-	No
0.000	139.0	1 1/4" Hybriflex	No
0.000	139.0	1" (25.4mm)	No
0.000	150.0	0.39" (10mm)	No
0.000	150.0	0.65" (16.4mm) 8	No



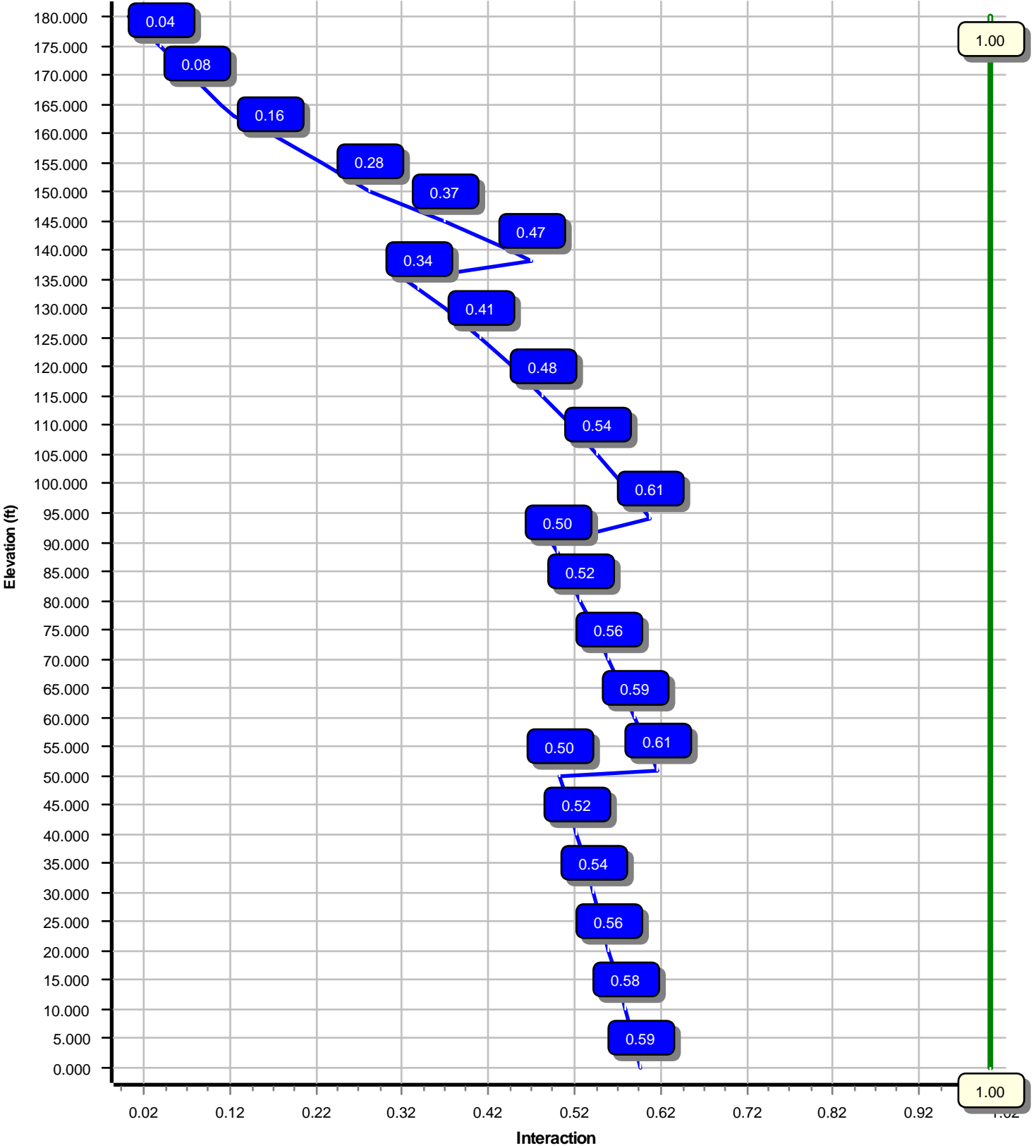
0.000	150.0	0.78" (19.7mm) 8	No
0.000	150.0	0.78" (19.7mm) 8	No
0.000	150.0	1 1/4" Coax	No
0.000	150.0	2" Carflex Non-	No
0.000	150.0	3" conduit	No
0.000	163.0	1 5/8" Hybriflex	No
0.000	172.0	0.405" (10.3mm)	No
0.000	180.0	1 1/4" Hybriflex	No
0.000	180.0	1 5/8" Coax	No

Load Cases	
1.2D + 1.0W	122 mph with No Ice
0.9D + 1.0W	122 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	Serviceability 60 mph

Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.0W	3954.47	33.92	58.90
0.9D + 1.0W	3912.13	33.91	44.17
1.2D + 1.0Di + 1.0Wi	910.63	7.62	76.03
1.2D + 1.0Ev + 1.0Eh	212.25	1.48	59.00
0.9D - 1.0Ev + 1.0Eh	209.09	1.47	40.62
1.0D + 1.0W	850.37	7.34	49.12

Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
	0.00	0.000	0.000

Load Case : 1.2D + 1.0W
Max Ratio 61.44% at 51.0 ft



Site Number: 302465

Code: ANSI/TIA-222-H

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Site Name: Colchester CT 6, CT

Engineering Number: 13668833_C3_02

5/5/2021 10:18:04 AM

Customer: VERIZON WIRELESS

Analysis Parameters

Location :	New London County, CT	Height (ft) :	180
Code :	ANSI/TIA-222-H	Base Diameter (in) :	64.00
Shape :	12 Sides	Top Diameter (in) :	18.87
Pole Type :	Taper	Taper (in/ft) :	0.261
Pole Manufacturer :	Valmont	Rotation (deg) :	0.00
Kd (non-service) :	0.95	Ke :	0.98

Ice & Wind Parameters

Exposure Category:	B	Design Wind Speed Without Ice:	122 mph
Risk Category:	II	Design Wind Speed With Ice:	50 mph
Topographic Factor Procedure:	Method 1	Operational Wind Speed:	60 mph
Topographic Category:	1	Design Ice Thickness:	1.00 in
Crest Height:	0 ft	HMSL:	559.00 ft

Seismic Parameters

Analysis Method:	Equivalent Lateral Force Method		
Site Class:	D - Stiff Soil		
Period Based on Rayleigh Method (sec):	2.49		
T_L (sec):	6	p :	1
S_s :	0.205	S_1 :	0.055
F_a :	1.600	F_v :	2.400
S_{ds} :	0.219	S_{d1} :	0.088
		C_s :	0.030
		C_s Max:	0.030
		C_s Min:	0.030

Load Cases

1.2D + 1.0W	122 mph with No Ice
0.9D + 1.0W	122 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	Serviceability 60 mph

Site Number: 302465

Code: ANSI/TIA-222-H

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Site Name: Colchester CT 6, CT

Engineering Number: 13668833_C3_02

5/5/2021 10:18:04 AM

Customer: VERIZON WIRELESS

Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Joint Len (in)	Weight (lb)	Bottom						Top						
							Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Taper (in/ft)
1-12	51.000	0.4375	65		0.00	13,914	64.00	0.00	89.54	46176.7	36.52	146.29	50.70	51.00	70.81	22831.9	28.37	115.88	0.260792
2-12	50.167	0.3750	65	Slip	86.00	9,565	53.31	43.83	63.93	22872.5	35.42	142.18	40.23	94.00	48.13	9761.2	26.07	107.29	0.260792
3-12	49.917	0.3125	65	Slip	71.00	6,082	42.40	88.08	42.35	9577.7	33.68	135.69	29.38	138.00	29.25	3156.3	22.52	94.03	0.260792
4-12	46.583	0.2188	65	Slip	55.00	2,761	31.01	133.42	21.69	2626.8	35.32	141.80	18.87	180.00	13.14	583.3	20.43	86.26	0.260792
Shaft Weight						32,321													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	Weight (lb)	No Ice EPAa (sf)	Orientation Factor	Weight (lb)	Ice EPAa (sf)	Orientation Factor
180.00	Alcatel-Lucent RRH2x50-08	6	0.80	0.000	52.90	1.701	0.50	93.16	2.287	0.50
180.00	Alcatel-Lucent 1900 MHz 4X45	3	0.80	0.000	60.00	2.322	0.50	114.75	3.056	0.50
180.00	Alcatel-Lucent TD-RRH8x20-25	3	0.80	0.000	70.00	4.046	0.50	134.21	4.948	0.50
180.00	RFS APXVTM14-ALU-I20	3	0.80	0.000	56.20	6.342	0.66	149.75	7.822	0.66
180.00	Round T-Arm	3	0.75	0.000	250.00	9.700	0.67	391.99	15.301	0.67
180.00	Commscope NNVV-65B-R4	3	0.80	0.000	77.40	12.271	0.64	248.11	14.176	0.64
172.00	Generic 6' Omni	2	1.00	0.000	25.00	1.760	1.00	56.20	2.611	1.00
169.00	Round Side Arm	2	1.00	0.000	150.00	5.200	1.00	199.39	7.035	1.00
163.00	Commscope CBC78T-DS-43-2X	3	0.75	0.000	20.70	0.552	0.50	35.57	0.894	0.50
163.00	Samsung B5/B13 RRH-BR04C	3	0.75	0.000	70.30	1.875	0.50	108.80	2.482	0.50
163.00	Samsung B2/B66A RRH-BR049	3	0.75	0.000	84.40	1.875	0.50	127.33	2.482	0.50
163.00	RFS DB-B1-6C-12AB-0Z	2	0.75	0.000	21.40	2.512	0.67	75.12	3.213	0.67
163.00	Samsung MT6407-77A	3	0.75	0.000	81.60	4.709	0.61	150.20	5.731	0.61
163.00	Commscope JAHH-65B-R3B	6	0.75	0.000	60.60	9.113	0.69	196.75	10.980	0.69
163.00	Round Platform w/ Handrails	1	1.00	0.000	2,000.00	27.200	1.00	2,872.04	43.651	1.00
150.00	LGP Allgon LGP21903	6	0.75	2.000	5.50	0.231	0.50	11.11	0.457	0.50
150.00	Powerwave Allgon LGP21401	6	0.75	3.000	14.10	1.104	0.50	30.74	1.580	0.50
150.00	Raycap DC6-48-60-18-8F (23.5"	2	0.75	3.000	20.00	1.260	1.00	55.12	1.699	1.00
150.00	Ericsson Radio 8843 - B2 + B66A	3	0.75	0.000	71.90	1.650	0.50	112.99	2.215	0.50
150.00	Ericsson RRUS 4449 B5, B12	3	0.75	0.000	71.00	1.969	0.50	113.98	2.591	0.50
150.00	Powerwave Allgon 7770.00	3	0.75	3.000	35.00	5.508	0.65	118.21	6.194	0.65
150.00	CCI HPA65R-BU6A	1	0.75	0.000	41.90	7.864	1.00	158.78	9.705	1.00
150.00	CCI HPA65R-BU8A	2	0.75	0.000	54.00	11.230	0.78	208.92	13.380	0.78
150.00	Kathrein Scala 80010965	1	0.75	0.000	97.60	13.814	1.00	275.40	15.849	1.00
150.00	Kathrein Scala 80010966	2	0.75	0.000	114.60	17.363	0.72	328.75	19.823	0.72
150.00	Round Platform w/ Handrails	1	1.00	0.000	2,000.00	27.200	1.00	2,864.17	43.502	1.00
138.00	Ericsson RRUS 11 B2	3	0.75	1.000	50.70	2.791	0.50	98.62	3.517	0.50
138.00	Ericsson RRUS 11 B4	3	0.75	1.000	50.70	2.791	0.50	98.62	3.517	0.50
138.00	Ericsson RRUS 11 B12	3	0.80	1.000	50.70	2.791	0.67	98.62	3.517	0.67
138.00	RFS APX16DWV-16DWVS-E-A20	3	0.75	1.000	40.70	6.586	0.60	118.01	8.019	0.60
138.00	Commscope LNX-6515DS-A1M	3	0.80	1.000	43.70	11.470	0.70	195.83	13.617	0.70
138.00	Round Platform w/ Handrails	1	1.00	0.000	2,000.00	27.200	1.00	2,857.50	43.376	1.00
Totals	Num Loadings:32	92			11,263.10			20,112.14		

Linear Appurtenance Properties

Load Case Azimuth (deg) :

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Max Coax / Flat Row	Dist Between Rows (in)	Dist Between Cols (in)	Dist Azimuth (deg)	Dist Exposed From Face (in)	Dist Exposed To Wind Carrier
0.00	180.00	4	1 1/4" Hybriflex Cable	1.54	1.00	N	0	0.00	0.00	0	N SPRINT NEXTEL
0.00	180.00	6	1 5/8" Coax	1.98	0.82	N	0	0.00	0.00	0	N SPRINT NEXTEL
0.00	172.00	2	0.405" (10.3mm) Coax	0.41	0.11	N	0	0.00	0.00	0	N OTHER
0.00	163.00	2	1 5/8" Hybriflex	1.98	1.30	N	0	0.00	0.00	0	N VERIZON WIRELESS

Site Number: 302465

Code: ANSI/TIA-222-H

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Site Name: Colchester CT 6, CT

Engineering Number: 13668833_C3_02

5/5/2021 10:18:04 AM

Customer: VERIZON WIRELESS

0.00	150.00	2	0.39" (10mm) Fiber	0.39	0.06	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	150.00	2	0.65" (16.4mm) 8 AWG	0.65	0.31	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	150.00	2	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	150.00	4	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	150.00	12	1 1/4" Coax	1.55	0.63	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	150.00	1	2" Carflex Non-	2.36	0.68	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	150.00	1	3" conduit	3.50	7.58	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	139.00	1	1 1/4" Hybriflex Cable	1.54	1.00	N	0	0.00	0.00	0	0.00	N	T-MOBILE
0.00	139.00	1	1" (25.4mm) Hybrid	1.00	0.65	N	0	0.00	0.00	0	0.00	N	T-MOBILE
0.00	138.00	1	1 5/8" (1.63"-41.3mm)	1.63	1.61	N	0	0.00	0.00	0	0.00	N	T-MOBILE

Segment Properties (Max Len : 5. ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in ³)	Z (in ³)	Weight (lb)
0.00		0.4375	64.000	89.544	46,176.7	36.52	146.29	64.9	1393.	0.0	0.0
5.00		0.4375	62.696	87.707	43,392.7	35.72	143.31	65.8	1337.	0.0	1,507.9
10.00		0.4375	61.392	85.870	40,722.9	34.92	140.32	66.6	1281.	0.0	1,476.6
15.00		0.4375	60.088	84.033	38,165.0	34.12	137.34	67.5	1227.	0.0	1,445.4
20.00		0.4375	58.784	82.196	35,716.4	33.32	134.36	68.4	1173.	0.0	1,414.1
25.00		0.4375	57.480	80.359	33,374.9	32.52	131.38	69.2	1121.	0.0	1,382.8
30.00		0.4375	56.176	78.522	31,138.1	31.73	128.40	70.1	1070.	0.0	1,351.6
35.00		0.4375	54.872	76.685	29,003.4	30.93	125.42	71.0	1021.	0.0	1,320.3
40.00		0.4375	53.568	74.848	26,968.7	30.13	122.44	71.9	972.6	0.0	1,289.1
43.83	Bot - Section 2	0.4375	52.569	73.440	25,474.8	29.52	120.16	72.5	936.2	0.0	967.1
45.00		0.4375	52.264	73.011	25,031.4	29.33	119.46	72.7	925.2	0.0	543.8
50.00		0.4375	50.960	71.174	23,189.2	28.53	116.48	73.6	879.1	0.0	2,294.6
51.00	Top - Section 1	0.3750	51.450	61.673	20,534.7	34.08	137.20	67.5	771.0	0.0	452.0
55.00		0.3750	50.406	60.413	19,302.0	33.34	134.42	68.4	739.8	0.0	830.9
60.00		0.3750	49.103	58.838	17,831.8	32.41	130.94	69.4	701.6	0.0	1,014.5
65.00		0.3750	47.799	57.264	16,438.2	31.47	127.46	70.4	664.4	0.0	987.7
70.00		0.3750	46.495	55.689	15,119.2	30.54	123.99	71.4	628.2	0.0	960.9
75.00		0.3750	45.191	54.115	13,872.7	29.61	120.51	72.4	593.0	0.0	934.1
80.00		0.3750	43.887	52.540	12,696.7	28.68	117.03	73.4	558.9	0.0	907.3
85.00		0.3750	42.583	50.966	11,589.1	27.75	113.55	74.5	525.8	0.0	880.5
88.08	Bot - Section 3	0.3750	41.779	49.995	10,939.2	27.17	111.41	75.1	505.8	0.0	529.6
90.00		0.3750	41.279	49.391	10,547.8	26.82	110.08	75.5	493.6	0.0	598.7
94.00	Top - Section 2	0.3125	40.861	40.802	8,562.5	32.36	130.75	69.4	404.8	0.0	1,226.2
95.00		0.3125	40.600	40.539	8,398.4	32.13	129.92	69.7	399.6	0.0	138.4
100.0		0.3125	39.296	39.227	7,609.0	31.01	125.75	70.9	374.1	0.0	678.6
105.0		0.3125	37.992	37.915	6,870.7	29.90	121.57	72.1	349.4	0.0	656.2
110.0		0.3125	36.688	36.603	6,181.8	28.78	117.40	73.3	325.5	0.0	633.9
115.0		0.3125	35.384	35.291	5,540.6	27.66	113.23	74.5	302.5	0.0	611.6
120.0		0.3125	34.080	33.979	4,945.3	26.54	109.06	75.8	280.3	0.0	589.3
125.0		0.3125	32.776	32.666	4,394.2	25.42	104.88	77.0	259.0	0.0	566.9
130.0		0.3125	31.472	31.354	3,885.7	24.31	100.71	78.2	238.5	0.0	544.6
133.4	Bot - Section 4	0.3125	30.581	30.458	3,561.8	23.54	97.86	79.0	225.0	0.0	359.3
135.0		0.3125	30.168	30.042	3,418.0	23.19	96.54	79.4	218.9	0.0	279.1
138.0	Top - Section 3	0.2188	29.823	20.853	2,332.7	33.85	136.33	67.8	151.1	0.0	518.3
140.0		0.2188	29.302	20.485	2,211.6	33.21	133.95	68.5	145.8	0.0	140.7
145.0		0.2188	27.998	19.567	1,927.3	31.62	127.99	70.2	133.0	0.0	340.7
150.0		0.2188	26.694	18.648	1,668.4	30.02	122.03	72.0	120.7	0.0	325.1
155.0		0.2188	25.390	17.730	1,433.8	28.42	116.07	73.7	109.1	0.0	309.5
160.0		0.2188	24.086	16.811	1,222.3	26.82	110.11	75.5	98.0	0.0	293.8
163.0		0.2188	23.303	16.260	1,106.0	25.87	106.53	76.5	91.7	0.0	168.8
165.0		0.2188	22.782	15.893	1,032.7	25.23	104.15	77.2	87.6	0.0	109.4
169.0		0.2188	21.739	15.158	896.0	23.95	99.38	78.6	79.6	0.0	211.3
170.0		0.2188	21.478	14.974	863.8	23.63	98.18	78.9	77.7	0.0	51.3
172.0		0.2188	20.956	14.607	801.8	22.99	95.80	79.6	73.9	0.0	100.7
175.0		0.2188	20.174	14.056	714.4	22.03	92.22	80.7	68.4	0.0	146.3
180.0		0.2188	18.870	13.137	583.3	20.43	86.26	81.9	59.7	0.0	231.3
											32,320.8

Load Case: 1.2D + 1.0W	122 mph with No Ice	25 Iterations
Gust Response Factor :1.10		
Dead Load Factor :1.20		
Wind Load Factor :1.00		

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-58.90	-33.92	0.00	-3,954.47	0.00	3,954.47	5,229.17	1,571.49	9,421.69	6,783.18	0.00	0.00	0.595
5.00	-56.82	-33.34	0.00	-3,784.86	0.00	3,784.86	5,190.65	1,539.25	9,039.18	6,594.14	0.06	-0.12	0.585
10.00	-54.77	-32.76	0.00	-3,618.18	0.00	3,618.18	5,149.25	1,507.01	8,664.60	6,403.58	0.25	-0.24	0.576
15.00	-52.75	-32.19	0.00	-3,454.37	0.00	3,454.37	5,104.97	1,474.78	8,297.94	6,211.74	0.57	-0.36	0.567
20.00	-50.78	-31.63	0.00	-3,293.41	0.00	3,293.41	5,057.81	1,442.54	7,939.21	6,018.84	1.02	-0.49	0.558
25.00	-48.85	-31.08	0.00	-3,135.24	0.00	3,135.24	5,007.77	1,410.30	7,588.41	5,825.12	1.60	-0.62	0.548
30.00	-46.95	-30.53	0.00	-2,979.83	0.00	2,979.83	4,954.85	1,378.06	7,245.53	5,630.81	2.32	-0.75	0.539
35.00	-45.10	-29.97	0.00	-2,827.18	0.00	2,827.18	4,899.05	1,345.82	6,910.58	5,436.14	3.18	-0.88	0.530
40.00	-43.29	-29.46	0.00	-2,677.33	0.00	2,677.33	4,840.37	1,313.58	6,583.55	5,241.34	4.17	-1.02	0.520
43.83	-41.94	-29.16	0.00	-2,564.41	0.00	2,564.41	4,793.44	1,288.87	6,338.20	5,092.05	5.03	-1.12	0.513
45.00	-41.20	-28.79	0.00	-2,530.39	0.00	2,530.39	4,778.81	1,281.34	6,264.45	5,046.65	5.31	-1.15	0.511
50.00	-38.20	-28.38	0.00	-2,386.44	0.00	2,386.44	4,714.38	1,249.11	5,953.28	4,852.29	6.60	-1.29	0.500
51.00	-37.59	-28.08	0.00	-2,358.06	0.00	2,358.06	3,748.95	1,082.35	5,214.40	3,905.86	6.87	-1.32	0.614
55.00	-36.37	-27.54	0.00	-2,245.73	0.00	2,245.73	3,716.58	1,060.25	5,003.62	3,792.47	8.03	-1.44	0.603
60.00	-34.89	-26.93	0.00	-2,108.05	0.00	2,108.05	3,673.53	1,032.61	4,746.27	3,650.12	9.62	-1.60	0.588
65.00	-33.44	-26.32	0.00	-1,973.41	0.00	1,973.41	3,627.60	1,004.98	4,495.71	3,507.29	11.38	-1.76	0.573
70.00	-32.02	-25.70	0.00	-1,841.84	0.00	1,841.84	3,578.79	977.35	4,251.95	3,364.21	13.32	-1.93	0.557
75.00	-30.64	-25.09	0.00	-1,713.33	0.00	1,713.33	3,527.09	949.72	4,014.98	3,221.11	15.43	-2.09	0.541
80.00	-29.30	-24.48	0.00	-1,587.90	0.00	1,587.90	3,472.52	922.08	3,784.80	3,078.24	17.71	-2.26	0.525
85.00	-27.99	-23.97	0.00	-1,465.52	0.00	1,465.52	3,415.07	894.45	3,561.42	2,935.81	20.17	-2.43	0.508
88.08	-27.21	-23.66	0.00	-1,391.62	0.00	1,391.62	3,378.20	877.41	3,427.05	2,848.31	21.78	-2.54	0.497
90.00	-26.38	-23.29	0.00	-1,346.27	0.00	1,346.27	3,354.74	866.82	3,344.83	2,794.06	22.81	-2.61	0.490
94.00	-24.72	-22.94	0.00	-1,253.10	0.00	1,253.10	2,549.41	716.07	2,738.82	2,107.92	25.06	-2.75	0.605
95.00	-24.49	-22.60	0.00	-1,230.16	0.00	1,230.16	2,541.91	711.46	2,703.72	2,088.10	25.64	-2.79	0.600
100.00	-23.42	-22.01	0.00	-1,117.16	0.00	1,117.16	2,502.69	688.43	2,531.57	1,988.82	28.67	-2.99	0.572
105.00	-22.38	-21.43	0.00	-1,007.12	0.00	1,007.12	2,460.58	665.41	2,365.09	1,889.44	31.90	-3.18	0.543
110.00	-21.37	-20.85	0.00	-899.99	0.00	899.99	2,415.60	642.38	2,204.27	1,790.18	35.34	-3.38	0.513
115.00	-20.40	-20.28	0.00	-795.74	0.00	795.74	2,367.74	619.35	2,049.12	1,691.27	38.99	-3.58	0.480
120.00	-19.45	-19.72	0.00	-694.35	0.00	694.35	2,317.00	596.32	1,899.62	1,592.95	42.84	-3.77	0.445
125.00	-18.54	-19.17	0.00	-595.75	0.00	595.75	2,263.38	573.30	1,755.79	1,495.45	46.88	-3.95	0.408
130.00	-17.66	-18.70	0.00	-499.92	0.00	499.92	2,206.88	550.27	1,617.62	1,398.99	51.12	-4.13	0.367
133.42	-17.08	-18.42	0.00	-436.03	0.00	436.03	2,166.61	534.53	1,526.45	1,333.80	54.11	-4.25	0.336
135.00	-16.68	-18.17	0.00	-406.87	0.00	406.87	2,147.49	527.24	1,485.11	1,303.81	55.53	-4.30	0.321
138.00	-12.90	-14.83	0.00	-350.71	0.00	350.71	1,272.33	365.96	1,021.95	768.31	58.26	-4.40	0.468
140.00	-12.65	-14.49	0.00	-321.04	0.00	321.04	1,262.76	359.52	986.26	749.00	60.12	-4.46	0.440
145.00	-12.05	-13.99	0.00	-248.59	0.00	248.59	1,236.82	343.40	899.83	700.48	64.88	-4.64	0.366
150.00	-8.03	-9.19	0.00	-176.97	0.00	176.97	1,208.00	327.28	817.35	651.79	69.82	-4.80	0.279
155.00	-7.61	-8.71	0.00	-131.04	0.00	131.04	1,176.30	311.16	738.84	603.17	74.92	-4.93	0.224
160.00	-7.20	-8.34	0.00	-87.47	0.00	87.47	1,141.72	295.04	664.30	554.85	80.13	-5.04	0.165
163.00	-3.45	-4.71	0.00	-62.47	0.00	62.47	1,119.59	285.37	621.47	526.10	83.31	-5.09	0.122
165.00	-3.32	-4.45	0.00	-53.05	0.00	53.05	1,104.26	278.92	593.72	507.06	85.45	-5.12	0.108
169.00	-2.72	-3.73	0.00	-35.26	0.00	35.26	1,072.22	266.03	540.10	469.37	89.76	-5.17	0.078

Site Number: 302465

Code: ANSI/TIA-222-H

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Site Name: Colchester CT 6, CT

Engineering Number: 13668833_C3_02

5/5/2021 10:18:08 AM

Customer: VERIZON WIRELESS

Load Case: 1.2D + 1.0W

122 mph with No Ice

25 Iterations

Gust Response Factor : 1.10

Dead Load Factor : 1.20

Wind Load Factor : 1.00

170.00	-2.66	-3.60	0.00	-31.53	0.00	31.53	1,063.92	262.80	527.10	460.03	90.84	-5.18	0.071
172.00	-2.49	-3.24	0.00	-24.33	0.00	24.33	1,046.98	256.35	501.56	441.49	93.01	-5.20	0.058
175.00	-2.30	-2.92	0.00	-14.62	0.00	14.62	1,020.70	246.68	464.44	414.00	96.28	-5.22	0.038
180.00	0.00	-2.70	0.00	0.00	0.00	0.00	968.36	230.56	405.75	366.83	101.75	-5.23	0.000

Load Case: 0.9D + 1.0W

122 mph with No Ice (Reduced DL)

25 Iterations

Gust Response Factor : 1.10

Dead Load Factor : 0.90

Wind Load Factor : 1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-44.17	-33.91	0.00	-3,912.13	0.00	3,912.13	5,229.17	1,571.49	9,421.69	6,783.18	0.00	0.00	0.586
5.00	-42.59	-33.29	0.00	-3,742.60	0.00	3,742.60	5,190.65	1,539.25	9,039.18	6,594.14	0.06	-0.12	0.576
10.00	-41.03	-32.69	0.00	-3,576.15	0.00	3,576.15	5,149.25	1,507.01	8,664.60	6,403.58	0.25	-0.24	0.567
15.00	-39.51	-32.09	0.00	-3,412.72	0.00	3,412.72	5,104.97	1,474.78	8,297.94	6,211.74	0.57	-0.36	0.558
20.00	-38.01	-31.51	0.00	-3,252.27	0.00	3,252.27	5,057.81	1,442.54	7,939.21	6,018.84	1.01	-0.48	0.548
25.00	-36.55	-30.93	0.00	-3,094.74	0.00	3,094.74	5,007.77	1,410.30	7,588.41	5,825.12	1.59	-0.61	0.539
30.00	-35.11	-30.36	0.00	-2,940.09	0.00	2,940.09	4,954.85	1,378.06	7,245.53	5,630.81	2.30	-0.74	0.530
35.00	-33.71	-29.77	0.00	-2,788.31	0.00	2,788.31	4,899.05	1,345.82	6,910.58	5,436.14	3.14	-0.87	0.520
40.00	-32.34	-29.25	0.00	-2,639.44	0.00	2,639.44	4,840.37	1,313.58	6,583.55	5,241.34	4.12	-1.00	0.511
43.83	-31.32	-28.94	0.00	-2,527.33	0.00	2,527.33	4,793.44	1,288.87	6,338.20	5,092.05	4.97	-1.11	0.503
45.00	-30.76	-28.56	0.00	-2,493.57	0.00	2,493.57	4,778.81	1,281.34	6,264.45	5,046.65	5.25	-1.14	0.501
50.00	-28.50	-28.15	0.00	-2,350.78	0.00	2,350.78	4,714.38	1,249.11	5,953.28	4,852.29	6.52	-1.28	0.491
51.00	-28.04	-27.84	0.00	-2,322.62	0.00	2,322.62	3,748.95	1,082.35	5,214.40	3,905.86	6.79	-1.31	0.603
55.00	-27.11	-27.28	0.00	-2,211.26	0.00	2,211.26	3,716.58	1,060.25	5,003.62	3,792.47	7.93	-1.42	0.591
60.00	-25.99	-26.66	0.00	-2,074.85	0.00	2,074.85	3,673.53	1,032.61	4,746.27	3,650.12	9.50	-1.58	0.576
65.00	-24.89	-26.03	0.00	-1,941.57	0.00	1,941.57	3,627.60	1,004.98	4,495.71	3,507.29	11.24	-1.74	0.561
70.00	-23.81	-25.40	0.00	-1,811.43	0.00	1,811.43	3,578.79	977.35	4,251.95	3,364.21	13.15	-1.90	0.546
75.00	-22.77	-24.77	0.00	-1,684.43	0.00	1,684.43	3,527.09	949.72	4,014.98	3,221.11	15.23	-2.06	0.530
80.00	-21.75	-24.15	0.00	-1,560.56	0.00	1,560.56	3,472.52	922.08	3,784.80	3,078.24	17.48	-2.23	0.514
85.00	-20.76	-23.64	0.00	-1,439.80	0.00	1,439.80	3,415.07	894.45	3,561.42	2,935.81	19.90	-2.40	0.497
88.08	-20.17	-23.33	0.00	-1,366.91	0.00	1,366.91	3,378.20	877.41	3,427.05	2,848.31	21.49	-2.51	0.487
90.00	-19.54	-22.96	0.00	-1,322.19	0.00	1,322.19	3,354.74	866.82	3,344.83	2,794.06	22.51	-2.57	0.480
94.00	-18.30	-22.61	0.00	-1,230.36	0.00	1,230.36	2,549.41	716.07	2,738.82	2,107.92	24.72	-2.71	0.592
95.00	-18.11	-22.26	0.00	-1,207.75	0.00	1,207.75	2,541.91	711.46	2,703.72	2,088.10	25.29	-2.75	0.587
100.00	-17.30	-21.66	0.00	-1,096.43	0.00	1,096.43	2,502.69	688.43	2,531.57	1,988.82	28.27	-2.94	0.559
105.00	-16.52	-21.07	0.00	-988.11	0.00	988.11	2,460.58	665.41	2,365.09	1,889.44	31.46	-3.14	0.531
110.00	-15.75	-20.49	0.00	-882.74	0.00	882.74	2,415.60	642.38	2,204.27	1,790.18	34.84	-3.33	0.501
115.00	-15.02	-19.92	0.00	-780.29	0.00	780.29	2,367.74	619.35	2,049.12	1,691.27	38.43	-3.52	0.469
120.00	-14.30	-19.35	0.00	-680.71	0.00	680.71	2,317.00	596.32	1,899.62	1,592.95	42.22	-3.71	0.435
125.00	-13.61	-18.80	0.00	-583.94	0.00	583.94	2,263.38	573.30	1,755.79	1,495.45	46.20	-3.89	0.398
130.00	-12.95	-18.34	0.00	-489.93	0.00	489.93	2,206.88	550.27	1,617.62	1,398.99	50.37	-4.06	0.357
133.42	-12.52	-18.06	0.00	-427.28	0.00	427.28	2,166.61	534.53	1,526.45	1,333.80	53.32	-4.18	0.327
135.00	-12.21	-17.81	0.00	-398.69	0.00	398.69	2,147.49	527.24	1,485.11	1,303.81	54.71	-4.23	0.313
138.00	-9.43	-14.55	0.00	-343.60	0.00	343.60	1,272.33	365.96	1,021.95	768.31	57.40	-4.32	0.456
140.00	-9.24	-14.21	0.00	-314.49	0.00	314.49	1,262.76	359.52	986.26	749.00	59.22	-4.38	0.429
145.00	-8.79	-13.71	0.00	-243.47	0.00	243.47	1,236.82	343.40	899.83	700.48	63.90	-4.56	0.356
150.00	-5.85	-8.99	0.00	-173.27	0.00	173.27	1,208.00	327.28	817.35	651.79	68.77	-4.72	0.271
155.00	-5.54	-8.52	0.00	-128.30	0.00	128.30	1,176.30	311.16	738.84	603.17	73.77	-4.85	0.218
160.00	-5.25	-8.15	0.00	-85.69	0.00	85.69	1,141.72	295.04	664.30	554.85	78.90	-4.95	0.160
163.00	-2.50	-4.62	0.00	-61.23	0.00	61.23	1,119.59	285.37	621.47	526.10	82.03	-5.00	0.119
165.00	-2.40	-4.36	0.00	-51.99	0.00	51.99	1,104.26	278.92	593.72	507.06	84.13	-5.03	0.105
169.00	-1.97	-3.65	0.00	-34.54	0.00	34.54	1,072.22	266.03	540.10	469.37	88.36	-5.08	0.076

Site Number: 302465

Code: ANSI/TIA-222-H

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Site Name: Colchester CT 6, CT

Engineering Number: 13668833_C3_02

5/5/2021 10:18:12 AM

Customer: VERIZON WIRELESS

Load Case: 0.9D + 1.0W

122 mph with No Ice (Reduced DL)

25 Iterations

Gust Response Factor : 1.10

Dead Load Factor : 0.90

Wind Load Factor : 1.00

170.00	-1.92	-3.53	0.00	-30.89	0.00	30.89	1,063.92	262.80	527.10	460.03	89.42	-5.09	0.069
172.00	-1.80	-3.17	0.00	-23.82	0.00	23.82	1,046.98	256.35	501.56	441.49	91.55	-5.11	0.056
175.00	-1.67	-2.86	0.00	-14.31	0.00	14.31	1,020.70	246.68	464.44	414.00	94.77	-5.13	0.036
180.00	0.00	-2.70	0.00	0.00	0.00	0.00	968.36	230.56	405.75	366.83	100.14	-5.14	0.000

Load Case: 1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice	24 Iterations
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00	
Dead Load Factor : 1.20		Ice Importance Factor : 1.00
Wind Load Factor : 1.00		

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-76.03	-7.62	0.00	-910.63	0.00	910.63	5,229.17	1,571.49	9,421.69	6,783.18	0.00	0.00	0.149
5.00	-73.69	-7.50	0.00	-872.55	0.00	872.55	5,190.65	1,539.25	9,039.18	6,594.14	0.01	-0.03	0.147
10.00	-71.36	-7.38	0.00	-835.06	0.00	835.06	5,149.25	1,507.01	8,664.60	6,403.58	0.06	-0.06	0.144
15.00	-69.05	-7.27	0.00	-798.14	0.00	798.14	5,104.97	1,474.78	8,297.94	6,211.74	0.13	-0.08	0.142
20.00	-66.77	-7.15	0.00	-761.81	0.00	761.81	5,057.81	1,442.54	7,939.21	6,018.84	0.24	-0.11	0.140
25.00	-64.54	-7.04	0.00	-726.04	0.00	726.04	5,007.77	1,410.30	7,588.41	5,825.12	0.37	-0.14	0.138
30.00	-62.34	-6.93	0.00	-690.83	0.00	690.83	4,954.85	1,378.06	7,245.53	5,630.81	0.54	-0.17	0.135
35.00	-60.18	-6.81	0.00	-656.19	0.00	656.19	4,899.05	1,345.82	6,910.58	5,436.14	0.73	-0.20	0.133
40.00	-58.06	-6.71	0.00	-622.12	0.00	622.12	4,840.37	1,313.58	6,583.55	5,241.34	0.96	-0.23	0.131
43.83	-56.46	-6.64	0.00	-596.41	0.00	596.41	4,793.44	1,288.87	6,338.20	5,092.05	1.16	-0.26	0.129
45.00	-55.68	-6.57	0.00	-588.66	0.00	588.66	4,778.81	1,281.34	6,264.45	5,046.65	1.23	-0.27	0.128
50.00	-52.36	-6.48	0.00	-555.81	0.00	555.81	4,714.38	1,249.11	5,953.28	4,852.29	1.52	-0.30	0.126
51.00	-51.70	-6.42	0.00	-549.33	0.00	549.33	3,748.95	1,082.35	5,214.40	3,905.86	1.59	-0.31	0.154
55.00	-50.25	-6.31	0.00	-523.65	0.00	523.65	3,716.58	1,060.25	5,003.62	3,792.47	1.86	-0.33	0.152
60.00	-48.48	-6.18	0.00	-492.12	0.00	492.12	3,673.53	1,032.61	4,746.27	3,650.12	2.23	-0.37	0.148
65.00	-46.74	-6.05	0.00	-461.22	0.00	461.22	3,627.60	1,004.98	4,495.71	3,507.29	2.63	-0.41	0.144
70.00	-45.04	-5.92	0.00	-430.97	0.00	430.97	3,578.79	977.35	4,251.95	3,364.21	3.08	-0.45	0.141
75.00	-43.38	-5.79	0.00	-401.35	0.00	401.35	3,527.09	949.72	4,014.98	3,221.11	3.57	-0.49	0.137
80.00	-41.76	-5.66	0.00	-372.39	0.00	372.39	3,472.52	922.08	3,784.80	3,078.24	4.10	-0.53	0.133
85.00	-40.19	-5.55	0.00	-344.08	0.00	344.08	3,415.07	894.45	3,561.42	2,935.81	4.68	-0.57	0.129
88.08	-39.23	-5.49	0.00	-326.95	0.00	326.95	3,378.20	877.41	3,427.05	2,848.31	5.05	-0.59	0.126
90.00	-38.31	-5.41	0.00	-316.43	0.00	316.43	3,354.74	866.82	3,344.83	2,794.06	5.29	-0.61	0.125
94.00	-36.43	-5.33	0.00	-294.79	0.00	294.79	2,549.41	716.07	2,738.82	2,107.92	5.82	-0.64	0.154
95.00	-36.16	-5.26	0.00	-289.46	0.00	289.46	2,541.91	711.46	2,703.72	2,088.10	5.95	-0.65	0.153
100.00	-34.84	-5.14	0.00	-263.15	0.00	263.15	2,502.69	688.43	2,531.57	1,988.82	6.66	-0.70	0.146
105.00	-33.56	-5.01	0.00	-237.47	0.00	237.47	2,460.58	665.41	2,365.09	1,889.44	7.41	-0.74	0.139
110.00	-32.31	-4.89	0.00	-212.42	0.00	212.42	2,415.60	642.38	2,204.27	1,790.18	8.21	-0.79	0.132
115.00	-31.09	-4.76	0.00	-187.99	0.00	187.99	2,367.74	619.35	2,049.12	1,691.27	9.07	-0.84	0.124
120.00	-29.92	-4.64	0.00	-164.17	0.00	164.17	2,317.00	596.32	1,899.62	1,592.95	9.97	-0.88	0.116
125.00	-28.77	-4.52	0.00	-140.97	0.00	140.97	2,263.38	573.30	1,755.79	1,495.45	10.91	-0.92	0.107
130.00	-27.67	-4.41	0.00	-118.38	0.00	118.38	2,206.88	550.27	1,617.62	1,398.99	11.90	-0.97	0.097
133.42	-26.93	-4.35	0.00	-103.29	0.00	103.29	2,166.61	534.53	1,526.45	1,333.80	12.61	-0.99	0.090
135.00	-26.45	-4.30	0.00	-96.40	0.00	96.40	2,147.49	527.24	1,485.11	1,303.81	12.94	-1.01	0.086
138.00	-20.78	-3.50	0.00	-83.18	0.00	83.18	1,272.33	365.96	1,021.95	768.31	13.58	-1.03	0.125
140.00	-20.44	-3.42	0.00	-76.18	0.00	76.18	1,262.76	359.52	986.26	749.00	14.01	-1.04	0.118
145.00	-19.62	-3.31	0.00	-59.07	0.00	59.07	1,236.82	343.40	899.83	700.48	15.13	-1.09	0.100
150.00	-13.17	-2.20	0.00	-42.18	0.00	42.18	1,208.00	327.28	817.35	651.79	16.29	-1.12	0.076
155.00	-12.53	-2.09	0.00	-31.18	0.00	31.18	1,176.30	311.16	738.84	603.17	17.49	-1.16	0.062
160.00	-11.91	-2.00	0.00	-20.74	0.00	20.74	1,141.72	295.04	664.30	554.85	18.71	-1.18	0.048
163.00	-5.96	-1.11	0.00	-14.75	0.00	14.75	1,119.59	285.37	621.47	526.10	19.46	-1.19	0.033
165.00	-5.73	-1.05	0.00	-12.52	0.00	12.52	1,104.26	278.92	593.72	507.06	19.96	-1.20	0.030
169.00	-4.86	-0.88	0.00	-8.30	0.00	8.30	1,072.22	266.03	540.10	469.37	20.97	-1.21	0.022

Site Number: 302465

Code: ANSI/TIA-222-H

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Site Name: Colchester CT 6, CT

Engineering Number: 13668833_C3_02

5/5/2021 10:18:16 AM

Customer: VERIZON WIRELESS

Load Case: 1.2D + 1.0Di + 1.0Wi

50 mph with 1.00 in Radial Ice

24 Iterations

Gust Response Factor : 1.10

Ice Dead Load Factor : 1.00

Dead Load Factor : 1.20

Ice Importance Factor : 1.00

Wind Load Factor : 1.00

170.00	-4.76	-0.85	0.00	-7.42	0.00	7.42	1,063.92	262.80	527.10	460.03	21.23	-1.22	0.021
172.00	-4.44	-0.76	0.00	-5.71	0.00	5.71	1,046.98	256.35	501.56	441.49	21.74	-1.22	0.017
175.00	-4.13	-0.69	0.00	-3.43	0.00	3.43	1,020.70	246.68	464.44	414.00	22.50	-1.22	0.012
180.00	0.00	-0.60	0.00	0.00	0.00	0.00	968.36	230.56	405.75	366.83	23.79	-1.23	0.000

Load Case: 1.0D + 1.0W	Serviceability 60 mph	24 Iterations
Gust Response Factor : 1.10		
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-49.12	-7.34	0.00	-850.37	0.00	850.37	5,229.17	1,571.49	9,421.69	6,783.18	0.00	0.00	0.135
5.00	-47.43	-7.21	0.00	-813.68	0.00	813.68	5,190.65	1,539.25	9,039.18	6,594.14	0.01	-0.03	0.133
10.00	-45.77	-7.08	0.00	-777.64	0.00	777.64	5,149.25	1,507.01	8,664.60	6,403.58	0.05	-0.05	0.130
15.00	-44.15	-6.95	0.00	-742.25	0.00	742.25	5,104.97	1,474.78	8,297.94	6,211.74	0.12	-0.08	0.128
20.00	-42.56	-6.83	0.00	-707.49	0.00	707.49	5,057.81	1,442.54	7,939.21	6,018.84	0.22	-0.11	0.126
25.00	-41.00	-6.70	0.00	-673.35	0.00	673.35	5,007.77	1,410.30	7,588.41	5,825.12	0.34	-0.13	0.124
30.00	-39.47	-6.58	0.00	-639.83	0.00	639.83	4,954.85	1,378.06	7,245.53	5,630.81	0.50	-0.16	0.122
35.00	-37.97	-6.46	0.00	-606.92	0.00	606.92	4,899.05	1,345.82	6,910.58	5,436.14	0.68	-0.19	0.119
40.00	-36.50	-6.34	0.00	-574.63	0.00	574.63	4,840.37	1,313.58	6,583.55	5,241.34	0.90	-0.22	0.117
43.83	-35.40	-6.28	0.00	-550.31	0.00	550.31	4,793.44	1,288.87	6,338.20	5,092.05	1.08	-0.24	0.115
45.00	-34.81	-6.20	0.00	-542.98	0.00	542.98	4,778.81	1,281.34	6,264.45	5,046.65	1.14	-0.25	0.115
50.00	-32.34	-6.11	0.00	-511.99	0.00	511.99	4,714.38	1,249.11	5,953.28	4,852.29	1.42	-0.28	0.112
51.00	-31.85	-6.04	0.00	-505.88	0.00	505.88	3,748.95	1,082.35	5,214.40	3,905.86	1.48	-0.28	0.138
55.00	-30.88	-5.92	0.00	-481.71	0.00	481.71	3,716.58	1,060.25	5,003.62	3,792.47	1.72	-0.31	0.135
60.00	-29.69	-5.79	0.00	-452.09	0.00	452.09	3,673.53	1,032.61	4,746.27	3,650.12	2.07	-0.34	0.132
65.00	-28.52	-5.66	0.00	-423.14	0.00	423.14	3,627.60	1,004.98	4,495.71	3,507.29	2.45	-0.38	0.129
70.00	-27.38	-5.52	0.00	-394.86	0.00	394.86	3,578.79	977.35	4,251.95	3,364.21	2.86	-0.41	0.125
75.00	-26.27	-5.39	0.00	-367.25	0.00	367.25	3,527.09	949.72	4,014.98	3,221.11	3.31	-0.45	0.121
80.00	-25.18	-5.25	0.00	-340.32	0.00	340.32	3,472.52	922.08	3,784.80	3,078.24	3.80	-0.49	0.118
85.00	-24.13	-5.14	0.00	-314.05	0.00	314.05	3,415.07	894.45	3,561.42	2,935.81	4.33	-0.52	0.114
88.08	-23.49	-5.08	0.00	-298.19	0.00	298.19	3,378.20	877.41	3,427.05	2,848.31	4.68	-0.55	0.112
90.00	-22.82	-5.00	0.00	-288.46	0.00	288.46	3,354.74	866.82	3,344.83	2,794.06	4.90	-0.56	0.110
94.00	-21.45	-4.92	0.00	-268.47	0.00	268.47	2,549.41	716.07	2,738.82	2,107.92	5.38	-0.59	0.136
95.00	-21.28	-4.85	0.00	-263.55	0.00	263.55	2,541.91	711.46	2,703.72	2,088.10	5.51	-0.60	0.135
100.00	-20.42	-4.72	0.00	-239.31	0.00	239.31	2,502.69	688.43	2,531.57	1,988.82	6.16	-0.64	0.129
105.00	-19.59	-4.59	0.00	-215.71	0.00	215.71	2,460.58	665.41	2,365.09	1,889.44	6.85	-0.68	0.122
110.00	-18.78	-4.47	0.00	-192.75	0.00	192.75	2,415.60	642.38	2,204.27	1,790.18	7.59	-0.73	0.115
115.00	-17.99	-4.34	0.00	-170.41	0.00	170.41	2,367.74	619.35	2,049.12	1,691.27	8.37	-0.77	0.108
120.00	-17.22	-4.22	0.00	-148.69	0.00	148.69	2,317.00	596.32	1,899.62	1,592.95	9.20	-0.81	0.101
125.00	-16.48	-4.10	0.00	-127.58	0.00	127.58	2,263.38	573.30	1,755.79	1,495.45	10.06	-0.85	0.093
130.00	-15.76	-4.00	0.00	-107.06	0.00	107.06	2,206.88	550.27	1,617.62	1,398.99	10.97	-0.89	0.084
133.42	-15.28	-3.94	0.00	-93.38	0.00	93.38	2,166.61	534.53	1,526.45	1,333.80	11.62	-0.91	0.077
135.00	-14.94	-3.89	0.00	-87.13	0.00	87.13	2,147.49	527.24	1,485.11	1,303.81	11.92	-0.92	0.074
138.00	-11.62	-3.18	0.00	-75.10	0.00	75.10	1,272.33	365.96	1,021.95	768.31	12.51	-0.94	0.107
140.00	-11.42	-3.10	0.00	-68.75	0.00	68.75	1,262.76	359.52	986.26	749.00	12.90	-0.96	0.101
145.00	-10.92	-3.00	0.00	-53.23	0.00	53.23	1,236.82	343.40	899.83	700.48	13.93	-0.99	0.085
150.00	-7.28	-1.97	0.00	-37.89	0.00	37.89	1,208.00	327.28	817.35	651.79	14.99	-1.03	0.064
155.00	-6.91	-1.86	0.00	-28.06	0.00	28.06	1,176.30	311.16	738.84	603.17	16.08	-1.06	0.052
160.00	-6.56	-1.78	0.00	-18.74	0.00	18.74	1,141.72	295.04	664.30	554.85	17.20	-1.08	0.040
163.00	-3.19	-1.01	0.00	-13.39	0.00	13.39	1,119.59	285.37	621.47	526.10	17.88	-1.09	0.028
165.00	-3.07	-0.95	0.00	-11.37	0.00	11.37	1,104.26	278.92	593.72	507.06	18.34	-1.10	0.025
169.00	-2.52	-0.80	0.00	-7.55	0.00	7.55	1,072.22	266.03	540.10	469.37	19.27	-1.11	0.018

Site Number: 302465

Code: ANSI/TIA-222-H

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Site Name: Colchester CT 6, CT

Engineering Number: 13668833_C3_02

5/5/2021 10:18:19 AM

Customer: VERIZON WIRELESS

Load Case: 1.0D + 1.0W

Serviceability 60 mph

24 Iterations

Gust Response Factor : 1.10

Dead Load Factor : 1.00

Wind Load Factor : 1.00

170.00	-2.46	-0.77	0.00	-6.76	0.00	6.76	1,063.92	262.80	527.10	460.03	19.50	-1.11	0.017
172.00	-2.29	-0.69	0.00	-5.21	0.00	5.21	1,046.98	256.35	501.56	441.49	19.97	-1.11	0.014
175.00	-2.12	-0.63	0.00	-3.13	0.00	3.13	1,020.70	246.68	464.44	414.00	20.67	-1.12	0.010
180.00	0.00	-0.58	0.00	0.00	0.00	0.00	968.36	230.56	405.75	366.83	21.84	-1.12	0.000

Site Number: 302465

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Site Name: Colchester CT 6, CT

Engineering Number: 13668833_C3_02

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Customer: VERIZON WIRELESS

Equivalent Lateral Forces Method Analysis

Spectral Response Acceleration for Short Period (S_s):	0.20
Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.05
Long-Period Transition Period (T_L):	6
Importance Factor (I_E):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.22
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.09
Seismic Response Coefficient (C_s):	0.03
Upper Limit C_s	0.03
Lower Limit C_s	0.03
Period based on Rayleigh Method (sec):	2.49
Redundancy Factor (p):	1.00
Seismic Force Distribution Exponent (k):	2.00
Total Unfactored Dead Load:	49.12 k
Seismic Base Shear (E):	1.47 k

Load Case 1.2D + 1.0Ev + 1.0Eh

Seismic

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
45	177.50	276	8,529	0.017	24	343
44	173.50	173	5,111	0.010	15	215
43	171.00	119	3,412	0.007	10	148
42	169.50	60	1,703	0.003	5	75
41	167.00	248	6,783	0.013	19	308
40	164.00	128	3,370	0.007	10	159
39	161.50	204	5,222	0.010	15	254
38	157.50	353	8,583	0.017	25	438
37	152.50	368	8,404	0.016	24	458
36	147.50	484	10,343	0.020	30	602
35	142.50	500	9,967	0.019	28	622
34	139.00	206	3,908	0.008	11	256
33	136.50	624	11,410	0.022	33	776
32	134.21	335	5,919	0.011	17	416
31	131.71	479	8,165	0.016	23	596
30	127.50	720	11,498	0.022	33	896
29	122.50	742	10,945	0.021	31	923
28	117.50	765	10,374	0.020	30	951
27	112.50	787	9,789	0.019	28	979
26	107.50	809	9,193	0.018	26	1,007
25	102.50	832	8,590	0.017	25	1,034
24	97.50	854	7,982	0.015	23	1,062
23	94.50	173	1,523	0.003	4	216
22	92.00	1,367	11,375	0.022	32	1,700
21	89.04	666	5,193	0.010	15	828

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Site Name: Colchester CT 6, CT

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Customer: VERIZON WIRELESS

20	86.54	638	4,699	0.009	13	793
19	82.50	1,056	7,071	0.014	20	1,313
18	77.50	1,083	6,400	0.012	18	1,347
17	72.50	1,110	5,741	0.011	16	1,380
16	67.50	1,136	5,098	0.010	15	1,413
15	62.50	1,163	4,475	0.009	13	1,447
14	57.50	1,190	3,876	0.008	11	1,480
13	53.00	971	2,688	0.005	8	1,208
12	50.50	487	1,224	0.002	3	606
11	47.50	2,470	5,494	0.011	16	3,072
10	44.42	585	1,137	0.002	3	727
9	41.92	1,102	1,909	0.004	5	1,370
8	37.50	1,465	2,032	0.004	6	1,822
7	32.50	1,496	1,560	0.003	4	1,860
6	27.50	1,527	1,141	0.002	3	1,899
5	22.50	1,558	780	0.002	2	1,938
4	17.50	1,590	482	0.001	1	1,977
3	12.50	1,621	251	0.000	1	2,016
2	7.50	1,652	92	0.000	0	2,055
1	2.50	1,683	10	0.000	0	2,094
Alcatel-Lucent RRH2x	180.00	317	10,088	0.020	29	395
Alcatel-Lucent 1900	180.00	180	5,721	0.011	16	224
Alcatel-Lucent TD-RR	180.00	210	6,674	0.013	19	261
RFS APXVTM14-ALU-I20	180.00	169	5,359	0.010	15	210
Round T-Arm	180.00	750	23,837	0.046	68	933
Commscope NNVV-65B-R	180.00	232	7,380	0.014	21	289
Generic 6' Omni	172.00	50	1,451	0.003	4	62
Round Side Arm	169.00	300	8,407	0.016	24	373
Commscope CBC78T-DS-	163.00	62	1,619	0.003	5	77
Samsung B5/B13 RRH-B	163.00	211	5,499	0.011	16	262
Samsung B2/B66A RRH-	163.00	253	6,602	0.013	19	315
RFS DB-B1-6C-12AB-0Z	163.00	43	1,116	0.002	3	53
Samsung MT6407-77A	163.00	245	6,383	0.012	18	304
Commscope JAHH-65B-R	163.00	364	9,480	0.018	27	452
Round Platform w/ Ha	163.00	2,000	52,146	0.101	149	2,487
LGP Allgon LGP21903	150.00	33	729	0.001	2	41
Powerwave Allgon LGP	150.00	85	1,869	0.004	5	105
Raycap DC6-48-60-18-	150.00	40	883	0.002	3	50
Ericsson Radio 8843	150.00	216	4,764	0.009	14	268
Ericsson RRUS 4449 B	150.00	213	4,704	0.009	13	265
Powerwave Allgon 777	150.00	105	2,319	0.004	7	131
CCI HPA65R-BU6A	150.00	42	925	0.002	3	52
CCI HPA65R-BU8A	150.00	108	2,385	0.005	7	134
Kathrein Scala 80010	150.00	98	2,156	0.004	6	121
Kathrein Scala 80010	150.00	229	5,062	0.010	14	285
Round Platform w/ Ha	150.00	2,000	44,173	0.086	126	2,487
Ericsson RRUS 11 B2	138.00	152	2,844	0.006	8	189
Ericsson RRUS 11 B4	138.00	152	2,844	0.006	8	189
Ericsson RRUS 11 B12	138.00	152	2,844	0.006	8	189
RFS APX16DWV-16DWVS-	138.00	122	2,283	0.004	7	152
Commscope LNX-6515DS	138.00	131	2,452	0.005	7	163
Round Platform w/ Ha	138.00	2,000	37,400	0.073	107	2,487
		49,118	515,852	1.000	1,474	61,089

Load Case 0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
45	177.50	276	8,529	0.017	24	236
44	173.50	173	5,111	0.010	15	148
43	171.00	119	3,412	0.007	10	102

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Customer: VERIZON WIRELESS

42	169.50	60	1,703	0.003	5	52
41	167.00	248	6,783	0.013	19	212
40	164.00	128	3,370	0.007	10	109
39	161.50	204	5,222	0.010	15	175
38	157.50	353	8,583	0.017	25	302
37	152.50	368	8,404	0.016	24	315
36	147.50	484	10,343	0.020	30	415
35	142.50	500	9,967	0.019	28	428
34	139.00	206	3,908	0.008	11	176
33	136.50	624	11,410	0.022	33	534
32	134.21	335	5,919	0.011	17	287
31	131.71	479	8,165	0.016	23	410
30	127.50	720	11,498	0.022	33	617
29	122.50	742	10,945	0.021	31	636
28	117.50	765	10,374	0.020	30	655
27	112.50	787	9,789	0.019	28	674
26	107.50	809	9,193	0.018	26	693
25	102.50	832	8,590	0.017	25	712
24	97.50	854	7,982	0.015	23	731
23	94.50	173	1,523	0.003	4	149
22	92.00	1,367	11,375	0.022	32	1,170
21	89.04	666	5,193	0.010	15	570
20	86.54	638	4,699	0.009	13	546
19	82.50	1,056	7,071	0.014	20	904
18	77.50	1,083	6,400	0.012	18	927
17	72.50	1,110	5,741	0.011	16	950
16	67.50	1,136	5,098	0.010	15	973
15	62.50	1,163	4,475	0.009	13	996
14	57.50	1,190	3,876	0.008	11	1,019
13	53.00	971	2,688	0.005	8	832
12	50.50	487	1,224	0.002	3	417
11	47.50	2,470	5,494	0.011	16	2,115
10	44.42	585	1,137	0.002	3	501
9	41.92	1,102	1,909	0.004	5	943
8	37.50	1,465	2,032	0.004	6	1,254
7	32.50	1,496	1,560	0.003	4	1,281
6	27.50	1,527	1,141	0.002	3	1,308
5	22.50	1,558	780	0.002	2	1,334
4	17.50	1,590	482	0.001	1	1,361
3	12.50	1,621	251	0.000	1	1,388
2	7.50	1,652	92	0.000	0	1,415
1	2.50	1,683	10	0.000	0	1,441
Alcatel-Lucent RRH2x	180.00	317	10,088	0.020	29	272
Alcatel-Lucent 1900	180.00	180	5,721	0.011	16	154
Alcatel-Lucent TD-RR	180.00	210	6,674	0.013	19	180
RFS APXVTM14-ALU-I20	180.00	169	5,359	0.010	15	144
Round T-Arm	180.00	750	23,837	0.046	68	642
Commscope NNVV-65B-R	180.00	232	7,380	0.014	21	199
Generic 6' Omni	172.00	50	1,451	0.003	4	43
Round Side Arm	169.00	300	8,407	0.016	24	257
Commscope CBC78T-DS-	163.00	62	1,619	0.003	5	53
Samsung B5/B13 RRH-B	163.00	211	5,499	0.011	16	181
Samsung B2/B66A RRH-	163.00	253	6,602	0.013	19	217
RFS DB-B1-6C-12AB-OZ	163.00	43	1,116	0.002	3	37
Samsung MT6407-77A	163.00	245	6,383	0.012	18	210
Commscope JAHH-65B-R	163.00	364	9,480	0.018	27	311
Round Platform w/ Ha	163.00	2,000	52,146	0.101	149	1,713
LGP Allgon LGP21903	150.00	33	729	0.001	2	28
Powerwave Allgon LGP	150.00	85	1,869	0.004	5	72
Raycap DC6-48-60-18-	150.00	40	883	0.002	3	34
Ericsson Radio 8843	150.00	216	4,764	0.009	14	185
Ericsson RRUS 4449 B	150.00	213	4,704	0.009	13	182
Powerwave Allgon 777	150.00	105	2,319	0.004	7	90
CCI HPA65R-BU6A	150.00	42	925	0.002	3	36

Site Number: 302465

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5/5/2021 10:18:19 AM

Customer: VERIZON WIRELESS

CCI HPA65R-BU8A	150.00	108	2,385	0.005	7	92
Kathrein Scala 80010	150.00	98	2,156	0.004	6	84
Kathrein Scala 80010	150.00	229	5,062	0.010	14	196
Round Platform w/ Ha	150.00	2,000	44,173	0.086	126	1,713
Ericsson RRUS 11 B2	138.00	152	2,844	0.006	8	130
Ericsson RRUS 11 B4	138.00	152	2,844	0.006	8	130
Ericsson RRUS 11 B12	138.00	152	2,844	0.006	8	130
RFS APX16DWV-16DWVS-	138.00	122	2,283	0.004	7	105
Commscope LNX-6515DS	138.00	131	2,452	0.005	7	112
Round Platform w/ Ha	138.00	2,000	37,400	0.073	107	1,713
		49,118	515,852	1.000	1,474	42,058

Site Number: 302465

Code: ANSI/TIA-222-H

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Site Name: Colchester CT 6, CT

Engineering Number: 13668833_C3_02

5/5/2021 10:18:19 AM

Customer: VERIZON WIRELESS

Load Case 1.2D + 1.0Ev + 1.0Eh

Seismic

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-59.00	-1.48	0.00	-212.25	0.00	212.25	5,229.17	1,571.49	9,421.69	6,783.18	0.00	0.00	0.043
5.00	-56.94	-1.48	0.00	-204.86	0.00	204.86	5,190.65	1,539.25	9,039.18	6,594.14	0.00	-0.01	0.042
10.00	-54.92	-1.49	0.00	-197.45	0.00	197.45	5,149.25	1,507.01	8,664.60	6,403.58	0.01	-0.01	0.042
15.00	-52.95	-1.49	0.00	-190.01	0.00	190.01	5,104.97	1,474.78	8,297.94	6,211.74	0.03	-0.02	0.041
20.00	-51.01	-1.50	0.00	-182.55	0.00	182.55	5,057.81	1,442.54	7,939.21	6,018.84	0.06	-0.03	0.040
25.00	-49.11	-1.50	0.00	-175.08	0.00	175.08	5,007.77	1,410.30	7,588.41	5,825.12	0.09	-0.03	0.040
30.00	-47.25	-1.50	0.00	-167.59	0.00	167.59	4,954.85	1,378.06	7,245.53	5,630.81	0.13	-0.04	0.039
35.00	-45.43	-1.50	0.00	-160.10	0.00	160.10	4,899.05	1,345.82	6,910.58	5,436.14	0.17	-0.05	0.039
40.00	-44.06	-1.50	0.00	-152.62	0.00	152.62	4,840.37	1,313.58	6,583.55	5,241.34	0.23	-0.06	0.038
43.83	-43.33	-1.49	0.00	-146.89	0.00	146.89	4,793.44	1,288.87	6,338.20	5,092.05	0.28	-0.06	0.038
45.00	-40.26	-1.48	0.00	-145.15	0.00	145.15	4,778.81	1,281.34	6,264.45	5,046.65	0.29	-0.06	0.037
50.00	-39.65	-1.48	0.00	-137.76	0.00	137.76	4,714.38	1,249.11	5,953.28	4,852.29	0.36	-0.07	0.037
51.00	-38.44	-1.47	0.00	-136.28	0.00	136.28	3,748.95	1,082.35	5,214.40	3,905.86	0.38	-0.07	0.045
55.00	-36.96	-1.46	0.00	-130.39	0.00	130.39	3,716.58	1,060.25	5,003.62	3,792.47	0.44	-0.08	0.044
60.00	-35.52	-1.45	0.00	-123.08	0.00	123.08	3,673.53	1,032.61	4,746.27	3,650.12	0.53	-0.09	0.043
65.00	-34.10	-1.44	0.00	-115.81	0.00	115.81	3,627.60	1,004.98	4,495.71	3,507.29	0.63	-0.10	0.042
70.00	-32.72	-1.43	0.00	-108.59	0.00	108.59	3,578.79	977.35	4,251.95	3,364.21	0.74	-0.11	0.041
75.00	-31.38	-1.41	0.00	-101.44	0.00	101.44	3,527.09	949.72	4,014.98	3,221.11	0.86	-0.12	0.040
80.00	-30.06	-1.40	0.00	-94.37	0.00	94.37	3,472.52	922.08	3,784.80	3,078.24	0.99	-0.13	0.039
85.00	-29.27	-1.39	0.00	-87.39	0.00	87.39	3,415.07	894.45	3,561.42	2,935.81	1.13	-0.14	0.038
88.08	-28.44	-1.37	0.00	-83.12	0.00	83.12	3,378.20	877.41	3,427.05	2,848.31	1.22	-0.15	0.038
90.00	-26.74	-1.34	0.00	-80.49	0.00	80.49	3,354.74	866.82	3,344.83	2,794.06	1.28	-0.15	0.037
94.00	-26.52	-1.33	0.00	-75.14	0.00	75.14	2,549.41	716.07	2,738.82	2,107.92	1.41	-0.16	0.046
95.00	-25.46	-1.31	0.00	-73.81	0.00	73.81	2,541.91	711.46	2,703.72	2,088.10	1.45	-0.16	0.045
100.00	-24.43	-1.29	0.00	-67.25	0.00	67.25	2,502.69	688.43	2,531.57	1,988.82	1.62	-0.17	0.044
105.00	-23.42	-1.27	0.00	-60.80	0.00	60.80	2,460.58	665.41	2,365.09	1,889.44	1.81	-0.18	0.042
110.00	-22.44	-1.24	0.00	-54.47	0.00	54.47	2,415.60	642.38	2,204.27	1,790.18	2.01	-0.20	0.040
115.00	-21.49	-1.21	0.00	-48.28	0.00	48.28	2,367.74	619.35	2,049.12	1,691.27	2.22	-0.21	0.038
120.00	-20.57	-1.18	0.00	-42.23	0.00	42.23	2,317.00	596.32	1,899.62	1,592.95	2.44	-0.22	0.035
125.00	-19.67	-1.15	0.00	-36.33	0.00	36.33	2,263.38	573.30	1,755.79	1,495.45	2.68	-0.23	0.033
130.00	-19.07	-1.12	0.00	-30.60	0.00	30.60	2,206.88	550.27	1,617.62	1,398.99	2.93	-0.24	0.031
133.42	-18.66	-1.11	0.00	-26.76	0.00	26.76	2,166.61	534.53	1,526.45	1,333.80	3.10	-0.25	0.029
135.00	-17.88	-1.07	0.00	-25.00	0.00	25.00	2,147.49	527.24	1,485.11	1,303.81	3.19	-0.25	0.028
138.00	-14.26	-0.90	0.00	-21.79	0.00	21.79	1,272.33	365.96	1,021.95	768.31	3.35	-0.26	0.040
140.00	-13.64	-0.87	0.00	-19.98	0.00	19.98	1,262.76	359.52	986.26	749.00	3.46	-0.26	0.037
145.00	-13.03	-0.84	0.00	-15.62	0.00	15.62	1,236.82	343.40	899.83	700.48	3.74	-0.27	0.033
150.00	-8.64	-0.60	0.00	-11.41	0.00	11.41	1,208.00	327.28	817.35	651.79	4.03	-0.28	0.025
155.00	-8.20	-0.57	0.00	-8.41	0.00	8.41	1,176.30	311.16	738.84	603.17	4.33	-0.29	0.021
160.00	-7.94	-0.56	0.00	-5.55	0.00	5.55	1,141.72	295.04	664.30	554.85	4.64	-0.30	0.017
163.00	-3.83	-0.29	0.00	-3.88	0.00	3.88	1,119.59	285.37	621.47	526.10	4.83	-0.30	0.011
165.00	-3.53	-0.27	0.00	-3.30	0.00	3.30	1,104.26	278.92	593.72	507.06	4.96	-0.30	0.010
169.00	-3.08	-0.24	0.00	-2.22	0.00	2.22	1,072.22	266.03	540.10	469.37	5.21	-0.31	0.008
170.00	-2.93	-0.23	0.00	-1.98	0.00	1.98	1,063.92	262.80	527.10	460.03	5.28	-0.31	0.007
172.00	-2.65	-0.21	0.00	-1.53	0.00	1.53	1,046.98	256.35	501.56	441.49	5.41	-0.31	0.006
175.00	-2.31	-0.18	0.00	-0.91	0.00	0.91	1,020.70	246.68	464.44	414.00	5.60	-0.31	0.004
180.00	0.00	-0.17	0.00	0.00	0.00	0.00	968.36	230.56	405.75	366.83	5.92	-0.31	0.000

Site Number: 302465

Code: ANSI/TIA-222-H

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Site Name: Colchester CT 6, CT

Engineering Number: 13668833_C3_02

5/5/2021 10:18:20 AM

Customer: VERIZON WIRELESS

Site Number: 302465

Code: ANSI/TIA-222-H

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Site Name: Colchester CT 6, CT

Engineering Number: 13668833_C3_02

5/5/2021 10:18:20 AM

Customer: VERIZON WIRELESS

Load Case 0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-40.62	-1.47	0.00	-209.09	0.00	209.09	5,229.17	1,571.49	9,421.69	6,783.18	0.00	0.00	0.039
5.00	-39.20	-1.48	0.00	-201.72	0.00	201.72	5,190.65	1,539.25	9,039.18	6,594.14	0.00	-0.01	0.038
10.00	-37.81	-1.48	0.00	-194.33	0.00	194.33	5,149.25	1,507.01	8,664.60	6,403.58	0.01	-0.01	0.038
15.00	-36.45	-1.48	0.00	-186.92	0.00	186.92	5,104.97	1,474.78	8,297.94	6,211.74	0.03	-0.02	0.037
20.00	-35.12	-1.49	0.00	-179.50	0.00	179.50	5,057.81	1,442.54	7,939.21	6,018.84	0.05	-0.03	0.037
25.00	-33.81	-1.49	0.00	-172.07	0.00	172.07	5,007.77	1,410.30	7,588.41	5,825.12	0.09	-0.03	0.036
30.00	-32.53	-1.48	0.00	-164.64	0.00	164.64	4,954.85	1,378.06	7,245.53	5,630.81	0.12	-0.04	0.036
35.00	-31.27	-1.48	0.00	-157.22	0.00	157.22	4,899.05	1,345.82	6,910.58	5,436.14	0.17	-0.05	0.035
40.00	-30.33	-1.48	0.00	-149.81	0.00	149.81	4,840.37	1,313.58	6,583.55	5,241.34	0.23	-0.06	0.035
43.83	-29.83	-1.48	0.00	-144.14	0.00	144.14	4,793.44	1,288.87	6,338.20	5,092.05	0.27	-0.06	0.035
45.00	-27.72	-1.46	0.00	-142.41	0.00	142.41	4,778.81	1,281.34	6,264.45	5,046.65	0.29	-0.06	0.034
50.00	-27.30	-1.46	0.00	-135.10	0.00	135.10	4,714.38	1,249.11	5,953.28	4,852.29	0.36	-0.07	0.034
51.00	-26.47	-1.45	0.00	-133.64	0.00	133.64	3,748.95	1,082.35	5,214.40	3,905.86	0.37	-0.07	0.041
55.00	-25.45	-1.44	0.00	-127.83	0.00	127.83	3,716.58	1,060.25	5,003.62	3,792.47	0.44	-0.08	0.041
60.00	-24.45	-1.43	0.00	-120.61	0.00	120.61	3,673.53	1,032.61	4,746.27	3,650.12	0.52	-0.09	0.040
65.00	-23.48	-1.42	0.00	-113.44	0.00	113.44	3,627.60	1,004.98	4,495.71	3,507.29	0.62	-0.10	0.039
70.00	-22.53	-1.41	0.00	-106.33	0.00	106.33	3,578.79	977.35	4,251.95	3,364.21	0.73	-0.11	0.038
75.00	-21.60	-1.39	0.00	-99.29	0.00	99.29	3,527.09	949.72	4,014.98	3,221.11	0.85	-0.12	0.037
80.00	-20.70	-1.37	0.00	-92.34	0.00	92.34	3,472.52	922.08	3,784.80	3,078.24	0.97	-0.13	0.036
85.00	-20.15	-1.36	0.00	-85.47	0.00	85.47	3,415.07	894.45	3,561.42	2,935.81	1.11	-0.14	0.035
88.08	-19.58	-1.35	0.00	-81.28	0.00	81.28	3,378.20	877.41	3,427.05	2,848.31	1.20	-0.14	0.034
90.00	-18.41	-1.31	0.00	-78.70	0.00	78.70	3,354.74	866.82	3,344.83	2,794.06	1.26	-0.15	0.034
94.00	-18.26	-1.31	0.00	-73.44	0.00	73.44	2,549.41	716.07	2,738.82	2,107.92	1.39	-0.16	0.042
95.00	-17.53	-1.29	0.00	-72.13	0.00	72.13	2,541.91	711.46	2,703.72	2,088.10	1.42	-0.16	0.041
100.00	-16.82	-1.26	0.00	-65.70	0.00	65.70	2,502.69	688.43	2,531.57	1,988.82	1.59	-0.17	0.040
105.00	-16.12	-1.24	0.00	-59.38	0.00	59.38	2,460.58	665.41	2,365.09	1,889.44	1.78	-0.18	0.038
110.00	-15.45	-1.21	0.00	-53.18	0.00	53.18	2,415.60	642.38	2,204.27	1,790.18	1.97	-0.19	0.036
115.00	-14.79	-1.18	0.00	-47.12	0.00	47.12	2,367.74	619.35	2,049.12	1,691.27	2.18	-0.20	0.034
120.00	-14.16	-1.15	0.00	-41.21	0.00	41.21	2,317.00	596.32	1,899.62	1,592.95	2.40	-0.22	0.032
125.00	-13.54	-1.12	0.00	-35.45	0.00	35.45	2,263.38	573.30	1,755.79	1,495.45	2.63	-0.23	0.030
130.00	-13.13	-1.10	0.00	-29.85	0.00	29.85	2,206.88	550.27	1,617.62	1,398.99	2.87	-0.24	0.027
133.42	-12.84	-1.08	0.00	-26.10	0.00	26.10	2,166.61	534.53	1,526.45	1,333.80	3.04	-0.24	0.026
135.00	-12.31	-1.05	0.00	-24.39	0.00	24.39	2,147.49	527.24	1,485.11	1,303.81	3.13	-0.25	0.024
138.00	-9.81	-0.88	0.00	-21.25	0.00	21.25	1,272.33	365.96	1,021.95	768.31	3.28	-0.25	0.035
140.00	-9.39	-0.85	0.00	-19.49	0.00	19.49	1,262.76	359.52	986.26	749.00	3.39	-0.26	0.033
145.00	-8.97	-0.82	0.00	-15.24	0.00	15.24	1,236.82	343.40	899.83	700.48	3.66	-0.27	0.029
150.00	-5.94	-0.58	0.00	-11.13	0.00	11.13	1,208.00	327.28	817.35	651.79	3.95	-0.28	0.022
155.00	-5.64	-0.56	0.00	-8.21	0.00	8.21	1,176.30	311.16	738.84	603.17	4.25	-0.29	0.018
160.00	-5.47	-0.54	0.00	-5.42	0.00	5.42	1,141.72	295.04	664.30	554.85	4.55	-0.29	0.015
163.00	-2.64	-0.28	0.00	-3.79	0.00	3.79	1,119.59	285.37	621.47	526.10	4.73	-0.30	0.010
165.00	-2.43	-0.26	0.00	-3.22	0.00	3.22	1,104.26	278.92	593.72	507.06	4.86	-0.30	0.009
169.00	-2.12	-0.23	0.00	-2.17	0.00	2.17	1,072.22	266.03	540.10	469.37	5.11	-0.30	0.007
170.00	-2.02	-0.22	0.00	-1.94	0.00	1.94	1,063.92	262.80	527.10	460.03	5.17	-0.30	0.006
172.00	-1.83	-0.20	0.00	-1.49	0.00	1.49	1,046.98	256.35	501.56	441.49	5.30	-0.30	0.005
175.00	-1.59	-0.18	0.00	-0.89	0.00	0.89	1,020.70	246.68	464.44	414.00	5.49	-0.30	0.004
180.00	0.00	-0.17	0.00	0.00	0.00	0.00	968.36	230.56	405.75	366.83	5.81	-0.30	0.000

Site Number: 302465

Code: ANSI/TIA-222-H

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Site Name: Colchester CT 6, CT

Engineering Number: 13668833_C3_02

5/5/2021 10:18:20 AM

Customer: VERIZON WIRELESS

Analysis Summary

Load Case	Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.0W	33.92	0.00	58.90	0.00	0.00	3954.47	51.00	0.61
0.9D + 1.0W	33.91	0.00	44.17	0.00	0.00	3912.13	51.00	0.60
1.2D + 1.0Di + 1.0Wi	7.62	0.00	76.03	0.00	0.00	910.63	51.00	0.15
1.2D + 1.0Ev + 1.0Eh	1.48	0.00	59.00	0.00	0.00	212.25	94.00	0.05
0.9D - 1.0Ev + 1.0Eh	1.47	0.00	40.62	0.00	0.00	209.09	94.00	0.04
1.0D + 1.0W	7.34	0.00	49.12	0.00	0.00	850.37	51.00	0.14



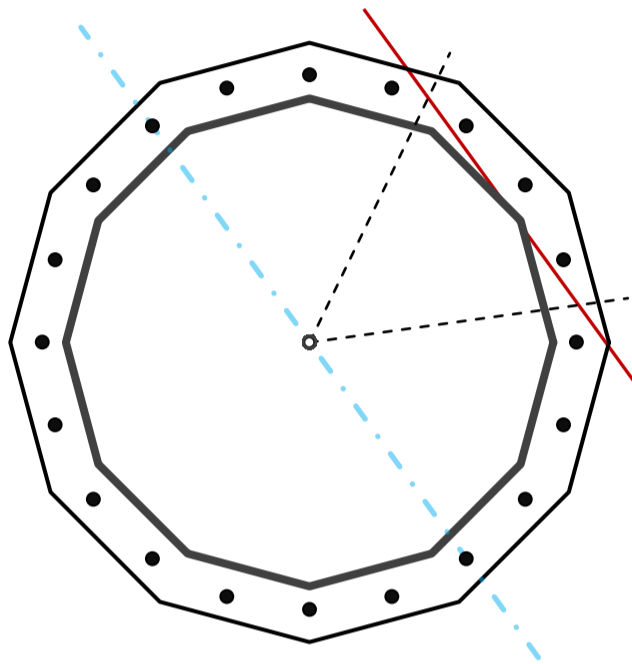
Base Plate & Anchor Rod Analysis

Pole Dimensions		
Number of Sides	12	-
Diameter	64	in
Thickness	7/16	in
Orientation Offset	0	°

Base Reactions		
Moment, Mu	3,954.5	k-ft
Axial, Pu	58.9	k
Shear, Vu	33.9	k
Neutral Axis	306	°

Report Capacities		
Component	Capacity	Result
Base Plate	25%	Pass
Anchor Rods	57%	Pass
Dwyidag	-	-

Base Plate		
Number of Sides	12	-
Diameter, ϕ	78.76	in
Thickness	2 1/2	in
Grade	A871-60	
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	75	ksi
Clip	N/A	in
Orientation Offset	0	°
Anchor Rod Detail	d	$\eta=0.5$
Clear Distance	6	in
Applied Moment, Mu	800.2	k
Bending Stress, ϕMn	3239.4	k



Original Anchor Rods		
Arrangement	Radial	-
Quantity	20	-
Diameter, ϕ	2 1/4	in
Bolt Circle	72.76	in
Grade	A615-75	
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Spacing	11.4	in
Orientation Offset	0	°
Applied Force, Pu	137.7	k
Anchor Rods, ϕPn	243.6	k

Calculations for Monopole Base Plate & Anchor Rod Analysis

Reaction Distribution

Reaction	Shear Vu	Moment Mu	Factor
-	k	k-ft	-
Base Forces	33.9	3954.5	1.00
Anchor Rod Forces	33.9	3954.5	1.00
Additional Bolt (Grp1) Forces	0.0	0.0	0.00
Additional Bolt (Grp2) Forces	0.0	0.0	0.00
Dywidag Forces	0.0	0.0	0.00
Stiffener Forces	0.0	0.0	0.00

Geometric Properties

Section	Gross Area	Net Area	Individual Inertia	Threads per Inch	Moment of Inertia
-	in ²	in ²	in ⁴	#	in ⁴
Pole	86.3687	7.1974	0.4608		43623.80
Bolt	3.9761	3.2477	0.8393	4.5	40239.81
Bolt1	0.0000	0.0000	0.0000	0	0.00
Bolt2	0.0000	0.0000	0.0000	0	0.00
Dywidag	0.0000	0.0000	0.0000		0.00
Stiffener	0.0000	0.0000	0.0000		0.00

Base Plate

Shape	12	-
Width, W	78.76	in
Thickness, t	2.5	in
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	75	ksi
Base Plate Chord	45.904	in
Detail Type	d	-
Detail Factor	0.50	-
Clear Distance	6	-

Anchor Rods

Anchor Rod Quantity, N	20	-
Rod Diameter, d	2.25	in
Bolt Circle, BC	72.76	in
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Applied Axial, Pu	137.7	k
Applied Shear, Vu	0.8	k
Compressive Capacity, ϕP_n	243.6	k
Tensile Capacity, ϕR_n	0.565	OK
Interaction Capacity	0.345	OK

External Base Plate

Chord Length AA	47.258	in
Additional AA	5.000	in
Section Modulus, Z	81.654	in ³
Applied Moment, Mu	800.2	k-ft
Bending Capacity, ϕM_n	4409.3	k-ft
Capacity, Mu/ ϕM_n	0.181	OK

Chord Length AB	44.996	in
Additional AB	5.000	in
Section Modulus, Z	78.119	in ³
Applied Moment, Mu	347.8	k-ft
Bending Capacity, ϕM_n	4218.4	k-ft
Capacity, Mu/ ϕM_n	0.082	OK

Bend Line Length	38.393	in
Additional Bend Line	0.000	in
Section Modulus, Z	59.989	in ³
Applied Moment, Mu	800.2	k-ft
Bending Capacity, ϕM_n	3239.4	k-ft
Capacity, Mu/ ϕM_n	0.247	OK

Internal Base Plate

Arc Length	0.000	in
Section Modulus, Z	0.000	in ³
Moment Arm	0.000	in
Applied Moment, Mu	0.0	k-ft
Bending Capacity, ϕM_n	0.0	k-ft
Capacity, Mu/ ϕM_n		

Site Name: Colchester CT6, CT
Site Number: 302465
Tower Type: MP
Design Loads (Factored) - Analysis per TIA-222-H Standards

Monolithic Mat & Pier Foundation Analysis

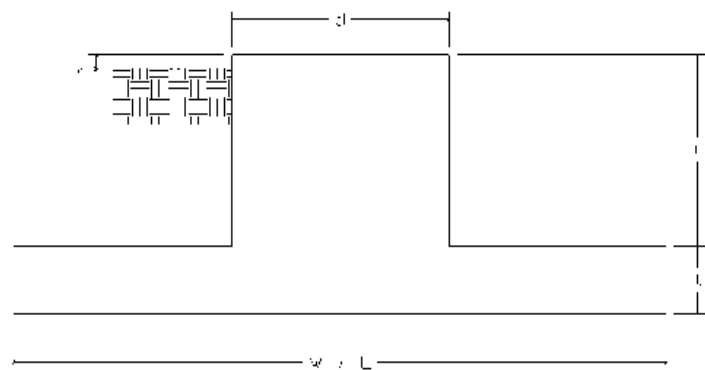
Foundation Analysis Parameters		
Design / Analysis / Mapping:	Analysis	-
Compression/Leg:	58.9	k
Uplift/Leg:	0.0	k
Total Shear:	33.9	k
Moment:	3,954.5	k-ft
Tower + Appurtenance Weight:	58.9	k
Depth to Base of Foundation (l + t - h):	8.5	ft
Diameter of Pier (d):	7	ft
Length of Pier (l):	5.5	ft
Height of Pier above Ground (h):	0.5	ft
Width of Pad (W):	25	ft
Length of Pad (L):	25	ft
Thickness of Pad (t):	3.5	ft
Tower Leg Center to Center:	0	ft
Number of Tower Legs:	1	-
Tower Center from Mat Center:	0	ft
Depth Below Ground Surface to Water Table:	10	ft
Unit Weight of Concrete:	150	pcf
Unit Weight of Soil Above Water Table:	110	pcf
Unit Weight of Water:	62.4	pcf
Unit Weight of Soil Below Water Table:	47.6	pcf
Friction Angle of Uplift:	15	°
Coefficient of Shear Friction:	0.3	-
Ultimate Compressive Bearing Pressure:	10,000	psf
Ultimate Passive Pressure on Pad Face:	100	psf
$f_{\text{Soil and Concrete Weight}}$:	0.9	-
f_{Soil} :	0.75	-

Foundation Steel Parameters		
Shear/Leg (Compression):	22.6	k
Shear/Leg (Uplift):	18.7	k
Concrete Strength (f'_c):	4,000	psi
Pad Tension Steel Depth:	38.31	in
Dead Load Factor:	0.9	-
f_{Shear} :	0.75	-
$f_{\text{Flexure / Tension}}$:	0.9	-
$f_{\text{Compression}}$:	0.65	-
b:	0.85	-
Bottom Pad Rebar Size #:	11	-
# of Bottom Pad Rebar:	30	-
Pad Bottom Steel Area:	46.80	in ²
Pad Steel F_y :	60,000	psi
Top Pad Rebar Size #:	11	-
# of Top Pad Rebar:	30	-
Pad Top Steel Area:	46.80	in ²
Pier Rebar Size #:	11	-
Pier Steel Area (Single Bar):	1.56	in ²
# of Pier Rebar:	30	-
Pier Steel F_y :	60,000	psi
Pier Cage Diameter:	75.4	in
Rebar Strain Limit:	0.008	-
Steel Elastic Modulus:	29,000	ksi
Tie Rebar Size #:	5	-
Tie Steel Area (Single Bar):	0.31	in ²
Tie Spacing:	12	in
Tie Steel F_y :	60,000	psi
Clear Cover:	3	in

Overturning Moment Usage		
Design OTM:	4259.8	k-ft
OTM Resistance:	8697.5	k-ft
Design OTM / OTM Resistance:	49%	Pass

Soil Bearing Pressure Usage		
Net Bearing Pressure:	4135	psf
Factored Nominal Bearing Pressure:	7500	psf
Factored Nominal (Net) Bearing Pressure:	55%	Pass
Load Direction Controlling Design Bearing Pressure:	Diagonal to Pad Edge	

Sliding Factor of Safety		
Ultimate Friction Resistance:	219.5	k
Ultimate Passive Pressure Resistance:	6.6	k
Total Factored Sliding Resistance:	169.5	k
Sliding Design / Sliding Resistance:	20%	Pass



Pad Strength Capacity			
Factored One Way Shear (V_u):	305.2	k	
One Way Shear Capacity (fV_c):	958.2	k	ACI 318-14 25.5.5.1
V_u / fV_c :	32%	Pass	
Load Direction Controlling Shear Capacity:	Diagonal to Pad Edge		
Lower Steel Pad Factored Moment (M_u):	2295.9	k-ft	
Lower Steel Pad Moment Capacity (fM_n):	7822.2	k-ft	ACI 318-14 22.3.1.1
M_u / fM_n :	29%	Pass	
Load Direction Controlling Flexural Capacity:	Parallel to Pad Edge		
Upper Steel Pad Factored Moment (M_u):	1077.3	k-ft	
Upper Steel Pad Moment Capacity (fM_n):	7822.2	k-ft	
M_u / fM_n :	14%	Pass	
Lower Pad Flexural Reinforcement Ratio:	0.0041		OK - ACI 318-14 7.6.1.1 & 8.6.1.1
Upper Pad Flexural Reinforcement Ratio:	0.0041		OK - ACI 318-14 7.6.1.1 & 8.6.1.1
Pad Shrinkage Reinforcement Ratio:	0.0081		OK - ACI 318-14 24.4.3.2
Lower Pad Reinforcement Spacing:	10.1	in	OK - ACI 318-14 7.7.2.3, 8.7.2.2, & 24.4.3.3
Upper Pad Reinforcement Spacing:	10.1	in	OK - ACI 318-14 7.7.2.3, 8.7.2.2, & 24.4.3.3
Ultimate Punching Shear Stress, v_u :	31.57	psi	ACI 318-14 R8.4.4.2.3
Nominal Punching Shear Capacity ($f_c v_c$):	189.7	psi	ACI 318-14 22.6.5.2
$v_u / f_c v_c$:	17%	Pass	
Pier Moment Pad Flexure Transfer Ratio, γ_f :	0.60		TIA-222-H 9.4.2
Moment Transfer Effective Flexural Width, B_{eff} :	17.50	ft	TIA-222-H 9.4.2
Moment Transfer Through Pad Flexure:	29815.42	k-in	TIA-222-H 9.4.2
Moment Transfer Flexural Capacity ($fM_{sc,f}$):	68015.48	k-in	
$g_f M_{sc} / fM_{sc,f}$:	0%	Pass	

Pier Strength Capacity			
Factored Moment in Pier (M_u):	4141.0	k-ft	
Pier Moment Capacity (fM_n):	7768.3	k-ft	
M_u / fM_n :	53%	Pass	
Factored Shear in Pier (V_u):	33.9	k	
Pier Shear Capacity (fV_n):	684.8	k	ACI 318-14 22.5.1.1
V_u / fV_c :	5%	Pass	
Pier Shear Reinforcement Ratio:	0.0007		OK - No Ties Necessary for Shear - ACI11.5.6.1
Factored Tension in Pier (T_u):	0.0	k	
Pier Tension Capacity (fT_n):	2527.2	k	
T_u / fT_n :	0%	Pass	
Factored Compression in Pier (P_u):	58.9	k	
Pier Compression Capacity (fP_n):	9763.8	k	ACI 318-14 22.4.2.1
P_u / fP_n :	1%	Pass	
Pier Compression Reinforcement Ratio:	0.008		OK - TIA-222-H 9.4.1
Minimum Depth to Develop Vertical Rebar:	54	in	ACI 318-14 25.4.2.3
Minimum Hook Development Length:	27	in	ACI 318-14 25.4.3.1
Minimum Mat Thickness / Edge Distance from Pier:	30.0	in	
Minimum Foundation Depth:	7.27	ft	
$M_u / f_B M_n + T_u / f_T T_n$:	53%	Pass	



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

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10069083
Maser Consulting Connecticut Project #: 21777428A

June 11, 2021

Site Information

Site ID: 468035-VZW /
COLCHESTER S 2 CT - ATC monopole
Site Name: COLCHESTER S 2 CT - ATC monopole
Carrier Name: Verizon Wireless
Address: 355 Route 85
Colchester, Connecticut 06415
New London County
Latitude: 41.54482028°
Longitude: -72.30489083°

Structure Information

Tower Type: Monopole
Mount Type: 12.58-Ft Platform

FUZE ID # 16272107

Analysis Results

Platform: 89.8% Pass

***Contractor PMI Requirements:

Included at the end of this MA report

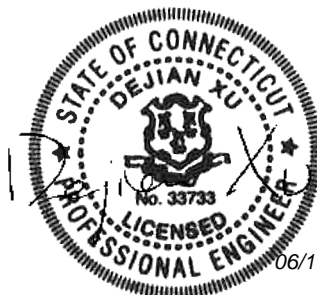
Available & Submitted via portal at <https://pmi.vzwsmart.com>

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

Report Prepared By: Abigail Enriquez



06/11/2021

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS Site ID: 1930401, dated March 16, 2021</i>
<i>Mount Mapping Report</i>	<i>RKS Design & Engineering LLC., Site ID: ATC:302465, dated March 27, 2021</i>
<i>Previous Mount Analysis Report</i>	<i>Maser Consulting Connecticut, Project # 21777428A, dated May 5, 2021</i>
<i>Mount Modification Drawings</i>	<i>Maser Consulting Connecticut, Project # 21777428A, dated June 11, 2021</i>

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 122 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: B Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.980
Seismic Parameters:	S_s : 0.205 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 mount:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
161.75	163.00	3	Commscope	CBC78T-DS-43-2X	Added
		3	Samsung	MT6407-77A	
		6	Commscope	JAHH-65B-R3B	Retained
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		2	Raycap	RRFDC-3315-PF-48	

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

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

Standard Conditions:

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

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

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

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

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o Bolts ASTM A325
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
Standoff Arm	23.2 %	Pass
Standoff Horizontal	89.8 %	Pass
Platform Support	80.7 %	Pass
Platform Angle	44.2 %	Pass
Face Horizontal	11.6 %	Pass
Support Rail	29.5 %	Pass
Antenna pipe	21.2 %	Pass
Corner Angle	39.2 %	Pass
Support rail corner	1.8 %	Pass
Mod SFS kit	6.4 %	Pass
Connection Check	81.3 %	Pass

Structure Rating – (Controlling Utilization of all Components)	89.8%
---	--------------

Recommendation:

The existing mount 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 Adoption and Wind Speed Usage Letter





Antenna Mount Mapping Form (PATENT PENDING)

FCC #

UNKNOWN

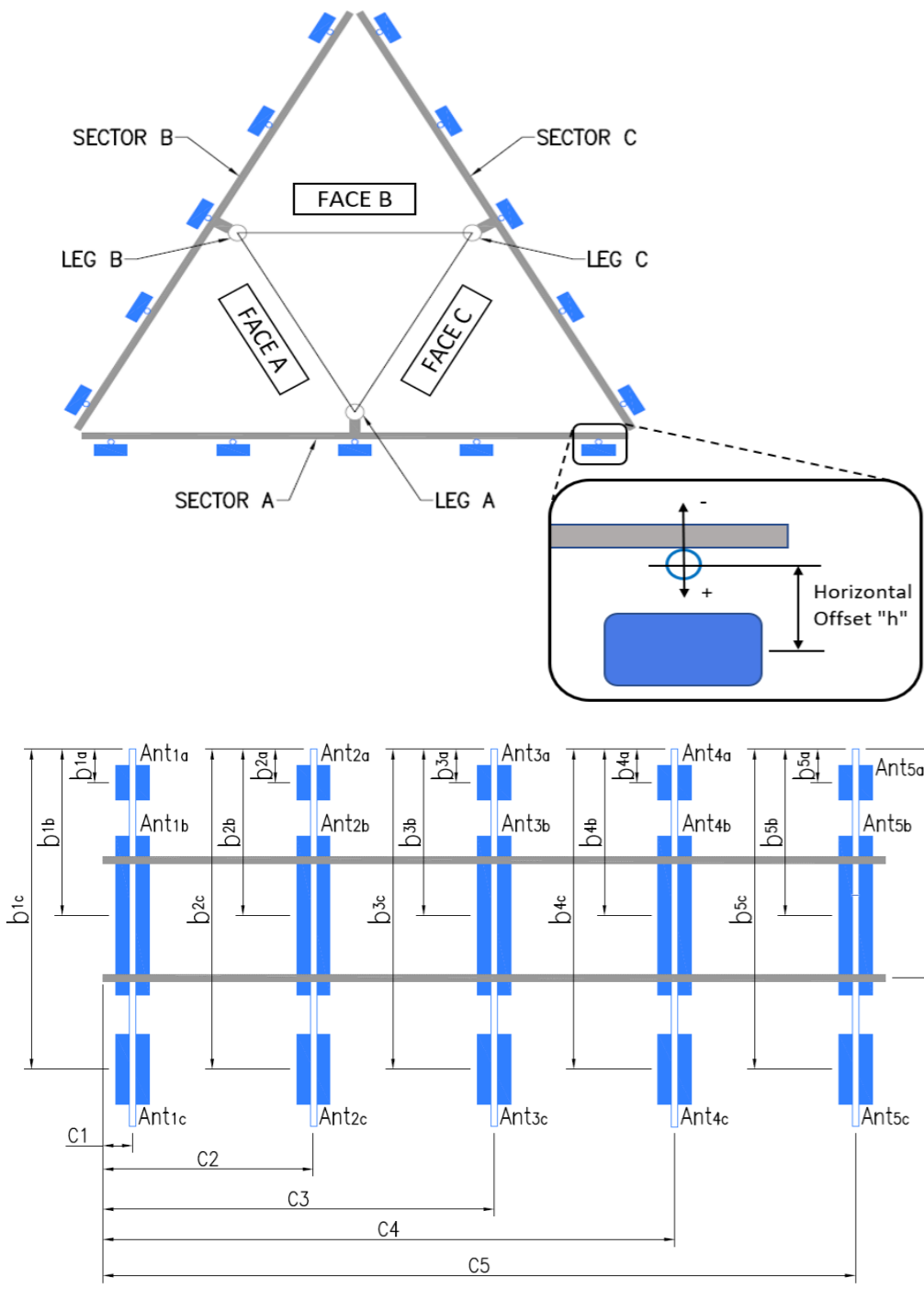
Tower Owner:	AMERICAN TOWER CORPORATION	Mapping Date:	3/27/2021
Site Name:	ATC:COLCHESTER CT 6, VZW:COLCHESTER S 2 CT	Tower Type:	Monopole
Site Number or ID:	ATC:302465	Tower Height (Ft.):	UNKNOWN
Mapping Contractor:	RKS DESIGN & ENGINEERING LLC	Mount Elevation (Ft.):	160

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 the sketches of the antenna mount from the "Sketches" tab with dimensions and members here.

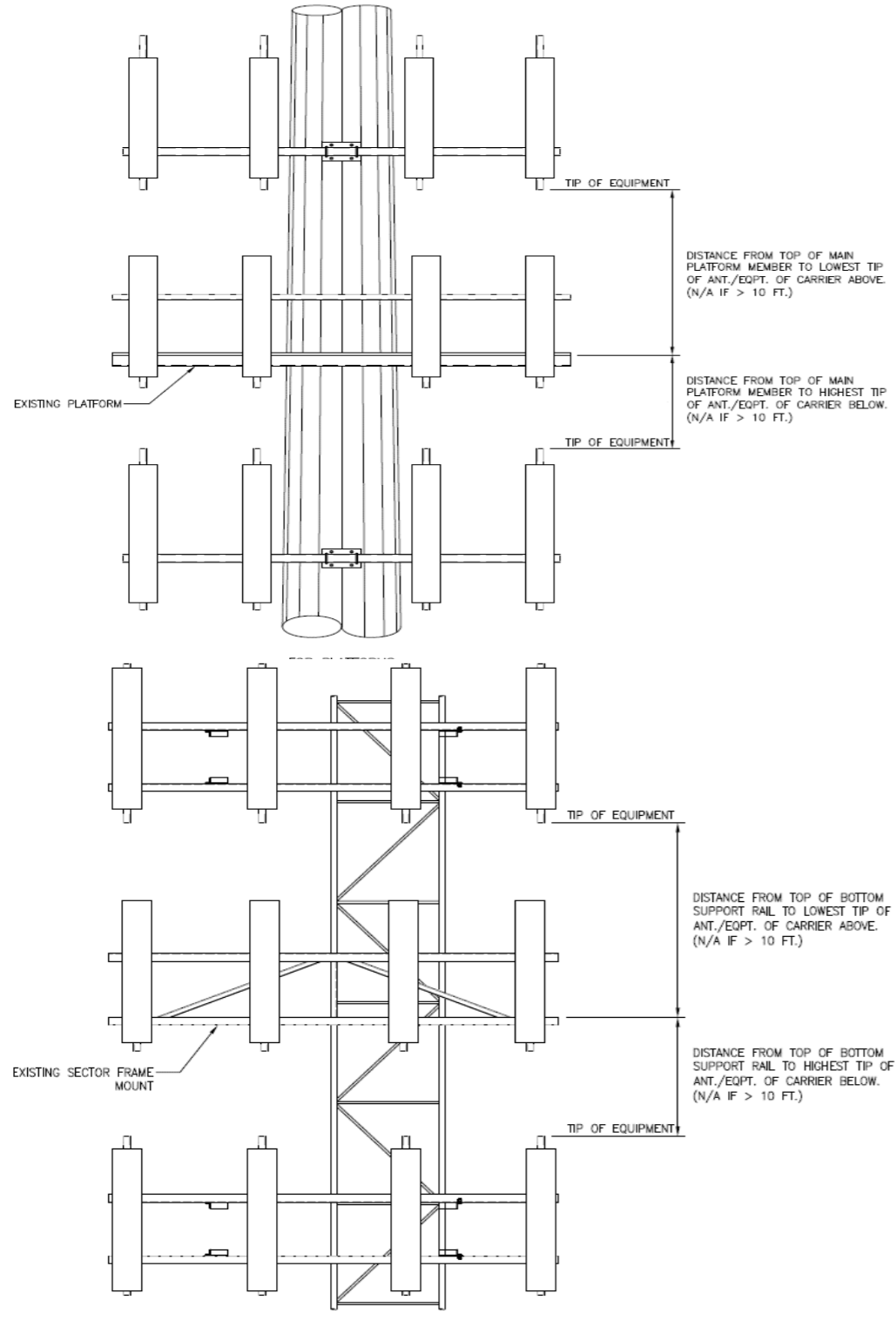
Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	PIPE 2.375"Øx0.15"x72" LONG	53.25	12.50	C1	PIPE 2.375"Øx0.15"x72" LONG	53.25	12.50
A2	PIPE 2.375"Øx0.15"x72" LONG	53.25	51.75	C2	PIPE 2.375"Øx0.15"x72" LONG	53.25	51.75
A3	PIPE 2.375"Øx0.15"x72" LONG	53.25	99.00	C3	PIPE 2.375"Øx0.15"x72" LONG	53.25	99.00
A4	PIPE 2.375"Øx0.15"x72" LONG	53.25	132.50	C4	PIPE 2.375"Øx0.15"x72" LONG	53.25	132.50
A5				C5			
A6				C6			
B1	PIPE 2.375"Øx0.15"x72" LONG	53.25	12.50	D1			
B2	PIPE 2.375"Øx0.15"x72" LONG	53.25	51.75	D2			
B3	PIPE 2.375"Øx0.15"x72" LONG	53.25	99.00	D3			
B4	PIPE 2.375"Øx0.15"x72" LONG	53.25	132.50	D4			
B5				D5			
B6				D6			
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :							
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :							
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :							
Please enter additional information or comments below.							
Tower Face Width at Mount Elev. (ft.):							
Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):							
23.5							

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)	
Sector A										
Ant _{1a}										
Ant _{1b}										
Ant _{1c}										
Ant _{2a}	RFV01U-D1A	15.00	10.00	15.00		161.979	29.50	-9.50		196
Ant _{2b}	(2)JAHH-65B-R3B	13.80	8.20	72.00		161.188	39.00	13.50	50.00	196
Ant _{2c}										
Ant _{3a}	RFV01U-D1A	15.00	10.00	15.00		161.979	29.50	-9.50		197
Ant _{3b}										
Ant _{3c}										
Ant _{4a}										
Ant _{4b}										
Ant _{4c}										
Ant _{5a}										
Ant _{5b}										
Ant _{5c}										
Ant on Standoff	RRFDC-3315-PF-48	15.73	10.25	25.66			27.00			322
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:	50.00	Deg	Leg A:		Deg	Ant _{1a}									
Sector B:	170.00	Deg	Leg B:		Deg	Ant _{1b}									
Sector C:	290.00	Deg	Leg C:		Deg	Ant _{1c}									
Sector D:		Deg	Leg D:		Deg	Ant _{2a}	RFV01U-D1A	15.00	10.00	15.00	161.979	29.50	-9.50		199
Climbing Facility Information						Ant _{2b}	(2)JAHH-65B-R3B	13.80	8.20	72.00	161.188	39.00	13.50	170.00	199
Location:	50.00	Deg	N/A			Ant _{2c}									
Climbing Facility	Corrosion Type:		N/A			Ant _{3a}	RFV01U-D1A	15.00	10.00	15.00	161.979	29.50	-9.50		200
	Access:		Climbing path was unobstructed.			Ant _{3b}									
	Condition:		Good condition.			Ant _{3c}									



Sector C												
Ant _{1a}												
Ant _{1b}												
Ant _{1c}												
Ant _{2a}	RFV01U-D1A	15.00	10.00	15.00	161.979	29.50	-9.50					202
Ant _{2b}	(2)JAHH-65B-R3B	13.80	8.20	72.00	161.188	39.00	13.50	290.00				202
Ant _{2c}												
Ant _{3a}	RFV01U-D1A	15.00	10.00	15.00	162.017	29.05	-9.50					203
Ant _{3b}												
Ant _{3c}												
Ant _{4a}												
Ant _{4b}												
Ant _{4c}												
Ant _{5a}												
Ant _{5b}												
Ant _{5c}												
Ant on Standoff	RRFDC-3315-PF-48	15.73	10.25	25.66		27.00	7.50					320
Ant on Standoff												
Ant on Tower												
Ant on Tower												

Observed Safety and Structural Issues During the Mount Mapping

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

1	COAX TOTAL (2): (2) 1.5" Ø HYBRID	
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.



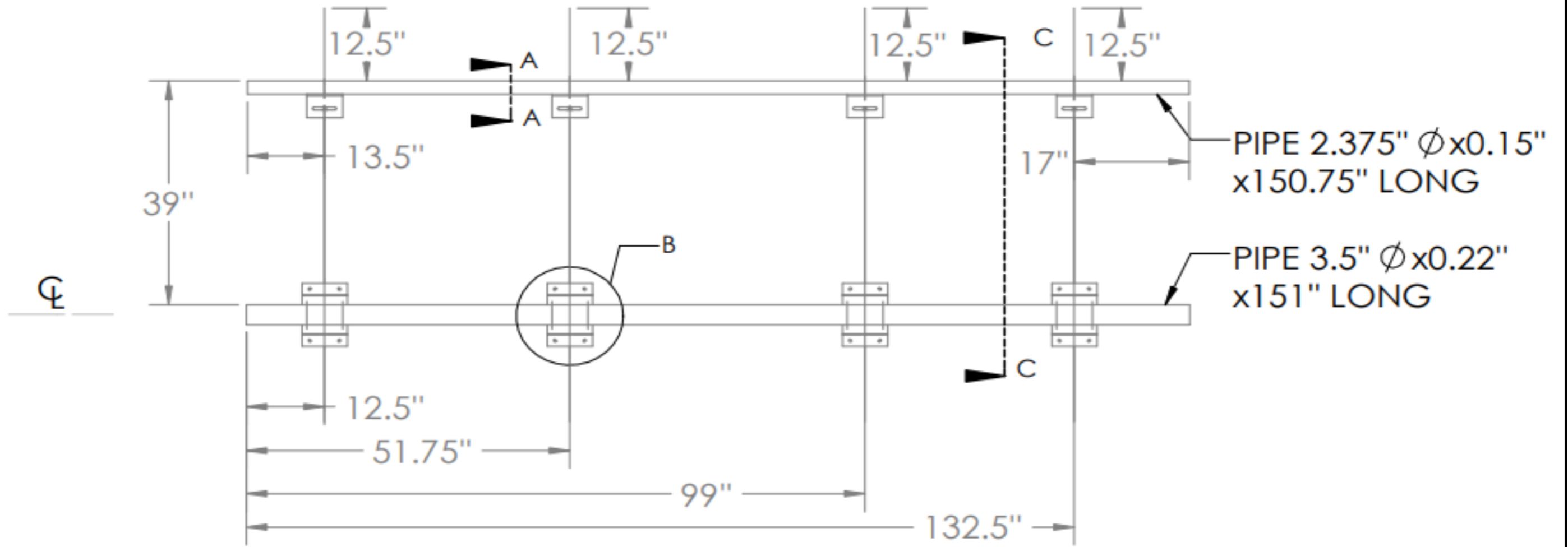
Antenna Mount Mapping Form (PATENT PENDING)

FCC #
UNKNOWN

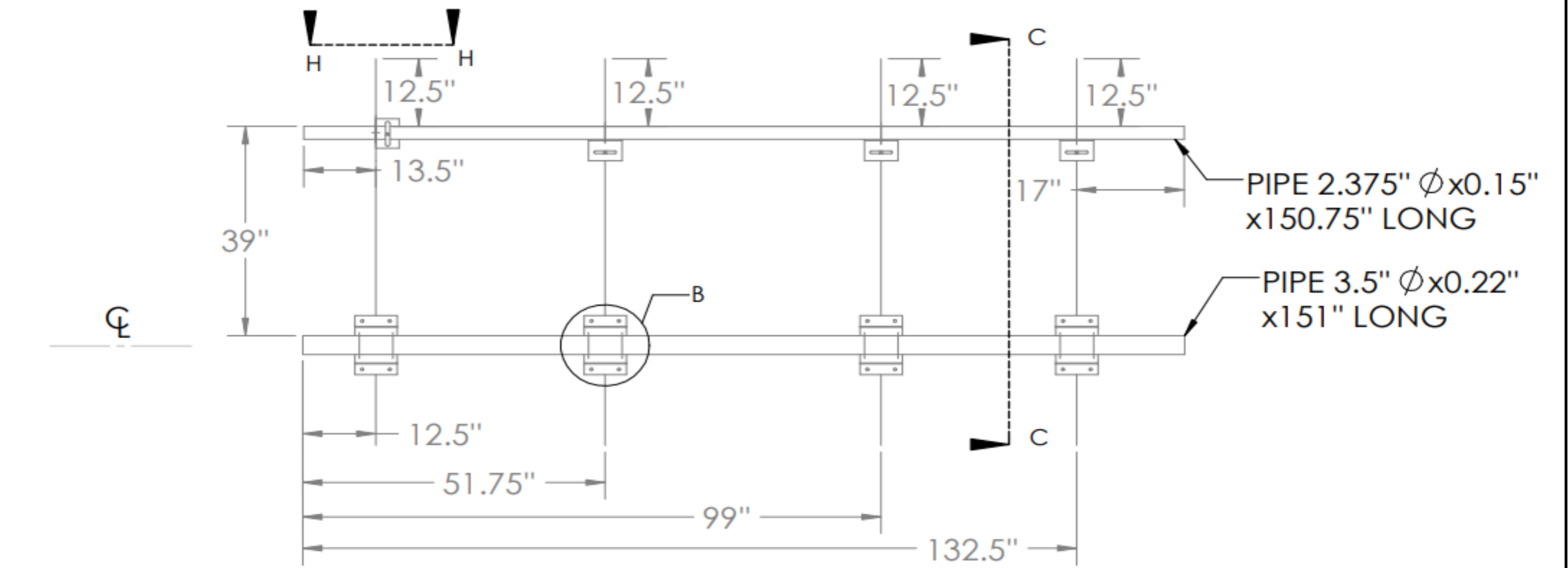
Tower Owner:	AMERICAN TOWER CORPORATION	Mapping Date:	3/27/2021
Site Name:	ATC:COLCHESTER CT 6, VZW:COLCHESTER S 2 CT	Tower Type:	Monopole
Site Number or ID:	ATC:302465	Tower Height (Ft.):	UNKNOWN
Mapping Contractor:	RKS DESIGN & ENGINEERING LLC	Mount Elevation (Ft.):	160

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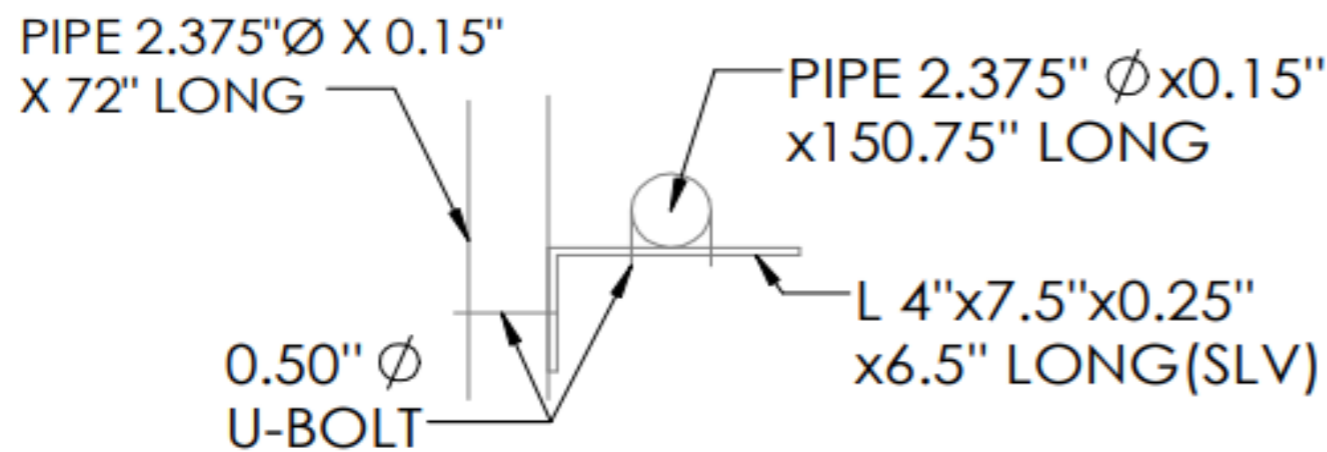
Please Insert Sketches of the Antenna Mount



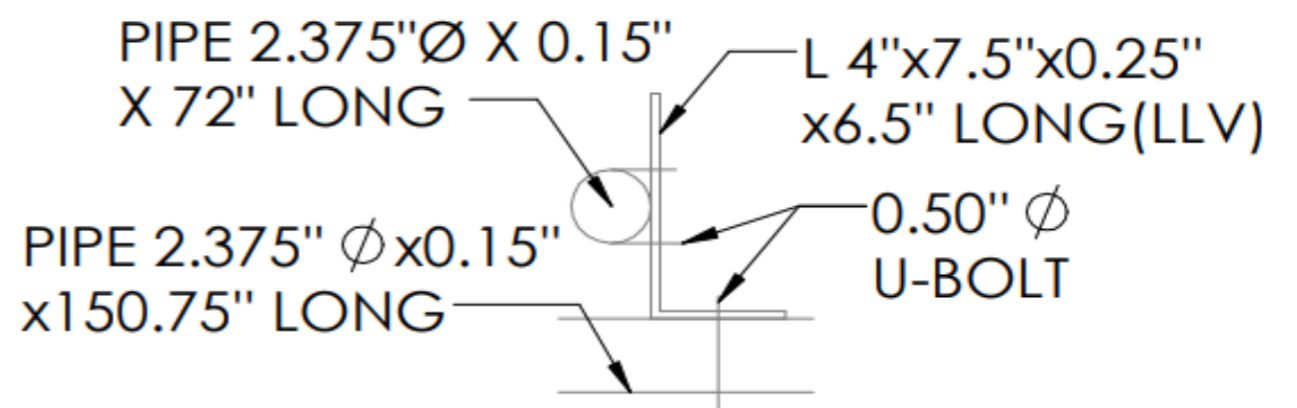
SECTOR VIEW A & C



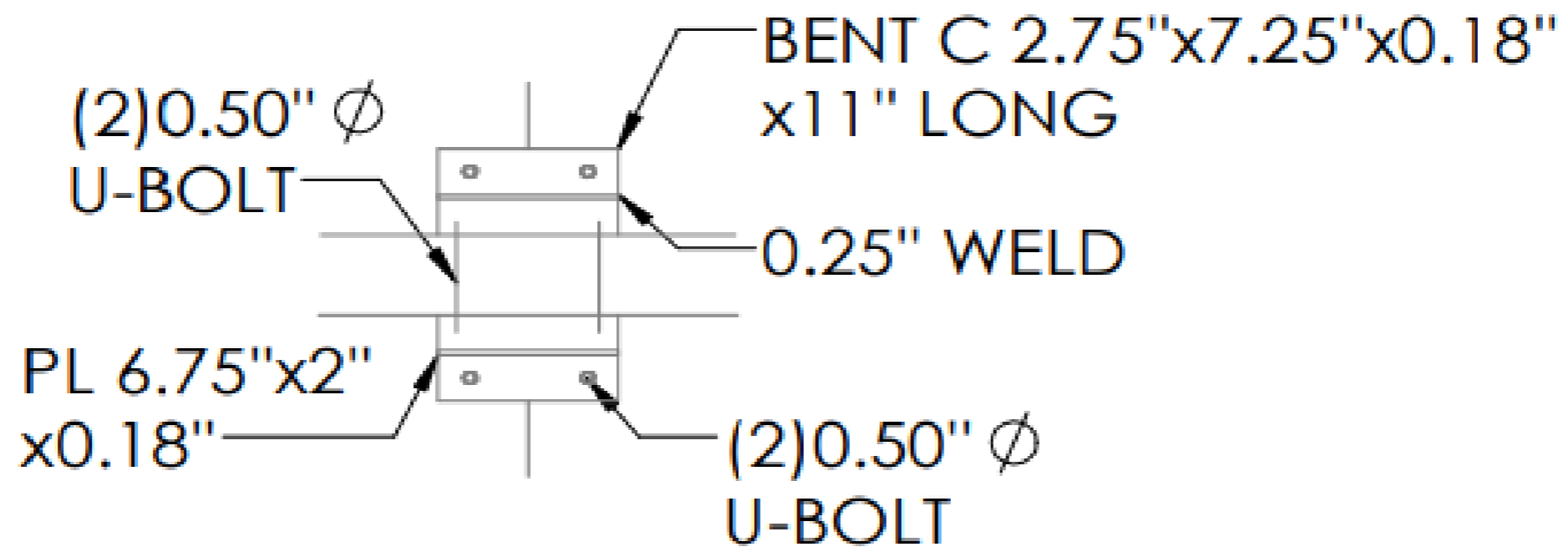
SECTOR VIEW B



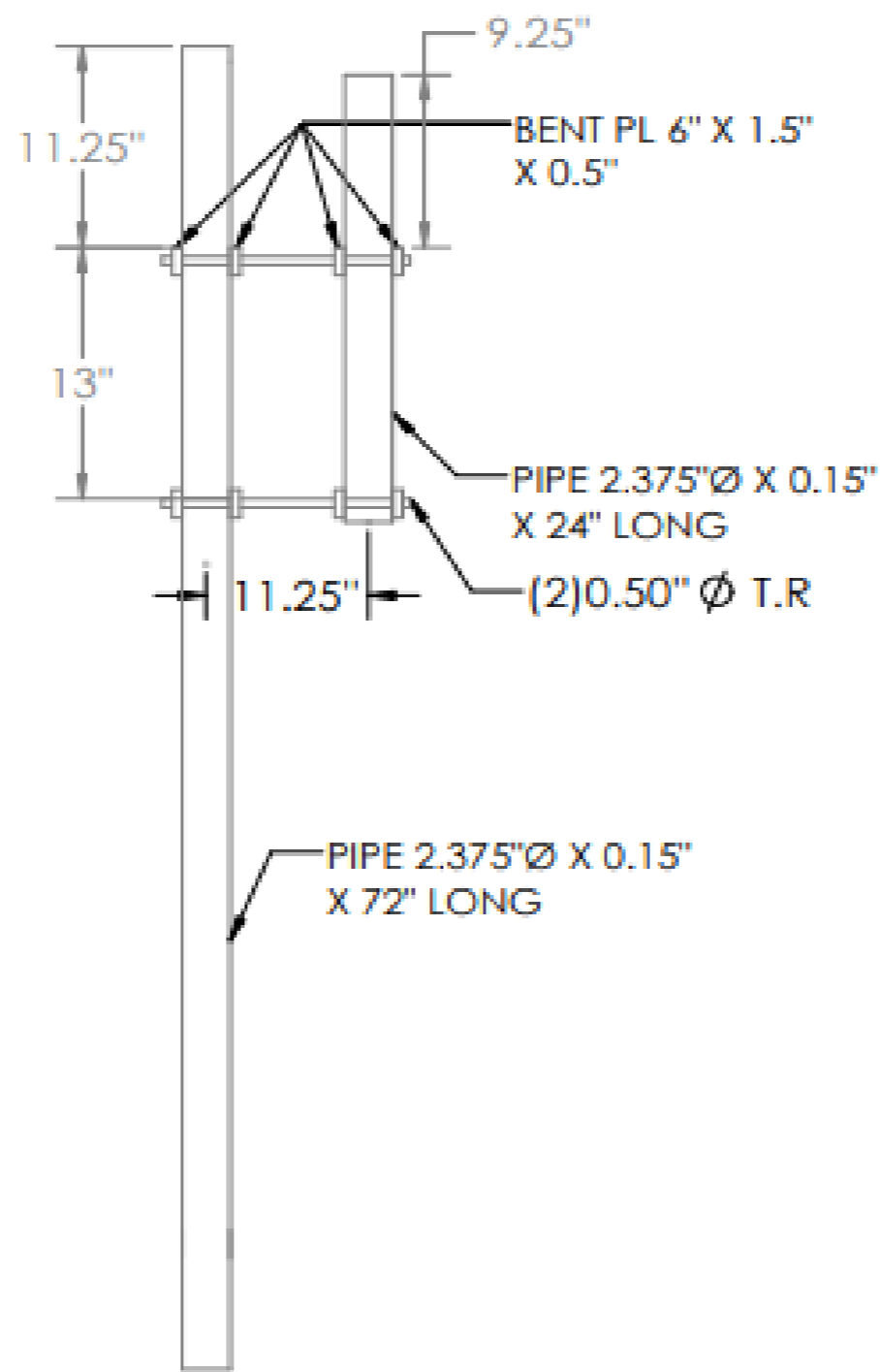
SECTION A-A



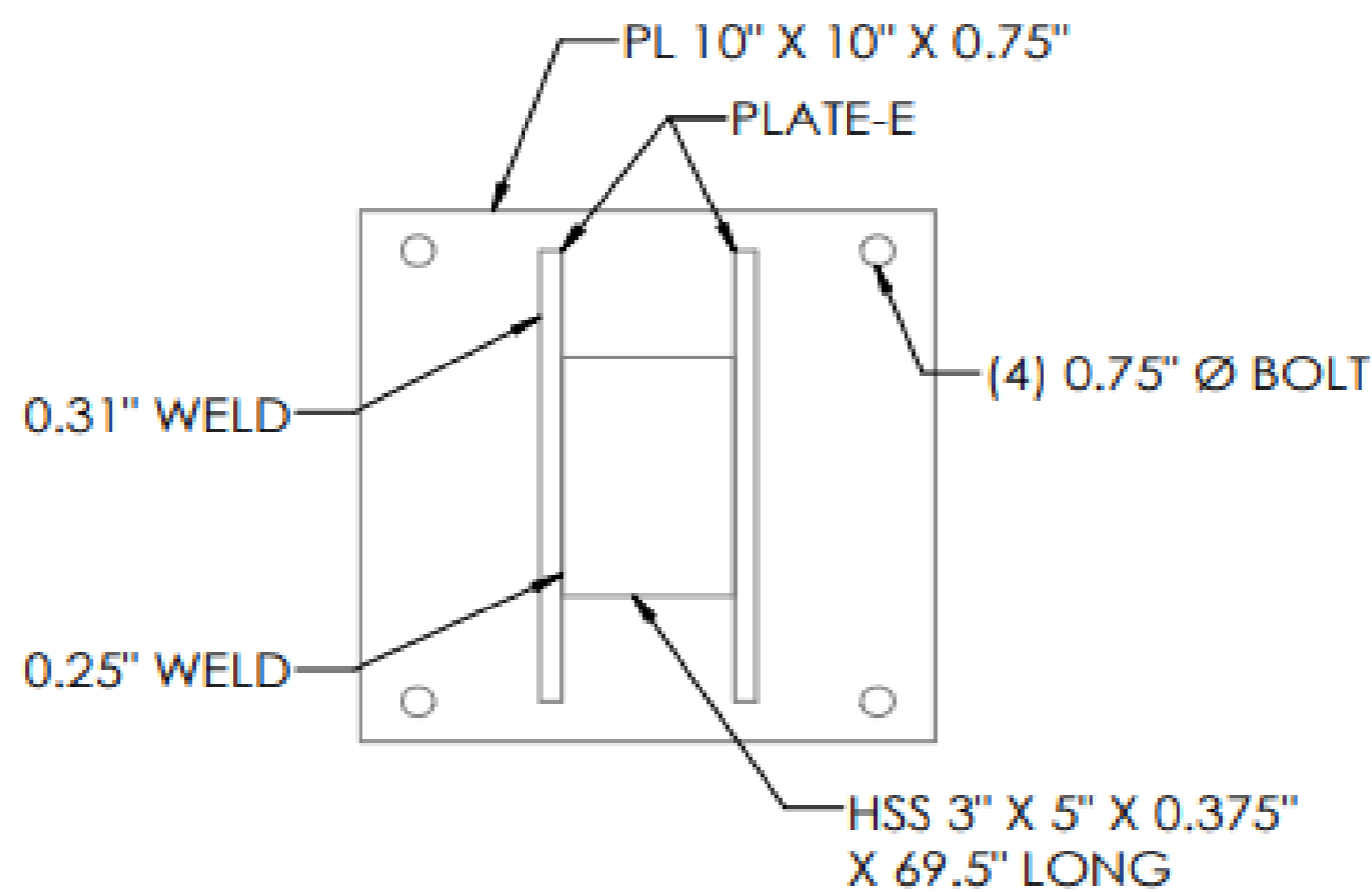
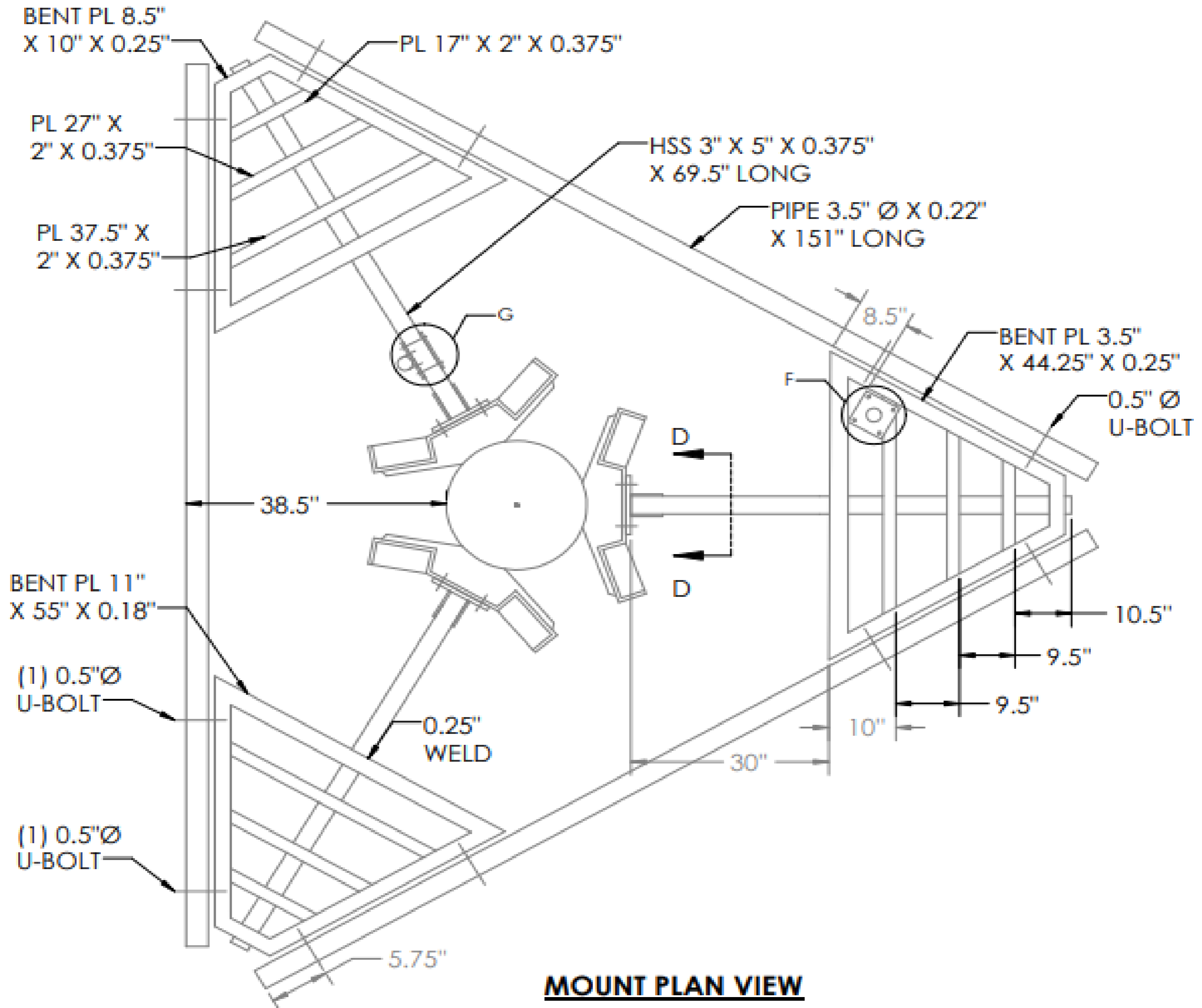
SECTION H-H



DETAIL B



SECTION C-C



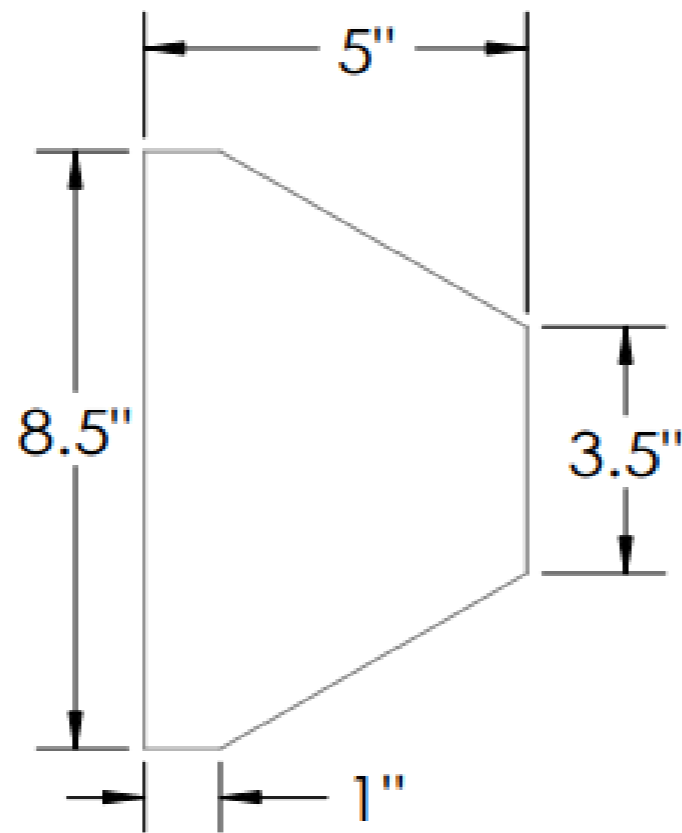
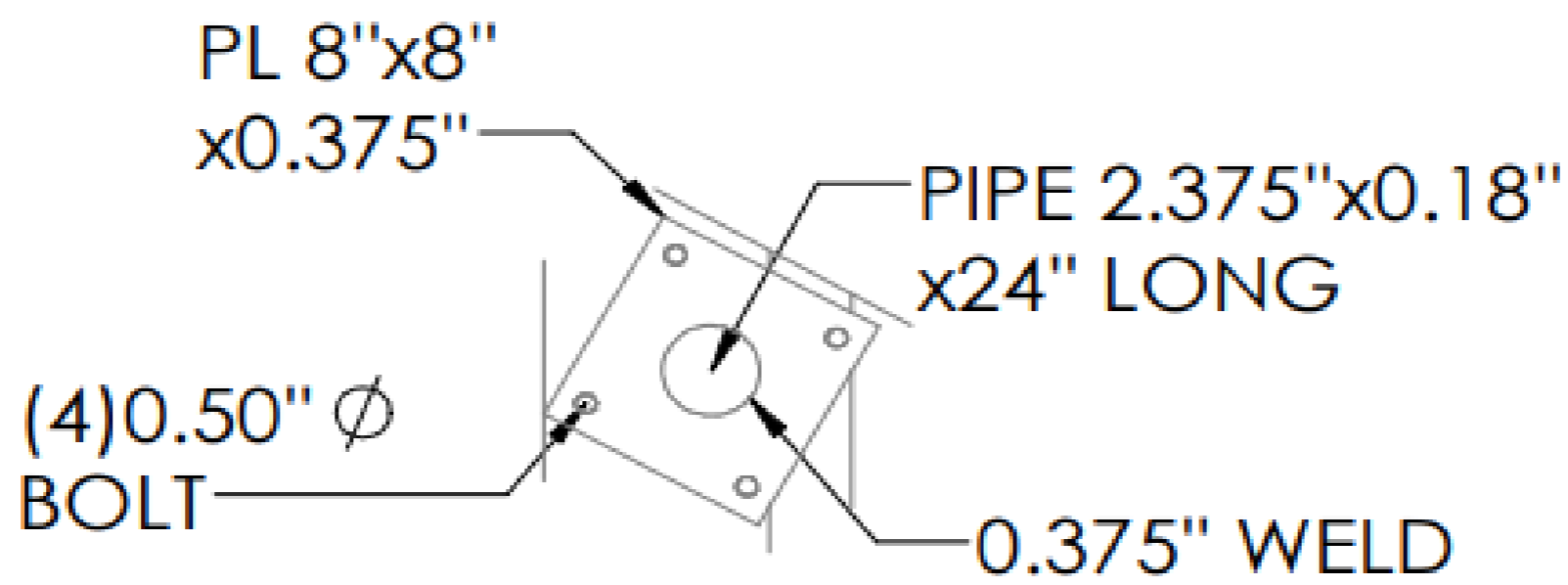
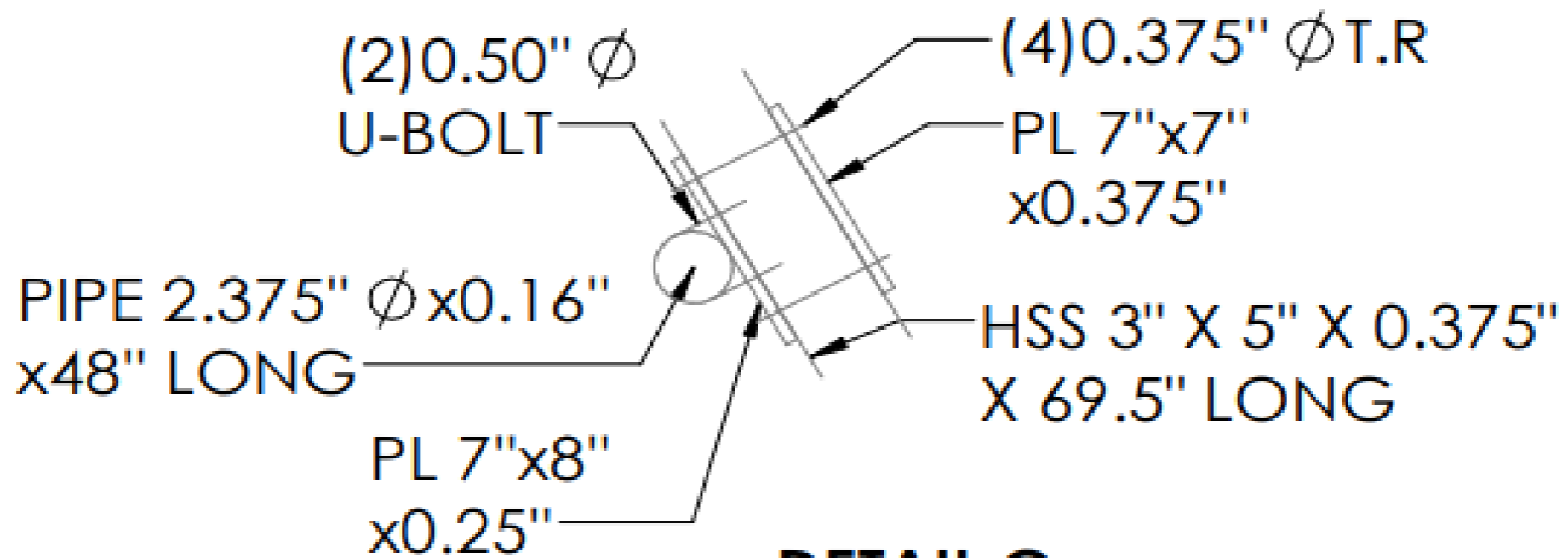


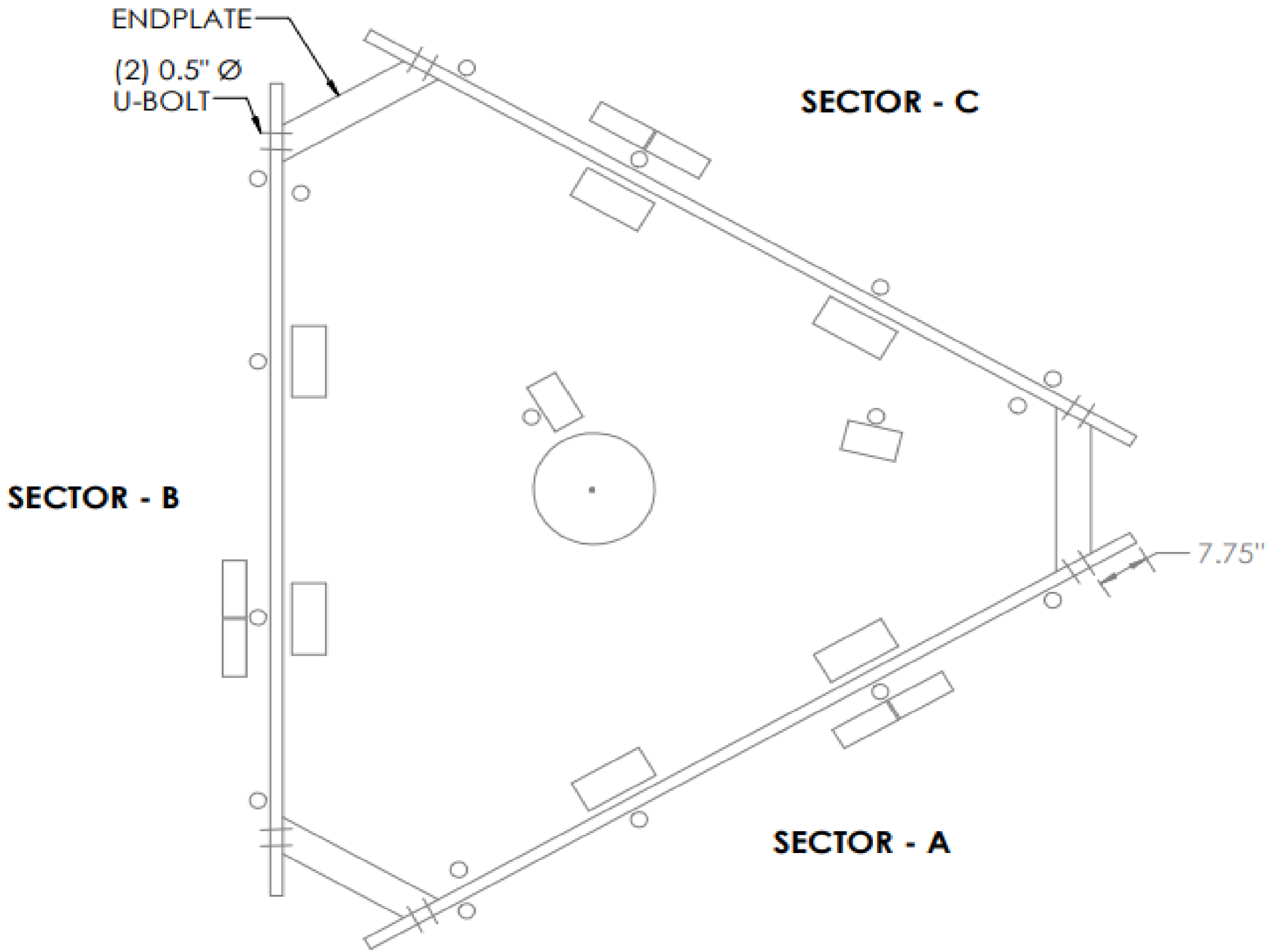
PLATE -E DETAIL VIEW
(0.375" THK)



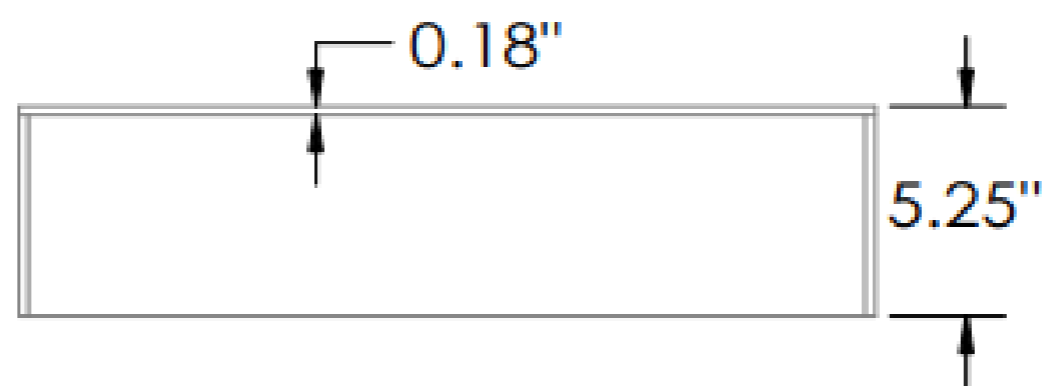
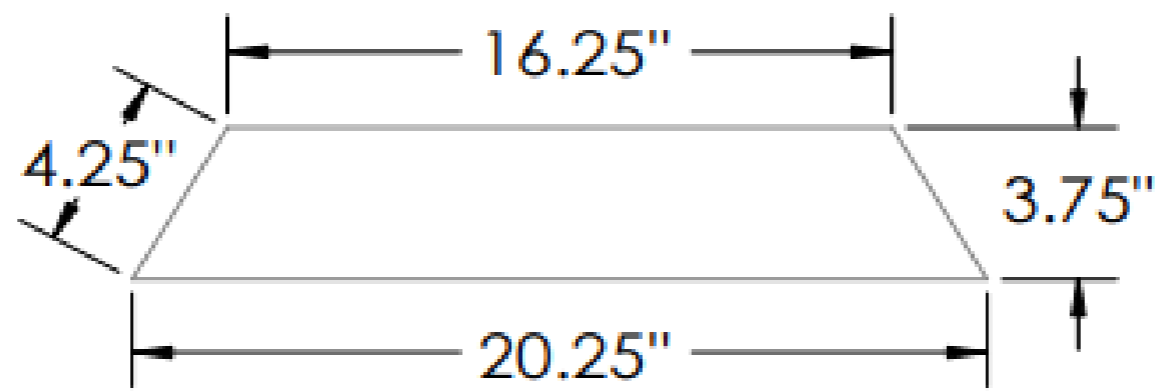
DETAIL F



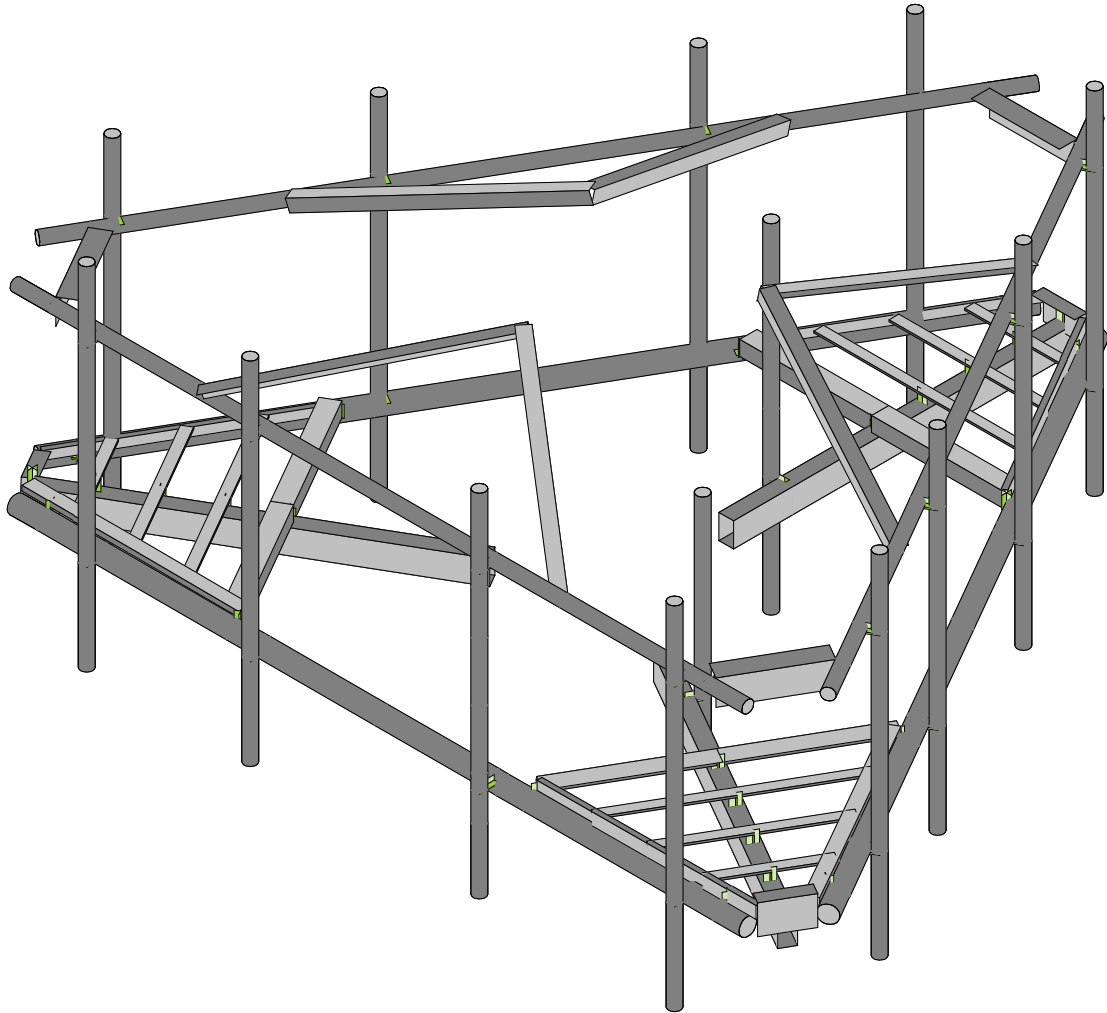
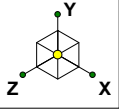
DETAIL G



ANTENNA PLAN VIEW



ENDPLATE DETAIL VIEW



Maser Consulting

AE

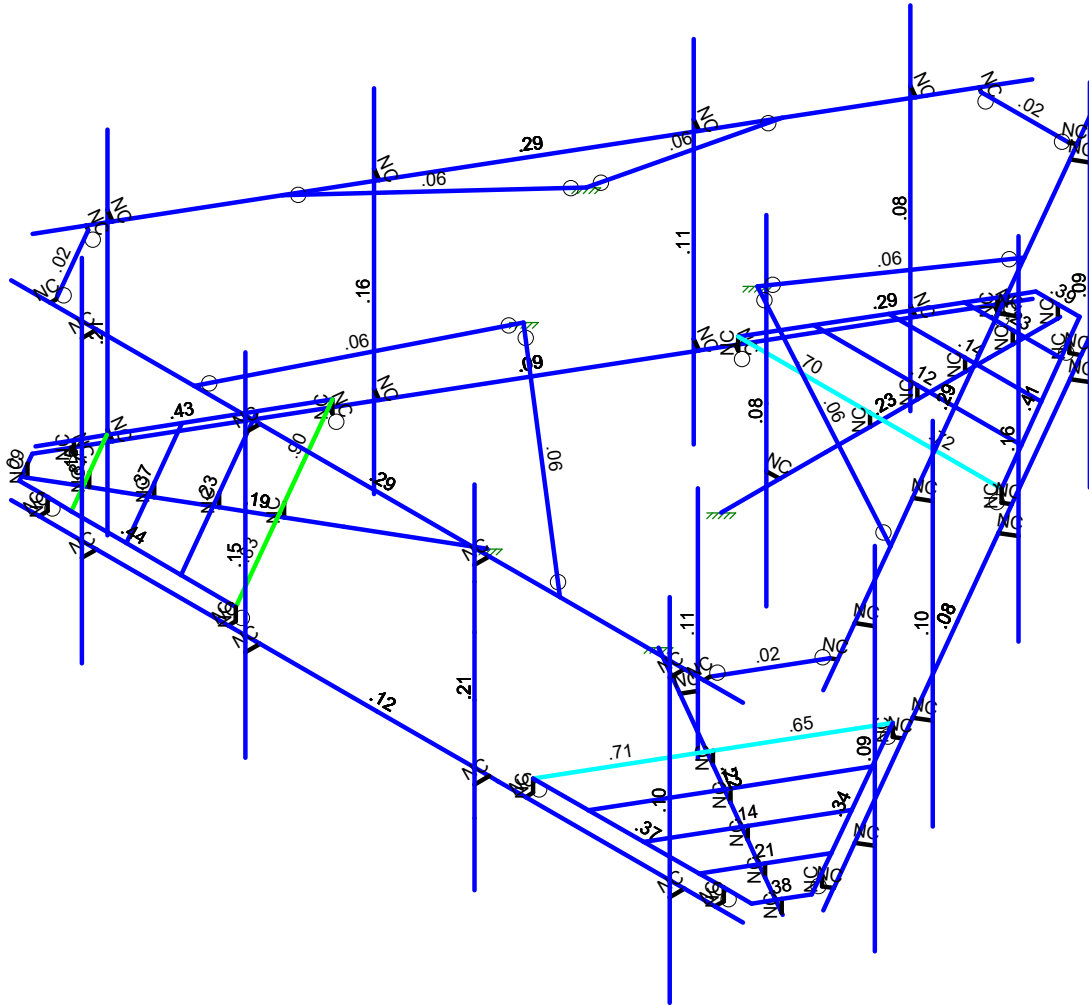
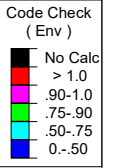
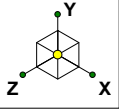
Project No. 10069083

468035-VZW_MT_LO_H

SK - 1

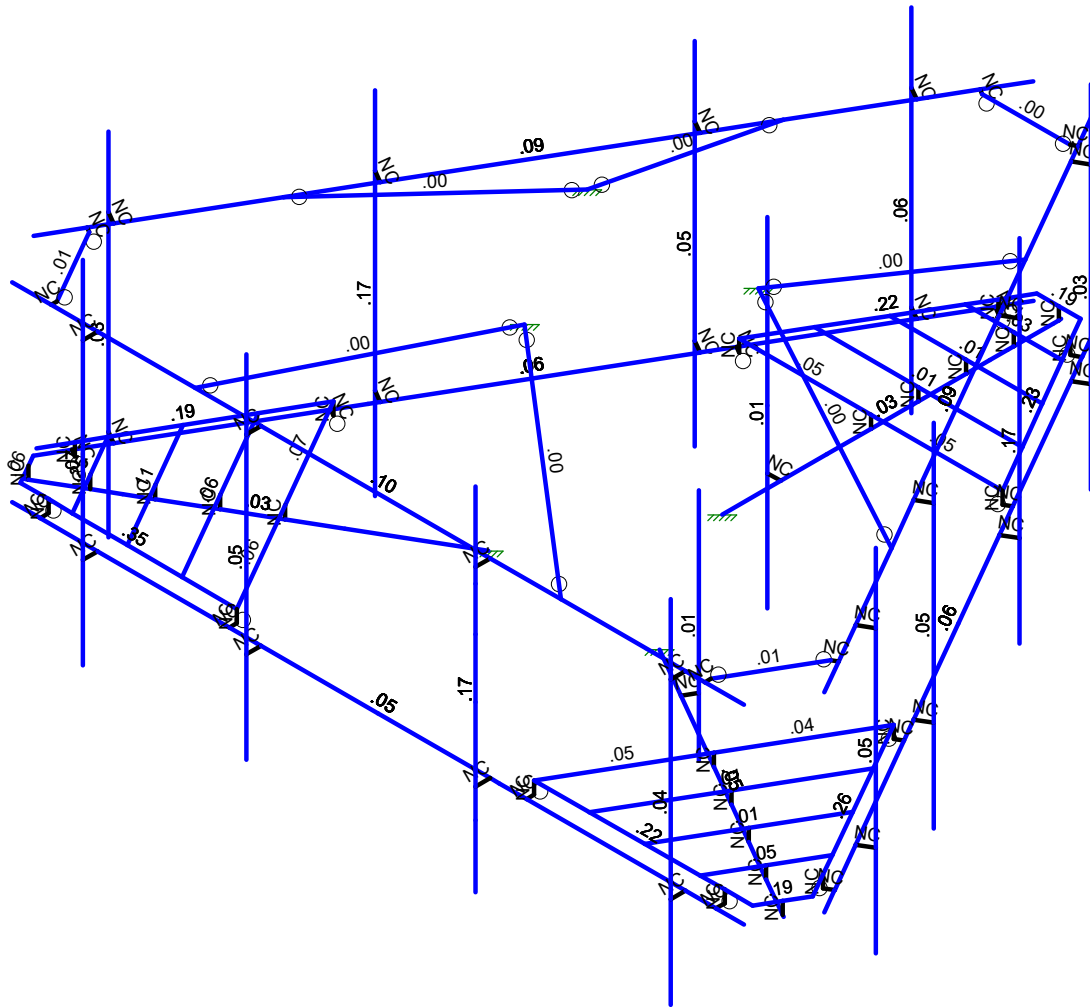
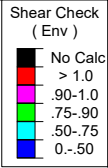
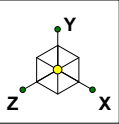
June 10, 2021 at 10:30 AM

FINAL_468035-VZW_MT_LO_H.r3d



Member Code Checks Displayed (Enveloped)
Results for LC 1, 1.2D+1.0Wo (0 Deg)

Maser Consulting	468035-VZW_MT_LO_H	SK - 2
AE		June 10, 2021 at 10:30 AM
Project No. 10069083		FINAL_468035-VZW_MT_LO_H.r3d



Member Shear Checks Displayed (Enveloped)
Results for LC 1, 1.2D+1.0Wo (0 Deg)

Maser Consulting	468035-VZW_MT_LO_H	SK - 3
AE		June 10, 2021 at 10:30 AM
Project No. 10069083		FINAL_468035-VZW_MT_LO_H.r3d



Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None					87		
2	Antenna Di	None					87		
3	Antenna Wo (0 Deg)	None					87		
4	Antenna Wo (30 Deg)	None					87		
5	Antenna Wo (60 Deg)	None					87		
6	Antenna Wo (90 Deg)	None					87		
7	Antenna Wo (120 Deg)	None					87		
8	Antenna Wo (150 Deg)	None					87		
9	Antenna Wo (180 Deg)	None					87		
10	Antenna Wo (210 Deg)	None					87		
11	Antenna Wo (240 Deg)	None					87		
12	Antenna Wo (270 Deg)	None					87		
13	Antenna Wo (300 Deg)	None					87		
14	Antenna Wo (330 Deg)	None					87		
15	Antenna Wi (0 Deg)	None					87		
16	Antenna Wi (30 Deg)	None					87		
17	Antenna Wi (60 Deg)	None					87		
18	Antenna Wi (90 Deg)	None					87		
19	Antenna Wi (120 Deg)	None					87		
20	Antenna Wi (150 Deg)	None					87		
21	Antenna Wi (180 Deg)	None					87		
22	Antenna Wi (210 Deg)	None					87		
23	Antenna Wi (240 Deg)	None					87		
24	Antenna Wi (270 Deg)	None					87		
25	Antenna Wi (300 Deg)	None					87		
26	Antenna Wi (330 Deg)	None					87		
27	Antenna Wm (0 Deg)	None					87		
28	Antenna Wm (30 Deg)	None					87		
29	Antenna Wm (60 Deg)	None					87		
30	Antenna Wm (90 Deg)	None					87		
31	Antenna Wm (120 Deg)	None					87		
32	Antenna Wm (150 Deg)	None					87		
33	Antenna Wm (180 Deg)	None					87		
34	Antenna Wm (210 Deg)	None					87		
35	Antenna Wm (240 Deg)	None					87		
36	Antenna Wm (270 Deg)	None					87		
37	Antenna Wm (300 Deg)	None					87		
38	Antenna Wm (330 Deg)	None					87		
39	Structure D	None		-1					3
40	Structure Di	None						56	3
41	Structure Wo (0 Deg)	None						112	
42	Structure Wo (30 Deg)	None						112	
43	Structure Wo (60 Deg)	None						112	
44	Structure Wo (90 Deg)	None						112	
45	Structure Wo (120 D...	None						112	
46	Structure Wo (150 D...	None						112	
47	Structure Wo (180 D...	None						112	
48	Structure Wo (210 D...	None						112	
49	Structure Wo (240 D...	None						112	
50	Structure Wo (270 D...	None						112	
51	Structure Wo (300 D...	None						112	
52	Structure Wo (330 D...	None						112	
53	Structure Wi (0 Deg)	None						112	
54	Structure Wi (30 Deg)	None						112	
55	Structure Wi (60 Deg)	None						112	
56	Structure Wi (90 Deg)	None						112	



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						112	
58 Structure Wi (150 De...	None						112	
59 Structure Wi (180 De...	None						112	
60 Structure Wi (210 De...	None						112	
61 Structure Wi (240 De...	None						112	
62 Structure Wi (270 De...	None						112	
63 Structure Wi (300 De...	None						112	
64 Structure Wi (330 De...	None						112	
65 Structure Wm (0 Deg)	None						112	
66 Structure Wm (30 De...	None						112	
67 Structure Wm (60 De...	None						112	
68 Structure Wm (90 De...	None						112	
69 Structure Wm (120 D...	None						112	
70 Structure Wm (150 D...	None						112	
71 Structure Wm (180 D...	None						112	
72 Structure Wm (210 D...	None						112	
73 Structure Wm (240 D...	None						112	
74 Structure Wm (270 D...	None						112	
75 Structure Wm (300 D...	None						112	
76 Structure Wm (330 D...	None						112	
77 Lm1	None					1		
78 Lm2	None					1		
79 Lv1	None					1		
80 Lv2	None					1		
81 BLC 39 Transient Are...	None						71	
82 BLC 40 Transient Are...	None						71	

Load Combinations

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



Company : Maser Consulting
 Designer : AE
 Job Number : Project No. 10069083
 Model Name : 468035-VZW_MT_LO_H

June 10, 2021
 10:30 AM
 Checked By: DX

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
15	N80	-0.374945	0.208333	-7.438103	0	
16	N81	0.000042	0.	-5.854753	0	
17	N82	0.000042	0.	-5.042253	0	
18	N83	0.000042	0.208333	-5.854753	0	
19	N84	0.000042	0.208333	-5.042253	0	
20	N85	1.300176	0.208333	-5.854753	0	
21	N86	1.774918	0.208333	-5.042253	0	
22	N87	-1.300092	0.208333	-5.854753	0	
23	N88	-1.774834	0.208333	-5.042253	0	
24	N89	0.000042	0.	-6.667253	0	
25	N90	0.000042	0.208333	-6.667253	0	
26	N91	0.825434	0.208333	-6.667253	0	
27	N92	-0.82535	0.208333	-6.667253	0	
28	N180	-2.359548	0	-4.292416	0	
29	N222A	-5.78794	0.	4.189636	0	
30	N242A	-2.071393	0	4.189636	0	
31	N248A	2.071393	0.	4.189636	0	
32	N253A	5.787912	0.	4.189636	0	
33	N273B	-0.000014	0.	4.189636	0	
34	N275A	-6.250015	0.	4.189636	0	
35	N276A	6.249987	0.	4.189636	0	
36	N277A	-4.791681	0.	4.189636	0	
37	N278A	-2.000015	0.	4.189636	0	
38	N279A	1.916652	0.	4.189636	0	
39	N280A	5.249985	0.	4.189636	0	
40	N281A	-4.791681	0.	4.439636	0	
41	N282A	-2.000015	0.	4.439636	0	
42	N283A	1.916652	0.	4.439636	0	
43	N284A	5.249985	0.	4.439636	0	
44	N285A	-6.250015	3.25	4.189636	0	
45	N286A	6.249987	3.25	4.189636	0	
46	N287A	-4.791681	3.25	4.189636	0	
47	N288A	-2.000015	3.25	4.189636	0	
48	N289A	1.916652	3.25	4.189636	0	
49	N290A	5.249985	3.25	4.189636	0	
50	N291A	-4.791681	3.25	4.439636	0	
51	N292A	-2.000015	3.25	4.439636	0	
52	N293A	1.916652	3.25	4.439636	0	
53	N294A	5.249985	3.25	4.439636	0	
54	N295A	-4.791681	4.4375	4.439636	0	
55	N296A	-2.000015	4.4375	4.439636	0	
56	N297A	1.916652	4.4375	4.439636	0	
57	N298A	5.249985	4.4375	4.439636	0	
58	N299A	-4.791681	-1.5625	4.439636	0	
59	N300A	-2.000015	-1.5625	4.439636	0	
60	N301A	1.916652	-1.5625	4.439636	0	
61	N302A	5.249985	-1.5625	4.439636	0	
62	N180B	0.000042	0.208333	-7.438116	0	
63	N70A	-6.47715	0.	3.739584	0	
64	N71A	-6.441535	0.	3.719022	0	
65	N72A	-1.461441	0.	0.843715	0	
66	N73A	-4.787568	0.	0.166027	0	
67	N74A	-4.897115	0.	0.10278	0	
68	N75A	-2.537609	0	4.06307	0	
69	N76A	-3.662552	0.	2.114548	0	
70	N79A	-6.755375	0.	3.32138	0	
71	N81A	-4.787568	0.208333	0.166027	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
72	N82A	-2.537609	0.208333	4.06307	0	
73	N83A	-3.662589	0.208333	2.114548	0	
74	N84A	-6.629108	0.208333	3.39428	0	
75	N85A	-6.254114	0.208333	4.043763	0	
76	N86A	-5.070326	0.	2.92734	0	
77	N87A	-4.366692	0.	2.52109	0	
78	N88A	-5.070326	0.208333	2.92734	0	
79	N89A	-4.366692	0.208333	2.52109	0	
80	N90A	-5.720453	0.208333	1.801391	0	
81	N91A	-5.254178	0.208333	0.984003	0	
82	N92A	-4.420319	0.208333	4.053289	0	
83	N93	-3.479302	0.208333	4.058178	0	
84	N94	-5.77396	0.	3.33359	0	
85	N95	-5.774032	0.208333	3.33359	0	
86	N96	-6.186728	0.208333	2.61878	0	
87	N97	-5.361335	0.208333	4.048401	0	
88	N100	-2.537568	0.	4.189636	0	
89	N101	-6.441618	0.208333	3.719022	0	
90	N103	6.477149	0.	3.739584	0	
91	N104	6.441659	0.	3.719094	0	
92	N105	1.461399	0.	0.843787	0	
93	N106	2.537568	0.	4.063142	0	
94	N107	2.537568	0.	4.189636	0	
95	N108	4.787526	0	0.166099	0	
96	N109	3.662584	0.	2.114621	0	
97	N113	6.755388	0.	3.321403	0	
98	N114	2.537568	0.208333	4.063142	0	
99	N115	4.787526	0.208333	0.166099	0	
100	N116	3.662547	0.208333	2.114621	0	
101	N117	6.254087	0.208333	4.043835	0	
102	N118	6.629058	0.208333	3.39434	0	
103	N119	5.070404	0.	2.927413	0	
104	N120	4.366747	0.	2.521163	0	
105	N121	5.070404	0.208333	2.927413	0	
106	N122	4.366747	0.208333	2.521163	0	
107	N123	4.420277	0.208333	4.053362	0	
108	N124	3.47926	0.208333	4.05825	0	
109	N125	5.720411	0.208333	1.801464	0	
110	N126	5.254136	0.208333	0.984075	0	
111	N127	5.774062	0.	3.333663	0	
112	N128	5.77399	0.208333	3.333663	0	
113	N129	5.361294	0.208333	4.048473	0	
114	N130	6.186686	0.208333	2.618852	0	
115	N133	4.897115	0	0.10278	0	
116	N134	6.441569	0.208333	3.719094	0	
117	N129A	-5.583348	3.25	4.189636	0	
118	N124A	5.583321	3.25	4.189636	0	
119	N125A	5.583321	3.25	4.089636	0	
120	N127A	-5.583346	3.25	4.089636	0	
121	N156	6.522301	0.	2.917685	0	
122	N157	4.664028	0	-0.300939	0	
123	N158	2.592635	0.	-3.888697	0	
124	N159	0.734375	0.	-7.107297	0	
125	N160	3.628338	0.	-2.094806	0	
126	N163	6.024172	0.	2.0549	0	
127	N164	4.670005	0.	-0.290586	0	
128	N165	2.670005	0.	-3.754688	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
129	N166	1.003339	0.	-6.641439	0	
130	N167	6.240678	0.	1.9299	0	
131	N168	4.886512	0.	-0.415586	0	
132	N169	2.886512	0.	-3.879688	0	
133	N170	1.219845	0.	-6.766439	0	
134	N171	6.753339	3.25	3.317853	0	
135	N172	0.503338	3.25	-7.507466	0	
136	N173	6.024172	3.25	2.0549	0	
137	N174	4.670005	3.25	-0.290586	0	
138	N175	2.670005	3.25	-3.754688	0	
139	N176	1.003339	3.25	-6.641439	0	
140	N177	6.240678	3.25	1.9299	0	
141	N178	4.886512	3.25	-0.415586	0	
142	N179	2.886512	3.25	-3.879688	0	
143	N180A	1.219845	3.25	-6.766439	0	
144	N181	6.240678	4.4375	1.9299	0	
145	N182	4.886512	4.4375	-0.415586	0	
146	N183	2.886512	4.4375	-3.879688	0	
147	N184	1.219845	4.4375	-6.766439	0	
148	N185	6.240678	-1.5625	1.9299	0	
149	N186	4.886512	-1.5625	-0.415586	0	
150	N187	2.886512	-1.5625	-3.879688	0	
151	N188	1.219845	-1.5625	-6.766439	0	
152	N191	6.420005	3.25	2.740503	0	
153	N192	0.836671	3.25	-6.930116	0	
154	N222	-0.734362	0.	-7.107321	0	
155	N223	-2.592635	0	-3.888697	0	
156	N224	-4.664028	0.	-0.300939	0	
157	N225	-6.522288	0.	2.917661	0	
158	N226	-3.628325	0.	-2.09483	0	
159	N229	-1.232491	0.	-6.244536	0	
160	N230	-2.586657	0.	-3.89905	0	
161	N231	-4.586657	0.	-0.434949	0	
162	N232	-6.253324	0.	2.451803	0	
163	N233	-1.448997	0.	-6.369536	0	
164	N234	-2.803164	0.	-4.02405	0	
165	N235	-4.803164	0.	-0.559949	0	
166	N236	-6.46983	0.	2.326803	0	
167	N237	-0.503324	3.25	-7.507489	0	
168	N238	-6.753325	3.25	3.31783	0	
169	N239	-1.232491	3.25	-6.244536	0	
170	N240	-2.586657	3.25	-3.89905	0	
171	N241	-4.586657	3.25	-0.434949	0	
172	N242	-6.253324	3.25	2.451803	0	
173	N243	-1.448997	3.25	-6.369536	0	
174	N244	-2.803164	3.25	-4.02405	0	
175	N245	-4.803164	3.25	-0.559949	0	
176	N246	-6.46983	3.25	2.326803	0	
177	N247	-1.448997	4.4375	-6.369536	0	
178	N248	-2.803164	4.4375	-4.02405	0	
179	N249	-4.803164	4.4375	-0.559949	0	
180	N250	-6.46983	4.4375	2.326803	0	
181	N251	-1.448997	-1.5625	-6.369536	0	
182	N252	-2.803164	-1.5625	-4.02405	0	
183	N253	-4.803164	-1.5625	-0.559949	0	
184	N254	-6.46983	-1.5625	2.326803	0	
185	N257	-0.836657	3.25	-6.930139	0	



Company : Maser Consulting
 Designer : AE
 Job Number : Project No. 10069083
 Model Name : 468035-VZW_MT_LO_H

June 10, 2021
 10:30 AM
 Checked By: DX

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
186	N258	-6.419992	3.25	2.740479	0	
187	N277B	0.000042	0.	-2.687502	0	
188	N278B	-0.224958	0.	-2.687502	0	
189	N279B	-0.224958	-2	-2.687502	0	
190	N280B	-0.224958	3.791667	-2.687502	0	
191	N317A	0.750069	3.25	-6.880116	0	
192	N318A	6.333402	3.25	2.790501	0	
193	N322A	-6.333389	3.25	2.790479	0	
194	N323A	-0.750056	3.25	-6.880138	0	
195	N248B	2.327428	0.	1.343781	0	
196	N249A	2.439924	0.	1.148932	0	
197	N250A	2.439924	-1	1.148932	0	
198	N251A	2.439924	3	1.148932	0	
199	N248C	1.916652	3.	4.439636	0	
200	N249B	1.916652	-0.5	4.439636	0	
201	N250B	1.916652	1.25	4.439636	0	
202	N252A	1.916652	2.25	4.439636	0	
203	N253B	1.916652	0.25	4.439636	0	
204	N253C	-0.224958	1	-2.687502	0	
205	N212	-5.770848	0.	4.189636	0	
206	N213	-5.774947	0.	4.043763	0	
207	N214	-5.774947	0.208333	4.043763	0	
208	N215	5.770821	0.	4.189636	0	
209	N216	5.77492	0.	4.043835	0	
210	N217	5.77492	0.208333	4.043835	0	
211	N215A	6.513755	0.	2.902883	0	
212	N216A	6.389475	0.	2.97937	0	
213	N217A	6.389475	0.208333	2.97937	0	
214	N218	0.742921	0.	-7.092495	0	
215	N219	0.614604	0.	-7.023145	0	
216	N220	0.614604	0.208333	-7.023145	0	
217	N224A	-0.742907	0.	-7.092519	0	
218	N225A	-0.614528	0.	-7.023132	0	
219	N226A	-0.614528	0.208333	-7.023132	0	
220	N227	-6.513742	0.	2.902859	0	
221	N228	-6.389524	0.	2.97931	0	
222	N229A	-6.389524	0.208333	2.97931	0	
223	N226B	0.000042	0.	-3.479169	0	
224	N229B	-3.01307	0.	1.739548	0	
225	N232A	3.013028	0.	1.739621	0	
226	N229C	0.000042	0.	-6.261003	0	
227	N231A	-5.422209	0.	3.130465	0	
228	N233A	5.422167	0.	3.130538	0	
229	N232B	-0.000042	4.5	1.687502	0	
230	N233B	1.461441	4.5	-0.843715	0	
231	N234A	-1.461399	4.5	-0.843787	0	
232	N235A	-3.125014	3.25	4.189636	0	
233	N236A	3.124987	3.25	4.189636	0	
234	N239A	5.190838	3.25	0.611523	0	
235	N240A	2.065838	3.25	-4.801136	0	
236	N243A	-2.065824	3.25	-4.80116	0	
237	N244A	-5.190825	3.25	0.6115	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Standoff Arm	HSS5X3X6	Beam	Tube	A500 Gr.B Re...	Typical	4.78	6.25	14.1	14.9
2	Platform Support	PL3/8x2	Beam	RECT	A36 Gr.36	Typical	.75	.009	.25	.031
3	Platform Angle	L2.5X1X4	Beam	Single Angle	A36 Gr.36	Typical	.813	.048	.509	.015
4	TES PA	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
5	Standoff Horizontal	L3.5X3X3	Beam	Single Angle	A36 Gr.36	Typical	1.138	.971	1.419	.012
6	TES SH	L4X4X4	Beam	Single Angle	A36 Gr.36	Typical	1.93	3	3	.044
7	Face Horizontal	PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
8	Support rail corner	L5.25X3.75X3	Beam	Single Angle	A36 Gr.36	Typical	18	18.839	40.355	19.98
9	TES SRC	L6X6X5	Beam	Single Angle	A36 Gr.36	Typical	3.67	13	13	.129
10	Support Rail	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
11	Antenna pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
12	Corner Angle	L6x2.5x4	Beam	RECT	A36 Gr.36	Typical	2.063	.884	7.884	.041
13	TES CA	L6X6X5	Beam	RECT	A36 Gr.36	Typical	3.67	13	13	.129
14	Mod Kickers	LL3x3x3x3	Beam	RECT	A36 Gr.36	Typical	2.18	4.09	1.9	.027
15	Mod SFS kit	L2.5x2.5x3	Beam	RECT	A36 Gr.36	Typical	.901	.535	.535	.011
16	threaded Rods	SR_0.5	Beam	RECT	A36 Gr.36	Typical	.196	.003	.003	.006

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M46	N68	N69			RIGID	None	None	RIGID	Typical
2	M47	N70	N180			RIGID	None	None	RIGID	Typical
3	M48	N67	N63			Standoff Arm	Beam	Tube	A500 Gr.B...	Typical
4	M53	N76	N78		90	Standoff Horiz...	Beam	Single Angle	A36 Gr.36	Typical
5	M54	N78	N77		90	Standoff Horiz...	Beam	Single Angle	A36 Gr.36	Typical
6	M55	N77	N70			RIGID	None	None	RIGID	Typical
7	M56	N76	N68			RIGID	None	None	RIGID	Typical
8	M57	N78	N71			RIGID	None	None	RIGID	Typical
9	M60	N81	N83			RIGID	None	None	RIGID	Typical
10	M61	N82	N84			RIGID	None	None	RIGID	Typical
11	M62	N87	N85		90	Platform Supp...	Beam	RECT	A36 Gr.36	Typical
12	M63	N88	N86		90	Platform Supp...	Beam	RECT	A36 Gr.36	Typical
13	M64	N89	N90			RIGID	None	None	RIGID	Typical
14	M65	N92	N91		90	Platform Supp...	Beam	RECT	A36 Gr.36	Typical
15	M66	N77	N80		90	Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
16	M67	N76	N79		180	Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
17	M200	N275A	N276A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
18	M182A	N280A	N284A			RIGID	None	None	RIGID	Typical
19	M183A	N279A	N283A			RIGID	None	None	RIGID	Typical
20	M184A	N278A	N282A			RIGID	None	None	RIGID	Typical
21	M185A	N277A	N281A			RIGID	None	None	RIGID	Typical
22	M186A	N285A	N286A			Support Rail	Beam	Pipe	A53 Gr.B	Typical
23	M187A	N290A	N294A			RIGID	None	None	RIGID	Typical
24	M188A	N289A	N293A			RIGID	None	None	RIGID	Typical
25	M189A	N288A	N292A			RIGID	None	None	RIGID	Typical



Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
26	M190A	N287A	N291A			RIGID	None	None	RIGID	Typical
27	MP4A	N295A	N299A			Antenna pipe	Column	Pipe	A53 Gr.B	Typical
28	MP3A	N296A	N300A			Antenna pipe	Column	Pipe	A53 Gr.B	Typical
29	MP2A	N297A	N301A			Antenna pipe	Column	Pipe	A53 Gr.B	Typical
30	MP1A	N298A	N302A			Antenna pipe	Column	Pipe	A53 Gr.B	Typical
31	M113	N79	N80		180	Corner Angle	Beam	RECT	A36 Gr.36	Typical
32	M114A	N180B	N66		120	RIGID	None	None	RIGID	Typical
33	M39	N73A	N74A			RIGID	None	None	RIGID	Typical
34	M40	N75A	N100			RIGID	None	None	RIGID	Typical
35	M41	N72A	N70A			Standoff Arm	Beam	Tube	A500 Gr.B...	Typical
36	M44	N81A	N83A		90	Standoff Horiz...	Beam	Single Angle	A36 Gr.36	Typical
37	M45	N83A	N82A		90	Standoff Horiz...	Beam	Single Angle	A36 Gr.36	Typical
38	M46A	N82A	N75A		240	RIGID	None	None	RIGID	Typical
39	M47A	N81A	N73A		240	RIGID	None	None	RIGID	Typical
40	M48A	N83A	N76A		240	RIGID	None	None	RIGID	Typical
41	M51A	N86A	N88A		120	RIGID	None	None	RIGID	Typical
42	M52	N87A	N89A		120	RIGID	None	None	RIGID	Typical
43	M53A	N92A	N90A		90	Platform Supp...	Beam	RECT	A36 Gr.36	Typical
44	M54A	N93	N91A		90	Platform Supp...	Beam	RECT	A36 Gr.36	Typical
45	M55A	N94	N95		120	RIGID	None	None	RIGID	Typical
46	M56A	N97	N96		90	Platform Supp...	Beam	RECT	A36 Gr.36	Typical
47	M57A	N82A	N85A		90	Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
48	M58A	N81A	N84A		180	Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
49	M61A	N79A	N85A		180	Corner Angle	Beam	RECT	A36 Gr.36	Typical
50	M62A	N101	N71A		360	RIGID	None	None	RIGID	Typical
51	M63A	N106	N107			RIGID	None	None	RIGID	Typical
52	M64A	N108	N133			RIGID	None	None	RIGID	Typical
53	M65A	N105	N103			Standoff Arm	Beam	Tube	A500 Gr.B...	Typical
54	M68	N114	N116		90	Standoff Horiz...	Beam	Single Angle	A36 Gr.36	Typical
55	M69	N116	N115		90	Standoff Horiz...	Beam	Single Angle	A36 Gr.36	Typical
56	M70	N115	N108		120	RIGID	None	None	RIGID	Typical
57	M71	N114	N106		120	RIGID	None	None	RIGID	Typical
58	M72	N116	N109		120	RIGID	None	None	RIGID	Typical
59	M75	N119	N121		240	RIGID	None	None	RIGID	Typical
60	M76	N120	N122		240	RIGID	None	None	RIGID	Typical
61	M77	N125	N123		90	Platform Supp...	Beam	RECT	A36 Gr.36	Typical
62	M78	N126	N124		90	Platform Supp...	Beam	RECT	A36 Gr.36	Typical
63	M79	N127	N128		240	RIGID	None	None	RIGID	Typical
64	M80	N130	N129		90	Platform Supp...	Beam	RECT	A36 Gr.36	Typical
65	M81	N115	N118		90	Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
66	M82	N114	N117		180	Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
67	M85	N117	N118		180	Corner Angle	Beam	RECT	A36 Gr.36	Typical
68	M86	N134	N104		240	RIGID	None	None	RIGID	Typical
69	M84A	N124A	N125A			RIGID	None	None	RIGID	Typical
70	M85A	N129A	N127A			RIGID	None	None	RIGID	Typical
71	M112A	N113	N74			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
72	M113A	N166	N170			RIGID	None	None	RIGID	Typical
73	M114	N165	N169			RIGID	None	None	RIGID	Typical
74	M115	N164	N168			RIGID	None	None	RIGID	Typical
75	M116	N163	N167			RIGID	None	None	RIGID	Typical
76	M117	N171	N172			Support Rail	Beam	Pipe	A53 Gr.B	Typical
77	M118	N176	N180A			RIGID	None	None	RIGID	Typical
78	M119	N175	N179			RIGID	None	None	RIGID	Typical
79	M120	N174	N178			RIGID	None	None	RIGID	Typical
80	M121	N173	N177			RIGID	None	None	RIGID	Typical
81	MP4C	N181	N185		240	Antenna pipe	Column	Pipe	A53 Gr.B	Typical
82	MP3C	N182	N186		240	Antenna pipe	Column	Pipe	A53 Gr.B	Typical



Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
83	MP2C	N183	N187		240	Antenna pipe	Column	Pipe	A53 Gr.B	Typical
84	MP1C	N184	N188		240	Antenna pipe	Column	Pipe	A53 Gr.B	Typical
85	M152	N75	N79A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
86	M153	N232	N236			RIGID	None	None	RIGID	Typical
87	M154	N231	N235			RIGID	None	None	RIGID	Typical
88	M155	N230	N234			RIGID	None	None	RIGID	Typical
89	M156	N229	N233			RIGID	None	None	RIGID	Typical
90	M157	N237	N238			Support Rail	Beam	Pipe	A53 Gr.B	Typical
91	M158	N242	N246			RIGID	None	None	RIGID	Typical
92	M159	N241	N245			RIGID	None	None	RIGID	Typical
93	M160	N240	N244			RIGID	None	None	RIGID	Typical
94	M161	N239	N243			RIGID	None	None	RIGID	Typical
95	MP4B	N247	N251		120	Antenna pipe	Column	Pipe	A53 Gr.B	Typical
96	MP3B	N248	N252		120	Antenna pipe	Column	Pipe	A53 Gr.B	Typical
97	MP2B	N249	N253		120	Antenna pipe	Column	Pipe	A53 Gr.B	Typical
98	MP1B	N250	N254		120	Antenna pipe	Column	Pipe	A53 Gr.B	Typical
99	M192	N277B	N278B			RIGID	None	None	RIGID	Typical
100	M193	N280B	N279B			Antenna pipe	Column	Pipe	A53 Gr.B	Typical
101	M220A	N192	N317A			RIGID	None	None	RIGID	Typical
102	M221A	N191	N318A			RIGID	None	None	RIGID	Typical
103	M222A	N258	N322A			RIGID	None	None	RIGID	Typical
104	M223A	N257	N323A			RIGID	None	None	RIGID	Typical
105	M224A	N322A	N127A		180	Support rail co...	Beam	Single Angle	A36 Gr.36	Typical
106	M225A	N125A	N318A		180	Support rail co...	Beam	Single Angle	A36 Gr.36	Typical
107	M226A	N317A	N323A		180	Support rail co...	Beam	Single Angle	A36 Gr.36	Typical
108	M161A	N248B	N249A			RIGID	None	None	RIGID	Typical
109	M162	N251A	N250A		120	Antenna pipe	Column	Pipe	A53 Gr.B	Typical
110	M122	N213	N212			RIGID	None	None	RIGID	Typical
111	M123	N213	N214		120	RIGID	None	None	RIGID	Typical
112	M124	N216	N215			RIGID	None	None	RIGID	Typical
113	M125	N216	N217		240	RIGID	None	None	RIGID	Typical
114	M114B	N216A	N215A			RIGID	None	None	RIGID	Typical
115	M115A	N216A	N217A		240	RIGID	None	None	RIGID	Typical
116	M116A	N219	N218			RIGID	None	None	RIGID	Typical
117	M117A	N219	N220		360	RIGID	None	None	RIGID	Typical
118	M118A	N225A	N224A			RIGID	None	None	RIGID	Typical
119	M119A	N225A	N226A		360	RIGID	None	None	RIGID	Typical
120	M120A	N228	N227			RIGID	None	None	RIGID	Typical
121	M121A	N228	N229A		120	RIGID	None	None	RIGID	Typical
122	M125A	N232B	N235A		180	Mod SFS kit	Beam	RECT	A36 Gr.36	Typical
123	M126	N232B	N236A		90	Mod SFS kit	Beam	RECT	A36 Gr.36	Typical
124	M127	N233B	N239A		180	Mod SFS kit	Beam	RECT	A36 Gr.36	Typical
125	M128	N233B	N240A		90	Mod SFS kit	Beam	RECT	A36 Gr.36	Typical
126	M129	N234A	N243A		180	Mod SFS kit	Beam	RECT	A36 Gr.36	Typical
127	M130	N234A	N244A		90	Mod SFS kit	Beam	RECT	A36 Gr.36	Typical

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	M48	Standoff Arm	5.792	Segment	Segment	Lbyy			2.1	2.1		Lateral
2	M53	Standoff Ho...	2.25			Lbyy			.65	.65		Lateral
3	M54	Standoff Ho...	2.25			Lbyy			.65	.65		Lateral
4	M62	Platform Su...	2.6			Lbyy						Lateral
5	M63	Platform Su...	3.55			Lbyy						Lateral
6	M65	Platform Su...	1.651			Lbyy						Lateral
7	M66	Platform An...	3.717			Lbyy						Lateral



Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
8	M67	Platform An...	3.717			Lbyy						Lateral
9	M200	Face Horizo...	12.5			Lbyy						Lateral
10	M186A	Support Rail	12.5			Lbyy						Lateral
11	MP4A	Antenna pipe	6									Lateral
12	MP3A	Antenna pipe	6									Lateral
13	MP2A	Antenna pipe	6									Lateral
14	MP1A	Antenna pipe	6									Lateral
15	M113	Corner Angle	.75			Lbyy						Lateral
16	M41	Standoff Arm	5.792	Segment	Segment	Lbyy			2.1	2.1		Lateral
17	M44	Standoff Ho...	2.25			Lbyy			.65	.65		Lateral
18	M45	Standoff Ho...	2.25			Lbyy			.65	.65		Lateral
19	M53A	Platform Su...	2.6			Lbyy						Lateral
20	M54A	Platform Su...	3.55			Lbyy						Lateral
21	M56A	Platform Su...	1.651			Lbyy						Lateral
22	M57A	Platform An...	3.717			Lbyy						Lateral
23	M58A	Platform An...	3.717			Lbyy						Lateral
24	M61A	Corner Angle	.904			Lbyy						Lateral
25	M65A	Standoff Arm	5.792	Segment	Segment	Lbyy			2.1	2.1		Lateral
26	M68	Standoff Ho...	2.25			Lbyy			.65	.65		Lateral
27	M69	Standoff Ho...	2.25			Lbyy			.65	.65		Lateral
28	M77	Platform Su...	2.6			Lbyy						Lateral
29	M78	Platform Su...	3.55			Lbyy						Lateral
30	M80	Platform Su...	1.651			Lbyy						Lateral
31	M81	Platform An...	3.717			Lbyy						Lateral
32	M82	Platform An...	3.717			Lbyy						Lateral
33	M85	Corner Angle	.75			Lbyy						Lateral
34	M112A	Face Horizo...	12.508			Lbyy						Lateral
35	M117	Support Rail	12.5			Lbyy						Lateral
36	MP4C	Antenna pipe	6									Lateral
37	MP3C	Antenna pipe	6									Lateral
38	MP2C	Antenna pipe	6									Lateral
39	MP1C	Antenna pipe	6									Lateral
40	M152	Face Horizo...	12.508			Lbyy						Lateral
41	M157	Support Rail	12.5			Lbyy						Lateral
42	MP4B	Antenna pipe	6									Lateral
43	MP3B	Antenna pipe	6									Lateral
44	MP2B	Antenna pipe	6									Lateral
45	MP1B	Antenna pipe	6									Lateral
46	M193	Antenna pipe	5.792									Lateral
47	M224A	Support rail ...	1.5			Lbyy						Lateral
48	M225A	Support rail ...	1.5			Lbyy						Lateral
49	M226A	Support rail ...	1.5			Lbyy						Lateral
50	M162	Antenna pipe	4									Lateral
51	M125A	Mod SFS kit	4.194			Lbyy						Lateral
52	M126	Mod SFS kit	4.194			Lbyy						Lateral
53	M127	Mod SFS kit	4.194			Lbyy						Lateral
54	M128	Mod SFS kit	4.194			Lbyy						Lateral
55	M129	Mod SFS kit	4.194			Lbyy						Lateral
56	M130	Mod SFS kit	4.194			Lbyy						Lateral

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	Y	-43.55	2.19
2	MP4A	My	-.022	2.19
3	MP4A	Mz	0	2.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
4	MP4A	Y	-43.55	4.19
5	MP4A	My	-.022	4.19
6	MP4A	Mz	0	4.19
7	MP4B	Y	-43.55	2.19
8	MP4B	My	.011	2.19
9	MP4B	Mz	-.019	2.19
10	MP4B	Y	-43.55	4.19
11	MP4B	My	.011	4.19
12	MP4B	Mz	-.019	4.19
13	MP4C	Y	-43.55	2.19
14	MP4C	My	.011	2.19
15	MP4C	Mz	.019	2.19
16	MP4C	Y	-43.55	4.19
17	MP4C	My	.011	4.19
18	MP4C	Mz	.019	4.19
19	MP2A	Y	-31.65	1.42
20	MP2A	My	-.036	1.42
21	MP2A	Mz	.024	1.42
22	MP2A	Y	-31.65	4.94
23	MP2A	My	-.036	4.94
24	MP2A	Mz	.024	4.94
25	MP2B	Y	-31.65	1.42
26	MP2B	My	-.003	1.42
27	MP2B	Mz	-.043	1.42
28	MP2B	Y	-31.65	4.94
29	MP2B	My	-.003	4.94
30	MP2B	Mz	-.043	4.94
31	MP2C	Y	-31.65	1.42
32	MP2C	My	.038	1.42
33	MP2C	Mz	.019	1.42
34	MP2C	Y	-31.65	4.94
35	MP2C	My	.038	4.94
36	MP2C	Mz	.019	4.94
37	MP2A	Y	-31.65	1.42
38	MP2A	My	-.036	1.42
39	MP2A	Mz	-.024	1.42
40	MP2A	Y	-31.65	4.94
41	MP2A	My	-.036	4.94
42	MP2A	Mz	-.024	4.94
43	MP2B	Y	-31.65	1.42
44	MP2B	My	.038	1.42
45	MP2B	Mz	-.019	1.42
46	MP2B	Y	-31.65	4.94
47	MP2B	My	.038	4.94
48	MP2B	Mz	-.019	4.94
49	MP2C	Y	-31.65	1.42
50	MP2C	My	-.003	1.42
51	MP2C	Mz	.043	1.42
52	MP2C	Y	-31.65	4.94
53	MP2C	My	-.003	4.94
54	MP2C	Mz	.043	4.94
55	MP2A	Y	-10.4	.5
56	MP2A	My	.004	.5
57	MP2A	Mz	0	.5
58	MP2B	Y	-10.4	.5
59	MP2B	My	-.002	.5
60	MP2B	Mz	.004	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
61	MP2C	Y	-10.4	.5
62	MP2C	My	-.002	.5
63	MP2C	Mz	-.004	.5
64	MP3A	Y	-84.4	2.19
65	MP3A	My	.067	2.19
66	MP3A	Mz	0	2.19
67	MP3B	Y	-84.4	2.19
68	MP3B	My	.067	2.19
69	MP3B	Mz	0	2.19
70	MP3C	Y	-84.4	2.19
71	MP3C	My	.067	2.19
72	MP3C	Mz	0	2.19
73	MP2A	Y	-70.3	2.19
74	MP2A	My	.056	2.19
75	MP2A	Mz	0	2.19
76	MP2B	Y	-70.3	2.19
77	MP2B	My	-.028	2.19
78	MP2B	Mz	.048	2.19
79	MP2C	Y	-70.3	2.19
80	MP2C	My	-.028	2.19
81	MP2C	Mz	-.048	2.19
82	M193	Y	-26.9	2.79
83	M193	My	0	2.79
84	M193	Mz	0	2.79
85	M162	Y	-26.9	1
86	M162	My	0	1
87	M162	Mz	0	1

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	Y	-36.243	2.19
2	MP4A	My	-.018	2.19
3	MP4A	Mz	0	2.19
4	MP4A	Y	-36.243	4.19
5	MP4A	My	-.018	4.19
6	MP4A	Mz	0	4.19
7	MP4B	Y	-36.243	2.19
8	MP4B	My	.009	2.19
9	MP4B	Mz	-.016	2.19
10	MP4B	Y	-36.243	4.19
11	MP4B	My	.009	4.19
12	MP4B	Mz	-.016	4.19
13	MP4C	Y	-36.243	2.19
14	MP4C	My	.009	2.19
15	MP4C	Mz	.016	2.19
16	MP4C	Y	-36.243	4.19
17	MP4C	My	.009	4.19
18	MP4C	Mz	.016	4.19
19	MP2A	Y	-71.162	1.42
20	MP2A	My	-.08	1.42
21	MP2A	Mz	.053	1.42
22	MP2A	Y	-71.162	4.94
23	MP2A	My	-.08	4.94
24	MP2A	Mz	.053	4.94
25	MP2B	Y	-71.162	1.42
26	MP2B	My	-.006	1.42



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
27	MP2B	Mz	-.096	1.42
28	MP2B	Y	-71.162	4.94
29	MP2B	My	-.006	4.94
30	MP2B	Mz	-.096	4.94
31	MP2C	Y	-71.162	1.42
32	MP2C	My	.086	1.42
33	MP2C	Mz	.043	1.42
34	MP2C	Y	-71.162	4.94
35	MP2C	My	.086	4.94
36	MP2C	Mz	.043	4.94
37	MP2A	Y	-71.162	1.42
38	MP2A	My	-.08	1.42
39	MP2A	Mz	-.053	1.42
40	MP2A	Y	-71.162	4.94
41	MP2A	My	-.08	4.94
42	MP2A	Mz	-.053	4.94
43	MP2B	Y	-71.162	1.42
44	MP2B	My	.086	1.42
45	MP2B	Mz	-.043	1.42
46	MP2B	Y	-71.162	4.94
47	MP2B	My	.086	4.94
48	MP2B	Mz	-.043	4.94
49	MP2C	Y	-71.162	1.42
50	MP2C	My	-.006	1.42
51	MP2C	Mz	.096	1.42
52	MP2C	Y	-71.162	4.94
53	MP2C	My	-.006	4.94
54	MP2C	Mz	.096	4.94
55	MP2A	Y	-10.957	.5
56	MP2A	My	.005	.5
57	MP2A	Mz	0	.5
58	MP2B	Y	-10.957	.5
59	MP2B	My	-.002	.5
60	MP2B	Mz	.004	.5
61	MP2C	Y	-10.957	.5
62	MP2C	My	-.002	.5
63	MP2C	Mz	-.004	.5
64	MP3A	Y	-45.705	2.19
65	MP3A	My	.036	2.19
66	MP3A	Mz	0	2.19
67	MP3B	Y	-45.705	2.19
68	MP3B	My	.036	2.19
69	MP3B	Mz	0	2.19
70	MP3C	Y	-45.705	2.19
71	MP3C	My	.036	2.19
72	MP3C	Mz	0	2.19
73	MP2A	Y	-41.109	2.19
74	MP2A	My	.033	2.19
75	MP2A	Mz	0	2.19
76	MP2B	Y	-41.109	2.19
77	MP2B	My	-.016	2.19
78	MP2B	Mz	.028	2.19
79	MP2C	Y	-41.109	2.19
80	MP2C	My	-.016	2.19
81	MP2C	Mz	-.028	2.19
82	M193	Y	-56.27	2.79
83	M193	My	0	2.79



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
84	M193	Mz	0	2.79
85	M162	Y	-56.27	1
86	M162	My	0	1
87	M162	Mz	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	0	2.19
2	MP4A	Z	-85.066	2.19
3	MP4A	Mx	0	2.19
4	MP4A	X	0	4.19
5	MP4A	Z	-85.066	4.19
6	MP4A	Mx	0	4.19
7	MP4B	X	0	2.19
8	MP4B	Z	-46.244	2.19
9	MP4B	Mx	.02	2.19
10	MP4B	X	0	4.19
11	MP4B	Z	-46.244	4.19
12	MP4B	Mx	.02	4.19
13	MP4C	X	0	2.19
14	MP4C	Z	-46.244	2.19
15	MP4C	Mx	-.02	2.19
16	MP4C	X	0	4.19
17	MP4C	Z	-46.244	4.19
18	MP4C	Mx	-.02	4.19
19	MP2A	X	0	1.42
20	MP2A	Z	-164.882	1.42
21	MP2A	Mx	-.124	1.42
22	MP2A	X	0	4.94
23	MP2A	Z	-164.882	4.94
24	MP2A	Mx	-.124	4.94
25	MP2B	X	0	1.42
26	MP2B	Z	-122.44	1.42
27	MP2B	Mx	.165	1.42
28	MP2B	X	0	4.94
29	MP2B	Z	-122.44	4.94
30	MP2B	Mx	.165	4.94
31	MP2C	X	0	1.42
32	MP2C	Z	-122.44	1.42
33	MP2C	Mx	-.073	1.42
34	MP2C	X	0	4.94
35	MP2C	Z	-122.44	4.94
36	MP2C	Mx	-.073	4.94
37	MP2A	X	0	1.42
38	MP2A	Z	-164.882	1.42
39	MP2A	Mx	.124	1.42
40	MP2A	X	0	4.94
41	MP2A	Z	-164.882	4.94
42	MP2A	Mx	.124	4.94
43	MP2B	X	0	1.42
44	MP2B	Z	-122.44	1.42
45	MP2B	Mx	.073	1.42
46	MP2B	X	0	4.94
47	MP2B	Z	-122.44	4.94
48	MP2B	Mx	.073	4.94
49	MP2C	X	0	1.42



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
50	MP2C	Z	-122.44	1.42
51	MP2C	Mx	-.165	1.42
52	MP2C	X	0	4.94
53	MP2C	Z	-122.44	4.94
54	MP2C	Mx	-.165	4.94
55	MP2A	X	0	.5
56	MP2A	Z	-13.393	.5
57	MP2A	Mx	0	.5
58	MP2B	X	0	.5
59	MP2B	Z	-10.298	.5
60	MP2B	Mx	-.004	.5
61	MP2C	X	0	.5
62	MP2C	Z	-10.298	.5
63	MP2C	Mx	.004	.5
64	MP3A	X	0	2.19
65	MP3A	Z	-67.69	2.19
66	MP3A	Mx	0	2.19
67	MP3B	X	0	2.19
68	MP3B	Z	-67.69	2.19
69	MP3B	Mx	0	2.19
70	MP3C	X	0	2.19
71	MP3C	Z	-67.69	2.19
72	MP3C	Mx	0	2.19
73	MP2A	X	0	2.19
74	MP2A	Z	-67.69	2.19
75	MP2A	Mx	0	2.19
76	MP2B	X	0	2.19
77	MP2B	Z	-44.411	2.19
78	MP2B	Mx	-.03	2.19
79	MP2C	X	0	2.19
80	MP2C	Z	-44.411	2.19
81	MP2C	Mx	.03	2.19
82	M193	X	0	2.79
83	M193	Z	-62.479	2.79
84	M193	Mx	0	2.79
85	M162	X	0	1
86	M162	Z	-62.479	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	36.062	2.19
2	MP4A	Z	-62.462	2.19
3	MP4A	Mx	-.018	2.19
4	MP4A	X	36.062	4.19
5	MP4A	Z	-62.462	4.19
6	MP4A	Mx	-.018	4.19
7	MP4B	X	16.651	2.19
8	MP4B	Z	-28.841	2.19
9	MP4B	Mx	.017	2.19
10	MP4B	X	16.651	4.19
11	MP4B	Z	-28.841	4.19
12	MP4B	Mx	.017	4.19
13	MP4C	X	36.062	2.19
14	MP4C	Z	-62.462	2.19
15	MP4C	Mx	-.018	2.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
16	MP4C	X	36.062	4.19
17	MP4C	Z	-62.462	4.19
18	MP4C	Mx	-.018	4.19
19	MP2A	X	75.367	1.42
20	MP2A	Z	-130.54	1.42
21	MP2A	Mx	-.183	1.42
22	MP2A	X	75.367	4.94
23	MP2A	Z	-130.54	4.94
24	MP2A	Mx	-.183	4.94
25	MP2B	X	54.146	1.42
26	MP2B	Z	-93.784	1.42
27	MP2B	Mx	.122	1.42
28	MP2B	X	54.146	4.94
29	MP2B	Z	-93.784	4.94
30	MP2B	Mx	.122	4.94
31	MP2C	X	75.367	1.42
32	MP2C	Z	-130.54	1.42
33	MP2C	Mx	.013	1.42
34	MP2C	X	75.367	4.94
35	MP2C	Z	-130.54	4.94
36	MP2C	Mx	.013	4.94
37	MP2A	X	75.367	1.42
38	MP2A	Z	-130.54	1.42
39	MP2A	Mx	.013	1.42
40	MP2A	X	75.367	4.94
41	MP2A	Z	-130.54	4.94
42	MP2A	Mx	.013	4.94
43	MP2B	X	54.146	1.42
44	MP2B	Z	-93.784	1.42
45	MP2B	Mx	.122	1.42
46	MP2B	X	54.146	4.94
47	MP2B	Z	-93.784	4.94
48	MP2B	Mx	.122	4.94
49	MP2C	X	75.367	1.42
50	MP2C	Z	-130.54	1.42
51	MP2C	Mx	-.183	1.42
52	MP2C	X	75.367	4.94
53	MP2C	Z	-130.54	4.94
54	MP2C	Mx	-.183	4.94
55	MP2A	X	6.181	.5
56	MP2A	Z	-10.705	.5
57	MP2A	Mx	.003	.5
58	MP2B	X	4.633	.5
59	MP2B	Z	-8.025	.5
60	MP2B	Mx	-.004	.5
61	MP2C	X	6.181	.5
62	MP2C	Z	-10.705	.5
63	MP2C	Mx	.003	.5
64	MP3A	X	31.04	2.19
65	MP3A	Z	-53.763	2.19
66	MP3A	Mx	.025	2.19
67	MP3B	X	31.04	2.19
68	MP3B	Z	-53.763	2.19
69	MP3B	Mx	.025	2.19
70	MP3C	X	31.04	2.19
71	MP3C	Z	-53.763	2.19
72	MP3C	Mx	.025	2.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
73	MP2A	X	29.965	2.19
74	MP2A	Z	-51.901	2.19
75	MP2A	Mx	.024	2.19
76	MP2B	X	18.325	2.19
77	MP2B	Z	-31.74	2.19
78	MP2B	Mx	-.029	2.19
79	MP2C	X	29.965	2.19
80	MP2C	Z	-51.901	2.19
81	MP2C	Mx	.024	2.19
82	M193	X	29.862	2.79
83	M193	Z	-51.723	2.79
84	M193	Mx	0	2.79
85	M162	X	29.862	1
86	M162	Z	-51.723	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	40.048	2.19
2	MP4A	Z	-23.122	2.19
3	MP4A	Mx	-.02	2.19
4	MP4A	X	40.048	4.19
5	MP4A	Z	-23.122	4.19
6	MP4A	Mx	-.02	4.19
7	MP4B	X	40.048	2.19
8	MP4B	Z	-23.122	2.19
9	MP4B	Mx	.02	2.19
10	MP4B	X	40.048	4.19
11	MP4B	Z	-23.122	4.19
12	MP4B	Mx	.02	4.19
13	MP4C	X	73.669	2.19
14	MP4C	Z	-42.533	2.19
15	MP4C	Mx	0	2.19
16	MP4C	X	73.669	4.19
17	MP4C	Z	-42.533	4.19
18	MP4C	Mx	0	4.19
19	MP2A	X	106.036	1.42
20	MP2A	Z	-61.22	1.42
21	MP2A	Mx	-.165	1.42
22	MP2A	X	106.036	4.94
23	MP2A	Z	-61.22	4.94
24	MP2A	Mx	-.165	4.94
25	MP2B	X	106.036	1.42
26	MP2B	Z	-61.22	1.42
27	MP2B	Mx	.073	1.42
28	MP2B	X	106.036	4.94
29	MP2B	Z	-61.22	4.94
30	MP2B	Mx	.073	4.94
31	MP2C	X	142.792	1.42
32	MP2C	Z	-82.441	1.42
33	MP2C	Mx	.124	1.42
34	MP2C	X	142.792	4.94
35	MP2C	Z	-82.441	4.94
36	MP2C	Mx	.124	4.94
37	MP2A	X	106.036	1.42
38	MP2A	Z	-61.22	1.42



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
39	MP2A	Mx	-.073	1.42
40	MP2A	X	106.036	4.94
41	MP2A	Z	-61.22	4.94
42	MP2A	Mx	-.073	4.94
43	MP2B	X	106.036	1.42
44	MP2B	Z	-61.22	1.42
45	MP2B	Mx	.165	1.42
46	MP2B	X	106.036	4.94
47	MP2B	Z	-61.22	4.94
48	MP2B	Mx	.165	4.94
49	MP2C	X	142.792	1.42
50	MP2C	Z	-82.441	1.42
51	MP2C	Mx	-.124	1.42
52	MP2C	X	142.792	4.94
53	MP2C	Z	-82.441	4.94
54	MP2C	Mx	-.124	4.94
55	MP2A	X	8.919	.5
56	MP2A	Z	-5.149	.5
57	MP2A	Mx	.004	.5
58	MP2B	X	8.919	.5
59	MP2B	Z	-5.149	.5
60	MP2B	Mx	-.004	.5
61	MP2C	X	11.599	.5
62	MP2C	Z	-6.697	.5
63	MP2C	Mx	0	.5
64	MP3A	X	44.045	2.19
65	MP3A	Z	-25.429	2.19
66	MP3A	Mx	.035	2.19
67	MP3B	X	44.045	2.19
68	MP3B	Z	-25.429	2.19
69	MP3B	Mx	.035	2.19
70	MP3C	X	44.045	2.19
71	MP3C	Z	-25.429	2.19
72	MP3C	Mx	.035	2.19
73	MP2A	X	38.461	2.19
74	MP2A	Z	-22.205	2.19
75	MP2A	Mx	.03	2.19
76	MP2B	X	38.461	2.19
77	MP2B	Z	-22.205	2.19
78	MP2B	Mx	-.03	2.19
79	MP2C	X	58.622	2.19
80	MP2C	Z	-33.845	2.19
81	MP2C	Mx	0	2.19
82	M193	X	62.247	2.79
83	M193	Z	-35.938	2.79
84	M193	Mx	0	2.79
85	M162	X	62.247	1
86	M162	Z	-35.938	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	33.303	2.19
2	MP4A	Z	0	2.19
3	MP4A	Mx	-.017	2.19
4	MP4A	X	33.303	4.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
5	MP4A	Z	0	4.19
6	MP4A	Mx	-.017	4.19
7	MP4B	X	72.125	2.19
8	MP4B	Z	0	2.19
9	MP4B	Mx	.018	2.19
10	MP4B	X	72.125	4.19
11	MP4B	Z	0	4.19
12	MP4B	Mx	.018	4.19
13	MP4C	X	72.125	2.19
14	MP4C	Z	0	2.19
15	MP4C	Mx	.018	2.19
16	MP4C	X	72.125	4.19
17	MP4C	Z	0	4.19
18	MP4C	Mx	.018	4.19
19	MP2A	X	108.293	1.42
20	MP2A	Z	0	1.42
21	MP2A	Mx	-.122	1.42
22	MP2A	X	108.293	4.94
23	MP2A	Z	0	4.94
24	MP2A	Mx	-.122	4.94
25	MP2B	X	150.735	1.42
26	MP2B	Z	0	1.42
27	MP2B	Mx	-.013	1.42
28	MP2B	X	150.735	4.94
29	MP2B	Z	0	4.94
30	MP2B	Mx	-.013	4.94
31	MP2C	X	150.735	1.42
32	MP2C	Z	0	1.42
33	MP2C	Mx	.183	1.42
34	MP2C	X	150.735	4.94
35	MP2C	Z	0	4.94
36	MP2C	Mx	.183	4.94
37	MP2A	X	108.293	1.42
38	MP2A	Z	0	1.42
39	MP2A	Mx	-.122	1.42
40	MP2A	X	108.293	4.94
41	MP2A	Z	0	4.94
42	MP2A	Mx	-.122	4.94
43	MP2B	X	150.735	1.42
44	MP2B	Z	0	1.42
45	MP2B	Mx	.183	1.42
46	MP2B	X	150.735	4.94
47	MP2B	Z	0	4.94
48	MP2B	Mx	.183	4.94
49	MP2C	X	150.735	1.42
50	MP2C	Z	0	1.42
51	MP2C	Mx	-.013	1.42
52	MP2C	X	150.735	4.94
53	MP2C	Z	0	4.94
54	MP2C	Mx	-.013	4.94
55	MP2A	X	9.267	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	.004	.5
58	MP2B	X	12.362	.5
59	MP2B	Z	0	.5
60	MP2B	Mx	-.003	.5
61	MP2C	X	12.362	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
28	MP2B	X	142.792	4.94
29	MP2B	Z	82.441	4.94
30	MP2B	Mx	-.124	4.94
31	MP2C	X	106.036	1.42
32	MP2C	Z	61.22	1.42
33	MP2C	Mx	.165	1.42
34	MP2C	X	106.036	4.94
35	MP2C	Z	61.22	4.94
36	MP2C	Mx	.165	4.94
37	MP2A	X	106.036	1.42
38	MP2A	Z	61.22	1.42
39	MP2A	Mx	-.165	1.42
40	MP2A	X	106.036	4.94
41	MP2A	Z	61.22	4.94
42	MP2A	Mx	-.165	4.94
43	MP2B	X	142.792	1.42
44	MP2B	Z	82.441	1.42
45	MP2B	Mx	.124	1.42
46	MP2B	X	142.792	4.94
47	MP2B	Z	82.441	4.94
48	MP2B	Mx	.124	4.94
49	MP2C	X	106.036	1.42
50	MP2C	Z	61.22	1.42
51	MP2C	Mx	.073	1.42
52	MP2C	X	106.036	4.94
53	MP2C	Z	61.22	4.94
54	MP2C	Mx	.073	4.94
55	MP2A	X	8.919	.5
56	MP2A	Z	5.149	.5
57	MP2A	Mx	.004	.5
58	MP2B	X	11.599	.5
59	MP2B	Z	6.697	.5
60	MP2B	Mx	0	.5
61	MP2C	X	8.919	.5
62	MP2C	Z	5.149	.5
63	MP2C	Mx	-.004	.5
64	MP3A	X	44.045	2.19
65	MP3A	Z	25.429	2.19
66	MP3A	Mx	.035	2.19
67	MP3B	X	44.045	2.19
68	MP3B	Z	25.429	2.19
69	MP3B	Mx	.035	2.19
70	MP3C	X	44.045	2.19
71	MP3C	Z	25.429	2.19
72	MP3C	Mx	.035	2.19
73	MP2A	X	38.461	2.19
74	MP2A	Z	22.205	2.19
75	MP2A	Mx	.03	2.19
76	MP2B	X	58.622	2.19
77	MP2B	Z	33.845	2.19
78	MP2B	Mx	0	2.19
79	MP2C	X	38.461	2.19
80	MP2C	Z	22.205	2.19
81	MP2C	Mx	-.03	2.19
82	M193	X	77.543	2.79
83	M193	Z	44.769	2.79
84	M193	Mx	0	2.79



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
85	M162	X	77.543	1
86	M162	Z	44.769	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	36.062	2.19
2	MP4A	Z	62.462	2.19
3	MP4A	Mx	-.018	2.19
4	MP4A	X	36.062	4.19
5	MP4A	Z	62.462	4.19
6	MP4A	Mx	-.018	4.19
7	MP4B	X	36.062	2.19
8	MP4B	Z	62.462	2.19
9	MP4B	Mx	-.018	2.19
10	MP4B	X	36.062	4.19
11	MP4B	Z	62.462	4.19
12	MP4B	Mx	-.018	4.19
13	MP4C	X	16.651	2.19
14	MP4C	Z	28.841	2.19
15	MP4C	Mx	.017	2.19
16	MP4C	X	16.651	4.19
17	MP4C	Z	28.841	4.19
18	MP4C	Mx	.017	4.19
19	MP2A	X	75.367	1.42
20	MP2A	Z	130.54	1.42
21	MP2A	Mx	.013	1.42
22	MP2A	X	75.367	4.94
23	MP2A	Z	130.54	4.94
24	MP2A	Mx	.013	4.94
25	MP2B	X	75.367	1.42
26	MP2B	Z	130.54	1.42
27	MP2B	Mx	-.183	1.42
28	MP2B	X	75.367	4.94
29	MP2B	Z	130.54	4.94
30	MP2B	Mx	-.183	4.94
31	MP2C	X	54.146	1.42
32	MP2C	Z	93.784	1.42
33	MP2C	Mx	.122	1.42
34	MP2C	X	54.146	4.94
35	MP2C	Z	93.784	4.94
36	MP2C	Mx	.122	4.94
37	MP2A	X	75.367	1.42
38	MP2A	Z	130.54	1.42
39	MP2A	Mx	-.183	1.42
40	MP2A	X	75.367	4.94
41	MP2A	Z	130.54	4.94
42	MP2A	Mx	-.183	4.94
43	MP2B	X	75.367	1.42
44	MP2B	Z	130.54	1.42
45	MP2B	Mx	.013	1.42
46	MP2B	X	75.367	4.94
47	MP2B	Z	130.54	4.94
48	MP2B	Mx	.013	4.94
49	MP2C	X	54.146	1.42
50	MP2C	Z	93.784	1.42



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
51	MP2C	Mx	.122	1.42
52	MP2C	X	54.146	4.94
53	MP2C	Z	93.784	4.94
54	MP2C	Mx	.122	4.94
55	MP2A	X	6.181	.5
56	MP2A	Z	10.705	.5
57	MP2A	Mx	.003	.5
58	MP2B	X	6.181	.5
59	MP2B	Z	10.705	.5
60	MP2B	Mx	.003	.5
61	MP2C	X	4.633	.5
62	MP2C	Z	8.025	.5
63	MP2C	Mx	-.004	.5
64	MP3A	X	31.04	2.19
65	MP3A	Z	53.763	2.19
66	MP3A	Mx	.025	2.19
67	MP3B	X	31.04	2.19
68	MP3B	Z	53.763	2.19
69	MP3B	Mx	.025	2.19
70	MP3C	X	31.04	2.19
71	MP3C	Z	53.763	2.19
72	MP3C	Mx	.025	2.19
73	MP2A	X	29.965	2.19
74	MP2A	Z	51.901	2.19
75	MP2A	Mx	.024	2.19
76	MP2B	X	29.965	2.19
77	MP2B	Z	51.901	2.19
78	MP2B	Mx	.024	2.19
79	MP2C	X	18.325	2.19
80	MP2C	Z	31.74	2.19
81	MP2C	Mx	-.029	2.19
82	M193	X	38.693	2.79
83	M193	Z	67.018	2.79
84	M193	Mx	0	2.79
85	M162	X	38.693	1
86	M162	Z	67.018	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	0	2.19
2	MP4A	Z	85.066	2.19
3	MP4A	Mx	0	2.19
4	MP4A	X	0	4.19
5	MP4A	Z	85.066	4.19
6	MP4A	Mx	0	4.19
7	MP4B	X	0	2.19
8	MP4B	Z	46.244	2.19
9	MP4B	Mx	-.02	2.19
10	MP4B	X	0	4.19
11	MP4B	Z	46.244	4.19
12	MP4B	Mx	-.02	4.19
13	MP4C	X	0	2.19
14	MP4C	Z	46.244	2.19
15	MP4C	Mx	.02	2.19
16	MP4C	X	0	4.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
74	MP2A	Z	67.69	2.19
75	MP2A	Mx	0	2.19
76	MP2B	X	0	2.19
77	MP2B	Z	44.411	2.19
78	MP2B	Mx	.03	2.19
79	MP2C	X	0	2.19
80	MP2C	Z	44.411	2.19
81	MP2C	Mx	-.03	2.19
82	M193	X	0	2.79
83	M193	Z	62.479	2.79
84	M193	Mx	0	2.79
85	M162	X	0	1
86	M162	Z	62.479	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-36.062	2.19
2	MP4A	Z	62.462	2.19
3	MP4A	Mx	.018	2.19
4	MP4A	X	-36.062	4.19
5	MP4A	Z	62.462	4.19
6	MP4A	Mx	.018	4.19
7	MP4B	X	-16.651	2.19
8	MP4B	Z	28.841	2.19
9	MP4B	Mx	-.017	2.19
10	MP4B	X	-16.651	4.19
11	MP4B	Z	28.841	4.19
12	MP4B	Mx	-.017	4.19
13	MP4C	X	-36.062	2.19
14	MP4C	Z	62.462	2.19
15	MP4C	Mx	.018	2.19
16	MP4C	X	-36.062	4.19
17	MP4C	Z	62.462	4.19
18	MP4C	Mx	.018	4.19
19	MP2A	X	-75.367	1.42
20	MP2A	Z	130.54	1.42
21	MP2A	Mx	.183	1.42
22	MP2A	X	-75.367	4.94
23	MP2A	Z	130.54	4.94
24	MP2A	Mx	.183	4.94
25	MP2B	X	-54.146	1.42
26	MP2B	Z	93.784	1.42
27	MP2B	Mx	-.122	1.42
28	MP2B	X	-54.146	4.94
29	MP2B	Z	93.784	4.94
30	MP2B	Mx	-.122	4.94
31	MP2C	X	-75.367	1.42
32	MP2C	Z	130.54	1.42
33	MP2C	Mx	-.013	1.42
34	MP2C	X	-75.367	4.94
35	MP2C	Z	130.54	4.94
36	MP2C	Mx	-.013	4.94
37	MP2A	X	-75.367	1.42
38	MP2A	Z	130.54	1.42
39	MP2A	Mx	-.013	1.42



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
40	MP2A	X	-75.367	4.94
41	MP2A	Z	130.54	4.94
42	MP2A	Mx	-.013	4.94
43	MP2B	X	-54.146	1.42
44	MP2B	Z	93.784	1.42
45	MP2B	Mx	-.122	1.42
46	MP2B	X	-54.146	4.94
47	MP2B	Z	93.784	4.94
48	MP2B	Mx	-.122	4.94
49	MP2C	X	-75.367	1.42
50	MP2C	Z	130.54	1.42
51	MP2C	Mx	.183	1.42
52	MP2C	X	-75.367	4.94
53	MP2C	Z	130.54	4.94
54	MP2C	Mx	.183	4.94
55	MP2A	X	-6.181	.5
56	MP2A	Z	10.705	.5
57	MP2A	Mx	-.003	.5
58	MP2B	X	-4.633	.5
59	MP2B	Z	8.025	.5
60	MP2B	Mx	.004	.5
61	MP2C	X	-6.181	.5
62	MP2C	Z	10.705	.5
63	MP2C	Mx	-.003	.5
64	MP3A	X	-31.04	2.19
65	MP3A	Z	53.763	2.19
66	MP3A	Mx	-.025	2.19
67	MP3B	X	-31.04	2.19
68	MP3B	Z	53.763	2.19
69	MP3B	Mx	-.025	2.19
70	MP3C	X	-31.04	2.19
71	MP3C	Z	53.763	2.19
72	MP3C	Mx	-.025	2.19
73	MP2A	X	-29.965	2.19
74	MP2A	Z	51.901	2.19
75	MP2A	Mx	-.024	2.19
76	MP2B	X	-18.325	2.19
77	MP2B	Z	31.74	2.19
78	MP2B	Mx	.029	2.19
79	MP2C	X	-29.965	2.19
80	MP2C	Z	51.901	2.19
81	MP2C	Mx	-.024	2.19
82	M193	X	-29.862	2.79
83	M193	Z	51.723	2.79
84	M193	Mx	0	2.79
85	M162	X	-29.862	1
86	M162	Z	51.723	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-40.048	2.19
2	MP4A	Z	23.122	2.19
3	MP4A	Mx	.02	2.19
4	MP4A	X	-40.048	4.19
5	MP4A	Z	23.122	4.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
6	MP4A	Mx	.02	4.19
7	MP4B	X	-40.048	2.19
8	MP4B	Z	23.122	2.19
9	MP4B	Mx	-.02	2.19
10	MP4B	X	-40.048	4.19
11	MP4B	Z	23.122	4.19
12	MP4B	Mx	-.02	4.19
13	MP4C	X	-73.669	2.19
14	MP4C	Z	42.533	2.19
15	MP4C	Mx	0	2.19
16	MP4C	X	-73.669	4.19
17	MP4C	Z	42.533	4.19
18	MP4C	Mx	0	4.19
19	MP2A	X	-106.036	1.42
20	MP2A	Z	61.22	1.42
21	MP2A	Mx	.165	1.42
22	MP2A	X	-106.036	4.94
23	MP2A	Z	61.22	4.94
24	MP2A	Mx	.165	4.94
25	MP2B	X	-106.036	1.42
26	MP2B	Z	61.22	1.42
27	MP2B	Mx	-.073	1.42
28	MP2B	X	-106.036	4.94
29	MP2B	Z	61.22	4.94
30	MP2B	Mx	-.073	4.94
31	MP2C	X	-142.792	1.42
32	MP2C	Z	82.441	1.42
33	MP2C	Mx	-.124	1.42
34	MP2C	X	-142.792	4.94
35	MP2C	Z	82.441	4.94
36	MP2C	Mx	-.124	4.94
37	MP2A	X	-106.036	1.42
38	MP2A	Z	61.22	1.42
39	MP2A	Mx	.073	1.42
40	MP2A	X	-106.036	4.94
41	MP2A	Z	61.22	4.94
42	MP2A	Mx	.073	4.94
43	MP2B	X	-106.036	1.42
44	MP2B	Z	61.22	1.42
45	MP2B	Mx	-.165	1.42
46	MP2B	X	-106.036	4.94
47	MP2B	Z	61.22	4.94
48	MP2B	Mx	-.165	4.94
49	MP2C	X	-142.792	1.42
50	MP2C	Z	82.441	1.42
51	MP2C	Mx	.124	1.42
52	MP2C	X	-142.792	4.94
53	MP2C	Z	82.441	4.94
54	MP2C	Mx	.124	4.94
55	MP2A	X	-8.919	.5
56	MP2A	Z	5.149	.5
57	MP2A	Mx	-.004	.5
58	MP2B	X	-8.919	.5
59	MP2B	Z	5.149	.5
60	MP2B	Mx	.004	.5
61	MP2C	X	-11.599	.5
62	MP2C	Z	6.697	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
63	MP2C	Mx	0	.5
64	MP3A	X	-44.045	2.19
65	MP3A	Z	25.429	2.19
66	MP3A	Mx	-.035	2.19
67	MP3B	X	-44.045	2.19
68	MP3B	Z	25.429	2.19
69	MP3B	Mx	-.035	2.19
70	MP3C	X	-44.045	2.19
71	MP3C	Z	25.429	2.19
72	MP3C	Mx	-.035	2.19
73	MP2A	X	-38.461	2.19
74	MP2A	Z	22.205	2.19
75	MP2A	Mx	-.03	2.19
76	MP2B	X	-38.461	2.19
77	MP2B	Z	22.205	2.19
78	MP2B	Mx	.03	2.19
79	MP2C	X	-58.622	2.19
80	MP2C	Z	33.845	2.19
81	MP2C	Mx	0	2.19
82	M193	X	-62.247	2.79
83	M193	Z	35.938	2.79
84	M193	Mx	0	2.79
85	M162	X	-62.247	1
86	M162	Z	35.938	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP4A	X	-33.303	2.19
2	MP4A	Z	0	2.19
3	MP4A	Mx	.017	2.19
4	MP4A	X	-33.303	4.19
5	MP4A	Z	0	4.19
6	MP4A	Mx	.017	4.19
7	MP4B	X	-72.125	2.19
8	MP4B	Z	0	2.19
9	MP4B	Mx	-.018	2.19
10	MP4B	X	-72.125	4.19
11	MP4B	Z	0	4.19
12	MP4B	Mx	-.018	4.19
13	MP4C	X	-72.125	2.19
14	MP4C	Z	0	2.19
15	MP4C	Mx	-.018	2.19
16	MP4C	X	-72.125	4.19
17	MP4C	Z	0	4.19
18	MP4C	Mx	-.018	4.19
19	MP2A	X	-108.293	1.42
20	MP2A	Z	0	1.42
21	MP2A	Mx	.122	1.42
22	MP2A	X	-108.293	4.94
23	MP2A	Z	0	4.94
24	MP2A	Mx	.122	4.94
25	MP2B	X	-150.735	1.42
26	MP2B	Z	0	1.42
27	MP2B	Mx	.013	1.42
28	MP2B	X	-150.735	4.94



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
86	M162	Z	0	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-40.048	2.19
2	MP4A	Z	-23.122	2.19
3	MP4A	Mx	.02	2.19
4	MP4A	X	-40.048	4.19
5	MP4A	Z	-23.122	4.19
6	MP4A	Mx	.02	4.19
7	MP4B	X	-73.669	2.19
8	MP4B	Z	-42.533	2.19
9	MP4B	Mx	0	2.19
10	MP4B	X	-73.669	4.19
11	MP4B	Z	-42.533	4.19
12	MP4B	Mx	0	4.19
13	MP4C	X	-40.048	2.19
14	MP4C	Z	-23.122	2.19
15	MP4C	Mx	-.02	2.19
16	MP4C	X	-40.048	4.19
17	MP4C	Z	-23.122	4.19
18	MP4C	Mx	-.02	4.19
19	MP2A	X	-106.036	1.42
20	MP2A	Z	-61.22	1.42
21	MP2A	Mx	.073	1.42
22	MP2A	X	-106.036	4.94
23	MP2A	Z	-61.22	4.94
24	MP2A	Mx	.073	4.94
25	MP2B	X	-142.792	1.42
26	MP2B	Z	-82.441	1.42
27	MP2B	Mx	.124	1.42
28	MP2B	X	-142.792	4.94
29	MP2B	Z	-82.441	4.94
30	MP2B	Mx	.124	4.94
31	MP2C	X	-106.036	1.42
32	MP2C	Z	-61.22	1.42
33	MP2C	Mx	-.165	1.42
34	MP2C	X	-106.036	4.94
35	MP2C	Z	-61.22	4.94
36	MP2C	Mx	-.165	4.94
37	MP2A	X	-106.036	1.42
38	MP2A	Z	-61.22	1.42
39	MP2A	Mx	.165	1.42
40	MP2A	X	-106.036	4.94
41	MP2A	Z	-61.22	4.94
42	MP2A	Mx	.165	4.94
43	MP2B	X	-142.792	1.42
44	MP2B	Z	-82.441	1.42
45	MP2B	Mx	-.124	1.42
46	MP2B	X	-142.792	4.94
47	MP2B	Z	-82.441	4.94
48	MP2B	Mx	-.124	4.94
49	MP2C	X	-106.036	1.42
50	MP2C	Z	-61.22	1.42
51	MP2C	Mx	-.073	1.42



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
18	MP4C	Mx	-.017	4.19
19	MP2A	X	-75.367	1.42
20	MP2A	Z	-130.54	1.42
21	MP2A	Mx	-.013	1.42
22	MP2A	X	-75.367	4.94
23	MP2A	Z	-130.54	4.94
24	MP2A	Mx	-.013	4.94
25	MP2B	X	-75.367	1.42
26	MP2B	Z	-130.54	1.42
27	MP2B	Mx	.183	1.42
28	MP2B	X	-75.367	4.94
29	MP2B	Z	-130.54	4.94
30	MP2B	Mx	.183	4.94
31	MP2C	X	-54.146	1.42
32	MP2C	Z	-93.784	1.42
33	MP2C	Mx	-.122	1.42
34	MP2C	X	-54.146	4.94
35	MP2C	Z	-93.784	4.94
36	MP2C	Mx	-.122	4.94
37	MP2A	X	-75.367	1.42
38	MP2A	Z	-130.54	1.42
39	MP2A	Mx	.183	1.42
40	MP2A	X	-75.367	4.94
41	MP2A	Z	-130.54	4.94
42	MP2A	Mx	.183	4.94
43	MP2B	X	-75.367	1.42
44	MP2B	Z	-130.54	1.42
45	MP2B	Mx	-.013	1.42
46	MP2B	X	-75.367	4.94
47	MP2B	Z	-130.54	4.94
48	MP2B	Mx	-.013	4.94
49	MP2C	X	-54.146	1.42
50	MP2C	Z	-93.784	1.42
51	MP2C	Mx	-.122	1.42
52	MP2C	X	-54.146	4.94
53	MP2C	Z	-93.784	4.94
54	MP2C	Mx	-.122	4.94
55	MP2A	X	-6.181	.5
56	MP2A	Z	-10.705	.5
57	MP2A	Mx	-.003	.5
58	MP2B	X	-6.181	.5
59	MP2B	Z	-10.705	.5
60	MP2B	Mx	-.003	.5
61	MP2C	X	-4.633	.5
62	MP2C	Z	-8.025	.5
63	MP2C	Mx	.004	.5
64	MP3A	X	-31.04	2.19
65	MP3A	Z	-53.763	2.19
66	MP3A	Mx	-.025	2.19
67	MP3B	X	-31.04	2.19
68	MP3B	Z	-53.763	2.19
69	MP3B	Mx	-.025	2.19
70	MP3C	X	-31.04	2.19
71	MP3C	Z	-53.763	2.19
72	MP3C	Mx	-.025	2.19
73	MP2A	X	-29.965	2.19
74	MP2A	Z	-51.901	2.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
41	MP2A	Z	-30.392	4.94
42	MP2A	Mx	.023	4.94
43	MP2B	X	0	1.42
44	MP2B	Z	-23.156	1.42
45	MP2B	Mx	.014	1.42
46	MP2B	X	0	4.94
47	MP2B	Z	-23.156	4.94
48	MP2B	Mx	.014	4.94
49	MP2C	X	0	1.42
50	MP2C	Z	-23.156	1.42
51	MP2C	Mx	-.031	1.42
52	MP2C	X	0	4.94
53	MP2C	Z	-23.156	4.94
54	MP2C	Mx	-.031	4.94
55	MP2A	X	0	.5
56	MP2A	Z	-3.322	.5
57	MP2A	Mx	0	.5
58	MP2B	X	0	.5
59	MP2B	Z	-2.702	.5
60	MP2B	Mx	-.000975	.5
61	MP2C	X	0	.5
62	MP2C	Z	-2.702	.5
63	MP2C	Mx	.000975	.5
64	MP3A	X	0	2.19
65	MP3A	Z	-13.641	2.19
66	MP3A	Mx	0	2.19
67	MP3B	X	0	2.19
68	MP3B	Z	-13.641	2.19
69	MP3B	Mx	0	2.19
70	MP3C	X	0	2.19
71	MP3C	Z	-13.641	2.19
72	MP3C	Mx	0	2.19
73	MP2A	X	0	2.19
74	MP2A	Z	-13.641	2.19
75	MP2A	Mx	0	2.19
76	MP2B	X	0	2.19
77	MP2B	Z	-9.35	2.19
78	MP2B	Mx	-.006	2.19
79	MP2C	X	0	2.19
80	MP2C	Z	-9.35	2.19
81	MP2C	Mx	.006	2.19
82	M193	X	0	2.79
83	M193	Z	-12.731	2.79
84	M193	Mx	0	2.79
85	M162	X	0	1
86	M162	Z	-12.731	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	6.926	2.19
2	MP4A	Z	-11.997	2.19
3	MP4A	Mx	-.003	2.19
4	MP4A	X	6.926	4.19
5	MP4A	Z	-11.997	4.19
6	MP4A	Mx	-.003	4.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
7	MP4B	X	3.449	2.19
8	MP4B	Z	-5.974	2.19
9	MP4B	Mx	.003	2.19
10	MP4B	X	3.449	4.19
11	MP4B	Z	-5.974	4.19
12	MP4B	Mx	.003	4.19
13	MP4C	X	6.926	2.19
14	MP4C	Z	-11.997	2.19
15	MP4C	Mx	-.003	2.19
16	MP4C	X	6.926	4.19
17	MP4C	Z	-11.997	4.19
18	MP4C	Mx	-.003	4.19
19	MP2A	X	13.99	1.42
20	MP2A	Z	-24.231	1.42
21	MP2A	Mx	-.034	1.42
22	MP2A	X	13.99	4.94
23	MP2A	Z	-24.231	4.94
24	MP2A	Mx	-.034	4.94
25	MP2B	X	10.372	1.42
26	MP2B	Z	-17.965	1.42
27	MP2B	Mx	.023	1.42
28	MP2B	X	10.372	4.94
29	MP2B	Z	-17.965	4.94
30	MP2B	Mx	.023	4.94
31	MP2C	X	13.99	1.42
32	MP2C	Z	-24.231	1.42
33	MP2C	Mx	.002	1.42
34	MP2C	X	13.99	4.94
35	MP2C	Z	-24.231	4.94
36	MP2C	Mx	.002	4.94
37	MP2A	X	13.99	1.42
38	MP2A	Z	-24.231	1.42
39	MP2A	Mx	.002	1.42
40	MP2A	X	13.99	4.94
41	MP2A	Z	-24.231	4.94
42	MP2A	Mx	.002	4.94
43	MP2B	X	10.372	1.42
44	MP2B	Z	-17.965	1.42
45	MP2B	Mx	.023	1.42
46	MP2B	X	10.372	4.94
47	MP2B	Z	-17.965	4.94
48	MP2B	Mx	.023	4.94
49	MP2C	X	13.99	1.42
50	MP2C	Z	-24.231	1.42
51	MP2C	Mx	-.034	1.42
52	MP2C	X	13.99	4.94
53	MP2C	Z	-24.231	4.94
54	MP2C	Mx	-.034	4.94
55	MP2A	X	1.557	.5
56	MP2A	Z	-2.698	.5
57	MP2A	Mx	.000649	.5
58	MP2B	X	1.248	.5
59	MP2B	Z	-2.161	.5
60	MP2B	Mx	-.001	.5
61	MP2C	X	1.557	.5
62	MP2C	Z	-2.698	.5
63	MP2C	Mx	.000649	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
64	MP3A	X	6.302	2.19
65	MP3A	Z	-10.916	2.19
66	MP3A	Mx	.005	2.19
67	MP3B	X	6.302	2.19
68	MP3B	Z	-10.916	2.19
69	MP3B	Mx	.005	2.19
70	MP3C	X	6.302	2.19
71	MP3C	Z	-10.916	2.19
72	MP3C	Mx	.005	2.19
73	MP2A	X	6.105	2.19
74	MP2A	Z	-10.575	2.19
75	MP2A	Mx	.005	2.19
76	MP2B	X	3.96	2.19
77	MP2B	Z	-6.858	2.19
78	MP2B	Mx	-.006	2.19
79	MP2C	X	6.105	2.19
80	MP2C	Z	-10.575	2.19
81	MP2C	Mx	.005	2.19
82	M193	X	6.118	2.79
83	M193	Z	-10.596	2.79
84	M193	Mx	0	2.79
85	M162	X	6.118	1
86	M162	Z	-10.596	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	7.981	2.19
2	MP4A	Z	-4.608	2.19
3	MP4A	Mx	-.004	2.19
4	MP4A	X	7.981	4.19
5	MP4A	Z	-4.608	4.19
6	MP4A	Mx	-.004	4.19
7	MP4B	X	7.981	2.19
8	MP4B	Z	-4.608	2.19
9	MP4B	Mx	.004	2.19
10	MP4B	X	7.981	4.19
11	MP4B	Z	-4.608	4.19
12	MP4B	Mx	.004	4.19
13	MP4C	X	14.005	2.19
14	MP4C	Z	-8.086	2.19
15	MP4C	Mx	0	2.19
16	MP4C	X	14.005	4.19
17	MP4C	Z	-8.086	4.19
18	MP4C	Mx	0	4.19
19	MP2A	X	20.054	1.42
20	MP2A	Z	-11.578	1.42
21	MP2A	Mx	-.031	1.42
22	MP2A	X	20.054	4.94
23	MP2A	Z	-11.578	4.94
24	MP2A	Mx	-.031	4.94
25	MP2B	X	20.054	1.42
26	MP2B	Z	-11.578	1.42
27	MP2B	Mx	.014	1.42
28	MP2B	X	20.054	4.94
29	MP2B	Z	-11.578	4.94



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP2B	Mx	.014	4.94
31	MP2C	X	26.32	1.42
32	MP2C	Z	-15.196	1.42
33	MP2C	Mx	.023	1.42
34	MP2C	X	26.32	4.94
35	MP2C	Z	-15.196	4.94
36	MP2C	Mx	.023	4.94
37	MP2A	X	20.054	1.42
38	MP2A	Z	-11.578	1.42
39	MP2A	Mx	-.014	1.42
40	MP2A	X	20.054	4.94
41	MP2A	Z	-11.578	4.94
42	MP2A	Mx	-.014	4.94
43	MP2B	X	20.054	1.42
44	MP2B	Z	-11.578	1.42
45	MP2B	Mx	.031	1.42
46	MP2B	X	20.054	4.94
47	MP2B	Z	-11.578	4.94
48	MP2B	Mx	.031	4.94
49	MP2C	X	26.32	1.42
50	MP2C	Z	-15.196	1.42
51	MP2C	Mx	-.023	1.42
52	MP2C	X	26.32	4.94
53	MP2C	Z	-15.196	4.94
54	MP2C	Mx	-.023	4.94
55	MP2A	X	2.34	.5
56	MP2A	Z	-1.351	.5
57	MP2A	Mx	.000975	.5
58	MP2B	X	2.34	.5
59	MP2B	Z	-1.351	.5
60	MP2B	Mx	-.000975	.5
61	MP2C	X	2.877	.5
62	MP2C	Z	-1.661	.5
63	MP2C	Mx	0	.5
64	MP3A	X	9.121	2.19
65	MP3A	Z	-5.266	2.19
66	MP3A	Mx	.007	2.19
67	MP3B	X	9.121	2.19
68	MP3B	Z	-5.266	2.19
69	MP3B	Mx	.007	2.19
70	MP3C	X	9.121	2.19
71	MP3C	Z	-5.266	2.19
72	MP3C	Mx	.007	2.19
73	MP2A	X	8.097	2.19
74	MP2A	Z	-4.675	2.19
75	MP2A	Mx	.006	2.19
76	MP2B	X	8.097	2.19
77	MP2B	Z	-4.675	2.19
78	MP2B	Mx	-.006	2.19
79	MP2C	X	11.814	2.19
80	MP2C	Z	-6.821	2.19
81	MP2C	Mx	0	2.19
82	M193	X	12.488	2.79
83	M193	Z	-7.21	2.79
84	M193	Mx	0	2.79
85	M162	X	12.488	1
86	M162	Z	-7.21	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	6.898	2.19
2	MP4A	Z	0	2.19
3	MP4A	Mx	-.003	2.19
4	MP4A	X	6.898	4.19
5	MP4A	Z	0	4.19
6	MP4A	Mx	-.003	4.19
7	MP4B	X	13.853	2.19
8	MP4B	Z	0	2.19
9	MP4B	Mx	.003	2.19
10	MP4B	X	13.853	4.19
11	MP4B	Z	0	4.19
12	MP4B	Mx	.003	4.19
13	MP4C	X	13.853	2.19
14	MP4C	Z	0	2.19
15	MP4C	Mx	.003	2.19
16	MP4C	X	13.853	4.19
17	MP4C	Z	0	4.19
18	MP4C	Mx	.003	4.19
19	MP2A	X	20.744	1.42
20	MP2A	Z	0	1.42
21	MP2A	Mx	-.023	1.42
22	MP2A	X	20.744	4.94
23	MP2A	Z	0	4.94
24	MP2A	Mx	-.023	4.94
25	MP2B	X	27.98	1.42
26	MP2B	Z	0	1.42
27	MP2B	Mx	-.002	1.42
28	MP2B	X	27.98	4.94
29	MP2B	Z	0	4.94
30	MP2B	Mx	-.002	4.94
31	MP2C	X	27.98	1.42
32	MP2C	Z	0	1.42
33	MP2C	Mx	.034	1.42
34	MP2C	X	27.98	4.94
35	MP2C	Z	0	4.94
36	MP2C	Mx	.034	4.94
37	MP2A	X	20.744	1.42
38	MP2A	Z	0	1.42
39	MP2A	Mx	-.023	1.42
40	MP2A	X	20.744	4.94
41	MP2A	Z	0	4.94
42	MP2A	Mx	-.023	4.94
43	MP2B	X	27.98	1.42
44	MP2B	Z	0	1.42
45	MP2B	Mx	.034	1.42
46	MP2B	X	27.98	4.94
47	MP2B	Z	0	4.94
48	MP2B	Mx	.034	4.94
49	MP2C	X	27.98	1.42
50	MP2C	Z	0	1.42
51	MP2C	Mx	-.002	1.42
52	MP2C	X	27.98	4.94



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
53	MP2C	Z	0	4.94
54	MP2C	Mx	-.002	4.94
55	MP2A	X	2.495	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	.001	.5
58	MP2B	X	3.115	.5
59	MP2B	Z	0	.5
60	MP2B	Mx	-.000649	.5
61	MP2C	X	3.115	.5
62	MP2C	Z	0	.5
63	MP2C	Mx	-.000649	.5
64	MP3A	X	9.495	2.19
65	MP3A	Z	0	2.19
66	MP3A	Mx	.008	2.19
67	MP3B	X	9.495	2.19
68	MP3B	Z	0	2.19
69	MP3B	Mx	.008	2.19
70	MP3C	X	9.495	2.19
71	MP3C	Z	0	2.19
72	MP3C	Mx	.008	2.19
73	MP2A	X	7.919	2.19
74	MP2A	Z	0	2.19
75	MP2A	Mx	.006	2.19
76	MP2B	X	12.211	2.19
77	MP2B	Z	0	2.19
78	MP2B	Mx	-.005	2.19
79	MP2C	X	12.211	2.19
80	MP2C	Z	0	2.19
81	MP2C	Mx	-.005	2.19
82	M193	X	17.1	2.79
83	M193	Z	0	2.79
84	M193	Mx	0	2.79
85	M162	X	17.1	1
86	M162	Z	0	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	7.981	2.19
2	MP4A	Z	4.608	2.19
3	MP4A	Mx	-.004	2.19
4	MP4A	X	7.981	4.19
5	MP4A	Z	4.608	4.19
6	MP4A	Mx	-.004	4.19
7	MP4B	X	14.005	2.19
8	MP4B	Z	8.086	2.19
9	MP4B	Mx	0	2.19
10	MP4B	X	14.005	4.19
11	MP4B	Z	8.086	4.19
12	MP4B	Mx	0	4.19
13	MP4C	X	7.981	2.19
14	MP4C	Z	4.608	2.19
15	MP4C	Mx	.004	2.19
16	MP4C	X	7.981	4.19
17	MP4C	Z	4.608	4.19
18	MP4C	Mx	.004	4.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
19	MP2A	X	20.054	1.42
20	MP2A	Z	11.578	1.42
21	MP2A	Mx	-.014	1.42
22	MP2A	X	20.054	4.94
23	MP2A	Z	11.578	4.94
24	MP2A	Mx	-.014	4.94
25	MP2B	X	26.32	1.42
26	MP2B	Z	15.196	1.42
27	MP2B	Mx	-.023	1.42
28	MP2B	X	26.32	4.94
29	MP2B	Z	15.196	4.94
30	MP2B	Mx	-.023	4.94
31	MP2C	X	20.054	1.42
32	MP2C	Z	11.578	1.42
33	MP2C	Mx	.031	1.42
34	MP2C	X	20.054	4.94
35	MP2C	Z	11.578	4.94
36	MP2C	Mx	.031	4.94
37	MP2A	X	20.054	1.42
38	MP2A	Z	11.578	1.42
39	MP2A	Mx	-.031	1.42
40	MP2A	X	20.054	4.94
41	MP2A	Z	11.578	4.94
42	MP2A	Mx	-.031	4.94
43	MP2B	X	26.32	1.42
44	MP2B	Z	15.196	1.42
45	MP2B	Mx	.023	1.42
46	MP2B	X	26.32	4.94
47	MP2B	Z	15.196	4.94
48	MP2B	Mx	.023	4.94
49	MP2C	X	20.054	1.42
50	MP2C	Z	11.578	1.42
51	MP2C	Mx	.014	1.42
52	MP2C	X	20.054	4.94
53	MP2C	Z	11.578	4.94
54	MP2C	Mx	.014	4.94
55	MP2A	X	2.34	.5
56	MP2A	Z	1.351	.5
57	MP2A	Mx	.000975	.5
58	MP2B	X	2.877	.5
59	MP2B	Z	1.661	.5
60	MP2B	Mx	0	.5
61	MP2C	X	2.34	.5
62	MP2C	Z	1.351	.5
63	MP2C	Mx	-.000975	.5
64	MP3A	X	9.121	2.19
65	MP3A	Z	5.266	2.19
66	MP3A	Mx	.007	2.19
67	MP3B	X	9.121	2.19
68	MP3B	Z	5.266	2.19
69	MP3B	Mx	.007	2.19
70	MP3C	X	9.121	2.19
71	MP3C	Z	5.266	2.19
72	MP3C	Mx	.007	2.19
73	MP2A	X	8.097	2.19
74	MP2A	Z	4.675	2.19
75	MP2A	Mx	.006	2.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
76	MP2B	X	11.814	2.19
77	MP2B	Z	6.821	2.19
78	MP2B	Mx	0	2.19
79	MP2C	X	8.097	2.19
80	MP2C	Z	4.675	2.19
81	MP2C	Mx	-.006	2.19
82	M193	X	15.238	2.79
83	M193	Z	8.798	2.79
84	M193	Mx	0	2.79
85	M162	X	15.238	1
86	M162	Z	8.798	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	6.926	2.19
2	MP4A	Z	11.997	2.19
3	MP4A	Mx	-.003	2.19
4	MP4A	X	6.926	4.19
5	MP4A	Z	11.997	4.19
6	MP4A	Mx	-.003	4.19
7	MP4B	X	6.926	2.19
8	MP4B	Z	11.997	2.19
9	MP4B	Mx	-.003	2.19
10	MP4B	X	6.926	4.19
11	MP4B	Z	11.997	4.19
12	MP4B	Mx	-.003	4.19
13	MP4C	X	3.449	2.19
14	MP4C	Z	5.974	2.19
15	MP4C	Mx	.003	2.19
16	MP4C	X	3.449	4.19
17	MP4C	Z	5.974	4.19
18	MP4C	Mx	.003	4.19
19	MP2A	X	13.99	1.42
20	MP2A	Z	24.231	1.42
21	MP2A	Mx	.002	1.42
22	MP2A	X	13.99	4.94
23	MP2A	Z	24.231	4.94
24	MP2A	Mx	.002	4.94
25	MP2B	X	13.99	1.42
26	MP2B	Z	24.231	1.42
27	MP2B	Mx	-.034	1.42
28	MP2B	X	13.99	4.94
29	MP2B	Z	24.231	4.94
30	MP2B	Mx	-.034	4.94
31	MP2C	X	10.372	1.42
32	MP2C	Z	17.965	1.42
33	MP2C	Mx	.023	1.42
34	MP2C	X	10.372	4.94
35	MP2C	Z	17.965	4.94
36	MP2C	Mx	.023	4.94
37	MP2A	X	13.99	1.42
38	MP2A	Z	24.231	1.42
39	MP2A	Mx	-.034	1.42
40	MP2A	X	13.99	4.94
41	MP2A	Z	24.231	4.94



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
42	MP2A	Mx	-.034	4.94
43	MP2B	X	13.99	1.42
44	MP2B	Z	24.231	1.42
45	MP2B	Mx	.002	1.42
46	MP2B	X	13.99	4.94
47	MP2B	Z	24.231	4.94
48	MP2B	Mx	.002	4.94
49	MP2C	X	10.372	1.42
50	MP2C	Z	17.965	1.42
51	MP2C	Mx	.023	1.42
52	MP2C	X	10.372	4.94
53	MP2C	Z	17.965	4.94
54	MP2C	Mx	.023	4.94
55	MP2A	X	1.557	.5
56	MP2A	Z	2.698	.5
57	MP2A	Mx	.000649	.5
58	MP2B	X	1.557	.5
59	MP2B	Z	2.698	.5
60	MP2B	Mx	.000649	.5
61	MP2C	X	1.248	.5
62	MP2C	Z	2.161	.5
63	MP2C	Mx	-.001	.5
64	MP3A	X	6.302	2.19
65	MP3A	Z	10.916	2.19
66	MP3A	Mx	.005	2.19
67	MP3B	X	6.302	2.19
68	MP3B	Z	10.916	2.19
69	MP3B	Mx	.005	2.19
70	MP3C	X	6.302	2.19
71	MP3C	Z	10.916	2.19
72	MP3C	Mx	.005	2.19
73	MP2A	X	6.105	2.19
74	MP2A	Z	10.575	2.19
75	MP2A	Mx	.005	2.19
76	MP2B	X	6.105	2.19
77	MP2B	Z	10.575	2.19
78	MP2B	Mx	.005	2.19
79	MP2C	X	3.96	2.19
80	MP2C	Z	6.858	2.19
81	MP2C	Mx	-.006	2.19
82	M193	X	7.705	2.79
83	M193	Z	13.346	2.79
84	M193	Mx	0	2.79
85	M162	X	7.705	1
86	M162	Z	13.346	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	0	2.19
2	MP4A	Z	16.171	2.19
3	MP4A	Mx	0	2.19
4	MP4A	X	0	4.19
5	MP4A	Z	16.171	4.19
6	MP4A	Mx	0	4.19
7	MP4B	X	0	2.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
8	MP4B	Z	9.216	2.19
9	MP4B	Mx	-.004	2.19
10	MP4B	X	0	4.19
11	MP4B	Z	9.216	4.19
12	MP4B	Mx	-.004	4.19
13	MP4C	X	0	2.19
14	MP4C	Z	9.216	2.19
15	MP4C	Mx	.004	2.19
16	MP4C	X	0	4.19
17	MP4C	Z	9.216	4.19
18	MP4C	Mx	.004	4.19
19	MP2A	X	0	1.42
20	MP2A	Z	30.392	1.42
21	MP2A	Mx	.023	1.42
22	MP2A	X	0	4.94
23	MP2A	Z	30.392	4.94
24	MP2A	Mx	.023	4.94
25	MP2B	X	0	1.42
26	MP2B	Z	23.156	1.42
27	MP2B	Mx	-.031	1.42
28	MP2B	X	0	4.94
29	MP2B	Z	23.156	4.94
30	MP2B	Mx	-.031	4.94
31	MP2C	X	0	1.42
32	MP2C	Z	23.156	1.42
33	MP2C	Mx	.014	1.42
34	MP2C	X	0	4.94
35	MP2C	Z	23.156	4.94
36	MP2C	Mx	.014	4.94
37	MP2A	X	0	1.42
38	MP2A	Z	30.392	1.42
39	MP2A	Mx	-.023	1.42
40	MP2A	X	0	4.94
41	MP2A	Z	30.392	4.94
42	MP2A	Mx	-.023	4.94
43	MP2B	X	0	1.42
44	MP2B	Z	23.156	1.42
45	MP2B	Mx	-.014	1.42
46	MP2B	X	0	4.94
47	MP2B	Z	23.156	4.94
48	MP2B	Mx	-.014	4.94
49	MP2C	X	0	1.42
50	MP2C	Z	23.156	1.42
51	MP2C	Mx	.031	1.42
52	MP2C	X	0	4.94
53	MP2C	Z	23.156	4.94
54	MP2C	Mx	.031	4.94
55	MP2A	X	0	.5
56	MP2A	Z	3.322	.5
57	MP2A	Mx	0	.5
58	MP2B	X	0	.5
59	MP2B	Z	2.702	.5
60	MP2B	Mx	.000975	.5
61	MP2C	X	0	.5
62	MP2C	Z	2.702	.5
63	MP2C	Mx	-.000975	.5
64	MP3A	X	0	2.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
65	MP3A	Z	13.641	2.19
66	MP3A	Mx	0	2.19
67	MP3B	X	0	2.19
68	MP3B	Z	13.641	2.19
69	MP3B	Mx	0	2.19
70	MP3C	X	0	2.19
71	MP3C	Z	13.641	2.19
72	MP3C	Mx	0	2.19
73	MP2A	X	0	2.19
74	MP2A	Z	13.641	2.19
75	MP2A	Mx	0	2.19
76	MP2B	X	0	2.19
77	MP2B	Z	9.35	2.19
78	MP2B	Mx	.006	2.19
79	MP2C	X	0	2.19
80	MP2C	Z	9.35	2.19
81	MP2C	Mx	-.006	2.19
82	M193	X	0	2.79
83	M193	Z	12.731	2.79
84	M193	Mx	0	2.79
85	M162	X	0	1
86	M162	Z	12.731	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-6.926	2.19
2	MP4A	Z	11.997	2.19
3	MP4A	Mx	.003	2.19
4	MP4A	X	-6.926	4.19
5	MP4A	Z	11.997	4.19
6	MP4A	Mx	.003	4.19
7	MP4B	X	-3.449	2.19
8	MP4B	Z	5.974	2.19
9	MP4B	Mx	-.003	2.19
10	MP4B	X	-3.449	4.19
11	MP4B	Z	5.974	4.19
12	MP4B	Mx	-.003	4.19
13	MP4C	X	-6.926	2.19
14	MP4C	Z	11.997	2.19
15	MP4C	Mx	.003	2.19
16	MP4C	X	-6.926	4.19
17	MP4C	Z	11.997	4.19
18	MP4C	Mx	.003	4.19
19	MP2A	X	-13.99	1.42
20	MP2A	Z	24.231	1.42
21	MP2A	Mx	.034	1.42
22	MP2A	X	-13.99	4.94
23	MP2A	Z	24.231	4.94
24	MP2A	Mx	.034	4.94
25	MP2B	X	-10.372	1.42
26	MP2B	Z	17.965	1.42
27	MP2B	Mx	-.023	1.42
28	MP2B	X	-10.372	4.94
29	MP2B	Z	17.965	4.94
30	MP2B	Mx	-.023	4.94



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP2B	X	-2.34	.5
59	MP2B	Z	1.351	.5
60	MP2B	Mx	.000975	.5
61	MP2C	X	-2.877	.5
62	MP2C	Z	1.661	.5
63	MP2C	Mx	0	.5
64	MP3A	X	-9.121	2.19
65	MP3A	Z	5.266	2.19
66	MP3A	Mx	-.007	2.19
67	MP3B	X	-9.121	2.19
68	MP3B	Z	5.266	2.19
69	MP3B	Mx	-.007	2.19
70	MP3C	X	-9.121	2.19
71	MP3C	Z	5.266	2.19
72	MP3C	Mx	-.007	2.19
73	MP2A	X	-8.097	2.19
74	MP2A	Z	4.675	2.19
75	MP2A	Mx	-.006	2.19
76	MP2B	X	-8.097	2.19
77	MP2B	Z	4.675	2.19
78	MP2B	Mx	.006	2.19
79	MP2C	X	-11.814	2.19
80	MP2C	Z	6.821	2.19
81	MP2C	Mx	0	2.19
82	M193	X	-12.488	2.79
83	M193	Z	7.21	2.79
84	M193	Mx	0	2.79
85	M162	X	-12.488	1
86	M162	Z	7.21	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-6.898	2.19
2	MP4A	Z	0	2.19
3	MP4A	Mx	.003	2.19
4	MP4A	X	-6.898	4.19
5	MP4A	Z	0	4.19
6	MP4A	Mx	.003	4.19
7	MP4B	X	-13.853	2.19
8	MP4B	Z	0	2.19
9	MP4B	Mx	-.003	2.19
10	MP4B	X	-13.853	4.19
11	MP4B	Z	0	4.19
12	MP4B	Mx	-.003	4.19
13	MP4C	X	-13.853	2.19
14	MP4C	Z	0	2.19
15	MP4C	Mx	-.003	2.19
16	MP4C	X	-13.853	4.19
17	MP4C	Z	0	4.19
18	MP4C	Mx	-.003	4.19
19	MP2A	X	-20.744	1.42
20	MP2A	Z	0	1.42
21	MP2A	Mx	.023	1.42
22	MP2A	X	-20.744	4.94
23	MP2A	Z	0	4.94



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
24	MP2A	Mx	.023	4.94
25	MP2B	X	-27.98	1.42
26	MP2B	Z	0	1.42
27	MP2B	Mx	.002	1.42
28	MP2B	X	-27.98	4.94
29	MP2B	Z	0	4.94
30	MP2B	Mx	.002	4.94
31	MP2C	X	-27.98	1.42
32	MP2C	Z	0	1.42
33	MP2C	Mx	-.034	1.42
34	MP2C	X	-27.98	4.94
35	MP2C	Z	0	4.94
36	MP2C	Mx	-.034	4.94
37	MP2A	X	-20.744	1.42
38	MP2A	Z	0	1.42
39	MP2A	Mx	.023	1.42
40	MP2A	X	-20.744	4.94
41	MP2A	Z	0	4.94
42	MP2A	Mx	.023	4.94
43	MP2B	X	-27.98	1.42
44	MP2B	Z	0	1.42
45	MP2B	Mx	-.034	1.42
46	MP2B	X	-27.98	4.94
47	MP2B	Z	0	4.94
48	MP2B	Mx	-.034	4.94
49	MP2C	X	-27.98	1.42
50	MP2C	Z	0	1.42
51	MP2C	Mx	.002	1.42
52	MP2C	X	-27.98	4.94
53	MP2C	Z	0	4.94
54	MP2C	Mx	.002	4.94
55	MP2A	X	-2.495	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	-.001	.5
58	MP2B	X	-3.115	.5
59	MP2B	Z	0	.5
60	MP2B	Mx	.000649	.5
61	MP2C	X	-3.115	.5
62	MP2C	Z	0	.5
63	MP2C	Mx	.000649	.5
64	MP3A	X	-9.495	2.19
65	MP3A	Z	0	2.19
66	MP3A	Mx	-.008	2.19
67	MP3B	X	-9.495	2.19
68	MP3B	Z	0	2.19
69	MP3B	Mx	-.008	2.19
70	MP3C	X	-9.495	2.19
71	MP3C	Z	0	2.19
72	MP3C	Mx	-.008	2.19
73	MP2A	X	-7.919	2.19
74	MP2A	Z	0	2.19
75	MP2A	Mx	-.006	2.19
76	MP2B	X	-12.211	2.19
77	MP2B	Z	0	2.19
78	MP2B	Mx	.005	2.19
79	MP2C	X	-12.211	2.19
80	MP2C	Z	0	2.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
81	MP2C	Mx	.005	2.19
82	M193	X	-17.1	2.79
83	M193	Z	0	2.79
84	M193	Mx	0	2.79
85	M162	X	-17.1	1
86	M162	Z	0	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-7.981	2.19
2	MP4A	Z	-4.608	2.19
3	MP4A	Mx	.004	2.19
4	MP4A	X	-7.981	4.19
5	MP4A	Z	-4.608	4.19
6	MP4A	Mx	.004	4.19
7	MP4B	X	-14.005	2.19
8	MP4B	Z	-8.086	2.19
9	MP4B	Mx	0	2.19
10	MP4B	X	-14.005	4.19
11	MP4B	Z	-8.086	4.19
12	MP4B	Mx	0	4.19
13	MP4C	X	-7.981	2.19
14	MP4C	Z	-4.608	2.19
15	MP4C	Mx	-.004	2.19
16	MP4C	X	-7.981	4.19
17	MP4C	Z	-4.608	4.19
18	MP4C	Mx	-.004	4.19
19	MP2A	X	-20.054	1.42
20	MP2A	Z	-11.578	1.42
21	MP2A	Mx	.014	1.42
22	MP2A	X	-20.054	4.94
23	MP2A	Z	-11.578	4.94
24	MP2A	Mx	.014	4.94
25	MP2B	X	-26.32	1.42
26	MP2B	Z	-15.196	1.42
27	MP2B	Mx	.023	1.42
28	MP2B	X	-26.32	4.94
29	MP2B	Z	-15.196	4.94
30	MP2B	Mx	.023	4.94
31	MP2C	X	-20.054	1.42
32	MP2C	Z	-11.578	1.42
33	MP2C	Mx	-.031	1.42
34	MP2C	X	-20.054	4.94
35	MP2C	Z	-11.578	4.94
36	MP2C	Mx	-.031	4.94
37	MP2A	X	-20.054	1.42
38	MP2A	Z	-11.578	1.42
39	MP2A	Mx	.031	1.42
40	MP2A	X	-20.054	4.94
41	MP2A	Z	-11.578	4.94
42	MP2A	Mx	.031	4.94
43	MP2B	X	-26.32	1.42
44	MP2B	Z	-15.196	1.42
45	MP2B	Mx	-.023	1.42
46	MP2B	X	-26.32	4.94



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
47	MP2B	Z	-15.196	4.94
48	MP2B	Mx	-.023	4.94
49	MP2C	X	-20.054	1.42
50	MP2C	Z	-11.578	1.42
51	MP2C	Mx	-.014	1.42
52	MP2C	X	-20.054	4.94
53	MP2C	Z	-11.578	4.94
54	MP2C	Mx	-.014	4.94
55	MP2A	X	-2.34	.5
56	MP2A	Z	-1.351	.5
57	MP2A	Mx	-.000975	.5
58	MP2B	X	-2.877	.5
59	MP2B	Z	-1.661	.5
60	MP2B	Mx	0	.5
61	MP2C	X	-2.34	.5
62	MP2C	Z	-1.351	.5
63	MP2C	Mx	.000975	.5
64	MP3A	X	-9.121	2.19
65	MP3A	Z	-5.266	2.19
66	MP3A	Mx	-.007	2.19
67	MP3B	X	-9.121	2.19
68	MP3B	Z	-5.266	2.19
69	MP3B	Mx	-.007	2.19
70	MP3C	X	-9.121	2.19
71	MP3C	Z	-5.266	2.19
72	MP3C	Mx	-.007	2.19
73	MP2A	X	-8.097	2.19
74	MP2A	Z	-4.675	2.19
75	MP2A	Mx	-.006	2.19
76	MP2B	X	-11.814	2.19
77	MP2B	Z	-6.821	2.19
78	MP2B	Mx	0	2.19
79	MP2C	X	-8.097	2.19
80	MP2C	Z	-4.675	2.19
81	MP2C	Mx	.006	2.19
82	M193	X	-15.238	2.79
83	M193	Z	-8.798	2.79
84	M193	Mx	0	2.79
85	M162	X	-15.238	1
86	M162	Z	-8.798	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-6.926	2.19
2	MP4A	Z	-11.997	2.19
3	MP4A	Mx	.003	2.19
4	MP4A	X	-6.926	4.19
5	MP4A	Z	-11.997	4.19
6	MP4A	Mx	.003	4.19
7	MP4B	X	-6.926	2.19
8	MP4B	Z	-11.997	2.19
9	MP4B	Mx	.003	2.19
10	MP4B	X	-6.926	4.19
11	MP4B	Z	-11.997	4.19
12	MP4B	Mx	.003	4.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
13	MP4C	X	-3.449	2.19
14	MP4C	Z	-5.974	2.19
15	MP4C	Mx	-.003	2.19
16	MP4C	X	-3.449	4.19
17	MP4C	Z	-5.974	4.19
18	MP4C	Mx	-.003	4.19
19	MP2A	X	-13.99	1.42
20	MP2A	Z	-24.231	1.42
21	MP2A	Mx	-.002	1.42
22	MP2A	X	-13.99	4.94
23	MP2A	Z	-24.231	4.94
24	MP2A	Mx	-.002	4.94
25	MP2B	X	-13.99	1.42
26	MP2B	Z	-24.231	1.42
27	MP2B	Mx	.034	1.42
28	MP2B	X	-13.99	4.94
29	MP2B	Z	-24.231	4.94
30	MP2B	Mx	.034	4.94
31	MP2C	X	-10.372	1.42
32	MP2C	Z	-17.965	1.42
33	MP2C	Mx	-.023	1.42
34	MP2C	X	-10.372	4.94
35	MP2C	Z	-17.965	4.94
36	MP2C	Mx	-.023	4.94
37	MP2A	X	-13.99	1.42
38	MP2A	Z	-24.231	1.42
39	MP2A	Mx	.034	1.42
40	MP2A	X	-13.99	4.94
41	MP2A	Z	-24.231	4.94
42	MP2A	Mx	.034	4.94
43	MP2B	X	-13.99	1.42
44	MP2B	Z	-24.231	1.42
45	MP2B	Mx	-.002	1.42
46	MP2B	X	-13.99	4.94
47	MP2B	Z	-24.231	4.94
48	MP2B	Mx	-.002	4.94
49	MP2C	X	-10.372	1.42
50	MP2C	Z	-17.965	1.42
51	MP2C	Mx	-.023	1.42
52	MP2C	X	-10.372	4.94
53	MP2C	Z	-17.965	4.94
54	MP2C	Mx	-.023	4.94
55	MP2A	X	-1.557	.5
56	MP2A	Z	-2.698	.5
57	MP2A	Mx	-.000649	.5
58	MP2B	X	-1.557	.5
59	MP2B	Z	-2.698	.5
60	MP2B	Mx	-.000649	.5
61	MP2C	X	-1.248	.5
62	MP2C	Z	-2.161	.5
63	MP2C	Mx	.001	.5
64	MP3A	X	-6.302	2.19
65	MP3A	Z	-10.916	2.19
66	MP3A	Mx	-.005	2.19
67	MP3B	X	-6.302	2.19
68	MP3B	Z	-10.916	2.19
69	MP3B	Mx	-.005	2.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
70	MP3C	X	-6.302	2.19
71	MP3C	Z	-10.916	2.19
72	MP3C	Mx	-.005	2.19
73	MP2A	X	-6.105	2.19
74	MP2A	Z	-10.575	2.19
75	MP2A	Mx	-.005	2.19
76	MP2B	X	-6.105	2.19
77	MP2B	Z	-10.575	2.19
78	MP2B	Mx	-.005	2.19
79	MP2C	X	-3.96	2.19
80	MP2C	Z	-6.858	2.19
81	MP2C	Mx	.006	2.19
82	M193	X	-7.705	2.79
83	M193	Z	-13.346	2.79
84	M193	Mx	0	2.79
85	M162	X	-7.705	1
86	M162	Z	-13.346	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	0	2.19
2	MP4A	Z	-5.144	2.19
3	MP4A	Mx	0	2.19
4	MP4A	X	0	4.19
5	MP4A	Z	-5.144	4.19
6	MP4A	Mx	0	4.19
7	MP4B	X	0	2.19
8	MP4B	Z	-2.796	2.19
9	MP4B	Mx	.001	2.19
10	MP4B	X	0	4.19
11	MP4B	Z	-2.796	4.19
12	MP4B	Mx	.001	4.19
13	MP4C	X	0	2.19
14	MP4C	Z	-2.796	2.19
15	MP4C	Mx	-.001	2.19
16	MP4C	X	0	4.19
17	MP4C	Z	-2.796	4.19
18	MP4C	Mx	-.001	4.19
19	MP2A	X	0	1.42
20	MP2A	Z	-9.97	1.42
21	MP2A	Mx	-.007	1.42
22	MP2A	X	0	4.94
23	MP2A	Z	-9.97	4.94
24	MP2A	Mx	-.007	4.94
25	MP2B	X	0	1.42
26	MP2B	Z	-7.404	1.42
27	MP2B	Mx	.01	1.42
28	MP2B	X	0	4.94
29	MP2B	Z	-7.404	4.94
30	MP2B	Mx	.01	4.94
31	MP2C	X	0	1.42
32	MP2C	Z	-7.404	1.42
33	MP2C	Mx	-.004	1.42
34	MP2C	X	0	4.94
35	MP2C	Z	-7.404	4.94



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
36	MP2C	Mx	-.004	4.94
37	MP2A	X	0	1.42
38	MP2A	Z	-9.97	1.42
39	MP2A	Mx	.007	1.42
40	MP2A	X	0	4.94
41	MP2A	Z	-9.97	4.94
42	MP2A	Mx	.007	4.94
43	MP2B	X	0	1.42
44	MP2B	Z	-7.404	1.42
45	MP2B	Mx	.004	1.42
46	MP2B	X	0	4.94
47	MP2B	Z	-7.404	4.94
48	MP2B	Mx	.004	4.94
49	MP2C	X	0	1.42
50	MP2C	Z	-7.404	1.42
51	MP2C	Mx	-.01	1.42
52	MP2C	X	0	4.94
53	MP2C	Z	-7.404	4.94
54	MP2C	Mx	-.01	4.94
55	MP2A	X	0	.5
56	MP2A	Z	-.81	.5
57	MP2A	Mx	0	.5
58	MP2B	X	0	.5
59	MP2B	Z	-.623	.5
60	MP2B	Mx	-.000225	.5
61	MP2C	X	0	.5
62	MP2C	Z	-.623	.5
63	MP2C	Mx	.000225	.5
64	MP3A	X	0	2.19
65	MP3A	Z	-4.093	2.19
66	MP3A	Mx	0	2.19
67	MP3B	X	0	2.19
68	MP3B	Z	-4.093	2.19
69	MP3B	Mx	0	2.19
70	MP3C	X	0	2.19
71	MP3C	Z	-4.093	2.19
72	MP3C	Mx	0	2.19
73	MP2A	X	0	2.19
74	MP2A	Z	-4.093	2.19
75	MP2A	Mx	0	2.19
76	MP2B	X	0	2.19
77	MP2B	Z	-2.685	2.19
78	MP2B	Mx	-.002	2.19
79	MP2C	X	0	2.19
80	MP2C	Z	-2.685	2.19
81	MP2C	Mx	.002	2.19
82	M193	X	0	2.79
83	M193	Z	-3.778	2.79
84	M193	Mx	0	2.79
85	M162	X	0	1
86	M162	Z	-3.778	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	2.181	2.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
2	MP4A	Z	-3.777	2.19
3	MP4A	Mx	-.001	2.19
4	MP4A	X	2.181	4.19
5	MP4A	Z	-3.777	4.19
6	MP4A	Mx	-.001	4.19
7	MP4B	X	1.007	2.19
8	MP4B	Z	-1.744	2.19
9	MP4B	Mx	.001	2.19
10	MP4B	X	1.007	4.19
11	MP4B	Z	-1.744	4.19
12	MP4B	Mx	.001	4.19
13	MP4C	X	2.181	2.19
14	MP4C	Z	-3.777	2.19
15	MP4C	Mx	-.001	2.19
16	MP4C	X	2.181	4.19
17	MP4C	Z	-3.777	4.19
18	MP4C	Mx	-.001	4.19
19	MP2A	X	4.557	1.42
20	MP2A	Z	-7.893	1.42
21	MP2A	Mx	-.011	1.42
22	MP2A	X	4.557	4.94
23	MP2A	Z	-7.893	4.94
24	MP2A	Mx	-.011	4.94
25	MP2B	X	3.274	1.42
26	MP2B	Z	-5.671	1.42
27	MP2B	Mx	.007	1.42
28	MP2B	X	3.274	4.94
29	MP2B	Z	-5.671	4.94
30	MP2B	Mx	.007	4.94
31	MP2C	X	4.557	1.42
32	MP2C	Z	-7.893	1.42
33	MP2C	Mx	.000793	1.42
34	MP2C	X	4.557	4.94
35	MP2C	Z	-7.893	4.94
36	MP2C	Mx	.000793	4.94
37	MP2A	X	4.557	1.42
38	MP2A	Z	-7.893	1.42
39	MP2A	Mx	.000793	1.42
40	MP2A	X	4.557	4.94
41	MP2A	Z	-7.893	4.94
42	MP2A	Mx	.000793	4.94
43	MP2B	X	3.274	1.42
44	MP2B	Z	-5.671	1.42
45	MP2B	Mx	.007	1.42
46	MP2B	X	3.274	4.94
47	MP2B	Z	-5.671	4.94
48	MP2B	Mx	.007	4.94
49	MP2C	X	4.557	1.42
50	MP2C	Z	-7.893	1.42
51	MP2C	Mx	-.011	1.42
52	MP2C	X	4.557	4.94
53	MP2C	Z	-7.893	4.94
54	MP2C	Mx	-.011	4.94
55	MP2A	X	.374	.5
56	MP2A	Z	-.647	.5
57	MP2A	Mx	.000156	.5
58	MP2B	X	.28	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
59	MP2B	Z	-485	.5
60	MP2B	Mx	-.000233	.5
61	MP2C	X	.374	.5
62	MP2C	Z	-.647	.5
63	MP2C	Mx	.000156	.5
64	MP3A	X	1.877	2.19
65	MP3A	Z	-3.251	2.19
66	MP3A	Mx	.001	2.19
67	MP3B	X	1.877	2.19
68	MP3B	Z	-3.251	2.19
69	MP3B	Mx	.001	2.19
70	MP3C	X	1.877	2.19
71	MP3C	Z	-3.251	2.19
72	MP3C	Mx	.001	2.19
73	MP2A	X	1.812	2.19
74	MP2A	Z	-3.138	2.19
75	MP2A	Mx	.001	2.19
76	MP2B	X	1.108	2.19
77	MP2B	Z	-1.919	2.19
78	MP2B	Mx	-.002	2.19
79	MP2C	X	1.812	2.19
80	MP2C	Z	-3.138	2.19
81	MP2C	Mx	.001	2.19
82	M193	X	1.806	2.79
83	M193	Z	-3.128	2.79
84	M193	Mx	0	2.79
85	M162	X	1.806	1
86	M162	Z	-3.128	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	2.422	2.19
2	MP4A	Z	-1.398	2.19
3	MP4A	Mx	-.001	2.19
4	MP4A	X	2.422	4.19
5	MP4A	Z	-1.398	4.19
6	MP4A	Mx	-.001	4.19
7	MP4B	X	2.422	2.19
8	MP4B	Z	-1.398	2.19
9	MP4B	Mx	.001	2.19
10	MP4B	X	2.422	4.19
11	MP4B	Z	-1.398	4.19
12	MP4B	Mx	.001	4.19
13	MP4C	X	4.455	2.19
14	MP4C	Z	-2.572	2.19
15	MP4C	Mx	0	2.19
16	MP4C	X	4.455	4.19
17	MP4C	Z	-2.572	4.19
18	MP4C	Mx	0	4.19
19	MP2A	X	6.412	1.42
20	MP2A	Z	-3.702	1.42
21	MP2A	Mx	-.01	1.42
22	MP2A	X	6.412	4.94
23	MP2A	Z	-3.702	4.94
24	MP2A	Mx	-.01	4.94



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
25	MP2B	X	6.412	1.42
26	MP2B	Z	-3.702	1.42
27	MP2B	Mx	.004	1.42
28	MP2B	X	6.412	4.94
29	MP2B	Z	-3.702	4.94
30	MP2B	Mx	.004	4.94
31	MP2C	X	8.634	1.42
32	MP2C	Z	-4.985	1.42
33	MP2C	Mx	.007	1.42
34	MP2C	X	8.634	4.94
35	MP2C	Z	-4.985	4.94
36	MP2C	Mx	.007	4.94
37	MP2A	X	6.412	1.42
38	MP2A	Z	-3.702	1.42
39	MP2A	Mx	-.004	1.42
40	MP2A	X	6.412	4.94
41	MP2A	Z	-3.702	4.94
42	MP2A	Mx	-.004	4.94
43	MP2B	X	6.412	1.42
44	MP2B	Z	-3.702	1.42
45	MP2B	Mx	.01	1.42
46	MP2B	X	6.412	4.94
47	MP2B	Z	-3.702	4.94
48	MP2B	Mx	.01	4.94
49	MP2C	X	8.634	1.42
50	MP2C	Z	-4.985	1.42
51	MP2C	Mx	-.007	1.42
52	MP2C	X	8.634	4.94
53	MP2C	Z	-4.985	4.94
54	MP2C	Mx	-.007	4.94
55	MP2A	X	.539	.5
56	MP2A	Z	-.311	.5
57	MP2A	Mx	.000225	.5
58	MP2B	X	.539	.5
59	MP2B	Z	-.311	.5
60	MP2B	Mx	-.000225	.5
61	MP2C	X	.701	.5
62	MP2C	Z	-.405	.5
63	MP2C	Mx	0	.5
64	MP3A	X	2.663	2.19
65	MP3A	Z	-1.538	2.19
66	MP3A	Mx	.002	2.19
67	MP3B	X	2.663	2.19
68	MP3B	Z	-1.538	2.19
69	MP3B	Mx	.002	2.19
70	MP3C	X	2.663	2.19
71	MP3C	Z	-1.538	2.19
72	MP3C	Mx	.002	2.19
73	MP2A	X	2.326	2.19
74	MP2A	Z	-1.343	2.19
75	MP2A	Mx	.002	2.19
76	MP2B	X	2.326	2.19
77	MP2B	Z	-1.343	2.19
78	MP2B	Mx	-.002	2.19
79	MP2C	X	3.545	2.19
80	MP2C	Z	-2.047	2.19
81	MP2C	Mx	0	2.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
82	M193	X	3.764	2.79
83	M193	Z	-2.173	2.79
84	M193	Mx	0	2.79
85	M162	X	3.764	1
86	M162	Z	-2.173	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	2.014	2.19
2	MP4A	Z	0	2.19
3	MP4A	Mx	-.001	2.19
4	MP4A	X	2.014	4.19
5	MP4A	Z	0	4.19
6	MP4A	Mx	-.001	4.19
7	MP4B	X	4.361	2.19
8	MP4B	Z	0	2.19
9	MP4B	Mx	.001	2.19
10	MP4B	X	4.361	4.19
11	MP4B	Z	0	4.19
12	MP4B	Mx	.001	4.19
13	MP4C	X	4.361	2.19
14	MP4C	Z	0	2.19
15	MP4C	Mx	.001	2.19
16	MP4C	X	4.361	4.19
17	MP4C	Z	0	4.19
18	MP4C	Mx	.001	4.19
19	MP2A	X	6.548	1.42
20	MP2A	Z	0	1.42
21	MP2A	Mx	-.007	1.42
22	MP2A	X	6.548	4.94
23	MP2A	Z	0	4.94
24	MP2A	Mx	-.007	4.94
25	MP2B	X	9.115	1.42
26	MP2B	Z	0	1.42
27	MP2B	Mx	-.000793	1.42
28	MP2B	X	9.115	4.94
29	MP2B	Z	0	4.94
30	MP2B	Mx	-.000793	4.94
31	MP2C	X	9.115	1.42
32	MP2C	Z	0	1.42
33	MP2C	Mx	.011	1.42
34	MP2C	X	9.115	4.94
35	MP2C	Z	0	4.94
36	MP2C	Mx	.011	4.94
37	MP2A	X	6.548	1.42
38	MP2A	Z	0	1.42
39	MP2A	Mx	-.007	1.42
40	MP2A	X	6.548	4.94
41	MP2A	Z	0	4.94
42	MP2A	Mx	-.007	4.94
43	MP2B	X	9.115	1.42
44	MP2B	Z	0	1.42
45	MP2B	Mx	.011	1.42
46	MP2B	X	9.115	4.94
47	MP2B	Z	0	4.94



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
48	MP2B	Mx	.011	4.94
49	MP2C	X	9.115	1.42
50	MP2C	Z	0	1.42
51	MP2C	Mx	-.000793	1.42
52	MP2C	X	9.115	4.94
53	MP2C	Z	0	4.94
54	MP2C	Mx	-.000793	4.94
55	MP2A	X	.56	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	.000233	.5
58	MP2B	X	.747	.5
59	MP2B	Z	0	.5
60	MP2B	Mx	-.000156	.5
61	MP2C	X	.747	.5
62	MP2C	Z	0	.5
63	MP2C	Mx	-.000156	.5
64	MP3A	X	2.736	2.19
65	MP3A	Z	0	2.19
66	MP3A	Mx	.002	2.19
67	MP3B	X	2.736	2.19
68	MP3B	Z	0	2.19
69	MP3B	Mx	.002	2.19
70	MP3C	X	2.736	2.19
71	MP3C	Z	0	2.19
72	MP3C	Mx	.002	2.19
73	MP2A	X	2.216	2.19
74	MP2A	Z	0	2.19
75	MP2A	Mx	.002	2.19
76	MP2B	X	3.624	2.19
77	MP2B	Z	0	2.19
78	MP2B	Mx	-.001	2.19
79	MP2C	X	3.624	2.19
80	MP2C	Z	0	2.19
81	MP2C	Mx	-.001	2.19
82	M193	X	5.248	2.79
83	M193	Z	0	2.79
84	M193	Mx	0	2.79
85	M162	X	5.248	1
86	M162	Z	0	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	2.422	2.19
2	MP4A	Z	1.398	2.19
3	MP4A	Mx	-.001	2.19
4	MP4A	X	2.422	4.19
5	MP4A	Z	1.398	4.19
6	MP4A	Mx	-.001	4.19
7	MP4B	X	4.455	2.19
8	MP4B	Z	2.572	2.19
9	MP4B	Mx	0	2.19
10	MP4B	X	4.455	4.19
11	MP4B	Z	2.572	4.19
12	MP4B	Mx	0	4.19
13	MP4C	X	2.422	2.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
14	MP4C	Z	1.398	2.19
15	MP4C	Mx	.001	2.19
16	MP4C	X	2.422	4.19
17	MP4C	Z	1.398	4.19
18	MP4C	Mx	.001	4.19
19	MP2A	X	6.412	1.42
20	MP2A	Z	3.702	1.42
21	MP2A	Mx	-.004	1.42
22	MP2A	X	6.412	4.94
23	MP2A	Z	3.702	4.94
24	MP2A	Mx	-.004	4.94
25	MP2B	X	8.634	1.42
26	MP2B	Z	4.985	1.42
27	MP2B	Mx	-.007	1.42
28	MP2B	X	8.634	4.94
29	MP2B	Z	4.985	4.94
30	MP2B	Mx	-.007	4.94
31	MP2C	X	6.412	1.42
32	MP2C	Z	3.702	1.42
33	MP2C	Mx	.01	1.42
34	MP2C	X	6.412	4.94
35	MP2C	Z	3.702	4.94
36	MP2C	Mx	.01	4.94
37	MP2A	X	6.412	1.42
38	MP2A	Z	3.702	1.42
39	MP2A	Mx	-.01	1.42
40	MP2A	X	6.412	4.94
41	MP2A	Z	3.702	4.94
42	MP2A	Mx	-.01	4.94
43	MP2B	X	8.634	1.42
44	MP2B	Z	4.985	1.42
45	MP2B	Mx	.007	1.42
46	MP2B	X	8.634	4.94
47	MP2B	Z	4.985	4.94
48	MP2B	Mx	.007	4.94
49	MP2C	X	6.412	1.42
50	MP2C	Z	3.702	1.42
51	MP2C	Mx	.004	1.42
52	MP2C	X	6.412	4.94
53	MP2C	Z	3.702	4.94
54	MP2C	Mx	.004	4.94
55	MP2A	X	.539	.5
56	MP2A	Z	.311	.5
57	MP2A	Mx	.000225	.5
58	MP2B	X	.701	.5
59	MP2B	Z	.405	.5
60	MP2B	Mx	0	.5
61	MP2C	X	.539	.5
62	MP2C	Z	.311	.5
63	MP2C	Mx	-.000225	.5
64	MP3A	X	2.663	2.19
65	MP3A	Z	1.538	2.19
66	MP3A	Mx	.002	2.19
67	MP3B	X	2.663	2.19
68	MP3B	Z	1.538	2.19
69	MP3B	Mx	.002	2.19
70	MP3C	X	2.663	2.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
71	MP3C	Z	1.538	2.19
72	MP3C	Mx	.002	2.19
73	MP2A	X	2.326	2.19
74	MP2A	Z	1.343	2.19
75	MP2A	Mx	.002	2.19
76	MP2B	X	3.545	2.19
77	MP2B	Z	2.047	2.19
78	MP2B	Mx	0	2.19
79	MP2C	X	2.326	2.19
80	MP2C	Z	1.343	2.19
81	MP2C	Mx	-.002	2.19
82	M193	X	4.689	2.79
83	M193	Z	2.707	2.79
84	M193	Mx	0	2.79
85	M162	X	4.689	1
86	M162	Z	2.707	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	2.181	2.19
2	MP4A	Z	3.777	2.19
3	MP4A	Mx	-.001	2.19
4	MP4A	X	2.181	4.19
5	MP4A	Z	3.777	4.19
6	MP4A	Mx	-.001	4.19
7	MP4B	X	2.181	2.19
8	MP4B	Z	3.777	2.19
9	MP4B	Mx	-.001	2.19
10	MP4B	X	2.181	4.19
11	MP4B	Z	3.777	4.19
12	MP4B	Mx	-.001	4.19
13	MP4C	X	1.007	2.19
14	MP4C	Z	1.744	2.19
15	MP4C	Mx	.001	2.19
16	MP4C	X	1.007	4.19
17	MP4C	Z	1.744	4.19
18	MP4C	Mx	.001	4.19
19	MP2A	X	4.557	1.42
20	MP2A	Z	7.893	1.42
21	MP2A	Mx	.000793	1.42
22	MP2A	X	4.557	4.94
23	MP2A	Z	7.893	4.94
24	MP2A	Mx	.000793	4.94
25	MP2B	X	4.557	1.42
26	MP2B	Z	7.893	1.42
27	MP2B	Mx	-.011	1.42
28	MP2B	X	4.557	4.94
29	MP2B	Z	7.893	4.94
30	MP2B	Mx	-.011	4.94
31	MP2C	X	3.274	1.42
32	MP2C	Z	5.671	1.42
33	MP2C	Mx	.007	1.42
34	MP2C	X	3.274	4.94
35	MP2C	Z	5.671	4.94
36	MP2C	Mx	.007	4.94



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
37	MP2A	X	4.557	1.42
38	MP2A	Z	7.893	1.42
39	MP2A	Mx	-.011	1.42
40	MP2A	X	4.557	4.94
41	MP2A	Z	7.893	4.94
42	MP2A	Mx	-.011	4.94
43	MP2B	X	4.557	1.42
44	MP2B	Z	7.893	1.42
45	MP2B	Mx	.000793	1.42
46	MP2B	X	4.557	4.94
47	MP2B	Z	7.893	4.94
48	MP2B	Mx	.000793	4.94
49	MP2C	X	3.274	1.42
50	MP2C	Z	5.671	1.42
51	MP2C	Mx	.007	1.42
52	MP2C	X	3.274	4.94
53	MP2C	Z	5.671	4.94
54	MP2C	Mx	.007	4.94
55	MP2A	X	.374	.5
56	MP2A	Z	.647	.5
57	MP2A	Mx	.000156	.5
58	MP2B	X	.374	.5
59	MP2B	Z	.647	.5
60	MP2B	Mx	.000156	.5
61	MP2C	X	.28	.5
62	MP2C	Z	.485	.5
63	MP2C	Mx	-.000233	.5
64	MP3A	X	1.877	2.19
65	MP3A	Z	3.251	2.19
66	MP3A	Mx	.001	2.19
67	MP3B	X	1.877	2.19
68	MP3B	Z	3.251	2.19
69	MP3B	Mx	.001	2.19
70	MP3C	X	1.877	2.19
71	MP3C	Z	3.251	2.19
72	MP3C	Mx	.001	2.19
73	MP2A	X	1.812	2.19
74	MP2A	Z	3.138	2.19
75	MP2A	Mx	.001	2.19
76	MP2B	X	1.812	2.19
77	MP2B	Z	3.138	2.19
78	MP2B	Mx	.001	2.19
79	MP2C	X	1.108	2.19
80	MP2C	Z	1.919	2.19
81	MP2C	Mx	-.002	2.19
82	M193	X	2.34	2.79
83	M193	Z	4.052	2.79
84	M193	Mx	0	2.79
85	M162	X	2.34	1
86	M162	Z	4.052	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP4A	X	0	2.19
2	MP4A	Z	5.144	2.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
3	MP4A	Mx	0	2.19
4	MP4A	X	0	4.19
5	MP4A	Z	5.144	4.19
6	MP4A	Mx	0	4.19
7	MP4B	X	0	2.19
8	MP4B	Z	2.796	2.19
9	MP4B	Mx	-.001	2.19
10	MP4B	X	0	4.19
11	MP4B	Z	2.796	4.19
12	MP4B	Mx	-.001	4.19
13	MP4C	X	0	2.19
14	MP4C	Z	2.796	2.19
15	MP4C	Mx	.001	2.19
16	MP4C	X	0	4.19
17	MP4C	Z	2.796	4.19
18	MP4C	Mx	.001	4.19
19	MP2A	X	0	1.42
20	MP2A	Z	9.97	1.42
21	MP2A	Mx	.007	1.42
22	MP2A	X	0	4.94
23	MP2A	Z	9.97	4.94
24	MP2A	Mx	.007	4.94
25	MP2B	X	0	1.42
26	MP2B	Z	7.404	1.42
27	MP2B	Mx	-.01	1.42
28	MP2B	X	0	4.94
29	MP2B	Z	7.404	4.94
30	MP2B	Mx	-.01	4.94
31	MP2C	X	0	1.42
32	MP2C	Z	7.404	1.42
33	MP2C	Mx	.004	1.42
34	MP2C	X	0	4.94
35	MP2C	Z	7.404	4.94
36	MP2C	Mx	.004	4.94
37	MP2A	X	0	1.42
38	MP2A	Z	9.97	1.42
39	MP2A	Mx	-.007	1.42
40	MP2A	X	0	4.94
41	MP2A	Z	9.97	4.94
42	MP2A	Mx	-.007	4.94
43	MP2B	X	0	1.42
44	MP2B	Z	7.404	1.42
45	MP2B	Mx	-.004	1.42
46	MP2B	X	0	4.94
47	MP2B	Z	7.404	4.94
48	MP2B	Mx	-.004	4.94
49	MP2C	X	0	1.42
50	MP2C	Z	7.404	1.42
51	MP2C	Mx	.01	1.42
52	MP2C	X	0	4.94
53	MP2C	Z	7.404	4.94
54	MP2C	Mx	.01	4.94
55	MP2A	X	0	.5
56	MP2A	Z	.81	.5
57	MP2A	Mx	0	.5
58	MP2B	X	0	.5
59	MP2B	Z	.623	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP2B	Mx	.000225	.5
61	MP2C	X	0	.5
62	MP2C	Z	.623	.5
63	MP2C	Mx	-.000225	.5
64	MP3A	X	0	2.19
65	MP3A	Z	4.093	2.19
66	MP3A	Mx	0	2.19
67	MP3B	X	0	2.19
68	MP3B	Z	4.093	2.19
69	MP3B	Mx	0	2.19
70	MP3C	X	0	2.19
71	MP3C	Z	4.093	2.19
72	MP3C	Mx	0	2.19
73	MP2A	X	0	2.19
74	MP2A	Z	4.093	2.19
75	MP2A	Mx	0	2.19
76	MP2B	X	0	2.19
77	MP2B	Z	2.685	2.19
78	MP2B	Mx	.002	2.19
79	MP2C	X	0	2.19
80	MP2C	Z	2.685	2.19
81	MP2C	Mx	-.002	2.19
82	M193	X	0	2.79
83	M193	Z	3.778	2.79
84	M193	Mx	0	2.79
85	M162	X	0	1
86	M162	Z	3.778	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-2.181	2.19
2	MP4A	Z	3.777	2.19
3	MP4A	Mx	.001	2.19
4	MP4A	X	-2.181	4.19
5	MP4A	Z	3.777	4.19
6	MP4A	Mx	.001	4.19
7	MP4B	X	-1.007	2.19
8	MP4B	Z	1.744	2.19
9	MP4B	Mx	-.001	2.19
10	MP4B	X	-1.007	4.19
11	MP4B	Z	1.744	4.19
12	MP4B	Mx	-.001	4.19
13	MP4C	X	-2.181	2.19
14	MP4C	Z	3.777	2.19
15	MP4C	Mx	.001	2.19
16	MP4C	X	-2.181	4.19
17	MP4C	Z	3.777	4.19
18	MP4C	Mx	.001	4.19
19	MP2A	X	-4.557	1.42
20	MP2A	Z	7.893	1.42
21	MP2A	Mx	.011	1.42
22	MP2A	X	-4.557	4.94
23	MP2A	Z	7.893	4.94
24	MP2A	Mx	.011	4.94
25	MP2B	X	-3.274	1.42



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
26	MP2B	Z	5.671	1.42
27	MP2B	Mx	-.007	1.42
28	MP2B	X	-3.274	4.94
29	MP2B	Z	5.671	4.94
30	MP2B	Mx	-.007	4.94
31	MP2C	X	-4.557	1.42
32	MP2C	Z	7.893	1.42
33	MP2C	Mx	-.000793	1.42
34	MP2C	X	-4.557	4.94
35	MP2C	Z	7.893	4.94
36	MP2C	Mx	-.000793	4.94
37	MP2A	X	-4.557	1.42
38	MP2A	Z	7.893	1.42
39	MP2A	Mx	-.000793	1.42
40	MP2A	X	-4.557	4.94
41	MP2A	Z	7.893	4.94
42	MP2A	Mx	-.000793	4.94
43	MP2B	X	-3.274	1.42
44	MP2B	Z	5.671	1.42
45	MP2B	Mx	-.007	1.42
46	MP2B	X	-3.274	4.94
47	MP2B	Z	5.671	4.94
48	MP2B	Mx	-.007	4.94
49	MP2C	X	-4.557	1.42
50	MP2C	Z	7.893	1.42
51	MP2C	Mx	.011	1.42
52	MP2C	X	-4.557	4.94
53	MP2C	Z	7.893	4.94
54	MP2C	Mx	.011	4.94
55	MP2A	X	-.374	.5
56	MP2A	Z	.647	.5
57	MP2A	Mx	-.000156	.5
58	MP2B	X	-.28	.5
59	MP2B	Z	.485	.5
60	MP2B	Mx	.000233	.5
61	MP2C	X	-.374	.5
62	MP2C	Z	.647	.5
63	MP2C	Mx	-.000156	.5
64	MP3A	X	-1.877	2.19
65	MP3A	Z	3.251	2.19
66	MP3A	Mx	-.001	2.19
67	MP3B	X	-1.877	2.19
68	MP3B	Z	3.251	2.19
69	MP3B	Mx	-.001	2.19
70	MP3C	X	-1.877	2.19
71	MP3C	Z	3.251	2.19
72	MP3C	Mx	-.001	2.19
73	MP2A	X	-1.812	2.19
74	MP2A	Z	3.138	2.19
75	MP2A	Mx	-.001	2.19
76	MP2B	X	-1.108	2.19
77	MP2B	Z	1.919	2.19
78	MP2B	Mx	.002	2.19
79	MP2C	X	-1.812	2.19
80	MP2C	Z	3.138	2.19
81	MP2C	Mx	-.001	2.19
82	M193	X	-1.806	2.79



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
83	M193	Z	3.128	2.79
84	M193	Mx	0	2.79
85	M162	X	-1.806	1
86	M162	Z	3.128	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-2.422	2.19
2	MP4A	Z	1.398	2.19
3	MP4A	Mx	.001	2.19
4	MP4A	X	-2.422	4.19
5	MP4A	Z	1.398	4.19
6	MP4A	Mx	.001	4.19
7	MP4B	X	-2.422	2.19
8	MP4B	Z	1.398	2.19
9	MP4B	Mx	-.001	2.19
10	MP4B	X	-2.422	4.19
11	MP4B	Z	1.398	4.19
12	MP4B	Mx	-.001	4.19
13	MP4C	X	-4.455	2.19
14	MP4C	Z	2.572	2.19
15	MP4C	Mx	0	2.19
16	MP4C	X	-4.455	4.19
17	MP4C	Z	2.572	4.19
18	MP4C	Mx	0	4.19
19	MP2A	X	-6.412	1.42
20	MP2A	Z	3.702	1.42
21	MP2A	Mx	.01	1.42
22	MP2A	X	-6.412	4.94
23	MP2A	Z	3.702	4.94
24	MP2A	Mx	.01	4.94
25	MP2B	X	-6.412	1.42
26	MP2B	Z	3.702	1.42
27	MP2B	Mx	-.004	1.42
28	MP2B	X	-6.412	4.94
29	MP2B	Z	3.702	4.94
30	MP2B	Mx	-.004	4.94
31	MP2C	X	-8.634	1.42
32	MP2C	Z	4.985	1.42
33	MP2C	Mx	-.007	1.42
34	MP2C	X	-8.634	4.94
35	MP2C	Z	4.985	4.94
36	MP2C	Mx	-.007	4.94
37	MP2A	X	-6.412	1.42
38	MP2A	Z	3.702	1.42
39	MP2A	Mx	.004	1.42
40	MP2A	X	-6.412	4.94
41	MP2A	Z	3.702	4.94
42	MP2A	Mx	.004	4.94
43	MP2B	X	-6.412	1.42
44	MP2B	Z	3.702	1.42
45	MP2B	Mx	-.01	1.42
46	MP2B	X	-6.412	4.94
47	MP2B	Z	3.702	4.94
48	MP2B	Mx	-.01	4.94



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
49	MP2C	X	-8.634	1.42
50	MP2C	Z	4.985	1.42
51	MP2C	Mx	.007	1.42
52	MP2C	X	-8.634	4.94
53	MP2C	Z	4.985	4.94
54	MP2C	Mx	.007	4.94
55	MP2A	X	-.539	.5
56	MP2A	Z	.311	.5
57	MP2A	Mx	-.000225	.5
58	MP2B	X	-.539	.5
59	MP2B	Z	.311	.5
60	MP2B	Mx	.000225	.5
61	MP2C	X	-.701	.5
62	MP2C	Z	.405	.5
63	MP2C	Mx	0	.5
64	MP3A	X	-2.663	2.19
65	MP3A	Z	1.538	2.19
66	MP3A	Mx	-.002	2.19
67	MP3B	X	-2.663	2.19
68	MP3B	Z	1.538	2.19
69	MP3B	Mx	-.002	2.19
70	MP3C	X	-2.663	2.19
71	MP3C	Z	1.538	2.19
72	MP3C	Mx	-.002	2.19
73	MP2A	X	-2.326	2.19
74	MP2A	Z	1.343	2.19
75	MP2A	Mx	-.002	2.19
76	MP2B	X	-2.326	2.19
77	MP2B	Z	1.343	2.19
78	MP2B	Mx	.002	2.19
79	MP2C	X	-3.545	2.19
80	MP2C	Z	2.047	2.19
81	MP2C	Mx	0	2.19
82	M193	X	-3.764	2.79
83	M193	Z	2.173	2.79
84	M193	Mx	0	2.79
85	M162	X	-3.764	1
86	M162	Z	2.173	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-2.014	2.19
2	MP4A	Z	0	2.19
3	MP4A	Mx	.001	2.19
4	MP4A	X	-2.014	4.19
5	MP4A	Z	0	4.19
6	MP4A	Mx	.001	4.19
7	MP4B	X	-4.361	2.19
8	MP4B	Z	0	2.19
9	MP4B	Mx	-.001	2.19
10	MP4B	X	-4.361	4.19
11	MP4B	Z	0	4.19
12	MP4B	Mx	-.001	4.19
13	MP4C	X	-4.361	2.19
14	MP4C	Z	0	2.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
15	MP4C	Mx	-.001	2.19
16	MP4C	X	-4.361	4.19
17	MP4C	Z	0	4.19
18	MP4C	Mx	-.001	4.19
19	MP2A	X	-6.548	1.42
20	MP2A	Z	0	1.42
21	MP2A	Mx	.007	1.42
22	MP2A	X	-6.548	4.94
23	MP2A	Z	0	4.94
24	MP2A	Mx	.007	4.94
25	MP2B	X	-9.115	1.42
26	MP2B	Z	0	1.42
27	MP2B	Mx	.000793	1.42
28	MP2B	X	-9.115	4.94
29	MP2B	Z	0	4.94
30	MP2B	Mx	.000793	4.94
31	MP2C	X	-9.115	1.42
32	MP2C	Z	0	1.42
33	MP2C	Mx	-.011	1.42
34	MP2C	X	-9.115	4.94
35	MP2C	Z	0	4.94
36	MP2C	Mx	-.011	4.94
37	MP2A	X	-6.548	1.42
38	MP2A	Z	0	1.42
39	MP2A	Mx	.007	1.42
40	MP2A	X	-6.548	4.94
41	MP2A	Z	0	4.94
42	MP2A	Mx	.007	4.94
43	MP2B	X	-9.115	1.42
44	MP2B	Z	0	1.42
45	MP2B	Mx	-.011	1.42
46	MP2B	X	-9.115	4.94
47	MP2B	Z	0	4.94
48	MP2B	Mx	-.011	4.94
49	MP2C	X	-9.115	1.42
50	MP2C	Z	0	1.42
51	MP2C	Mx	.000793	1.42
52	MP2C	X	-9.115	4.94
53	MP2C	Z	0	4.94
54	MP2C	Mx	.000793	4.94
55	MP2A	X	-.56	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	-.000233	.5
58	MP2B	X	-.747	.5
59	MP2B	Z	0	.5
60	MP2B	Mx	.000156	.5
61	MP2C	X	-.747	.5
62	MP2C	Z	0	.5
63	MP2C	Mx	.000156	.5
64	MP3A	X	-2.736	2.19
65	MP3A	Z	0	2.19
66	MP3A	Mx	-.002	2.19
67	MP3B	X	-2.736	2.19
68	MP3B	Z	0	2.19
69	MP3B	Mx	-.002	2.19
70	MP3C	X	-2.736	2.19
71	MP3C	Z	0	2.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP3C	Mx	-.002	2.19
73	MP2A	X	-2.216	2.19
74	MP2A	Z	0	2.19
75	MP2A	Mx	-.002	2.19
76	MP2B	X	-3.624	2.19
77	MP2B	Z	0	2.19
78	MP2B	Mx	.001	2.19
79	MP2C	X	-3.624	2.19
80	MP2C	Z	0	2.19
81	MP2C	Mx	.001	2.19
82	M193	X	-5.248	2.79
83	M193	Z	0	2.79
84	M193	Mx	0	2.79
85	M162	X	-5.248	1
86	M162	Z	0	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-2.422	2.19
2	MP4A	Z	-1.398	2.19
3	MP4A	Mx	.001	2.19
4	MP4A	X	-2.422	4.19
5	MP4A	Z	-1.398	4.19
6	MP4A	Mx	.001	4.19
7	MP4B	X	-4.455	2.19
8	MP4B	Z	-2.572	2.19
9	MP4B	Mx	0	2.19
10	MP4B	X	-4.455	4.19
11	MP4B	Z	-2.572	4.19
12	MP4B	Mx	0	4.19
13	MP4C	X	-2.422	2.19
14	MP4C	Z	-1.398	2.19
15	MP4C	Mx	-.001	2.19
16	MP4C	X	-2.422	4.19
17	MP4C	Z	-1.398	4.19
18	MP4C	Mx	-.001	4.19
19	MP2A	X	-6.412	1.42
20	MP2A	Z	-3.702	1.42
21	MP2A	Mx	.004	1.42
22	MP2A	X	-6.412	4.94
23	MP2A	Z	-3.702	4.94
24	MP2A	Mx	.004	4.94
25	MP2B	X	-8.634	1.42
26	MP2B	Z	-4.985	1.42
27	MP2B	Mx	.007	1.42
28	MP2B	X	-8.634	4.94
29	MP2B	Z	-4.985	4.94
30	MP2B	Mx	.007	4.94
31	MP2C	X	-6.412	1.42
32	MP2C	Z	-3.702	1.42
33	MP2C	Mx	-.01	1.42
34	MP2C	X	-6.412	4.94
35	MP2C	Z	-3.702	4.94
36	MP2C	Mx	-.01	4.94
37	MP2A	X	-6.412	1.42



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
38	MP2A	Z	-3.702	1.42
39	MP2A	Mx	.01	1.42
40	MP2A	X	-6.412	4.94
41	MP2A	Z	-3.702	4.94
42	MP2A	Mx	.01	4.94
43	MP2B	X	-8.634	1.42
44	MP2B	Z	-4.985	1.42
45	MP2B	Mx	-.007	1.42
46	MP2B	X	-8.634	4.94
47	MP2B	Z	-4.985	4.94
48	MP2B	Mx	-.007	4.94
49	MP2C	X	-6.412	1.42
50	MP2C	Z	-3.702	1.42
51	MP2C	Mx	-.004	1.42
52	MP2C	X	-6.412	4.94
53	MP2C	Z	-3.702	4.94
54	MP2C	Mx	-.004	4.94
55	MP2A	X	-.539	.5
56	MP2A	Z	-.311	.5
57	MP2A	Mx	-.000225	.5
58	MP2B	X	-.701	.5
59	MP2B	Z	-.405	.5
60	MP2B	Mx	0	.5
61	MP2C	X	-.539	.5
62	MP2C	Z	-.311	.5
63	MP2C	Mx	.000225	.5
64	MP3A	X	-2.663	2.19
65	MP3A	Z	-1.538	2.19
66	MP3A	Mx	-.002	2.19
67	MP3B	X	-2.663	2.19
68	MP3B	Z	-1.538	2.19
69	MP3B	Mx	-.002	2.19
70	MP3C	X	-2.663	2.19
71	MP3C	Z	-1.538	2.19
72	MP3C	Mx	-.002	2.19
73	MP2A	X	-2.326	2.19
74	MP2A	Z	-1.343	2.19
75	MP2A	Mx	-.002	2.19
76	MP2B	X	-3.545	2.19
77	MP2B	Z	-2.047	2.19
78	MP2B	Mx	0	2.19
79	MP2C	X	-2.326	2.19
80	MP2C	Z	-1.343	2.19
81	MP2C	Mx	.002	2.19
82	M193	X	-4.689	2.79
83	M193	Z	-2.707	2.79
84	M193	Mx	0	2.79
85	M162	X	-4.689	1
86	M162	Z	-2.707	1
87	M162	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-2.181	2.19
2	MP4A	Z	-3.777	2.19
3	MP4A	Mx	.001	2.19



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
4	MP4A	X	-2.181	4.19
5	MP4A	Z	-3.777	4.19
6	MP4A	Mx	.001	4.19
7	MP4B	X	-2.181	2.19
8	MP4B	Z	-3.777	2.19
9	MP4B	Mx	.001	2.19
10	MP4B	X	-2.181	4.19
11	MP4B	Z	-3.777	4.19
12	MP4B	Mx	.001	4.19
13	MP4C	X	-1.007	2.19
14	MP4C	Z	-1.744	2.19
15	MP4C	Mx	-.001	2.19
16	MP4C	X	-1.007	4.19
17	MP4C	Z	-1.744	4.19
18	MP4C	Mx	-.001	4.19
19	MP2A	X	-4.557	1.42
20	MP2A	Z	-7.893	1.42
21	MP2A	Mx	-.000793	1.42
22	MP2A	X	-4.557	4.94
23	MP2A	Z	-7.893	4.94
24	MP2A	Mx	-.000793	4.94
25	MP2B	X	-4.557	1.42
26	MP2B	Z	-7.893	1.42
27	MP2B	Mx	.011	1.42
28	MP2B	X	-4.557	4.94
29	MP2B	Z	-7.893	4.94
30	MP2B	Mx	.011	4.94
31	MP2C	X	-3.274	1.42
32	MP2C	Z	-5.671	1.42
33	MP2C	Mx	-.007	1.42
34	MP2C	X	-3.274	4.94
35	MP2C	Z	-5.671	4.94
36	MP2C	Mx	-.007	4.94
37	MP2A	X	-4.557	1.42
38	MP2A	Z	-7.893	1.42
39	MP2A	Mx	.011	1.42
40	MP2A	X	-4.557	4.94
41	MP2A	Z	-7.893	4.94
42	MP2A	Mx	.011	4.94
43	MP2B	X	-4.557	1.42
44	MP2B	Z	-7.893	1.42
45	MP2B	Mx	-.000793	1.42
46	MP2B	X	-4.557	4.94
47	MP2B	Z	-7.893	4.94
48	MP2B	Mx	-.000793	4.94
49	MP2C	X	-3.274	1.42
50	MP2C	Z	-5.671	1.42
51	MP2C	Mx	-.007	1.42
52	MP2C	X	-3.274	4.94
53	MP2C	Z	-5.671	4.94
54	MP2C	Mx	-.007	4.94
55	MP2A	X	-.374	.5
56	MP2A	Z	-.647	.5
57	MP2A	Mx	-.000156	.5
58	MP2B	X	-.374	.5
59	MP2B	Z	-.647	.5
60	MP2B	Mx	-.000156	.5



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.%]
8	M67	Y	-7.755	-7.755	0	%100
9	M200	Y	-6.692	-6.692	0	%100
10	M186A	Y	-5.08	-5.08	0	%100
11	MP4A	Y	-5.08	-5.08	0	%100
12	MP3A	Y	-5.08	-5.08	0	%100
13	MP2A	Y	-5.08	-5.08	0	%100
14	MP1A	Y	-5.08	-5.08	0	%100
15	M113	Y	-13.832	-13.832	0	%100
16	M41	Y	-10.03	-10.03	0	%100
17	M44	Y	-9.781	-9.781	0	%100
18	M45	Y	-9.781	-9.781	0	%100
19	M53A	Y	-4.593	-4.593	0	%100
20	M54A	Y	-4.593	-4.593	0	%100
21	M56A	Y	-4.593	-4.593	0	%100
22	M57A	Y	-7.755	-7.755	0	%100
23	M58A	Y	-7.755	-7.755	0	%100
24	M61A	Y	-13.832	-13.832	0	%100
25	M65A	Y	-10.03	-10.03	0	%100
26	M68	Y	-9.781	-9.781	0	%100
27	M69	Y	-9.781	-9.781	0	%100
28	M77	Y	-4.593	-4.593	0	%100
29	M78	Y	-4.593	-4.593	0	%100
30	M80	Y	-4.593	-4.593	0	%100
31	M81	Y	-7.755	-7.755	0	%100
32	M82	Y	-7.755	-7.755	0	%100
33	M85	Y	-13.832	-13.832	0	%100
34	M112A	Y	-6.692	-6.692	0	%100
35	M117	Y	-5.08	-5.08	0	%100
36	MP4C	Y	-5.08	-5.08	0	%100
37	MP3C	Y	-5.08	-5.08	0	%100
38	MP2C	Y	-5.08	-5.08	0	%100
39	MP1C	Y	-5.08	-5.08	0	%100
40	M152	Y	-6.692	-6.692	0	%100
41	M157	Y	-5.08	-5.08	0	%100
42	MP4B	Y	-5.08	-5.08	0	%100
43	MP3B	Y	-5.08	-5.08	0	%100
44	MP2B	Y	-5.08	-5.08	0	%100
45	MP1B	Y	-5.08	-5.08	0	%100
46	M193	Y	-5.08	-5.08	0	%100
47	M224A	Y	-13.832	-13.832	0	%100
48	M225A	Y	-13.832	-13.832	0	%100
49	M226A	Y	-13.832	-13.832	0	%100
50	M162	Y	-5.08	-5.08	0	%100
51	M125A	Y	-6.743	-6.743	0	%100
52	M126	Y	-6.743	-6.743	0	%100
53	M127	Y	-6.743	-6.743	0	%100
54	M128	Y	-6.743	-6.743	0	%100
55	M129	Y	-6.743	-6.743	0	%100
56	M130	Y	-6.743	-6.743	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	M48	X	0	0	0	%100
2	M48	Z	0	0	0	%100
3	M53	X	0	0	0	%100
4	M53	Z	-16.758	-16.758	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, %]	
5	M54	X	0	0	0	%100
6	M54	Z	-16.758	-16.758	0	%100
7	M62	X	0	0	0	%100
8	M62	Z	-1.908	-1.908	0	%100
9	M63	X	0	0	0	%100
10	M63	Z	-2.123	-2.123	0	%100
11	M65	X	0	0	0	%100
12	M65	Z	-1.693	-1.693	0	%100
13	M66	X	0	0	0	%100
14	M66	Z	-3.828	-3.828	0	%100
15	M67	X	0	0	0	%100
16	M67	Z	-3.828	-3.828	0	%100
17	M200	X	0	0	0	%100
18	M200	Z	-12.669	-12.669	0	%100
19	M186A	X	0	0	0	%100
20	M186A	Z	-8.597	-8.597	0	%100
21	MP4A	X	0	0	0	%100
22	MP4A	Z	-8.597	-8.597	0	%100
23	MP3A	X	0	0	0	%100
24	MP3A	Z	-8.597	-8.597	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	-8.597	-8.597	0	%100
27	MP1A	X	0	0	0	%100
28	MP1A	Z	-8.597	-8.597	0	%100
29	M113	X	0	0	0	%100
30	M113	Z	-21.719	-21.719	0	%100
31	M41	X	0	0	0	%100
32	M41	Z	-11.698	-11.698	0	%100
33	M44	X	0	0	0	%100
34	M44	Z	-4.19	-4.19	0	%100
35	M45	X	0	0	0	%100
36	M45	Z	-4.19	-4.19	0	%100
37	M53A	X	0	0	0	%100
38	M53A	Z	-.477	-.477	0	%100
39	M54A	X	0	0	0	%100
40	M54A	Z	-.531	-.531	0	%100
41	M56A	X	0	0	0	%100
42	M56A	Z	-.423	-.423	0	%100
43	M57A	X	0	0	0	%100
44	M57A	Z	-15.042	-15.042	0	%100
45	M58A	X	0	0	0	%100
46	M58A	Z	-3.693	-3.693	0	%100
47	M61A	X	0	0	0	%100
48	M61A	Z	-7.838	-7.838	0	%100
49	M65A	X	0	0	0	%100
50	M65A	Z	-11.698	-11.698	0	%100
51	M68	X	0	0	0	%100
52	M68	Z	-4.19	-4.19	0	%100
53	M69	X	0	0	0	%100
54	M69	Z	-4.19	-4.19	0	%100
55	M77	X	0	0	0	%100
56	M77	Z	-.477	-.477	0	%100
57	M78	X	0	0	0	%100
58	M78	Z	-.531	-.531	0	%100
59	M80	X	0	0	0	%100
60	M80	Z	-.423	-.423	0	%100
61	M81	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
62	M81	Z	-3.693	-3.693	0	%100
63	M82	X	0	0	0	%100
64	M82	Z	-15.042	-15.042	0	%100
65	M85	X	0	0	0	%100
66	M85	Z	-5.429	-5.429	0	%100
67	M112A	X	0	0	0	%100
68	M112A	Z	-3.167	-3.167	0	%100
69	M117	X	0	0	0	%100
70	M117	Z	-2.149	-2.149	0	%100
71	MP4C	X	0	0	0	%100
72	MP4C	Z	-8.597	-8.597	0	%100
73	MP3C	X	0	0	0	%100
74	MP3C	Z	-8.597	-8.597	0	%100
75	MP2C	X	0	0	0	%100
76	MP2C	Z	-8.597	-8.597	0	%100
77	MP1C	X	0	0	0	%100
78	MP1C	Z	-8.597	-8.597	0	%100
79	M152	X	0	0	0	%100
80	M152	Z	-3.167	-3.167	0	%100
81	M157	X	0	0	0	%100
82	M157	Z	-2.149	-2.149	0	%100
83	MP4B	X	0	0	0	%100
84	MP4B	Z	-8.597	-8.597	0	%100
85	MP3B	X	0	0	0	%100
86	MP3B	Z	-8.597	-8.597	0	%100
87	MP2B	X	0	0	0	%100
88	MP2B	Z	-8.597	-8.597	0	%100
89	MP1B	X	0	0	0	%100
90	MP1B	Z	-8.597	-8.597	0	%100
91	M193	X	0	0	0	%100
92	M193	Z	-8.597	-8.597	0	%100
93	M224A	X	0	0	0	%100
94	M224A	Z	-5.53	-5.53	0	%100
95	M225A	X	0	0	0	%100
96	M225A	Z	-5.531	-5.531	0	%100
97	M226A	X	0	0	0	%100
98	M226A	Z	-22.121	-22.121	0	%100
99	M162	X	0	0	0	%100
100	M162	Z	-7.835	-7.835	0	%100
101	M125A	X	0	0	0	%100
102	M125A	Z	-8.926	-8.926	0	%100
103	M126	X	0	0	0	%100
104	M126	Z	-8.926	-8.926	0	%100
105	M127	X	0	0	0	%100
106	M127	Z	-12.19	-12.19	0	%100
107	M128	X	0	0	0	%100
108	M128	Z	-1.519	-1.519	0	%100
109	M129	X	0	0	0	%100
110	M129	Z	-1.519	-1.519	0	%100
111	M130	X	0	0	0	%100
112	M130	Z	-12.19	-12.19	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	M48	X	1.95	1.95	0	%100
2	M48	Z	-3.377	-3.377	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, %]
3	M53	X	6.284	6.284	0 %100
4	M53	Z	-10.885	-10.885	0 %100
5	M54	X	6.284	6.284	0 %100
6	M54	Z	-10.885	-10.885	0 %100
7	M62	X	.716	.716	0 %100
8	M62	Z	-1.239	-1.239	0 %100
9	M63	X	.796	.796	0 %100
10	M63	Z	-1.379	-1.379	0 %100
11	M65	X	.635	.635	0 %100
12	M65	Z	-1.1	-1.1	0 %100
13	M66	X	.000203	.000203	0 %100
14	M66	Z	-.000352	-.000352	0 %100
15	M67	X	5.675	5.675	0 %100
16	M67	Z	-9.829	-9.829	0 %100
17	M200	X	4.751	4.751	0 %100
18	M200	Z	-8.229	-8.229	0 %100
19	M186A	X	3.224	3.224	0 %100
20	M186A	Z	-5.584	-5.584	0 %100
21	MP4A	X	4.299	4.299	0 %100
22	MP4A	Z	-7.445	-7.445	0 %100
23	MP3A	X	4.299	4.299	0 %100
24	MP3A	Z	-7.445	-7.445	0 %100
25	MP2A	X	4.299	4.299	0 %100
26	MP2A	Z	-7.445	-7.445	0 %100
27	MP1A	X	4.299	4.299	0 %100
28	MP1A	Z	-7.445	-7.445	0 %100
29	M113	X	8.144	8.144	0 %100
30	M113	Z	-14.107	-14.107	0 %100
31	M41	X	1.95	1.95	0 %100
32	M41	Z	-3.377	-3.377	0 %100
33	M44	X	6.284	6.284	0 %100
34	M44	Z	-10.885	-10.885	0 %100
35	M45	X	6.284	6.284	0 %100
36	M45	Z	-10.885	-10.885	0 %100
37	M53A	X	.716	.716	0 %100
38	M53A	Z	-1.239	-1.239	0 %100
39	M54A	X	.796	.796	0 %100
40	M54A	Z	-1.379	-1.379	0 %100
41	M56A	X	.635	.635	0 %100
42	M56A	Z	-1.1	-1.1	0 %100
43	M57A	X	5.675	5.675	0 %100
44	M57A	Z	-9.829	-9.829	0 %100
45	M58A	X	.000203	.000203	0 %100
46	M58A	Z	-.000352	-.000352	0 %100
47	M61A	X	8.989	8.989	0 %100
48	M61A	Z	-15.57	-15.57	0 %100
49	M65A	X	7.799	7.799	0 %100
50	M65A	Z	-13.508	-13.508	0 %100
51	M68	X	0	0	0 %100
52	M68	Z	0	0	0 %100
53	M69	X	0	0	0 %100
54	M69	Z	0	0	0 %100
55	M77	X	0	0	0 %100
56	M77	Z	0	0	0 %100
57	M78	X	0	0	0 %100
58	M78	Z	0	0	0 %100
59	M80	X	0	0	0 %100



Company : Maser Consulting
 Designer : AE
 Job Number : Project No. 10069083
 Model Name : 468035-VZW_MT_LO_H

June 10, 2021
 10:30 AM
 Checked By: DX

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, %]
1	M48	X	10.131	10.131	0	%100
2	M48	Z	-5.849	-5.849	0	%100
3	M53	X	3.628	3.628	0	%100
4	M53	Z	-2.095	-2.095	0	%100
5	M54	X	3.628	3.628	0	%100
6	M54	Z	-2.095	-2.095	0	%100
7	M62	X	.413	.413	0	%100
8	M62	Z	-.238	-.238	0	%100
9	M63	X	.46	.46	0	%100
10	M63	Z	-.265	-.265	0	%100
11	M65	X	.367	.367	0	%100
12	M65	Z	-.212	-.212	0	%100
13	M66	X	3.198	3.198	0	%100
14	M66	Z	-1.847	-1.847	0	%100
15	M67	X	13.027	13.027	0	%100
16	M67	Z	-7.521	-7.521	0	%100
17	M200	X	2.743	2.743	0	%100
18	M200	Z	-1.584	-1.584	0	%100
19	M186A	X	1.861	1.861	0	%100
20	M186A	Z	-1.075	-1.075	0	%100
21	MP4A	X	7.445	7.445	0	%100
22	MP4A	Z	-4.299	-4.299	0	%100
23	MP3A	X	7.445	7.445	0	%100
24	MP3A	Z	-4.299	-4.299	0	%100
25	MP2A	X	7.445	7.445	0	%100
26	MP2A	Z	-4.299	-4.299	0	%100
27	MP1A	X	7.445	7.445	0	%100
28	MP1A	Z	-4.299	-4.299	0	%100
29	M113	X	4.702	4.702	0	%100
30	M113	Z	-2.715	-2.715	0	%100
31	M41	X	0	0	0	%100
32	M41	Z	0	0	0	%100
33	M44	X	14.513	14.513	0	%100
34	M44	Z	-8.379	-8.379	0	%100
35	M45	X	14.513	14.513	0	%100
36	M45	Z	-8.379	-8.379	0	%100
37	M53A	X	1.652	1.652	0	%100
38	M53A	Z	-.954	-.954	0	%100
39	M54A	X	1.838	1.838	0	%100
40	M54A	Z	-1.061	-1.061	0	%100
41	M56A	X	1.466	1.466	0	%100
42	M56A	Z	-.847	-.847	0	%100
43	M57A	X	3.316	3.316	0	%100
44	M57A	Z	-1.914	-1.914	0	%100
45	M58A	X	3.316	3.316	0	%100
46	M58A	Z	-1.914	-1.914	0	%100
47	M61A	X	18.687	18.687	0	%100
48	M61A	Z	-10.789	-10.789	0	%100
49	M65A	X	10.131	10.131	0	%100
50	M65A	Z	-5.849	-5.849	0	%100
51	M68	X	3.628	3.628	0	%100
52	M68	Z	-2.095	-2.095	0	%100
53	M69	X	3.628	3.628	0	%100
54	M69	Z	-2.095	-2.095	0	%100
55	M77	X	.413	.413	0	%100
56	M77	Z	-.238	-.238	0	%100
57	M78	X	.46	.46	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,%]
58	M78	Z	-265	-265	0 %100
59	M80	X	.367	.367	0 %100
60	M80	Z	-212	-212	0 %100
61	M81	X	13.027	13.027	0 %100
62	M81	Z	-7.521	-7.521	0 %100
63	M82	X	3.198	3.198	0 %100
64	M82	Z	-1.847	-1.847	0 %100
65	M85	X	4.703	4.703	0 %100
66	M85	Z	-2.715	-2.715	0 %100
67	M112A	X	10.972	10.972	0 %100
68	M112A	Z	-6.335	-6.335	0 %100
69	M117	X	7.445	7.445	0 %100
70	M117	Z	-4.299	-4.299	0 %100
71	MP4C	X	7.445	7.445	0 %100
72	MP4C	Z	-4.299	-4.299	0 %100
73	MP3C	X	7.445	7.445	0 %100
74	MP3C	Z	-4.299	-4.299	0 %100
75	MP2C	X	7.445	7.445	0 %100
76	MP2C	Z	-4.299	-4.299	0 %100
77	MP1C	X	7.445	7.445	0 %100
78	MP1C	Z	-4.299	-4.299	0 %100
79	M152	X	2.743	2.743	0 %100
80	M152	Z	-1.584	-1.584	0 %100
81	M157	X	1.861	1.861	0 %100
82	M157	Z	-1.075	-1.075	0 %100
83	MP4B	X	7.445	7.445	0 %100
84	MP4B	Z	-4.299	-4.299	0 %100
85	MP3B	X	7.445	7.445	0 %100
86	MP3B	Z	-4.299	-4.299	0 %100
87	MP2B	X	7.445	7.445	0 %100
88	MP2B	Z	-4.299	-4.299	0 %100
89	MP1B	X	7.445	7.445	0 %100
90	MP1B	Z	-4.299	-4.299	0 %100
91	M193	X	7.445	7.445	0 %100
92	M193	Z	-4.299	-4.299	0 %100
93	M224A	X	19.158	19.158	0 %100
94	M224A	Z	-11.061	-11.061	0 %100
95	M225A	X	4.789	4.789	0 %100
96	M225A	Z	-2.765	-2.765	0 %100
97	M226A	X	4.79	4.79	0 %100
98	M226A	Z	-2.765	-2.765	0 %100
99	M162	X	6.785	6.785	0 %100
100	M162	Z	-3.917	-3.917	0 %100
101	M125A	X	1.315	1.315	0 %100
102	M125A	Z	-.759	-.759	0 %100
103	M126	X	10.557	10.557	0 %100
104	M126	Z	-6.095	-6.095	0 %100
105	M127	X	7.73	7.73	0 %100
106	M127	Z	-4.463	-4.463	0 %100
107	M128	X	7.73	7.73	0 %100
108	M128	Z	-4.463	-4.463	0 %100
109	M129	X	10.557	10.557	0 %100
110	M129	Z	-6.095	-6.095	0 %100
111	M130	X	1.315	1.315	0 %100
112	M130	Z	-.759	-.759	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	M48	X	15.598	15.598	0	%100
2	M48	Z	0	0	0	%100
3	M53	X	0	0	0	%100
4	M53	Z	0	0	0	%100
5	M54	X	0	0	0	%100
6	M54	Z	0	0	0	%100
7	M62	X	0	0	0	%100
8	M62	Z	0	0	0	%100
9	M63	X	0	0	0	%100
10	M63	Z	0	0	0	%100
11	M65	X	0	0	0	%100
12	M65	Z	0	0	0	%100
13	M66	X	11.214	11.214	0	%100
14	M66	Z	0	0	0	%100
15	M67	X	11.214	11.214	0	%100
16	M67	Z	0	0	0	%100
17	M200	X	0	0	0	%100
18	M200	Z	0	0	0	%100
19	M186A	X	0	0	0	%100
20	M186A	Z	0	0	0	%100
21	MP4A	X	8.597	8.597	0	%100
22	MP4A	Z	0	0	0	%100
23	MP3A	X	8.597	8.597	0	%100
24	MP3A	Z	0	0	0	%100
25	MP2A	X	8.597	8.597	0	%100
26	MP2A	Z	0	0	0	%100
27	MP1A	X	8.597	8.597	0	%100
28	MP1A	Z	0	0	0	%100
29	M113	X	0	0	0	%100
30	M113	Z	0	0	0	%100
31	M41	X	3.9	3.9	0	%100
32	M41	Z	0	0	0	%100
33	M44	X	12.569	12.569	0	%100
34	M44	Z	0	0	0	%100
35	M45	X	12.569	12.569	0	%100
36	M45	Z	0	0	0	%100
37	M53A	X	1.431	1.431	0	%100
38	M53A	Z	0	0	0	%100
39	M54A	X	1.592	1.592	0	%100
40	M54A	Z	0	0	0	%100
41	M56A	X	1.27	1.27	0	%100
42	M56A	Z	0	0	0	%100
43	M57A	X	.000406	.000406	0	%100
44	M57A	Z	0	0	0	%100
45	M58A	X	11.349	11.349	0	%100
46	M58A	Z	0	0	0	%100
47	M61A	X	15.035	15.035	0	%100
48	M61A	Z	0	0	0	%100
49	M65A	X	3.899	3.899	0	%100
50	M65A	Z	0	0	0	%100
51	M68	X	12.569	12.569	0	%100
52	M68	Z	0	0	0	%100
53	M69	X	12.569	12.569	0	%100
54	M69	Z	0	0	0	%100
55	M77	X	1.431	1.431	0	%100
56	M77	Z	0	0	0	%100
57	M78	X	1.592	1.592	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, %]
58	M78	Z	0	0	%100
59	M80	X	1.27	1.27	%100
60	M80	Z	0	0	%100
61	M81	X	11.349	11.349	%100
62	M81	Z	0	0	%100
63	M82	X	.000406	.000406	%100
64	M82	Z	0	0	%100
65	M85	X	16.289	16.289	%100
66	M85	Z	0	0	%100
67	M112A	X	9.502	9.502	%100
68	M112A	Z	0	0	%100
69	M117	X	6.448	6.448	%100
70	M117	Z	0	0	%100
71	MP4C	X	8.597	8.597	%100
72	MP4C	Z	0	0	%100
73	MP3C	X	8.597	8.597	%100
74	MP3C	Z	0	0	%100
75	MP2C	X	8.597	8.597	%100
76	MP2C	Z	0	0	%100
77	MP1C	X	8.597	8.597	%100
78	MP1C	Z	0	0	%100
79	M152	X	9.502	9.502	%100
80	M152	Z	0	0	%100
81	M157	X	6.448	6.448	%100
82	M157	Z	0	0	%100
83	MP4B	X	8.597	8.597	%100
84	MP4B	Z	0	0	%100
85	MP3B	X	8.597	8.597	%100
86	MP3B	Z	0	0	%100
87	MP2B	X	8.597	8.597	%100
88	MP2B	Z	0	0	%100
89	MP1B	X	8.597	8.597	%100
90	MP1B	Z	0	0	%100
91	M193	X	8.597	8.597	%100
92	M193	Z	0	0	%100
93	M224A	X	16.591	16.591	%100
94	M224A	Z	0	0	%100
95	M225A	X	16.591	16.591	%100
96	M225A	Z	0	0	%100
97	M226A	X	0	0	%100
98	M226A	Z	0	0	%100
99	M162	X	7.835	7.835	%100
100	M162	Z	0	0	%100
101	M125A	X	6.164	6.164	%100
102	M125A	Z	0	0	%100
103	M126	X	6.164	6.164	%100
104	M126	Z	0	0	%100
105	M127	X	2.9	2.9	%100
106	M127	Z	0	0	%100
107	M128	X	13.571	13.571	%100
108	M128	Z	0	0	%100
109	M129	X	13.571	13.571	%100
110	M129	Z	0	0	%100
111	M130	X	2.9	2.9	%100
112	M130	Z	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	M48	X	10.131	10.131	0	%100
2	M48	Z	5.849	5.849	0	%100
3	M53	X	3.628	3.628	0	%100
4	M53	Z	2.095	2.095	0	%100
5	M54	X	3.628	3.628	0	%100
6	M54	Z	2.095	2.095	0	%100
7	M62	X	.413	.413	0	%100
8	M62	Z	.238	.238	0	%100
9	M63	X	.46	.46	0	%100
10	M63	Z	.265	.265	0	%100
11	M65	X	.367	.367	0	%100
12	M65	Z	.212	.212	0	%100
13	M66	X	13.027	13.027	0	%100
14	M66	Z	7.521	7.521	0	%100
15	M67	X	3.198	3.198	0	%100
16	M67	Z	1.847	1.847	0	%100
17	M200	X	2.743	2.743	0	%100
18	M200	Z	1.584	1.584	0	%100
19	M186A	X	1.861	1.861	0	%100
20	M186A	Z	1.075	1.075	0	%100
21	MP4A	X	7.445	7.445	0	%100
22	MP4A	Z	4.299	4.299	0	%100
23	MP3A	X	7.445	7.445	0	%100
24	MP3A	Z	4.299	4.299	0	%100
25	MP2A	X	7.445	7.445	0	%100
26	MP2A	Z	4.299	4.299	0	%100
27	MP1A	X	7.445	7.445	0	%100
28	MP1A	Z	4.299	4.299	0	%100
29	M113	X	4.703	4.703	0	%100
30	M113	Z	2.715	2.715	0	%100
31	M41	X	10.131	10.131	0	%100
32	M41	Z	5.849	5.849	0	%100
33	M44	X	3.628	3.628	0	%100
34	M44	Z	2.095	2.095	0	%100
35	M45	X	3.628	3.628	0	%100
36	M45	Z	2.095	2.095	0	%100
37	M53A	X	.413	.413	0	%100
38	M53A	Z	.238	.238	0	%100
39	M54A	X	.46	.46	0	%100
40	M54A	Z	.265	.265	0	%100
41	M56A	X	.367	.367	0	%100
42	M56A	Z	.212	.212	0	%100
43	M57A	X	3.198	3.198	0	%100
44	M57A	Z	1.847	1.847	0	%100
45	M58A	X	13.027	13.027	0	%100
46	M58A	Z	7.521	7.521	0	%100
47	M61A	X	4.239	4.239	0	%100
48	M61A	Z	2.447	2.447	0	%100
49	M65A	X	0	0	0	%100
50	M65A	Z	0	0	0	%100
51	M68	X	14.513	14.513	0	%100
52	M68	Z	8.379	8.379	0	%100
53	M69	X	14.513	14.513	0	%100
54	M69	Z	8.379	8.379	0	%100
55	M77	X	1.652	1.652	0	%100
56	M77	Z	.954	.954	0	%100
57	M78	X	1.838	1.838	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,%]
58	M78	Z	1.061	1.061	0 %100
59	M80	X	1.466	1.466	0 %100
60	M80	Z	.847	.847	0 %100
61	M81	X	3.316	3.316	0 %100
62	M81	Z	1.914	1.914	0 %100
63	M82	X	3.316	3.316	0 %100
64	M82	Z	1.914	1.914	0 %100
65	M85	X	18.809	18.809	0 %100
66	M85	Z	10.859	10.859	0 %100
67	M112A	X	2.743	2.743	0 %100
68	M112A	Z	1.584	1.584	0 %100
69	M117	X	1.861	1.861	0 %100
70	M117	Z	1.075	1.075	0 %100
71	MP4C	X	7.445	7.445	0 %100
72	MP4C	Z	4.299	4.299	0 %100
73	MP3C	X	7.445	7.445	0 %100
74	MP3C	Z	4.299	4.299	0 %100
75	MP2C	X	7.445	7.445	0 %100
76	MP2C	Z	4.299	4.299	0 %100
77	MP1C	X	7.445	7.445	0 %100
78	MP1C	Z	4.299	4.299	0 %100
79	M152	X	10.972	10.972	0 %100
80	M152	Z	6.335	6.335	0 %100
81	M157	X	7.445	7.445	0 %100
82	M157	Z	4.299	4.299	0 %100
83	MP4B	X	7.445	7.445	0 %100
84	MP4B	Z	4.299	4.299	0 %100
85	MP3B	X	7.445	7.445	0 %100
86	MP3B	Z	4.299	4.299	0 %100
87	MP2B	X	7.445	7.445	0 %100
88	MP2B	Z	4.299	4.299	0 %100
89	MP1B	X	7.445	7.445	0 %100
90	MP1B	Z	4.299	4.299	0 %100
91	M193	X	7.445	7.445	0 %100
92	M193	Z	4.299	4.299	0 %100
93	M224A	X	4.79	4.79	0 %100
94	M224A	Z	2.765	2.765	0 %100
95	M225A	X	19.158	19.158	0 %100
96	M225A	Z	11.061	11.061	0 %100
97	M226A	X	4.789	4.789	0 %100
98	M226A	Z	2.765	2.765	0 %100
99	M162	X	6.785	6.785	0 %100
100	M162	Z	3.917	3.917	0 %100
101	M125A	X	10.557	10.557	0 %100
102	M125A	Z	6.095	6.095	0 %100
103	M126	X	1.315	1.315	0 %100
104	M126	Z	.759	.759	0 %100
105	M127	X	1.315	1.315	0 %100
106	M127	Z	.759	.759	0 %100
107	M128	X	10.557	10.557	0 %100
108	M128	Z	6.095	6.095	0 %100
109	M129	X	7.73	7.73	0 %100
110	M129	Z	4.463	4.463	0 %100
111	M130	X	7.73	7.73	0 %100
112	M130	Z	4.463	4.463	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	M48	X	1.95	1.95	0	%100
2	M48	Z	3.377	3.377	0	%100
3	M53	X	6.284	6.284	0	%100
4	M53	Z	10.885	10.885	0	%100
5	M54	X	6.284	6.284	0	%100
6	M54	Z	10.885	10.885	0	%100
7	M62	X	.716	.716	0	%100
8	M62	Z	1.239	1.239	0	%100
9	M63	X	.796	.796	0	%100
10	M63	Z	1.379	1.379	0	%100
11	M65	X	.635	.635	0	%100
12	M65	Z	1.1	1.1	0	%100
13	M66	X	5.675	5.675	0	%100
14	M66	Z	9.829	9.829	0	%100
15	M67	X	.000203	.000203	0	%100
16	M67	Z	.000352	.000352	0	%100
17	M200	X	4.751	4.751	0	%100
18	M200	Z	8.229	8.229	0	%100
19	M186A	X	3.224	3.224	0	%100
20	M186A	Z	5.584	5.584	0	%100
21	MP4A	X	4.299	4.299	0	%100
22	MP4A	Z	7.445	7.445	0	%100
23	MP3A	X	4.299	4.299	0	%100
24	MP3A	Z	7.445	7.445	0	%100
25	MP2A	X	4.299	4.299	0	%100
26	MP2A	Z	7.445	7.445	0	%100
27	MP1A	X	4.299	4.299	0	%100
28	MP1A	Z	7.445	7.445	0	%100
29	M113	X	8.145	8.145	0	%100
30	M113	Z	14.107	14.107	0	%100
31	M41	X	7.799	7.799	0	%100
32	M41	Z	13.508	13.508	0	%100
33	M44	X	0	0	0	%100
34	M44	Z	0	0	0	%100
35	M45	X	0	0	0	%100
36	M45	Z	0	0	0	%100
37	M53A	X	0	0	0	%100
38	M53A	Z	0	0	0	%100
39	M54A	X	0	0	0	%100
40	M54A	Z	0	0	0	%100
41	M56A	X	0	0	0	%100
42	M56A	Z	0	0	0	%100
43	M57A	X	5.607	5.607	0	%100
44	M57A	Z	9.711	9.711	0	%100
45	M58A	X	5.607	5.607	0	%100
46	M58A	Z	9.711	9.711	0	%100
47	M61A	X	.648	.648	0	%100
48	M61A	Z	1.122	1.122	0	%100
49	M65A	X	1.95	1.95	0	%100
50	M65A	Z	3.377	3.377	0	%100
51	M68	X	6.284	6.284	0	%100
52	M68	Z	10.885	10.885	0	%100
53	M69	X	6.284	6.284	0	%100
54	M69	Z	10.885	10.885	0	%100
55	M77	X	.716	.716	0	%100
56	M77	Z	1.239	1.239	0	%100
57	M78	X	.796	.796	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,%]
58	M78	Z	1.379	1.379	0 %100
59	M80	X	.635	.635	0 %100
60	M80	Z	1.1	1.1	0 %100
61	M81	X	.000203	.000203	0 %100
62	M81	Z	.000352	.000352	0 %100
63	M82	X	5.675	5.675	0 %100
64	M82	Z	9.829	9.829	0 %100
65	M85	X	8.144	8.144	0 %100
66	M85	Z	14.107	14.107	0 %100
67	M112A	X	0	0	0 %100
68	M112A	Z	0	0	0 %100
69	M117	X	0	0	0 %100
70	M117	Z	0	0	0 %100
71	MP4C	X	4.299	4.299	0 %100
72	MP4C	Z	7.445	7.445	0 %100
73	MP3C	X	4.299	4.299	0 %100
74	MP3C	Z	7.445	7.445	0 %100
75	MP2C	X	4.299	4.299	0 %100
76	MP2C	Z	7.445	7.445	0 %100
77	MP1C	X	4.299	4.299	0 %100
78	MP1C	Z	7.445	7.445	0 %100
79	M152	X	4.751	4.751	0 %100
80	M152	Z	8.229	8.229	0 %100
81	M157	X	3.224	3.224	0 %100
82	M157	Z	5.584	5.584	0 %100
83	MP4B	X	4.299	4.299	0 %100
84	MP4B	Z	7.445	7.445	0 %100
85	MP3B	X	4.299	4.299	0 %100
86	MP3B	Z	7.445	7.445	0 %100
87	MP2B	X	4.299	4.299	0 %100
88	MP2B	Z	7.445	7.445	0 %100
89	MP1B	X	4.299	4.299	0 %100
90	MP1B	Z	7.445	7.445	0 %100
91	M193	X	4.299	4.299	0 %100
92	M193	Z	7.445	7.445	0 %100
93	M224A	X	0	0	0 %100
94	M224A	Z	0	0	0 %100
95	M225A	X	8.296	8.296	0 %100
96	M225A	Z	14.368	14.368	0 %100
97	M226A	X	8.295	8.295	0 %100
98	M226A	Z	14.368	14.368	0 %100
99	M162	X	3.917	3.917	0 %100
100	M162	Z	6.785	6.785	0 %100
101	M125A	X	6.785	6.785	0 %100
102	M125A	Z	11.753	11.753	0 %100
103	M126	X	1.45	1.45	0 %100
104	M126	Z	2.511	2.511	0 %100
105	M127	X	3.082	3.082	0 %100
106	M127	Z	5.338	5.338	0 %100
107	M128	X	3.082	3.082	0 %100
108	M128	Z	5.338	5.338	0 %100
109	M129	X	1.45	1.45	0 %100
110	M129	Z	2.511	2.511	0 %100
111	M130	X	6.785	6.785	0 %100
112	M130	Z	11.753	11.753	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	M48	X	0	0	0	%100
2	M48	Z	0	0	0	%100
3	M53	X	0	0	0	%100
4	M53	Z	16.758	16.758	0	%100
5	M54	X	0	0	0	%100
6	M54	Z	16.758	16.758	0	%100
7	M62	X	0	0	0	%100
8	M62	Z	1.908	1.908	0	%100
9	M63	X	0	0	0	%100
10	M63	Z	2.123	2.123	0	%100
11	M65	X	0	0	0	%100
12	M65	Z	1.693	1.693	0	%100
13	M66	X	0	0	0	%100
14	M66	Z	3.828	3.828	0	%100
15	M67	X	0	0	0	%100
16	M67	Z	3.828	3.828	0	%100
17	M200	X	0	0	0	%100
18	M200	Z	12.669	12.669	0	%100
19	M186A	X	0	0	0	%100
20	M186A	Z	8.597	8.597	0	%100
21	MP4A	X	0	0	0	%100
22	MP4A	Z	8.597	8.597	0	%100
23	MP3A	X	0	0	0	%100
24	MP3A	Z	8.597	8.597	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	8.597	8.597	0	%100
27	MP1A	X	0	0	0	%100
28	MP1A	Z	8.597	8.597	0	%100
29	M113	X	0	0	0	%100
30	M113	Z	21.719	21.719	0	%100
31	M41	X	0	0	0	%100
32	M41	Z	11.698	11.698	0	%100
33	M44	X	0	0	0	%100
34	M44	Z	4.19	4.19	0	%100
35	M45	X	0	0	0	%100
36	M45	Z	4.19	4.19	0	%100
37	M53A	X	0	0	0	%100
38	M53A	Z	.477	.477	0	%100
39	M54A	X	0	0	0	%100
40	M54A	Z	.531	.531	0	%100
41	M56A	X	0	0	0	%100
42	M56A	Z	.423	.423	0	%100
43	M57A	X	0	0	0	%100
44	M57A	Z	15.042	15.042	0	%100
45	M58A	X	0	0	0	%100
46	M58A	Z	3.693	3.693	0	%100
47	M61A	X	0	0	0	%100
48	M61A	Z	7.838	7.838	0	%100
49	M65A	X	0	0	0	%100
50	M65A	Z	11.698	11.698	0	%100
51	M68	X	0	0	0	%100
52	M68	Z	4.19	4.19	0	%100
53	M69	X	0	0	0	%100
54	M69	Z	4.19	4.19	0	%100
55	M77	X	0	0	0	%100
56	M77	Z	.477	.477	0	%100
57	M78	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M78	Z	.531	.531	0 %100
59	M80	X	0	0	0 %100
60	M80	Z	.423	.423	0 %100
61	M81	X	0	0	0 %100
62	M81	Z	3.693	3.693	0 %100
63	M82	X	0	0	0 %100
64	M82	Z	15.042	15.042	0 %100
65	M85	X	0	0	0 %100
66	M85	Z	5.429	5.429	0 %100
67	M112A	X	0	0	0 %100
68	M112A	Z	3.167	3.167	0 %100
69	M117	X	0	0	0 %100
70	M117	Z	2.149	2.149	0 %100
71	MP4C	X	0	0	0 %100
72	MP4C	Z	8.597	8.597	0 %100
73	MP3C	X	0	0	0 %100
74	MP3C	Z	8.597	8.597	0 %100
75	MP2C	X	0	0	0 %100
76	MP2C	Z	8.597	8.597	0 %100
77	MP1C	X	0	0	0 %100
78	MP1C	Z	8.597	8.597	0 %100
79	M152	X	0	0	0 %100
80	M152	Z	3.167	3.167	0 %100
81	M157	X	0	0	0 %100
82	M157	Z	2.149	2.149	0 %100
83	MP4B	X	0	0	0 %100
84	MP4B	Z	8.597	8.597	0 %100
85	MP3B	X	0	0	0 %100
86	MP3B	Z	8.597	8.597	0 %100
87	MP2B	X	0	0	0 %100
88	MP2B	Z	8.597	8.597	0 %100
89	MP1B	X	0	0	0 %100
90	MP1B	Z	8.597	8.597	0 %100
91	M193	X	0	0	0 %100
92	M193	Z	8.597	8.597	0 %100
93	M224A	X	0	0	0 %100
94	M224A	Z	5.53	5.53	0 %100
95	M225A	X	0	0	0 %100
96	M225A	Z	5.531	5.531	0 %100
97	M226A	X	0	0	0 %100
98	M226A	Z	22.121	22.121	0 %100
99	M162	X	0	0	0 %100
100	M162	Z	7.835	7.835	0 %100
101	M125A	X	0	0	0 %100
102	M125A	Z	8.926	8.926	0 %100
103	M126	X	0	0	0 %100
104	M126	Z	8.926	8.926	0 %100
105	M127	X	0	0	0 %100
106	M127	Z	12.19	12.19	0 %100
107	M128	X	0	0	0 %100
108	M128	Z	1.519	1.519	0 %100
109	M129	X	0	0	0 %100
110	M129	Z	1.519	1.519	0 %100
111	M130	X	0	0	0 %100
112	M130	Z	12.19	12.19	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	M48	X	-1.95	-1.95	0	%100
2	M48	Z	3.377	3.377	0	%100
3	M53	X	-6.284	-6.284	0	%100
4	M53	Z	10.885	10.885	0	%100
5	M54	X	-6.284	-6.284	0	%100
6	M54	Z	10.885	10.885	0	%100
7	M62	X	-7.16	-7.16	0	%100
8	M62	Z	1.239	1.239	0	%100
9	M63	X	-7.96	-7.96	0	%100
10	M63	Z	1.379	1.379	0	%100
11	M65	X	-6.35	-6.35	0	%100
12	M65	Z	1.1	1.1	0	%100
13	M66	X	-0.00203	-0.00203	0	%100
14	M66	Z	.000352	.000352	0	%100
15	M67	X	-5.675	-5.675	0	%100
16	M67	Z	9.829	9.829	0	%100
17	M200	X	-4.751	-4.751	0	%100
18	M200	Z	8.229	8.229	0	%100
19	M186A	X	-3.224	-3.224	0	%100
20	M186A	Z	5.584	5.584	0	%100
21	MP4A	X	-4.299	-4.299	0	%100
22	MP4A	Z	7.445	7.445	0	%100
23	MP3A	X	-4.299	-4.299	0	%100
24	MP3A	Z	7.445	7.445	0	%100
25	MP2A	X	-4.299	-4.299	0	%100
26	MP2A	Z	7.445	7.445	0	%100
27	MP1A	X	-4.299	-4.299	0	%100
28	MP1A	Z	7.445	7.445	0	%100
29	M113	X	-8.144	-8.144	0	%100
30	M113	Z	14.107	14.107	0	%100
31	M41	X	-1.95	-1.95	0	%100
32	M41	Z	3.377	3.377	0	%100
33	M44	X	-6.284	-6.284	0	%100
34	M44	Z	10.885	10.885	0	%100
35	M45	X	-6.284	-6.284	0	%100
36	M45	Z	10.885	10.885	0	%100
37	M53A	X	-7.16	-7.16	0	%100
38	M53A	Z	1.239	1.239	0	%100
39	M54A	X	-7.96	-7.96	0	%100
40	M54A	Z	1.379	1.379	0	%100
41	M56A	X	-6.35	-6.35	0	%100
42	M56A	Z	1.1	1.1	0	%100
43	M57A	X	-5.675	-5.675	0	%100
44	M57A	Z	9.829	9.829	0	%100
45	M58A	X	-0.00203	-0.00203	0	%100
46	M58A	Z	.000352	.000352	0	%100
47	M61A	X	-8.989	-8.989	0	%100
48	M61A	Z	15.57	15.57	0	%100
49	M65A	X	-7.799	-7.799	0	%100
50	M65A	Z	13.508	13.508	0	%100
51	M68	X	0	0	0	%100
52	M68	Z	0	0	0	%100
53	M69	X	0	0	0	%100
54	M69	Z	0	0	0	%100
55	M77	X	0	0	0	%100
56	M77	Z	0	0	0	%100
57	M78	X	0	0	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, %]	
58	M78	Z	0	0	0	%100
59	M80	X	0	0	0	%100
60	M80	Z	0	0	0	%100
61	M81	X	-5.607	-5.607	0	%100
62	M81	Z	9.711	9.711	0	%100
63	M82	X	-5.607	-5.607	0	%100
64	M82	Z	9.711	9.711	0	%100
65	M85	X	0	0	0	%100
66	M85	Z	0	0	0	%100
67	M112A	X	-4.751	-4.751	0	%100
68	M112A	Z	8.229	8.229	0	%100
69	M117	X	-3.224	-3.224	0	%100
70	M117	Z	5.584	5.584	0	%100
71	MP4C	X	-4.299	-4.299	0	%100
72	MP4C	Z	7.445	7.445	0	%100
73	MP3C	X	-4.299	-4.299	0	%100
74	MP3C	Z	7.445	7.445	0	%100
75	MP2C	X	-4.299	-4.299	0	%100
76	MP2C	Z	7.445	7.445	0	%100
77	MP1C	X	-4.299	-4.299	0	%100
78	MP1C	Z	7.445	7.445	0	%100
79	M152	X	0	0	0	%100
80	M152	Z	0	0	0	%100
81	M157	X	0	0	0	%100
82	M157	Z	0	0	0	%100
83	MP4B	X	-4.299	-4.299	0	%100
84	MP4B	Z	7.445	7.445	0	%100
85	MP3B	X	-4.299	-4.299	0	%100
86	MP3B	Z	7.445	7.445	0	%100
87	MP2B	X	-4.299	-4.299	0	%100
88	MP2B	Z	7.445	7.445	0	%100
89	MP1B	X	-4.299	-4.299	0	%100
90	MP1B	Z	7.445	7.445	0	%100
91	M193	X	-4.299	-4.299	0	%100
92	M193	Z	7.445	7.445	0	%100
93	M224A	X	-8.295	-8.295	0	%100
94	M224A	Z	14.368	14.368	0	%100
95	M225A	X	0	0	0	%100
96	M225A	Z	0	0	0	%100
97	M226A	X	-8.296	-8.296	0	%100
98	M226A	Z	14.368	14.368	0	%100
99	M162	X	-3.917	-3.917	0	%100
100	M162	Z	6.785	6.785	0	%100
101	M125A	X	-1.45	-1.45	0	%100
102	M125A	Z	2.511	2.511	0	%100
103	M126	X	-6.785	-6.785	0	%100
104	M126	Z	11.753	11.753	0	%100
105	M127	X	-6.785	-6.785	0	%100
106	M127	Z	11.753	11.753	0	%100
107	M128	X	-1.45	-1.45	0	%100
108	M128	Z	2.511	2.511	0	%100
109	M129	X	-3.082	-3.082	0	%100
110	M129	Z	5.338	5.338	0	%100
111	M130	X	-3.082	-3.082	0	%100
112	M130	Z	5.338	5.338	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	M48	X	-10.131	-10.131	0	%100
2	M48	Z	5.849	5.849	0	%100
3	M53	X	-3.628	-3.628	0	%100
4	M53	Z	2.095	2.095	0	%100
5	M54	X	-3.628	-3.628	0	%100
6	M54	Z	2.095	2.095	0	%100
7	M62	X	-.413	-.413	0	%100
8	M62	Z	.238	.238	0	%100
9	M63	X	-.46	-.46	0	%100
10	M63	Z	.265	.265	0	%100
11	M65	X	-.367	-.367	0	%100
12	M65	Z	.212	.212	0	%100
13	M66	X	-3.198	-3.198	0	%100
14	M66	Z	1.847	1.847	0	%100
15	M67	X	-13.027	-13.027	0	%100
16	M67	Z	7.521	7.521	0	%100
17	M200	X	-2.743	-2.743	0	%100
18	M200	Z	1.584	1.584	0	%100
19	M186A	X	-1.861	-1.861	0	%100
20	M186A	Z	1.075	1.075	0	%100
21	MP4A	X	-7.445	-7.445	0	%100
22	MP4A	Z	4.299	4.299	0	%100
23	MP3A	X	-7.445	-7.445	0	%100
24	MP3A	Z	4.299	4.299	0	%100
25	MP2A	X	-7.445	-7.445	0	%100
26	MP2A	Z	4.299	4.299	0	%100
27	MP1A	X	-7.445	-7.445	0	%100
28	MP1A	Z	4.299	4.299	0	%100
29	M113	X	-4.702	-4.702	0	%100
30	M113	Z	2.715	2.715	0	%100
31	M41	X	0	0	0	%100
32	M41	Z	0	0	0	%100
33	M44	X	-14.513	-14.513	0	%100
34	M44	Z	8.379	8.379	0	%100
35	M45	X	-14.513	-14.513	0	%100
36	M45	Z	8.379	8.379	0	%100
37	M53A	X	-1.652	-1.652	0	%100
38	M53A	Z	.954	.954	0	%100
39	M54A	X	-1.838	-1.838	0	%100
40	M54A	Z	1.061	1.061	0	%100
41	M56A	X	-1.466	-1.466	0	%100
42	M56A	Z	.847	.847	0	%100
43	M57A	X	-3.316	-3.316	0	%100
44	M57A	Z	1.914	1.914	0	%100
45	M58A	X	-3.316	-3.316	0	%100
46	M58A	Z	1.914	1.914	0	%100
47	M61A	X	-18.687	-18.687	0	%100
48	M61A	Z	10.789	10.789	0	%100
49	M65A	X	-10.131	-10.131	0	%100
50	M65A	Z	5.849	5.849	0	%100
51	M68	X	-3.628	-3.628	0	%100
52	M68	Z	2.095	2.095	0	%100
53	M69	X	-3.628	-3.628	0	%100
54	M69	Z	2.095	2.095	0	%100
55	M77	X	-.413	-.413	0	%100
56	M77	Z	.238	.238	0	%100
57	M78	X	-.46	-.46	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
58	M78	Z	.265	.265	0 %100
59	M80	X	-.367	-.367	0 %100
60	M80	Z	.212	.212	0 %100
61	M81	X	-13.027	-13.027	0 %100
62	M81	Z	7.521	7.521	0 %100
63	M82	X	-3.198	-3.198	0 %100
64	M82	Z	1.847	1.847	0 %100
65	M85	X	-4.703	-4.703	0 %100
66	M85	Z	2.715	2.715	0 %100
67	M112A	X	-10.972	-10.972	0 %100
68	M112A	Z	6.335	6.335	0 %100
69	M117	X	-7.445	-7.445	0 %100
70	M117	Z	4.299	4.299	0 %100
71	MP4C	X	-7.445	-7.445	0 %100
72	MP4C	Z	4.299	4.299	0 %100
73	MP3C	X	-7.445	-7.445	0 %100
74	MP3C	Z	4.299	4.299	0 %100
75	MP2C	X	-7.445	-7.445	0 %100
76	MP2C	Z	4.299	4.299	0 %100
77	MP1C	X	-7.445	-7.445	0 %100
78	MP1C	Z	4.299	4.299	0 %100
79	M152	X	-2.743	-2.743	0 %100
80	M152	Z	1.584	1.584	0 %100
81	M157	X	-1.861	-1.861	0 %100
82	M157	Z	1.075	1.075	0 %100
83	MP4B	X	-7.445	-7.445	0 %100
84	MP4B	Z	4.299	4.299	0 %100
85	MP3B	X	-7.445	-7.445	0 %100
86	MP3B	Z	4.299	4.299	0 %100
87	MP2B	X	-7.445	-7.445	0 %100
88	MP2B	Z	4.299	4.299	0 %100
89	MP1B	X	-7.445	-7.445	0 %100
90	MP1B	Z	4.299	4.299	0 %100
91	M193	X	-7.445	-7.445	0 %100
92	M193	Z	4.299	4.299	0 %100
93	M224A	X	-19.158	-19.158	0 %100
94	M224A	Z	11.061	11.061	0 %100
95	M225A	X	-4.789	-4.789	0 %100
96	M225A	Z	2.765	2.765	0 %100
97	M226A	X	-4.79	-4.79	0 %100
98	M226A	Z	2.765	2.765	0 %100
99	M162	X	-6.785	-6.785	0 %100
100	M162	Z	3.917	3.917	0 %100
101	M125A	X	-1.315	-1.315	0 %100
102	M125A	Z	.759	.759	0 %100
103	M126	X	-10.557	-10.557	0 %100
104	M126	Z	6.095	6.095	0 %100
105	M127	X	-7.73	-7.73	0 %100
106	M127	Z	4.463	4.463	0 %100
107	M128	X	-7.73	-7.73	0 %100
108	M128	Z	4.463	4.463	0 %100
109	M129	X	-10.557	-10.557	0 %100
110	M129	Z	6.095	6.095	0 %100
111	M130	X	-1.315	-1.315	0 %100
112	M130	Z	.759	.759	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	M48	X	-15.598	-15.598	0 %100
2	M48	Z	0	0	0 %100
3	M53	X	0	0	0 %100
4	M53	Z	0	0	0 %100
5	M54	X	0	0	0 %100
6	M54	Z	0	0	0 %100
7	M62	X	0	0	0 %100
8	M62	Z	0	0	0 %100
9	M63	X	0	0	0 %100
10	M63	Z	0	0	0 %100
11	M65	X	0	0	0 %100
12	M65	Z	0	0	0 %100
13	M66	X	-11.214	-11.214	0 %100
14	M66	Z	0	0	0 %100
15	M67	X	-11.214	-11.214	0 %100
16	M67	Z	0	0	0 %100
17	M200	X	0	0	0 %100
18	M200	Z	0	0	0 %100
19	M186A	X	0	0	0 %100
20	M186A	Z	0	0	0 %100
21	MP4A	X	-8.597	-8.597	0 %100
22	MP4A	Z	0	0	0 %100
23	MP3A	X	-8.597	-8.597	0 %100
24	MP3A	Z	0	0	0 %100
25	MP2A	X	-8.597	-8.597	0 %100
26	MP2A	Z	0	0	0 %100
27	MP1A	X	-8.597	-8.597	0 %100
28	MP1A	Z	0	0	0 %100
29	M113	X	0	0	0 %100
30	M113	Z	0	0	0 %100
31	M41	X	-3.9	-3.9	0 %100
32	M41	Z	0	0	0 %100
33	M44	X	-12.569	-12.569	0 %100
34	M44	Z	0	0	0 %100
35	M45	X	-12.569	-12.569	0 %100
36	M45	Z	0	0	0 %100
37	M53A	X	-1.431	-1.431	0 %100
38	M53A	Z	0	0	0 %100
39	M54A	X	-1.592	-1.592	0 %100
40	M54A	Z	0	0	0 %100
41	M56A	X	-1.27	-1.27	0 %100
42	M56A	Z	0	0	0 %100
43	M57A	X	-0.000406	-0.000406	0 %100
44	M57A	Z	0	0	0 %100
45	M58A	X	-11.349	-11.349	0 %100
46	M58A	Z	0	0	0 %100
47	M61A	X	-15.035	-15.035	0 %100
48	M61A	Z	0	0	0 %100
49	M65A	X	-3.899	-3.899	0 %100
50	M65A	Z	0	0	0 %100
51	M68	X	-12.569	-12.569	0 %100
52	M68	Z	0	0	0 %100
53	M69	X	-12.569	-12.569	0 %100
54	M69	Z	0	0	0 %100
55	M77	X	-1.431	-1.431	0 %100
56	M77	Z	0	0	0 %100
57	M78	X	-1.592	-1.592	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
58	M78	Z	0	0	0	%100
59	M80	X	-1.27	-1.27	0	%100
60	M80	Z	0	0	0	%100
61	M81	X	-11.349	-11.349	0	%100
62	M81	Z	0	0	0	%100
63	M82	X	-0.00406	-0.00406	0	%100
64	M82	Z	0	0	0	%100
65	M85	X	-16.289	-16.289	0	%100
66	M85	Z	0	0	0	%100
67	M112A	X	-9.502	-9.502	0	%100
68	M112A	Z	0	0	0	%100
69	M117	X	-6.448	-6.448	0	%100
70	M117	Z	0	0	0	%100
71	MP4C	X	-8.597	-8.597	0	%100
72	MP4C	Z	0	0	0	%100
73	MP3C	X	-8.597	-8.597	0	%100
74	MP3C	Z	0	0	0	%100
75	MP2C	X	-8.597	-8.597	0	%100
76	MP2C	Z	0	0	0	%100
77	MP1C	X	-8.597	-8.597	0	%100
78	MP1C	Z	0	0	0	%100
79	M152	X	-9.502	-9.502	0	%100
80	M152	Z	0	0	0	%100
81	M157	X	-6.448	-6.448	0	%100
82	M157	Z	0	0	0	%100
83	MP4B	X	-8.597	-8.597	0	%100
84	MP4B	Z	0	0	0	%100
85	MP3B	X	-8.597	-8.597	0	%100
86	MP3B	Z	0	0	0	%100
87	MP2B	X	-8.597	-8.597	0	%100
88	MP2B	Z	0	0	0	%100
89	MP1B	X	-8.597	-8.597	0	%100
90	MP1B	Z	0	0	0	%100
91	M193	X	-8.597	-8.597	0	%100
92	M193	Z	0	0	0	%100
93	M224A	X	-16.591	-16.591	0	%100
94	M224A	Z	0	0	0	%100
95	M225A	X	-16.591	-16.591	0	%100
96	M225A	Z	0	0	0	%100
97	M226A	X	0	0	0	%100
98	M226A	Z	0	0	0	%100
99	M162	X	-7.835	-7.835	0	%100
100	M162	Z	0	0	0	%100
101	M125A	X	-6.164	-6.164	0	%100
102	M125A	Z	0	0	0	%100
103	M126	X	-6.164	-6.164	0	%100
104	M126	Z	0	0	0	%100
105	M127	X	-2.9	-2.9	0	%100
106	M127	Z	0	0	0	%100
107	M128	X	-13.571	-13.571	0	%100
108	M128	Z	0	0	0	%100
109	M129	X	-13.571	-13.571	0	%100
110	M129	Z	0	0	0	%100
111	M130	X	-2.9	-2.9	0	%100
112	M130	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	M48	X	-10.131	-10.131	0	%100
2	M48	Z	-5.849	-5.849	0	%100
3	M53	X	-3.628	-3.628	0	%100
4	M53	Z	-2.095	-2.095	0	%100
5	M54	X	-3.628	-3.628	0	%100
6	M54	Z	-2.095	-2.095	0	%100
7	M62	X	-.413	-.413	0	%100
8	M62	Z	-.238	-.238	0	%100
9	M63	X	-.46	-.46	0	%100
10	M63	Z	-.265	-.265	0	%100
11	M65	X	-.367	-.367	0	%100
12	M65	Z	-.212	-.212	0	%100
13	M66	X	-13.027	-13.027	0	%100
14	M66	Z	-7.521	-7.521	0	%100
15	M67	X	-3.198	-3.198	0	%100
16	M67	Z	-1.847	-1.847	0	%100
17	M200	X	-2.743	-2.743	0	%100
18	M200	Z	-1.584	-1.584	0	%100
19	M186A	X	-1.861	-1.861	0	%100
20	M186A	Z	-1.075	-1.075	0	%100
21	MP4A	X	-7.445	-7.445	0	%100
22	MP4A	Z	-4.299	-4.299	0	%100
23	MP3A	X	-7.445	-7.445	0	%100
24	MP3A	Z	-4.299	-4.299	0	%100
25	MP2A	X	-7.445	-7.445	0	%100
26	MP2A	Z	-4.299	-4.299	0	%100
27	MP1A	X	-7.445	-7.445	0	%100
28	MP1A	Z	-4.299	-4.299	0	%100
29	M113	X	-4.703	-4.703	0	%100
30	M113	Z	-2.715	-2.715	0	%100
31	M41	X	-10.131	-10.131	0	%100
32	M41	Z	-5.849	-5.849	0	%100
33	M44	X	-3.628	-3.628	0	%100
34	M44	Z	-2.095	-2.095	0	%100
35	M45	X	-3.628	-3.628	0	%100
36	M45	Z	-2.095	-2.095	0	%100
37	M53A	X	-.413	-.413	0	%100
38	M53A	Z	-.238	-.238	0	%100
39	M54A	X	-.46	-.46	0	%100
40	M54A	Z	-.265	-.265	0	%100
41	M56A	X	-.367	-.367	0	%100
42	M56A	Z	-.212	-.212	0	%100
43	M57A	X	-3.198	-3.198	0	%100
44	M57A	Z	-1.847	-1.847	0	%100
45	M58A	X	-13.027	-13.027	0	%100
46	M58A	Z	-7.521	-7.521	0	%100
47	M61A	X	-4.239	-4.239	0	%100
48	M61A	Z	-2.447	-2.447	0	%100
49	M65A	X	0	0	0	%100
50	M65A	Z	0	0	0	%100
51	M68	X	-14.513	-14.513	0	%100
52	M68	Z	-8.379	-8.379	0	%100
53	M69	X	-14.513	-14.513	0	%100
54	M69	Z	-8.379	-8.379	0	%100
55	M77	X	-1.652	-1.652	0	%100
56	M77	Z	-.954	-.954	0	%100
57	M78	X	-1.838	-1.838	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,%]
58	M78	Z	-1.061	-1.061	0 %100
59	M80	X	-1.466	-1.466	0 %100
60	M80	Z	-.847	-.847	0 %100
61	M81	X	-3.316	-3.316	0 %100
62	M81	Z	-1.914	-1.914	0 %100
63	M82	X	-3.316	-3.316	0 %100
64	M82	Z	-1.914	-1.914	0 %100
65	M85	X	-18.809	-18.809	0 %100
66	M85	Z	-10.859	-10.859	0 %100
67	M112A	X	-2.743	-2.743	0 %100
68	M112A	Z	-1.584	-1.584	0 %100
69	M117	X	-1.861	-1.861	0 %100
70	M117	Z	-1.075	-1.075	0 %100
71	MP4C	X	-7.445	-7.445	0 %100
72	MP4C	Z	-4.299	-4.299	0 %100
73	MP3C	X	-7.445	-7.445	0 %100
74	MP3C	Z	-4.299	-4.299	0 %100
75	MP2C	X	-7.445	-7.445	0 %100
76	MP2C	Z	-4.299	-4.299	0 %100
77	MP1C	X	-7.445	-7.445	0 %100
78	MP1C	Z	-4.299	-4.299	0 %100
79	M152	X	-10.972	-10.972	0 %100
80	M152	Z	-6.335	-6.335	0 %100
81	M157	X	-7.445	-7.445	0 %100
82	M157	Z	-4.299	-4.299	0 %100
83	MP4B	X	-7.445	-7.445	0 %100
84	MP4B	Z	-4.299	-4.299	0 %100
85	MP3B	X	-7.445	-7.445	0 %100
86	MP3B	Z	-4.299	-4.299	0 %100
87	MP2B	X	-7.445	-7.445	0 %100
88	MP2B	Z	-4.299	-4.299	0 %100
89	MP1B	X	-7.445	-7.445	0 %100
90	MP1B	Z	-4.299	-4.299	0 %100
91	M193	X	-7.445	-7.445	0 %100
92	M193	Z	-4.299	-4.299	0 %100
93	M224A	X	-4.79	-4.79	0 %100
94	M224A	Z	-2.765	-2.765	0 %100
95	M225A	X	-19.158	-19.158	0 %100
96	M225A	Z	-11.061	-11.061	0 %100
97	M226A	X	-4.789	-4.789	0 %100
98	M226A	Z	-2.765	-2.765	0 %100
99	M162	X	-6.785	-6.785	0 %100
100	M162	Z	-3.917	-3.917	0 %100
101	M125A	X	-10.557	-10.557	0 %100
102	M125A	Z	-6.095	-6.095	0 %100
103	M126	X	-1.315	-1.315	0 %100
104	M126	Z	-.759	-.759	0 %100
105	M127	X	-1.315	-1.315	0 %100
106	M127	Z	-.759	-.759	0 %100
107	M128	X	-10.557	-10.557	0 %100
108	M128	Z	-6.095	-6.095	0 %100
109	M129	X	-7.73	-7.73	0 %100
110	M129	Z	-4.463	-4.463	0 %100
111	M130	X	-7.73	-7.73	0 %100
112	M130	Z	-4.463	-4.463	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	M48	X	-1.95	-1.95	0	%100
2	M48	Z	-3.377	-3.377	0	%100
3	M53	X	-6.284	-6.284	0	%100
4	M53	Z	-10.885	-10.885	0	%100
5	M54	X	-6.284	-6.284	0	%100
6	M54	Z	-10.885	-10.885	0	%100
7	M62	X	-.716	-.716	0	%100
8	M62	Z	-1.239	-1.239	0	%100
9	M63	X	-.796	-.796	0	%100
10	M63	Z	-1.379	-1.379	0	%100
11	M65	X	-.635	-.635	0	%100
12	M65	Z	-1.1	-1.1	0	%100
13	M66	X	-5.675	-5.675	0	%100
14	M66	Z	-9.829	-9.829	0	%100
15	M67	X	-.000203	-.000203	0	%100
16	M67	Z	-.000352	-.000352	0	%100
17	M200	X	-4.751	-4.751	0	%100
18	M200	Z	-8.229	-8.229	0	%100
19	M186A	X	-3.224	-3.224	0	%100
20	M186A	Z	-5.584	-5.584	0	%100
21	MP4A	X	-4.299	-4.299	0	%100
22	MP4A	Z	-7.445	-7.445	0	%100
23	MP3A	X	-4.299	-4.299	0	%100
24	MP3A	Z	-7.445	-7.445	0	%100
25	MP2A	X	-4.299	-4.299	0	%100
26	MP2A	Z	-7.445	-7.445	0	%100
27	MP1A	X	-4.299	-4.299	0	%100
28	MP1A	Z	-7.445	-7.445	0	%100
29	M113	X	-8.145	-8.145	0	%100
30	M113	Z	-14.107	-14.107	0	%100
31	M41	X	-7.799	-7.799	0	%100
32	M41	Z	-13.508	-13.508	0	%100
33	M44	X	0	0	0	%100
34	M44	Z	0	0	0	%100
35	M45	X	0	0	0	%100
36	M45	Z	0	0	0	%100
37	M53A	X	0	0	0	%100
38	M53A	Z	0	0	0	%100
39	M54A	X	0	0	0	%100
40	M54A	Z	0	0	0	%100
41	M56A	X	0	0	0	%100
42	M56A	Z	0	0	0	%100
43	M57A	X	-5.607	-5.607	0	%100
44	M57A	Z	-9.711	-9.711	0	%100
45	M58A	X	-5.607	-5.607	0	%100
46	M58A	Z	-9.711	-9.711	0	%100
47	M61A	X	-.648	-.648	0	%100
48	M61A	Z	-1.122	-1.122	0	%100
49	M65A	X	-1.95	-1.95	0	%100
50	M65A	Z	-3.377	-3.377	0	%100
51	M68	X	-6.284	-6.284	0	%100
52	M68	Z	-10.885	-10.885	0	%100
53	M69	X	-6.284	-6.284	0	%100
54	M69	Z	-10.885	-10.885	0	%100
55	M77	X	-.716	-.716	0	%100
56	M77	Z	-1.239	-1.239	0	%100
57	M78	X	-.796	-.796	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,%]
58	M78	Z	-1.379	-1.379	0 %100
59	M80	X	-.635	-.635	0 %100
60	M80	Z	-1.1	-1.1	0 %100
61	M81	X	-.000203	-.000203	0 %100
62	M81	Z	-.000352	-.000352	0 %100
63	M82	X	-5.675	-5.675	0 %100
64	M82	Z	-9.829	-9.829	0 %100
65	M85	X	-8.144	-8.144	0 %100
66	M85	Z	-14.107	-14.107	0 %100
67	M112A	X	0	0	0 %100
68	M112A	Z	0	0	0 %100
69	M117	X	0	0	0 %100
70	M117	Z	0	0	0 %100
71	MP4C	X	-4.299	-4.299	0 %100
72	MP4C	Z	-7.445	-7.445	0 %100
73	MP3C	X	-4.299	-4.299	0 %100
74	MP3C	Z	-7.445	-7.445	0 %100
75	MP2C	X	-4.299	-4.299	0 %100
76	MP2C	Z	-7.445	-7.445	0 %100
77	MP1C	X	-4.299	-4.299	0 %100
78	MP1C	Z	-7.445	-7.445	0 %100
79	M152	X	-4.751	-4.751	0 %100
80	M152	Z	-8.229	-8.229	0 %100
81	M157	X	-3.224	-3.224	0 %100
82	M157	Z	-5.584	-5.584	0 %100
83	MP4B	X	-4.299	-4.299	0 %100
84	MP4B	Z	-7.445	-7.445	0 %100
85	MP3B	X	-4.299	-4.299	0 %100
86	MP3B	Z	-7.445	-7.445	0 %100
87	MP2B	X	-4.299	-4.299	0 %100
88	MP2B	Z	-7.445	-7.445	0 %100
89	MP1B	X	-4.299	-4.299	0 %100
90	MP1B	Z	-7.445	-7.445	0 %100
91	M193	X	-4.299	-4.299	0 %100
92	M193	Z	-7.445	-7.445	0 %100
93	M224A	X	0	0	0 %100
94	M224A	Z	0	0	0 %100
95	M225A	X	-8.296	-8.296	0 %100
96	M225A	Z	-14.368	-14.368	0 %100
97	M226A	X	-8.295	-8.295	0 %100
98	M226A	Z	-14.368	-14.368	0 %100
99	M162	X	-3.917	-3.917	0 %100
100	M162	Z	-6.785	-6.785	0 %100
101	M125A	X	-6.785	-6.785	0 %100
102	M125A	Z	-11.753	-11.753	0 %100
103	M126	X	-1.45	-1.45	0 %100
104	M126	Z	-2.511	-2.511	0 %100
105	M127	X	-3.082	-3.082	0 %100
106	M127	Z	-5.338	-5.338	0 %100
107	M128	X	-3.082	-3.082	0 %100
108	M128	Z	-5.338	-5.338	0 %100
109	M129	X	-1.45	-1.45	0 %100
110	M129	Z	-2.511	-2.511	0 %100
111	M130	X	-6.785	-6.785	0 %100
112	M130	Z	-11.753	-11.753	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	M48	X	0	0	0	%100
2	M48	Z	0	0	0	%100
3	M53	X	0	0	0	%100
4	M53	Z	-3.884	-3.884	0	%100
5	M54	X	0	0	0	%100
6	M54	Z	-3.884	-3.884	0	%100
7	M62	X	0	0	0	%100
8	M62	Z	-1.437	-1.437	0	%100
9	M63	X	0	0	0	%100
10	M63	Z	-1.602	-1.602	0	%100
11	M65	X	0	0	0	%100
12	M65	Z	-1.273	-1.273	0	%100
13	M66	X	0	0	0	%100
14	M66	Z	-.966	-.966	0	%100
15	M67	X	0	0	0	%100
16	M67	Z	-.966	-.966	0	%100
17	M200	X	0	0	0	%100
18	M200	Z	-3.554	-3.554	0	%100
19	M186A	X	0	0	0	%100
20	M186A	Z	-2.87	-2.87	0	%100
21	MP4A	X	0	0	0	%100
22	MP4A	Z	-2.87	-2.87	0	%100
23	MP3A	X	0	0	0	%100
24	MP3A	Z	-2.87	-2.87	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	-2.87	-2.87	0	%100
27	MP1A	X	0	0	0	%100
28	MP1A	Z	-2.87	-2.87	0	%100
29	M113	X	0	0	0	%100
30	M113	Z	-4.515	-4.515	0	%100
31	M41	X	0	0	0	%100
32	M41	Z	-3.034	-3.034	0	%100
33	M44	X	0	0	0	%100
34	M44	Z	-.971	-.971	0	%100
35	M45	X	0	0	0	%100
36	M45	Z	-.971	-.971	0	%100
37	M53A	X	0	0	0	%100
38	M53A	Z	-.359	-.359	0	%100
39	M54A	X	0	0	0	%100
40	M54A	Z	-.4	-.4	0	%100
41	M56A	X	0	0	0	%100
42	M56A	Z	-.318	-.318	0	%100
43	M57A	X	0	0	0	%100
44	M57A	Z	-3.794	-3.794	0	%100
45	M58A	X	0	0	0	%100
46	M58A	Z	-.932	-.932	0	%100
47	M61A	X	0	0	0	%100
48	M61A	Z	-1.637	-1.637	0	%100
49	M65A	X	0	0	0	%100
50	M65A	Z	-3.034	-3.034	0	%100
51	M68	X	0	0	0	%100
52	M68	Z	-.971	-.971	0	%100
53	M69	X	0	0	0	%100
54	M69	Z	-.971	-.971	0	%100
55	M77	X	0	0	0	%100
56	M77	Z	-.359	-.359	0	%100
57	M78	X	0	0	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,%]
58	M78	Z	-4	-4	0 %100
59	M80	X	0	0	0 %100
60	M80	Z	-.318	-.318	0 %100
61	M81	X	0	0	0 %100
62	M81	Z	-.932	-.932	0 %100
63	M82	X	0	0	0 %100
64	M82	Z	-3.794	-3.794	0 %100
65	M85	X	0	0	0 %100
66	M85	Z	-1.129	-1.129	0 %100
67	M112A	X	0	0	0 %100
68	M112A	Z	-.888	-.888	0 %100
69	M117	X	0	0	0 %100
70	M117	Z	-.717	-.717	0 %100
71	MP4C	X	0	0	0 %100
72	MP4C	Z	-2.87	-2.87	0 %100
73	MP3C	X	0	0	0 %100
74	MP3C	Z	-2.87	-2.87	0 %100
75	MP2C	X	0	0	0 %100
76	MP2C	Z	-2.87	-2.87	0 %100
77	MP1C	X	0	0	0 %100
78	MP1C	Z	-2.87	-2.87	0 %100
79	M152	X	0	0	0 %100
80	M152	Z	-.888	-.888	0 %100
81	M157	X	0	0	0 %100
82	M157	Z	-.717	-.717	0 %100
83	MP4B	X	0	0	0 %100
84	MP4B	Z	-2.87	-2.87	0 %100
85	MP3B	X	0	0	0 %100
86	MP3B	Z	-2.87	-2.87	0 %100
87	MP2B	X	0	0	0 %100
88	MP2B	Z	-2.87	-2.87	0 %100
89	MP1B	X	0	0	0 %100
90	MP1B	Z	-2.87	-2.87	0 %100
91	M193	X	0	0	0 %100
92	M193	Z	-2.87	-2.87	0 %100
93	M224A	X	0	0	0 %100
94	M224A	Z	-1.171	-1.171	0 %100
95	M225A	X	0	0	0 %100
96	M225A	Z	-1.171	-1.171	0 %100
97	M226A	X	0	0	0 %100
98	M226A	Z	-4.684	-4.684	0 %100
99	M162	X	0	0	0 %100
100	M162	Z	-2.622	-2.622	0 %100
101	M125A	X	0	0	0 %100
102	M125A	Z	-2.357	-2.357	0 %100
103	M126	X	0	0	0 %100
104	M126	Z	-2.357	-2.357	0 %100
105	M127	X	0	0	0 %100
106	M127	Z	-3.219	-3.219	0 %100
107	M128	X	0	0	0 %100
108	M128	Z	-.401	-.401	0 %100
109	M129	X	0	0	0 %100
110	M129	Z	-.401	-.401	0 %100
111	M130	X	0	0	0 %100
112	M130	Z	-3.219	-3.219	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	M48	X	.506	.506	0	%100
2	M48	Z	-.876	-.876	0	%100
3	M53	X	1.457	1.457	0	%100
4	M53	Z	-2.523	-2.523	0	%100
5	M54	X	1.457	1.457	0	%100
6	M54	Z	-2.523	-2.523	0	%100
7	M62	X	.539	.539	0	%100
8	M62	Z	-.934	-.934	0	%100
9	M63	X	.601	.601	0	%100
10	M63	Z	-1.04	-1.04	0	%100
11	M65	X	.477	.477	0	%100
12	M65	Z	-.827	-.827	0	%100
13	M66	X	5.1e-5	5.1e-5	0	%100
14	M66	Z	-8.9e-5	-8.9e-5	0	%100
15	M67	X	1.431	1.431	0	%100
16	M67	Z	-2.479	-2.479	0	%100
17	M200	X	1.333	1.333	0	%100
18	M200	Z	-2.308	-2.308	0	%100
19	M186A	X	1.076	1.076	0	%100
20	M186A	Z	-1.864	-1.864	0	%100
21	MP4A	X	1.435	1.435	0	%100
22	MP4A	Z	-2.485	-2.485	0	%100
23	MP3A	X	1.435	1.435	0	%100
24	MP3A	Z	-2.485	-2.485	0	%100
25	MP2A	X	1.435	1.435	0	%100
26	MP2A	Z	-2.485	-2.485	0	%100
27	MP1A	X	1.435	1.435	0	%100
28	MP1A	Z	-2.485	-2.485	0	%100
29	M113	X	1.693	1.693	0	%100
30	M113	Z	-2.932	-2.932	0	%100
31	M41	X	.506	.506	0	%100
32	M41	Z	-.876	-.876	0	%100
33	M44	X	1.457	1.457	0	%100
34	M44	Z	-2.523	-2.523	0	%100
35	M45	X	1.457	1.457	0	%100
36	M45	Z	-2.523	-2.523	0	%100
37	M53A	X	.539	.539	0	%100
38	M53A	Z	-.934	-.934	0	%100
39	M54A	X	.601	.601	0	%100
40	M54A	Z	-1.04	-1.04	0	%100
41	M56A	X	.477	.477	0	%100
42	M56A	Z	-.827	-.827	0	%100
43	M57A	X	1.431	1.431	0	%100
44	M57A	Z	-2.479	-2.479	0	%100
45	M58A	X	5.1e-5	5.1e-5	0	%100
46	M58A	Z	-8.9e-5	-8.9e-5	0	%100
47	M61A	X	1.877	1.877	0	%100
48	M61A	Z	-3.252	-3.252	0	%100
49	M65A	X	2.023	2.023	0	%100
50	M65A	Z	-3.503	-3.503	0	%100
51	M68	X	0	0	0	%100
52	M68	Z	0	0	0	%100
53	M69	X	0	0	0	%100
54	M69	Z	0	0	0	%100
55	M77	X	0	0	0	%100
56	M77	Z	0	0	0	%100
57	M78	X	0	0	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,%]	
58	M78	Z	0	0	0	%100
59	M80	X	0	0	0	%100
60	M80	Z	0	0	0	%100
61	M81	X	1.414	1.414	0	%100
62	M81	Z	-2.45	-2.45	0	%100
63	M82	X	1.414	1.414	0	%100
64	M82	Z	-2.45	-2.45	0	%100
65	M85	X	0	0	0	%100
66	M85	Z	0	0	0	%100
67	M112A	X	1.333	1.333	0	%100
68	M112A	Z	-2.308	-2.308	0	%100
69	M117	X	1.076	1.076	0	%100
70	M117	Z	-1.864	-1.864	0	%100
71	MP4C	X	1.435	1.435	0	%100
72	MP4C	Z	-2.485	-2.485	0	%100
73	MP3C	X	1.435	1.435	0	%100
74	MP3C	Z	-2.485	-2.485	0	%100
75	MP2C	X	1.435	1.435	0	%100
76	MP2C	Z	-2.485	-2.485	0	%100
77	MP1C	X	1.435	1.435	0	%100
78	MP1C	Z	-2.485	-2.485	0	%100
79	M152	X	0	0	0	%100
80	M152	Z	0	0	0	%100
81	M157	X	0	0	0	%100
82	M157	Z	0	0	0	%100
83	MP4B	X	1.435	1.435	0	%100
84	MP4B	Z	-2.485	-2.485	0	%100
85	MP3B	X	1.435	1.435	0	%100
86	MP3B	Z	-2.485	-2.485	0	%100
87	MP2B	X	1.435	1.435	0	%100
88	MP2B	Z	-2.485	-2.485	0	%100
89	MP1B	X	1.435	1.435	0	%100
90	MP1B	Z	-2.485	-2.485	0	%100
91	M193	X	1.435	1.435	0	%100
92	M193	Z	-2.485	-2.485	0	%100
93	M224A	X	1.756	1.756	0	%100
94	M224A	Z	-3.042	-3.042	0	%100
95	M225A	X	0	0	0	%100
96	M225A	Z	0	0	0	%100
97	M226A	X	1.756	1.756	0	%100
98	M226A	Z	-3.042	-3.042	0	%100
99	M162	X	1.311	1.311	0	%100
100	M162	Z	-2.271	-2.271	0	%100
101	M125A	X	.383	.383	0	%100
102	M125A	Z	-.663	-.663	0	%100
103	M126	X	1.792	1.792	0	%100
104	M126	Z	-3.104	-3.104	0	%100
105	M127	X	1.792	1.792	0	%100
106	M127	Z	-3.104	-3.104	0	%100
107	M128	X	.383	.383	0	%100
108	M128	Z	-.663	-.663	0	%100
109	M129	X	.814	.814	0	%100
110	M129	Z	-1.41	-1.41	0	%100
111	M130	X	.814	.814	0	%100
112	M130	Z	-1.41	-1.41	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	M48	X	2.628	2.628	0	%100
2	M48	Z	-1.517	-1.517	0	%100
3	M53	X	.841	.841	0	%100
4	M53	Z	-.486	-.486	0	%100
5	M54	X	.841	.841	0	%100
6	M54	Z	-.486	-.486	0	%100
7	M62	X	.311	.311	0	%100
8	M62	Z	-.18	-.18	0	%100
9	M63	X	.347	.347	0	%100
10	M63	Z	-.2	-.2	0	%100
11	M65	X	.276	.276	0	%100
12	M65	Z	-.159	-.159	0	%100
13	M66	X	.807	.807	0	%100
14	M66	Z	-.466	-.466	0	%100
15	M67	X	3.286	3.286	0	%100
16	M67	Z	-1.897	-1.897	0	%100
17	M200	X	.769	.769	0	%100
18	M200	Z	-.444	-.444	0	%100
19	M186A	X	.621	.621	0	%100
20	M186A	Z	-.359	-.359	0	%100
21	MP4A	X	2.485	2.485	0	%100
22	MP4A	Z	-1.435	-1.435	0	%100
23	MP3A	X	2.485	2.485	0	%100
24	MP3A	Z	-1.435	-1.435	0	%100
25	MP2A	X	2.485	2.485	0	%100
26	MP2A	Z	-1.435	-1.435	0	%100
27	MP1A	X	2.485	2.485	0	%100
28	MP1A	Z	-1.435	-1.435	0	%100
29	M113	X	.977	.977	0	%100
30	M113	Z	-.564	-.564	0	%100
31	M41	X	0	0	0	%100
32	M41	Z	0	0	0	%100
33	M44	X	3.364	3.364	0	%100
34	M44	Z	-1.942	-1.942	0	%100
35	M45	X	3.364	3.364	0	%100
36	M45	Z	-1.942	-1.942	0	%100
37	M53A	X	1.245	1.245	0	%100
38	M53A	Z	-.719	-.719	0	%100
39	M54A	X	1.387	1.387	0	%100
40	M54A	Z	-.801	-.801	0	%100
41	M56A	X	1.102	1.102	0	%100
42	M56A	Z	-.636	-.636	0	%100
43	M57A	X	.836	.836	0	%100
44	M57A	Z	-.483	-.483	0	%100
45	M58A	X	.836	.836	0	%100
46	M58A	Z	-.483	-.483	0	%100
47	M61A	X	3.902	3.902	0	%100
48	M61A	Z	-2.253	-2.253	0	%100
49	M65A	X	2.628	2.628	0	%100
50	M65A	Z	-1.517	-1.517	0	%100
51	M68	X	.841	.841	0	%100
52	M68	Z	-.486	-.486	0	%100
53	M69	X	.841	.841	0	%100
54	M69	Z	-.486	-.486	0	%100
55	M77	X	.311	.311	0	%100
56	M77	Z	-.18	-.18	0	%100
57	M78	X	.347	.347	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, %]
58	M78	Z	-.2	-.2	0 %100
59	M80	X	.276	.276	0 %100
60	M80	Z	-.159	-.159	0 %100
61	M81	X	3.286	3.286	0 %100
62	M81	Z	-1.897	-1.897	0 %100
63	M82	X	.807	.807	0 %100
64	M82	Z	-.466	-.466	0 %100
65	M85	X	.978	.978	0 %100
66	M85	Z	-.564	-.564	0 %100
67	M112A	X	3.077	3.077	0 %100
68	M112A	Z	-1.777	-1.777	0 %100
69	M117	X	2.485	2.485	0 %100
70	M117	Z	-1.435	-1.435	0 %100
71	MP4C	X	2.485	2.485	0 %100
72	MP4C	Z	-1.435	-1.435	0 %100
73	MP3C	X	2.485	2.485	0 %100
74	MP3C	Z	-1.435	-1.435	0 %100
75	MP2C	X	2.485	2.485	0 %100
76	MP2C	Z	-1.435	-1.435	0 %100
77	MP1C	X	2.485	2.485	0 %100
78	MP1C	Z	-1.435	-1.435	0 %100
79	M152	X	.769	.769	0 %100
80	M152	Z	-.444	-.444	0 %100
81	M157	X	.621	.621	0 %100
82	M157	Z	-.359	-.359	0 %100
83	MP4B	X	2.485	2.485	0 %100
84	MP4B	Z	-1.435	-1.435	0 %100
85	MP3B	X	2.485	2.485	0 %100
86	MP3B	Z	-1.435	-1.435	0 %100
87	MP2B	X	2.485	2.485	0 %100
88	MP2B	Z	-1.435	-1.435	0 %100
89	MP1B	X	2.485	2.485	0 %100
90	MP1B	Z	-1.435	-1.435	0 %100
91	M193	X	2.485	2.485	0 %100
92	M193	Z	-1.435	-1.435	0 %100
93	M224A	X	4.056	4.056	0 %100
94	M224A	Z	-2.342	-2.342	0 %100
95	M225A	X	1.014	1.014	0 %100
96	M225A	Z	-.585	-.585	0 %100
97	M226A	X	1.014	1.014	0 %100
98	M226A	Z	-.586	-.586	0 %100
99	M162	X	2.271	2.271	0 %100
100	M162	Z	-1.311	-1.311	0 %100
101	M125A	X	.347	.347	0 %100
102	M125A	Z	-.201	-.201	0 %100
103	M126	X	2.788	2.788	0 %100
104	M126	Z	-1.61	-1.61	0 %100
105	M127	X	2.041	2.041	0 %100
106	M127	Z	-1.179	-1.179	0 %100
107	M128	X	2.041	2.041	0 %100
108	M128	Z	-1.179	-1.179	0 %100
109	M129	X	2.788	2.788	0 %100
110	M129	Z	-1.61	-1.61	0 %100
111	M130	X	.347	.347	0 %100
112	M130	Z	-.201	-.201	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	M48	X	4.045	4.045	0	%100
2	M48	Z	0	0	0	%100
3	M53	X	0	0	0	%100
4	M53	Z	0	0	0	%100
5	M54	X	0	0	0	%100
6	M54	Z	0	0	0	%100
7	M62	X	0	0	0	%100
8	M62	Z	0	0	0	%100
9	M63	X	0	0	0	%100
10	M63	Z	0	0	0	%100
11	M65	X	0	0	0	%100
12	M65	Z	0	0	0	%100
13	M66	X	2.829	2.829	0	%100
14	M66	Z	0	0	0	%100
15	M67	X	2.829	2.829	0	%100
16	M67	Z	0	0	0	%100
17	M200	X	0	0	0	%100
18	M200	Z	0	0	0	%100
19	M186A	X	0	0	0	%100
20	M186A	Z	0	0	0	%100
21	MP4A	X	2.87	2.87	0	%100
22	MP4A	Z	0	0	0	%100
23	MP3A	X	2.87	2.87	0	%100
24	MP3A	Z	0	0	0	%100
25	MP2A	X	2.87	2.87	0	%100
26	MP2A	Z	0	0	0	%100
27	MP1A	X	2.87	2.87	0	%100
28	MP1A	Z	0	0	0	%100
29	M113	X	0	0	0	%100
30	M113	Z	0	0	0	%100
31	M41	X	1.011	1.011	0	%100
32	M41	Z	0	0	0	%100
33	M44	X	2.913	2.913	0	%100
34	M44	Z	0	0	0	%100
35	M45	X	2.913	2.913	0	%100
36	M45	Z	0	0	0	%100
37	M53A	X	1.078	1.078	0	%100
38	M53A	Z	0	0	0	%100
39	M54A	X	1.201	1.201	0	%100
40	M54A	Z	0	0	0	%100
41	M56A	X	.955	.955	0	%100
42	M56A	Z	0	0	0	%100
43	M57A	X	.000102	.000102	0	%100
44	M57A	Z	0	0	0	%100
45	M58A	X	2.863	2.863	0	%100
46	M58A	Z	0	0	0	%100
47	M61A	X	3.14	3.14	0	%100
48	M61A	Z	0	0	0	%100
49	M65A	X	1.011	1.011	0	%100
50	M65A	Z	0	0	0	%100
51	M68	X	2.913	2.913	0	%100
52	M68	Z	0	0	0	%100
53	M69	X	2.913	2.913	0	%100
54	M69	Z	0	0	0	%100
55	M77	X	1.078	1.078	0	%100
56	M77	Z	0	0	0	%100
57	M78	X	1.201	1.201	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, %]	
58	M78	Z	0	0	0	%100
59	M80	X	.955	.955	0	%100
60	M80	Z	0	0	0	%100
61	M81	X	2.863	2.863	0	%100
62	M81	Z	0	0	0	%100
63	M82	X	.000102	.000102	0	%100
64	M82	Z	0	0	0	%100
65	M85	X	3.386	3.386	0	%100
66	M85	Z	0	0	0	%100
67	M112A	X	2.665	2.665	0	%100
68	M112A	Z	0	0	0	%100
69	M117	X	2.152	2.152	0	%100
70	M117	Z	0	0	0	%100
71	MP4C	X	2.87	2.87	0	%100
72	MP4C	Z	0	0	0	%100
73	MP3C	X	2.87	2.87	0	%100
74	MP3C	Z	0	0	0	%100
75	MP2C	X	2.87	2.87	0	%100
76	MP2C	Z	0	0	0	%100
77	MP1C	X	2.87	2.87	0	%100
78	MP1C	Z	0	0	0	%100
79	M152	X	2.665	2.665	0	%100
80	M152	Z	0	0	0	%100
81	M157	X	2.152	2.152	0	%100
82	M157	Z	0	0	0	%100
83	MP4B	X	2.87	2.87	0	%100
84	MP4B	Z	0	0	0	%100
85	MP3B	X	2.87	2.87	0	%100
86	MP3B	Z	0	0	0	%100
87	MP2B	X	2.87	2.87	0	%100
88	MP2B	Z	0	0	0	%100
89	MP1B	X	2.87	2.87	0	%100
90	MP1B	Z	0	0	0	%100
91	M193	X	2.87	2.87	0	%100
92	M193	Z	0	0	0	%100
93	M224A	X	3.513	3.513	0	%100
94	M224A	Z	0	0	0	%100
95	M225A	X	3.513	3.513	0	%100
96	M225A	Z	0	0	0	%100
97	M226A	X	0	0	0	%100
98	M226A	Z	0	0	0	%100
99	M162	X	2.622	2.622	0	%100
100	M162	Z	0	0	0	%100
101	M125A	X	1.628	1.628	0	%100
102	M125A	Z	0	0	0	%100
103	M126	X	1.628	1.628	0	%100
104	M126	Z	0	0	0	%100
105	M127	X	.766	.766	0	%100
106	M127	Z	0	0	0	%100
107	M128	X	3.584	3.584	0	%100
108	M128	Z	0	0	0	%100
109	M129	X	3.584	3.584	0	%100
110	M129	Z	0	0	0	%100
111	M130	X	.766	.766	0	%100
112	M130	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M48	X	2.628	2.628	0 %100
2	M48	Z	1.517	1.517	0 %100
3	M53	X	.841	.841	0 %100
4	M53	Z	.486	.486	0 %100
5	M54	X	.841	.841	0 %100
6	M54	Z	.486	.486	0 %100
7	M62	X	.311	.311	0 %100
8	M62	Z	.18	.18	0 %100
9	M63	X	.347	.347	0 %100
10	M63	Z	.2	.2	0 %100
11	M65	X	.276	.276	0 %100
12	M65	Z	.159	.159	0 %100
13	M66	X	3.286	3.286	0 %100
14	M66	Z	1.897	1.897	0 %100
15	M67	X	.807	.807	0 %100
16	M67	Z	.466	.466	0 %100
17	M200	X	.769	.769	0 %100
18	M200	Z	.444	.444	0 %100
19	M186A	X	.621	.621	0 %100
20	M186A	Z	.359	.359	0 %100
21	MP4A	X	2.485	2.485	0 %100
22	MP4A	Z	1.435	1.435	0 %100
23	MP3A	X	2.485	2.485	0 %100
24	MP3A	Z	1.435	1.435	0 %100
25	MP2A	X	2.485	2.485	0 %100
26	MP2A	Z	1.435	1.435	0 %100
27	MP1A	X	2.485	2.485	0 %100
28	MP1A	Z	1.435	1.435	0 %100
29	M113	X	.978	.978	0 %100
30	M113	Z	.564	.564	0 %100
31	M41	X	2.628	2.628	0 %100
32	M41	Z	1.517	1.517	0 %100
33	M44	X	.841	.841	0 %100
34	M44	Z	.486	.486	0 %100
35	M45	X	.841	.841	0 %100
36	M45	Z	.486	.486	0 %100
37	M53A	X	.311	.311	0 %100
38	M53A	Z	.18	.18	0 %100
39	M54A	X	.347	.347	0 %100
40	M54A	Z	.2	.2	0 %100
41	M56A	X	.276	.276	0 %100
42	M56A	Z	.159	.159	0 %100
43	M57A	X	.807	.807	0 %100
44	M57A	Z	.466	.466	0 %100
45	M58A	X	3.286	3.286	0 %100
46	M58A	Z	1.897	1.897	0 %100
47	M61A	X	.885	.885	0 %100
48	M61A	Z	.511	.511	0 %100
49	M65A	X	0	0	0 %100
50	M65A	Z	0	0	0 %100
51	M68	X	3.364	3.364	0 %100
52	M68	Z	1.942	1.942	0 %100
53	M69	X	3.364	3.364	0 %100
54	M69	Z	1.942	1.942	0 %100
55	M77	X	1.245	1.245	0 %100
56	M77	Z	.719	.719	0 %100
57	M78	X	1.387	1.387	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M78	Z	.801	.801	0 %100
59	M80	X	1.102	1.102	0 %100
60	M80	Z	.636	.636	0 %100
61	M81	X	.836	.836	0 %100
62	M81	Z	.483	.483	0 %100
63	M82	X	.836	.836	0 %100
64	M82	Z	.483	.483	0 %100
65	M85	X	3.91	3.91	0 %100
66	M85	Z	2.257	2.257	0 %100
67	M112A	X	.769	.769	0 %100
68	M112A	Z	.444	.444	0 %100
69	M117	X	.621	.621	0 %100
70	M117	Z	.359	.359	0 %100
71	MP4C	X	2.485	2.485	0 %100
72	MP4C	Z	1.435	1.435	0 %100
73	MP3C	X	2.485	2.485	0 %100
74	MP3C	Z	1.435	1.435	0 %100
75	MP2C	X	2.485	2.485	0 %100
76	MP2C	Z	1.435	1.435	0 %100
77	MP1C	X	2.485	2.485	0 %100
78	MP1C	Z	1.435	1.435	0 %100
79	M152	X	3.077	3.077	0 %100
80	M152	Z	1.777	1.777	0 %100
81	M157	X	2.485	2.485	0 %100
82	M157	Z	1.435	1.435	0 %100
83	MP4B	X	2.485	2.485	0 %100
84	MP4B	Z	1.435	1.435	0 %100
85	MP3B	X	2.485	2.485	0 %100
86	MP3B	Z	1.435	1.435	0 %100
87	MP2B	X	2.485	2.485	0 %100
88	MP2B	Z	1.435	1.435	0 %100
89	MP1B	X	2.485	2.485	0 %100
90	MP1B	Z	1.435	1.435	0 %100
91	M193	X	2.485	2.485	0 %100
92	M193	Z	1.435	1.435	0 %100
93	M224A	X	1.014	1.014	0 %100
94	M224A	Z	.586	.586	0 %100
95	M225A	X	4.056	4.056	0 %100
96	M225A	Z	2.342	2.342	0 %100
97	M226A	X	1.014	1.014	0 %100
98	M226A	Z	.585	.585	0 %100
99	M162	X	2.271	2.271	0 %100
100	M162	Z	1.311	1.311	0 %100
101	M125A	X	2.788	2.788	0 %100
102	M125A	Z	1.61	1.61	0 %100
103	M126	X	.347	.347	0 %100
104	M126	Z	.201	.201	0 %100
105	M127	X	.347	.347	0 %100
106	M127	Z	.201	.201	0 %100
107	M128	X	2.788	2.788	0 %100
108	M128	Z	1.61	1.61	0 %100
109	M129	X	2.041	2.041	0 %100
110	M129	Z	1.179	1.179	0 %100
111	M130	X	2.041	2.041	0 %100
112	M130	Z	1.179	1.179	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	M48	X	.506	.506	0	%100
2	M48	Z	.876	.876	0	%100
3	M53	X	1.457	1.457	0	%100
4	M53	Z	2.523	2.523	0	%100
5	M54	X	1.457	1.457	0	%100
6	M54	Z	2.523	2.523	0	%100
7	M62	X	.539	.539	0	%100
8	M62	Z	.934	.934	0	%100
9	M63	X	.601	.601	0	%100
10	M63	Z	1.04	1.04	0	%100
11	M65	X	.477	.477	0	%100
12	M65	Z	.827	.827	0	%100
13	M66	X	1.431	1.431	0	%100
14	M66	Z	2.479	2.479	0	%100
15	M67	X	5.1e-5	5.1e-5	0	%100
16	M67	Z	8.9e-5	8.9e-5	0	%100
17	M200	X	1.333	1.333	0	%100
18	M200	Z	2.308	2.308	0	%100
19	M186A	X	1.076	1.076	0	%100
20	M186A	Z	1.864	1.864	0	%100
21	MP4A	X	1.435	1.435	0	%100
22	MP4A	Z	2.485	2.485	0	%100
23	MP3A	X	1.435	1.435	0	%100
24	MP3A	Z	2.485	2.485	0	%100
25	MP2A	X	1.435	1.435	0	%100
26	MP2A	Z	2.485	2.485	0	%100
27	MP1A	X	1.435	1.435	0	%100
28	MP1A	Z	2.485	2.485	0	%100
29	M113	X	1.693	1.693	0	%100
30	M113	Z	2.933	2.933	0	%100
31	M41	X	2.023	2.023	0	%100
32	M41	Z	3.503	3.503	0	%100
33	M44	X	0	0	0	%100
34	M44	Z	0	0	0	%100
35	M45	X	0	0	0	%100
36	M45	Z	0	0	0	%100
37	M53A	X	0	0	0	%100
38	M53A	Z	0	0	0	%100
39	M54A	X	0	0	0	%100
40	M54A	Z	0	0	0	%100
41	M56A	X	0	0	0	%100
42	M56A	Z	0	0	0	%100
43	M57A	X	1.414	1.414	0	%100
44	M57A	Z	2.45	2.45	0	%100
45	M58A	X	1.414	1.414	0	%100
46	M58A	Z	2.45	2.45	0	%100
47	M61A	X	.135	.135	0	%100
48	M61A	Z	.234	.234	0	%100
49	M65A	X	.506	.506	0	%100
50	M65A	Z	.876	.876	0	%100
51	M68	X	1.457	1.457	0	%100
52	M68	Z	2.523	2.523	0	%100
53	M69	X	1.457	1.457	0	%100
54	M69	Z	2.523	2.523	0	%100
55	M77	X	.539	.539	0	%100
56	M77	Z	.934	.934	0	%100
57	M78	X	.601	.601	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M78	Z	1.04	1.04	0 %100
59	M80	X	.477	.477	0 %100
60	M80	Z	.827	.827	0 %100
61	M81	X	5.1e-5	5.1e-5	0 %100
62	M81	Z	8.9e-5	8.9e-5	0 %100
63	M82	X	1.431	1.431	0 %100
64	M82	Z	2.479	2.479	0 %100
65	M85	X	1.693	1.693	0 %100
66	M85	Z	2.932	2.932	0 %100
67	M112A	X	0	0	0 %100
68	M112A	Z	0	0	0 %100
69	M117	X	0	0	0 %100
70	M117	Z	0	0	0 %100
71	MP4C	X	1.435	1.435	0 %100
72	MP4C	Z	2.485	2.485	0 %100
73	MP3C	X	1.435	1.435	0 %100
74	MP3C	Z	2.485	2.485	0 %100
75	MP2C	X	1.435	1.435	0 %100
76	MP2C	Z	2.485	2.485	0 %100
77	MP1C	X	1.435	1.435	0 %100
78	MP1C	Z	2.485	2.485	0 %100
79	M152	X	1.333	1.333	0 %100
80	M152	Z	2.308	2.308	0 %100
81	M157	X	1.076	1.076	0 %100
82	M157	Z	1.864	1.864	0 %100
83	MP4B	X	1.435	1.435	0 %100
84	MP4B	Z	2.485	2.485	0 %100
85	MP3B	X	1.435	1.435	0 %100
86	MP3B	Z	2.485	2.485	0 %100
87	MP2B	X	1.435	1.435	0 %100
88	MP2B	Z	2.485	2.485	0 %100
89	MP1B	X	1.435	1.435	0 %100
90	MP1B	Z	2.485	2.485	0 %100
91	M193	X	1.435	1.435	0 %100
92	M193	Z	2.485	2.485	0 %100
93	M224A	X	0	0	0 %100
94	M224A	Z	0	0	0 %100
95	M225A	X	1.756	1.756	0 %100
96	M225A	Z	3.042	3.042	0 %100
97	M226A	X	1.756	1.756	0 %100
98	M226A	Z	3.042	3.042	0 %100
99	M162	X	1.311	1.311	0 %100
100	M162	Z	2.271	2.271	0 %100
101	M125A	X	1.792	1.792	0 %100
102	M125A	Z	3.104	3.104	0 %100
103	M126	X	.383	.383	0 %100
104	M126	Z	.663	.663	0 %100
105	M127	X	.814	.814	0 %100
106	M127	Z	1.41	1.41	0 %100
107	M128	X	.814	.814	0 %100
108	M128	Z	1.41	1.41	0 %100
109	M129	X	.383	.383	0 %100
110	M129	Z	.663	.663	0 %100
111	M130	X	1.792	1.792	0 %100
112	M130	Z	3.104	3.104	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	M48	X	0	0	0	%100
2	M48	Z	0	0	0	%100
3	M53	X	0	0	0	%100
4	M53	Z	3.884	3.884	0	%100
5	M54	X	0	0	0	%100
6	M54	Z	3.884	3.884	0	%100
7	M62	X	0	0	0	%100
8	M62	Z	1.437	1.437	0	%100
9	M63	X	0	0	0	%100
10	M63	Z	1.602	1.602	0	%100
11	M65	X	0	0	0	%100
12	M65	Z	1.273	1.273	0	%100
13	M66	X	0	0	0	%100
14	M66	Z	.966	.966	0	%100
15	M67	X	0	0	0	%100
16	M67	Z	.966	.966	0	%100
17	M200	X	0	0	0	%100
18	M200	Z	3.554	3.554	0	%100
19	M186A	X	0	0	0	%100
20	M186A	Z	2.87	2.87	0	%100
21	MP4A	X	0	0	0	%100
22	MP4A	Z	2.87	2.87	0	%100
23	MP3A	X	0	0	0	%100
24	MP3A	Z	2.87	2.87	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	2.87	2.87	0	%100
27	MP1A	X	0	0	0	%100
28	MP1A	Z	2.87	2.87	0	%100
29	M113	X	0	0	0	%100
30	M113	Z	4.515	4.515	0	%100
31	M41	X	0	0	0	%100
32	M41	Z	3.034	3.034	0	%100
33	M44	X	0	0	0	%100
34	M44	Z	.971	.971	0	%100
35	M45	X	0	0	0	%100
36	M45	Z	.971	.971	0	%100
37	M53A	X	0	0	0	%100
38	M53A	Z	.359	.359	0	%100
39	M54A	X	0	0	0	%100
40	M54A	Z	.4	.4	0	%100
41	M56A	X	0	0	0	%100
42	M56A	Z	.318	.318	0	%100
43	M57A	X	0	0	0	%100
44	M57A	Z	3.794	3.794	0	%100
45	M58A	X	0	0	0	%100
46	M58A	Z	.932	.932	0	%100
47	M61A	X	0	0	0	%100
48	M61A	Z	1.637	1.637	0	%100
49	M65A	X	0	0	0	%100
50	M65A	Z	3.034	3.034	0	%100
51	M68	X	0	0	0	%100
52	M68	Z	.971	.971	0	%100
53	M69	X	0	0	0	%100
54	M69	Z	.971	.971	0	%100
55	M77	X	0	0	0	%100
56	M77	Z	.359	.359	0	%100
57	M78	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M78	Z	.4	.4	0 %100
59	M80	X	0	0	0 %100
60	M80	Z	.318	.318	0 %100
61	M81	X	0	0	0 %100
62	M81	Z	.932	.932	0 %100
63	M82	X	0	0	0 %100
64	M82	Z	3.794	3.794	0 %100
65	M85	X	0	0	0 %100
66	M85	Z	1.129	1.129	0 %100
67	M112A	X	0	0	0 %100
68	M112A	Z	.888	.888	0 %100
69	M117	X	0	0	0 %100
70	M117	Z	.717	.717	0 %100
71	MP4C	X	0	0	0 %100
72	MP4C	Z	2.87	2.87	0 %100
73	MP3C	X	0	0	0 %100
74	MP3C	Z	2.87	2.87	0 %100
75	MP2C	X	0	0	0 %100
76	MP2C	Z	2.87	2.87	0 %100
77	MP1C	X	0	0	0 %100
78	MP1C	Z	2.87	2.87	0 %100
79	M152	X	0	0	0 %100
80	M152	Z	.888	.888	0 %100
81	M157	X	0	0	0 %100
82	M157	Z	.717	.717	0 %100
83	MP4B	X	0	0	0 %100
84	MP4B	Z	2.87	2.87	0 %100
85	MP3B	X	0	0	0 %100
86	MP3B	Z	2.87	2.87	0 %100
87	MP2B	X	0	0	0 %100
88	MP2B	Z	2.87	2.87	0 %100
89	MP1B	X	0	0	0 %100
90	MP1B	Z	2.87	2.87	0 %100
91	M193	X	0	0	0 %100
92	M193	Z	2.87	2.87	0 %100
93	M224A	X	0	0	0 %100
94	M224A	Z	1.171	1.171	0 %100
95	M225A	X	0	0	0 %100
96	M225A	Z	1.171	1.171	0 %100
97	M226A	X	0	0	0 %100
98	M226A	Z	4.684	4.684	0 %100
99	M162	X	0	0	0 %100
100	M162	Z	2.622	2.622	0 %100
101	M125A	X	0	0	0 %100
102	M125A	Z	2.357	2.357	0 %100
103	M126	X	0	0	0 %100
104	M126	Z	2.357	2.357	0 %100
105	M127	X	0	0	0 %100
106	M127	Z	3.219	3.219	0 %100
107	M128	X	0	0	0 %100
108	M128	Z	.401	.401	0 %100
109	M129	X	0	0	0 %100
110	M129	Z	.401	.401	0 %100
111	M130	X	0	0	0 %100
112	M130	Z	3.219	3.219	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M48	X	-506	-506	0	%100
2	M48	Z	876	876	0	%100
3	M53	X	-1.457	-1.457	0	%100
4	M53	Z	2.523	2.523	0	%100
5	M54	X	-1.457	-1.457	0	%100
6	M54	Z	2.523	2.523	0	%100
7	M62	X	-539	-539	0	%100
8	M62	Z	934	934	0	%100
9	M63	X	-601	-601	0	%100
10	M63	Z	1.04	1.04	0	%100
11	M65	X	-477	-477	0	%100
12	M65	Z	827	827	0	%100
13	M66	X	-5.1e-5	-5.1e-5	0	%100
14	M66	Z	8.9e-5	8.9e-5	0	%100
15	M67	X	-1.431	-1.431	0	%100
16	M67	Z	2.479	2.479	0	%100
17	M200	X	-1.333	-1.333	0	%100
18	M200	Z	2.308	2.308	0	%100
19	M186A	X	-1.076	-1.076	0	%100
20	M186A	Z	1.864	1.864	0	%100
21	MP4A	X	-1.435	-1.435	0	%100
22	MP4A	Z	2.485	2.485	0	%100
23	MP3A	X	-1.435	-1.435	0	%100
24	MP3A	Z	2.485	2.485	0	%100
25	MP2A	X	-1.435	-1.435	0	%100
26	MP2A	Z	2.485	2.485	0	%100
27	MP1A	X	-1.435	-1.435	0	%100
28	MP1A	Z	2.485	2.485	0	%100
29	M113	X	-1.693	-1.693	0	%100
30	M113	Z	2.932	2.932	0	%100
31	M41	X	-506	-506	0	%100
32	M41	Z	876	876	0	%100
33	M44	X	-1.457	-1.457	0	%100
34	M44	Z	2.523	2.523	0	%100
35	M45	X	-1.457	-1.457	0	%100
36	M45	Z	2.523	2.523	0	%100
37	M53A	X	-539	-539	0	%100
38	M53A	Z	934	934	0	%100
39	M54A	X	-601	-601	0	%100
40	M54A	Z	1.04	1.04	0	%100
41	M56A	X	-477	-477	0	%100
42	M56A	Z	827	827	0	%100
43	M57A	X	-1.431	-1.431	0	%100
44	M57A	Z	2.479	2.479	0	%100
45	M58A	X	-5.1e-5	-5.1e-5	0	%100
46	M58A	Z	8.9e-5	8.9e-5	0	%100
47	M61A	X	-1.877	-1.877	0	%100
48	M61A	Z	3.252	3.252	0	%100
49	M65A	X	-2.023	-2.023	0	%100
50	M65A	Z	3.503	3.503	0	%100
51	M68	X	0	0	0	%100
52	M68	Z	0	0	0	%100
53	M69	X	0	0	0	%100
54	M69	Z	0	0	0	%100
55	M77	X	0	0	0	%100
56	M77	Z	0	0	0	%100
57	M78	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
58	M78	Z	0	0	0	%100
59	M80	X	0	0	0	%100
60	M80	Z	0	0	0	%100
61	M81	X	-1.414	-1.414	0	%100
62	M81	Z	2.45	2.45	0	%100
63	M82	X	-1.414	-1.414	0	%100
64	M82	Z	2.45	2.45	0	%100
65	M85	X	0	0	0	%100
66	M85	Z	0	0	0	%100
67	M112A	X	-1.333	-1.333	0	%100
68	M112A	Z	2.308	2.308	0	%100
69	M117	X	-1.076	-1.076	0	%100
70	M117	Z	1.864	1.864	0	%100
71	MP4C	X	-1.435	-1.435	0	%100
72	MP4C	Z	2.485	2.485	0	%100
73	MP3C	X	-1.435	-1.435	0	%100
74	MP3C	Z	2.485	2.485	0	%100
75	MP2C	X	-1.435	-1.435	0	%100
76	MP2C	Z	2.485	2.485	0	%100
77	MP1C	X	-1.435	-1.435	0	%100
78	MP1C	Z	2.485	2.485	0	%100
79	M152	X	0	0	0	%100
80	M152	Z	0	0	0	%100
81	M157	X	0	0	0	%100
82	M157	Z	0	0	0	%100
83	MP4B	X	-1.435	-1.435	0	%100
84	MP4B	Z	2.485	2.485	0	%100
85	MP3B	X	-1.435	-1.435	0	%100
86	MP3B	Z	2.485	2.485	0	%100
87	MP2B	X	-1.435	-1.435	0	%100
88	MP2B	Z	2.485	2.485	0	%100
89	MP1B	X	-1.435	-1.435	0	%100
90	MP1B	Z	2.485	2.485	0	%100
91	M193	X	-1.435	-1.435	0	%100
92	M193	Z	2.485	2.485	0	%100
93	M224A	X	-1.756	-1.756	0	%100
94	M224A	Z	3.042	3.042	0	%100
95	M225A	X	0	0	0	%100
96	M225A	Z	0	0	0	%100
97	M226A	X	-1.756	-1.756	0	%100
98	M226A	Z	3.042	3.042	0	%100
99	M162	X	-1.311	-1.311	0	%100
100	M162	Z	2.271	2.271	0	%100
101	M125A	X	-.383	-.383	0	%100
102	M125A	Z	.663	.663	0	%100
103	M126	X	-1.792	-1.792	0	%100
104	M126	Z	3.104	3.104	0	%100
105	M127	X	-1.792	-1.792	0	%100
106	M127	Z	3.104	3.104	0	%100
107	M128	X	-.383	-.383	0	%100
108	M128	Z	.663	.663	0	%100
109	M129	X	-.814	-.814	0	%100
110	M129	Z	1.41	1.41	0	%100
111	M130	X	-.814	-.814	0	%100
112	M130	Z	1.41	1.41	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	M48	X	-2.628	-2.628	0 %100
2	M48	Z	1.517	1.517	0 %100
3	M53	X	-.841	-.841	0 %100
4	M53	Z	.486	.486	0 %100
5	M54	X	-.841	-.841	0 %100
6	M54	Z	.486	.486	0 %100
7	M62	X	-.311	-.311	0 %100
8	M62	Z	.18	.18	0 %100
9	M63	X	-.347	-.347	0 %100
10	M63	Z	.2	.2	0 %100
11	M65	X	-.276	-.276	0 %100
12	M65	Z	.159	.159	0 %100
13	M66	X	-.807	-.807	0 %100
14	M66	Z	.466	.466	0 %100
15	M67	X	-3.286	-3.286	0 %100
16	M67	Z	1.897	1.897	0 %100
17	M200	X	-.769	-.769	0 %100
18	M200	Z	.444	.444	0 %100
19	M186A	X	-.621	-.621	0 %100
20	M186A	Z	.359	.359	0 %100
21	MP4A	X	-2.485	-2.485	0 %100
22	MP4A	Z	1.435	1.435	0 %100
23	MP3A	X	-2.485	-2.485	0 %100
24	MP3A	Z	1.435	1.435	0 %100
25	MP2A	X	-2.485	-2.485	0 %100
26	MP2A	Z	1.435	1.435	0 %100
27	MP1A	X	-2.485	-2.485	0 %100
28	MP1A	Z	1.435	1.435	0 %100
29	M113	X	-.977	-.977	0 %100
30	M113	Z	.564	.564	0 %100
31	M41	X	0	0	0 %100
32	M41	Z	0	0	0 %100
33	M44	X	-3.364	-3.364	0 %100
34	M44	Z	1.942	1.942	0 %100
35	M45	X	-3.364	-3.364	0 %100
36	M45	Z	1.942	1.942	0 %100
37	M53A	X	-1.245	-1.245	0 %100
38	M53A	Z	.719	.719	0 %100
39	M54A	X	-1.387	-1.387	0 %100
40	M54A	Z	.801	.801	0 %100
41	M56A	X	-1.102	-1.102	0 %100
42	M56A	Z	.636	.636	0 %100
43	M57A	X	-.836	-.836	0 %100
44	M57A	Z	.483	.483	0 %100
45	M58A	X	-.836	-.836	0 %100
46	M58A	Z	.483	.483	0 %100
47	M61A	X	-3.902	-3.902	0 %100
48	M61A	Z	2.253	2.253	0 %100
49	M65A	X	-2.628	-2.628	0 %100
50	M65A	Z	1.517	1.517	0 %100
51	M68	X	-.841	-.841	0 %100
52	M68	Z	.486	.486	0 %100
53	M69	X	-.841	-.841	0 %100
54	M69	Z	.486	.486	0 %100
55	M77	X	-.311	-.311	0 %100
56	M77	Z	.18	.18	0 %100
57	M78	X	-.347	-.347	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
58	M78	Z	.2	.2	0 %100
59	M80	X	-.276	-.276	0 %100
60	M80	Z	.159	.159	0 %100
61	M81	X	-3.286	-3.286	0 %100
62	M81	Z	1.897	1.897	0 %100
63	M82	X	-.807	-.807	0 %100
64	M82	Z	.466	.466	0 %100
65	M85	X	-.978	-.978	0 %100
66	M85	Z	.564	.564	0 %100
67	M112A	X	-3.077	-3.077	0 %100
68	M112A	Z	1.777	1.777	0 %100
69	M117	X	-2.485	-2.485	0 %100
70	M117	Z	1.435	1.435	0 %100
71	MP4C	X	-2.485	-2.485	0 %100
72	MP4C	Z	1.435	1.435	0 %100
73	MP3C	X	-2.485	-2.485	0 %100
74	MP3C	Z	1.435	1.435	0 %100
75	MP2C	X	-2.485	-2.485	0 %100
76	MP2C	Z	1.435	1.435	0 %100
77	MP1C	X	-2.485	-2.485	0 %100
78	MP1C	Z	1.435	1.435	0 %100
79	M152	X	-.769	-.769	0 %100
80	M152	Z	.444	.444	0 %100
81	M157	X	-.621	-.621	0 %100
82	M157	Z	.359	.359	0 %100
83	MP4B	X	-2.485	-2.485	0 %100
84	MP4B	Z	1.435	1.435	0 %100
85	MP3B	X	-2.485	-2.485	0 %100
86	MP3B	Z	1.435	1.435	0 %100
87	MP2B	X	-2.485	-2.485	0 %100
88	MP2B	Z	1.435	1.435	0 %100
89	MP1B	X	-2.485	-2.485	0 %100
90	MP1B	Z	1.435	1.435	0 %100
91	M193	X	-2.485	-2.485	0 %100
92	M193	Z	1.435	1.435	0 %100
93	M224A	X	-4.056	-4.056	0 %100
94	M224A	Z	2.342	2.342	0 %100
95	M225A	X	-1.014	-1.014	0 %100
96	M225A	Z	.585	.585	0 %100
97	M226A	X	-1.014	-1.014	0 %100
98	M226A	Z	.586	.586	0 %100
99	M162	X	-2.271	-2.271	0 %100
100	M162	Z	1.311	1.311	0 %100
101	M125A	X	-.347	-.347	0 %100
102	M125A	Z	.201	.201	0 %100
103	M126	X	-2.788	-2.788	0 %100
104	M126	Z	1.61	1.61	0 %100
105	M127	X	-2.041	-2.041	0 %100
106	M127	Z	1.179	1.179	0 %100
107	M128	X	-2.041	-2.041	0 %100
108	M128	Z	1.179	1.179	0 %100
109	M129	X	-2.788	-2.788	0 %100
110	M129	Z	1.61	1.61	0 %100
111	M130	X	-.347	-.347	0 %100
112	M130	Z	.201	.201	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	M48	X	-4.045	-4.045	0 %100
2	M48	Z	0	0	0 %100
3	M53	X	0	0	0 %100
4	M53	Z	0	0	0 %100
5	M54	X	0	0	0 %100
6	M54	Z	0	0	0 %100
7	M62	X	0	0	0 %100
8	M62	Z	0	0	0 %100
9	M63	X	0	0	0 %100
10	M63	Z	0	0	0 %100
11	M65	X	0	0	0 %100
12	M65	Z	0	0	0 %100
13	M66	X	-2.829	-2.829	0 %100
14	M66	Z	0	0	0 %100
15	M67	X	-2.829	-2.829	0 %100
16	M67	Z	0	0	0 %100
17	M200	X	0	0	0 %100
18	M200	Z	0	0	0 %100
19	M186A	X	0	0	0 %100
20	M186A	Z	0	0	0 %100
21	MP4A	X	-2.87	-2.87	0 %100
22	MP4A	Z	0	0	0 %100
23	MP3A	X	-2.87	-2.87	0 %100
24	MP3A	Z	0	0	0 %100
25	MP2A	X	-2.87	-2.87	0 %100
26	MP2A	Z	0	0	0 %100
27	MP1A	X	-2.87	-2.87	0 %100
28	MP1A	Z	0	0	0 %100
29	M113	X	0	0	0 %100
30	M113	Z	0	0	0 %100
31	M41	X	-1.011	-1.011	0 %100
32	M41	Z	0	0	0 %100
33	M44	X	-2.913	-2.913	0 %100
34	M44	Z	0	0	0 %100
35	M45	X	-2.913	-2.913	0 %100
36	M45	Z	0	0	0 %100
37	M53A	X	-1.078	-1.078	0 %100
38	M53A	Z	0	0	0 %100
39	M54A	X	-1.201	-1.201	0 %100
40	M54A	Z	0	0	0 %100
41	M56A	X	-.955	-.955	0 %100
42	M56A	Z	0	0	0 %100
43	M57A	X	-.000102	-.000102	0 %100
44	M57A	Z	0	0	0 %100
45	M58A	X	-2.863	-2.863	0 %100
46	M58A	Z	0	0	0 %100
47	M61A	X	-3.14	-3.14	0 %100
48	M61A	Z	0	0	0 %100
49	M65A	X	-1.011	-1.011	0 %100
50	M65A	Z	0	0	0 %100
51	M68	X	-2.913	-2.913	0 %100
52	M68	Z	0	0	0 %100
53	M69	X	-2.913	-2.913	0 %100
54	M69	Z	0	0	0 %100
55	M77	X	-1.078	-1.078	0 %100
56	M77	Z	0	0	0 %100
57	M78	X	-1.201	-1.201	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
58	M78	Z	0	0	0	%100
59	M80	X	-0.955	-0.955	0	%100
60	M80	Z	0	0	0	%100
61	M81	X	-2.863	-2.863	0	%100
62	M81	Z	0	0	0	%100
63	M82	X	-0.00102	-0.00102	0	%100
64	M82	Z	0	0	0	%100
65	M85	X	-3.386	-3.386	0	%100
66	M85	Z	0	0	0	%100
67	M112A	X	-2.665	-2.665	0	%100
68	M112A	Z	0	0	0	%100
69	M117	X	-2.152	-2.152	0	%100
70	M117	Z	0	0	0	%100
71	MP4C	X	-2.87	-2.87	0	%100
72	MP4C	Z	0	0	0	%100
73	MP3C	X	-2.87	-2.87	0	%100
74	MP3C	Z	0	0	0	%100
75	MP2C	X	-2.87	-2.87	0	%100
76	MP2C	Z	0	0	0	%100
77	MP1C	X	-2.87	-2.87	0	%100
78	MP1C	Z	0	0	0	%100
79	M152	X	-2.665	-2.665	0	%100
80	M152	Z	0	0	0	%100
81	M157	X	-2.152	-2.152	0	%100
82	M157	Z	0	0	0	%100
83	MP4B	X	-2.87	-2.87	0	%100
84	MP4B	Z	0	0	0	%100
85	MP3B	X	-2.87	-2.87	0	%100
86	MP3B	Z	0	0	0	%100
87	MP2B	X	-2.87	-2.87	0	%100
88	MP2B	Z	0	0	0	%100
89	MP1B	X	-2.87	-2.87	0	%100
90	MP1B	Z	0	0	0	%100
91	M193	X	-2.87	-2.87	0	%100
92	M193	Z	0	0	0	%100
93	M224A	X	-3.513	-3.513	0	%100
94	M224A	Z	0	0	0	%100
95	M225A	X	-3.513	-3.513	0	%100
96	M225A	Z	0	0	0	%100
97	M226A	X	0	0	0	%100
98	M226A	Z	0	0	0	%100
99	M162	X	-2.622	-2.622	0	%100
100	M162	Z	0	0	0	%100
101	M125A	X	-1.628	-1.628	0	%100
102	M125A	Z	0	0	0	%100
103	M126	X	-1.628	-1.628	0	%100
104	M126	Z	0	0	0	%100
105	M127	X	-0.766	-0.766	0	%100
106	M127	Z	0	0	0	%100
107	M128	X	-3.584	-3.584	0	%100
108	M128	Z	0	0	0	%100
109	M129	X	-3.584	-3.584	0	%100
110	M129	Z	0	0	0	%100
111	M130	X	-0.766	-0.766	0	%100
112	M130	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M48	X	-2.628	-2.628	0	%100
2	M48	Z	-1.517	-1.517	0	%100
3	M53	X	-.841	-.841	0	%100
4	M53	Z	-.486	-.486	0	%100
5	M54	X	-.841	-.841	0	%100
6	M54	Z	-.486	-.486	0	%100
7	M62	X	-.311	-.311	0	%100
8	M62	Z	-.18	-.18	0	%100
9	M63	X	-.347	-.347	0	%100
10	M63	Z	-.2	-.2	0	%100
11	M65	X	-.276	-.276	0	%100
12	M65	Z	-.159	-.159	0	%100
13	M66	X	-3.286	-3.286	0	%100
14	M66	Z	-1.897	-1.897	0	%100
15	M67	X	-.807	-.807	0	%100
16	M67	Z	-.466	-.466	0	%100
17	M200	X	-.769	-.769	0	%100
18	M200	Z	-.444	-.444	0	%100
19	M186A	X	-.621	-.621	0	%100
20	M186A	Z	-.359	-.359	0	%100
21	MP4A	X	-2.485	-2.485	0	%100
22	MP4A	Z	-1.435	-1.435	0	%100
23	MP3A	X	-2.485	-2.485	0	%100
24	MP3A	Z	-1.435	-1.435	0	%100
25	MP2A	X	-2.485	-2.485	0	%100
26	MP2A	Z	-1.435	-1.435	0	%100
27	MP1A	X	-2.485	-2.485	0	%100
28	MP1A	Z	-1.435	-1.435	0	%100
29	M113	X	-.978	-.978	0	%100
30	M113	Z	-.564	-.564	0	%100
31	M41	X	-2.628	-2.628	0	%100
32	M41	Z	-1.517	-1.517	0	%100
33	M44	X	-.841	-.841	0	%100
34	M44	Z	-.486	-.486	0	%100
35	M45	X	-.841	-.841	0	%100
36	M45	Z	-.486	-.486	0	%100
37	M53A	X	-.311	-.311	0	%100
38	M53A	Z	-.18	-.18	0	%100
39	M54A	X	-.347	-.347	0	%100
40	M54A	Z	-.2	-.2	0	%100
41	M56A	X	-.276	-.276	0	%100
42	M56A	Z	-.159	-.159	0	%100
43	M57A	X	-.807	-.807	0	%100
44	M57A	Z	-.466	-.466	0	%100
45	M58A	X	-3.286	-3.286	0	%100
46	M58A	Z	-1.897	-1.897	0	%100
47	M61A	X	-.885	-.885	0	%100
48	M61A	Z	-.511	-.511	0	%100
49	M65A	X	0	0	0	%100
50	M65A	Z	0	0	0	%100
51	M68	X	-3.364	-3.364	0	%100
52	M68	Z	-1.942	-1.942	0	%100
53	M69	X	-3.364	-3.364	0	%100
54	M69	Z	-1.942	-1.942	0	%100
55	M77	X	-1.245	-1.245	0	%100
56	M77	Z	-.719	-.719	0	%100
57	M78	X	-1.387	-1.387	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M78	Z	- .801	- .801	0 %100
59	M80	X	-1.102	-1.102	0 %100
60	M80	Z	- .636	- .636	0 %100
61	M81	X	- .836	- .836	0 %100
62	M81	Z	- .483	- .483	0 %100
63	M82	X	- .836	- .836	0 %100
64	M82	Z	- .483	- .483	0 %100
65	M85	X	-3.91	-3.91	0 %100
66	M85	Z	-2.257	-2.257	0 %100
67	M112A	X	- .769	- .769	0 %100
68	M112A	Z	- .444	- .444	0 %100
69	M117	X	- .621	- .621	0 %100
70	M117	Z	- .359	- .359	0 %100
71	MP4C	X	-2.485	-2.485	0 %100
72	MP4C	Z	-1.435	-1.435	0 %100
73	MP3C	X	-2.485	-2.485	0 %100
74	MP3C	Z	-1.435	-1.435	0 %100
75	MP2C	X	-2.485	-2.485	0 %100
76	MP2C	Z	-1.435	-1.435	0 %100
77	MP1C	X	-2.485	-2.485	0 %100
78	MP1C	Z	-1.435	-1.435	0 %100
79	M152	X	-3.077	-3.077	0 %100
80	M152	Z	-1.777	-1.777	0 %100
81	M157	X	-2.485	-2.485	0 %100
82	M157	Z	-1.435	-1.435	0 %100
83	MP4B	X	-2.485	-2.485	0 %100
84	MP4B	Z	-1.435	-1.435	0 %100
85	MP3B	X	-2.485	-2.485	0 %100
86	MP3B	Z	-1.435	-1.435	0 %100
87	MP2B	X	-2.485	-2.485	0 %100
88	MP2B	Z	-1.435	-1.435	0 %100
89	MP1B	X	-2.485	-2.485	0 %100
90	MP1B	Z	-1.435	-1.435	0 %100
91	M193	X	-2.485	-2.485	0 %100
92	M193	Z	-1.435	-1.435	0 %100
93	M224A	X	-1.014	-1.014	0 %100
94	M224A	Z	- .586	- .586	0 %100
95	M225A	X	-4.056	-4.056	0 %100
96	M225A	Z	-2.342	-2.342	0 %100
97	M226A	X	-1.014	-1.014	0 %100
98	M226A	Z	- .585	- .585	0 %100
99	M162	X	-2.271	-2.271	0 %100
100	M162	Z	-1.311	-1.311	0 %100
101	M125A	X	-2.788	-2.788	0 %100
102	M125A	Z	-1.61	-1.61	0 %100
103	M126	X	- .347	- .347	0 %100
104	M126	Z	- .201	- .201	0 %100
105	M127	X	- .347	- .347	0 %100
106	M127	Z	- .201	- .201	0 %100
107	M128	X	-2.788	-2.788	0 %100
108	M128	Z	-1.61	-1.61	0 %100
109	M129	X	-2.041	-2.041	0 %100
110	M129	Z	-1.179	-1.179	0 %100
111	M130	X	-2.041	-2.041	0 %100
112	M130	Z	-1.179	-1.179	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	M48	X	-506	-506	0 %100
2	M48	Z	-876	-876	0 %100
3	M53	X	-1.457	-1.457	0 %100
4	M53	Z	-2.523	-2.523	0 %100
5	M54	X	-1.457	-1.457	0 %100
6	M54	Z	-2.523	-2.523	0 %100
7	M62	X	-539	-539	0 %100
8	M62	Z	-934	-934	0 %100
9	M63	X	-601	-601	0 %100
10	M63	Z	-1.04	-1.04	0 %100
11	M65	X	-477	-477	0 %100
12	M65	Z	-827	-827	0 %100
13	M66	X	-1.431	-1.431	0 %100
14	M66	Z	-2.479	-2.479	0 %100
15	M67	X	-5.1e-5	-5.1e-5	0 %100
16	M67	Z	-8.9e-5	-8.9e-5	0 %100
17	M200	X	-1.333	-1.333	0 %100
18	M200	Z	-2.308	-2.308	0 %100
19	M186A	X	-1.076	-1.076	0 %100
20	M186A	Z	-1.864	-1.864	0 %100
21	MP4A	X	-1.435	-1.435	0 %100
22	MP4A	Z	-2.485	-2.485	0 %100
23	MP3A	X	-1.435	-1.435	0 %100
24	MP3A	Z	-2.485	-2.485	0 %100
25	MP2A	X	-1.435	-1.435	0 %100
26	MP2A	Z	-2.485	-2.485	0 %100
27	MP1A	X	-1.435	-1.435	0 %100
28	MP1A	Z	-2.485	-2.485	0 %100
29	M113	X	-1.693	-1.693	0 %100
30	M113	Z	-2.933	-2.933	0 %100
31	M41	X	-2.023	-2.023	0 %100
32	M41	Z	-3.503	-3.503	0 %100
33	M44	X	0	0	0 %100
34	M44	Z	0	0	0 %100
35	M45	X	0	0	0 %100
36	M45	Z	0	0	0 %100
37	M53A	X	0	0	0 %100
38	M53A	Z	0	0	0 %100
39	M54A	X	0	0	0 %100
40	M54A	Z	0	0	0 %100
41	M56A	X	0	0	0 %100
42	M56A	Z	0	0	0 %100
43	M57A	X	-1.414	-1.414	0 %100
44	M57A	Z	-2.45	-2.45	0 %100
45	M58A	X	-1.414	-1.414	0 %100
46	M58A	Z	-2.45	-2.45	0 %100
47	M61A	X	-135	-135	0 %100
48	M61A	Z	-234	-234	0 %100
49	M65A	X	-506	-506	0 %100
50	M65A	Z	-876	-876	0 %100
51	M68	X	-1.457	-1.457	0 %100
52	M68	Z	-2.523	-2.523	0 %100
53	M69	X	-1.457	-1.457	0 %100
54	M69	Z	-2.523	-2.523	0 %100
55	M77	X	-539	-539	0 %100
56	M77	Z	-934	-934	0 %100
57	M78	X	-601	-601	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M78	Z	-1.04	-1.04	0 %100
59	M80	X	-.477	-.477	0 %100
60	M80	Z	-.827	-.827	0 %100
61	M81	X	-5.1e-5	-5.1e-5	0 %100
62	M81	Z	-8.9e-5	-8.9e-5	0 %100
63	M82	X	-1.431	-1.431	0 %100
64	M82	Z	-2.479	-2.479	0 %100
65	M85	X	-1.693	-1.693	0 %100
66	M85	Z	-2.932	-2.932	0 %100
67	M112A	X	0	0	0 %100
68	M112A	Z	0	0	0 %100
69	M117	X	0	0	0 %100
70	M117	Z	0	0	0 %100
71	MP4C	X	-1.435	-1.435	0 %100
72	MP4C	Z	-2.485	-2.485	0 %100
73	MP3C	X	-1.435	-1.435	0 %100
74	MP3C	Z	-2.485	-2.485	0 %100
75	MP2C	X	-1.435	-1.435	0 %100
76	MP2C	Z	-2.485	-2.485	0 %100
77	MP1C	X	-1.435	-1.435	0 %100
78	MP1C	Z	-2.485	-2.485	0 %100
79	M152	X	-1.333	-1.333	0 %100
80	M152	Z	-2.308	-2.308	0 %100
81	M157	X	-1.076	-1.076	0 %100
82	M157	Z	-1.864	-1.864	0 %100
83	MP4B	X	-1.435	-1.435	0 %100
84	MP4B	Z	-2.485	-2.485	0 %100
85	MP3B	X	-1.435	-1.435	0 %100
86	MP3B	Z	-2.485	-2.485	0 %100
87	MP2B	X	-1.435	-1.435	0 %100
88	MP2B	Z	-2.485	-2.485	0 %100
89	MP1B	X	-1.435	-1.435	0 %100
90	MP1B	Z	-2.485	-2.485	0 %100
91	M193	X	-1.435	-1.435	0 %100
92	M193	Z	-2.485	-2.485	0 %100
93	M224A	X	0	0	0 %100
94	M224A	Z	0	0	0 %100
95	M225A	X	-1.756	-1.756	0 %100
96	M225A	Z	-3.042	-3.042	0 %100
97	M226A	X	-1.756	-1.756	0 %100
98	M226A	Z	-3.042	-3.042	0 %100
99	M162	X	-1.311	-1.311	0 %100
100	M162	Z	-2.271	-2.271	0 %100
101	M125A	X	-1.792	-1.792	0 %100
102	M125A	Z	-3.104	-3.104	0 %100
103	M126	X	-.383	-.383	0 %100
104	M126	Z	-.663	-.663	0 %100
105	M127	X	-.814	-.814	0 %100
106	M127	Z	-1.41	-1.41	0 %100
107	M128	X	-.814	-.814	0 %100
108	M128	Z	-1.41	-1.41	0 %100
109	M129	X	-.383	-.383	0 %100
110	M129	Z	-.663	-.663	0 %100
111	M130	X	-1.792	-1.792	0 %100
112	M130	Z	-3.104	-3.104	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	M48	X	0	0	0	%100
2	M48	Z	0	0	0	%100
3	M53	X	0	0	0	%100
4	M53	Z	-1.013	-1.013	0	%100
5	M54	X	0	0	0	%100
6	M54	Z	-1.013	-1.013	0	%100
7	M62	X	0	0	0	%100
8	M62	Z	-.115	-.115	0	%100
9	M63	X	0	0	0	%100
10	M63	Z	-.128	-.128	0	%100
11	M65	X	0	0	0	%100
12	M65	Z	-.102	-.102	0	%100
13	M66	X	0	0	0	%100
14	M66	Z	-.231	-.231	0	%100
15	M67	X	0	0	0	%100
16	M67	Z	-.231	-.231	0	%100
17	M200	X	0	0	0	%100
18	M200	Z	-.766	-.766	0	%100
19	M186A	X	0	0	0	%100
20	M186A	Z	-.52	-.52	0	%100
21	MP4A	X	0	0	0	%100
22	MP4A	Z	-.52	-.52	0	%100
23	MP3A	X	0	0	0	%100
24	MP3A	Z	-.52	-.52	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	-.52	-.52	0	%100
27	MP1A	X	0	0	0	%100
28	MP1A	Z	-.52	-.52	0	%100
29	M113	X	0	0	0	%100
30	M113	Z	-1.313	-1.313	0	%100
31	M41	X	0	0	0	%100
32	M41	Z	-.707	-.707	0	%100
33	M44	X	0	0	0	%100
34	M44	Z	-.253	-.253	0	%100
35	M45	X	0	0	0	%100
36	M45	Z	-.253	-.253	0	%100
37	M53A	X	0	0	0	%100
38	M53A	Z	-.029	-.029	0	%100
39	M54A	X	0	0	0	%100
40	M54A	Z	-.032	-.032	0	%100
41	M56A	X	0	0	0	%100
42	M56A	Z	-.026	-.026	0	%100
43	M57A	X	0	0	0	%100
44	M57A	Z	-.91	-.91	0	%100
45	M58A	X	0	0	0	%100
46	M58A	Z	-.223	-.223	0	%100
47	M61A	X	0	0	0	%100
48	M61A	Z	-.474	-.474	0	%100
49	M65A	X	0	0	0	%100
50	M65A	Z	-.707	-.707	0	%100
51	M68	X	0	0	0	%100
52	M68	Z	-.253	-.253	0	%100
53	M69	X	0	0	0	%100
54	M69	Z	-.253	-.253	0	%100
55	M77	X	0	0	0	%100
56	M77	Z	-.029	-.029	0	%100
57	M78	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M78	Z	-0.032	-0.032	0 %100
59	M80	X	0	0	0 %100
60	M80	Z	-0.026	-0.026	0 %100
61	M81	X	0	0	0 %100
62	M81	Z	-0.223	-0.223	0 %100
63	M82	X	0	0	0 %100
64	M82	Z	-0.91	-0.91	0 %100
65	M85	X	0	0	0 %100
66	M85	Z	-0.328	-0.328	0 %100
67	M112A	X	0	0	0 %100
68	M112A	Z	-0.192	-0.192	0 %100
69	M117	X	0	0	0 %100
70	M117	Z	-0.13	-0.13	0 %100
71	MP4C	X	0	0	0 %100
72	MP4C	Z	-0.52	-0.52	0 %100
73	MP3C	X	0	0	0 %100
74	MP3C	Z	-0.52	-0.52	0 %100
75	MP2C	X	0	0	0 %100
76	MP2C	Z	-0.52	-0.52	0 %100
77	MP1C	X	0	0	0 %100
78	MP1C	Z	-0.52	-0.52	0 %100
79	M152	X	0	0	0 %100
80	M152	Z	-0.192	-0.192	0 %100
81	M157	X	0	0	0 %100
82	M157	Z	-0.13	-0.13	0 %100
83	MP4B	X	0	0	0 %100
84	MP4B	Z	-0.52	-0.52	0 %100
85	MP3B	X	0	0	0 %100
86	MP3B	Z	-0.52	-0.52	0 %100
87	MP2B	X	0	0	0 %100
88	MP2B	Z	-0.52	-0.52	0 %100
89	MP1B	X	0	0	0 %100
90	MP1B	Z	-0.52	-0.52	0 %100
91	M193	X	0	0	0 %100
92	M193	Z	-0.52	-0.52	0 %100
93	M224A	X	0	0	0 %100
94	M224A	Z	-0.334	-0.334	0 %100
95	M225A	X	0	0	0 %100
96	M225A	Z	-0.334	-0.334	0 %100
97	M226A	X	0	0	0 %100
98	M226A	Z	-1.338	-1.338	0 %100
99	M162	X	0	0	0 %100
100	M162	Z	-0.474	-0.474	0 %100
101	M125A	X	0	0	0 %100
102	M125A	Z	-0.54	-0.54	0 %100
103	M126	X	0	0	0 %100
104	M126	Z	-0.54	-0.54	0 %100
105	M127	X	0	0	0 %100
106	M127	Z	-0.737	-0.737	0 %100
107	M128	X	0	0	0 %100
108	M128	Z	-0.092	-0.092	0 %100
109	M129	X	0	0	0 %100
110	M129	Z	-0.092	-0.092	0 %100
111	M130	X	0	0	0 %100
112	M130	Z	-0.737	-0.737	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M48	X	.118	.118	0	%100
2	M48	Z	-.204	-.204	0	%100
3	M53	X	.38	.38	0	%100
4	M53	Z	-.658	-.658	0	%100
5	M54	X	.38	.38	0	%100
6	M54	Z	-.658	-.658	0	%100
7	M62	X	.043	.043	0	%100
8	M62	Z	-.075	-.075	0	%100
9	M63	X	.048	.048	0	%100
10	M63	Z	-.083	-.083	0	%100
11	M65	X	.038	.038	0	%100
12	M65	Z	-.067	-.067	0	%100
13	M66	X	1.2e-5	1.2e-5	0	%100
14	M66	Z	-2.1e-5	-2.1e-5	0	%100
15	M67	X	.343	.343	0	%100
16	M67	Z	-.594	-.594	0	%100
17	M200	X	.287	.287	0	%100
18	M200	Z	-.498	-.498	0	%100
19	M186A	X	.195	.195	0	%100
20	M186A	Z	-.338	-.338	0	%100
21	MP4A	X	.26	.26	0	%100
22	MP4A	Z	-.45	-.45	0	%100
23	MP3A	X	.26	.26	0	%100
24	MP3A	Z	-.45	-.45	0	%100
25	MP2A	X	.26	.26	0	%100
26	MP2A	Z	-.45	-.45	0	%100
27	MP1A	X	.26	.26	0	%100
28	MP1A	Z	-.45	-.45	0	%100
29	M113	X	.492	.492	0	%100
30	M113	Z	-.853	-.853	0	%100
31	M41	X	.118	.118	0	%100
32	M41	Z	-.204	-.204	0	%100
33	M44	X	.38	.38	0	%100
34	M44	Z	-.658	-.658	0	%100
35	M45	X	.38	.38	0	%100
36	M45	Z	-.658	-.658	0	%100
37	M53A	X	.043	.043	0	%100
38	M53A	Z	-.075	-.075	0	%100
39	M54A	X	.048	.048	0	%100
40	M54A	Z	-.083	-.083	0	%100
41	M56A	X	.038	.038	0	%100
42	M56A	Z	-.067	-.067	0	%100
43	M57A	X	.343	.343	0	%100
44	M57A	Z	-.594	-.594	0	%100
45	M58A	X	1.2e-5	1.2e-5	0	%100
46	M58A	Z	-2.1e-5	-2.1e-5	0	%100
47	M61A	X	.544	.544	0	%100
48	M61A	Z	-.941	-.941	0	%100
49	M65A	X	.472	.472	0	%100
50	M65A	Z	-.817	-.817	0	%100
51	M68	X	0	0	0	%100
52	M68	Z	0	0	0	%100
53	M69	X	0	0	0	%100
54	M69	Z	0	0	0	%100
55	M77	X	0	0	0	%100
56	M77	Z	0	0	0	%100
57	M78	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
58	M78	Z	0	0	0	%100
59	M80	X	0	0	0	%100
60	M80	Z	0	0	0	%100
61	M81	X	.339	.339	0	%100
62	M81	Z	-.587	-.587	0	%100
63	M82	X	.339	.339	0	%100
64	M82	Z	-.587	-.587	0	%100
65	M85	X	0	0	0	%100
66	M85	Z	0	0	0	%100
67	M112A	X	.287	.287	0	%100
68	M112A	Z	-.498	-.498	0	%100
69	M117	X	.195	.195	0	%100
70	M117	Z	-.338	-.338	0	%100
71	MP4C	X	.26	.26	0	%100
72	MP4C	Z	-.45	-.45	0	%100
73	MP3C	X	.26	.26	0	%100
74	MP3C	Z	-.45	-.45	0	%100
75	MP2C	X	.26	.26	0	%100
76	MP2C	Z	-.45	-.45	0	%100
77	MP1C	X	.26	.26	0	%100
78	MP1C	Z	-.45	-.45	0	%100
79	M152	X	0	0	0	%100
80	M152	Z	0	0	0	%100
81	M157	X	0	0	0	%100
82	M157	Z	0	0	0	%100
83	MP4B	X	.26	.26	0	%100
84	MP4B	Z	-.45	-.45	0	%100
85	MP3B	X	.26	.26	0	%100
86	MP3B	Z	-.45	-.45	0	%100
87	MP2B	X	.26	.26	0	%100
88	MP2B	Z	-.45	-.45	0	%100
89	MP1B	X	.26	.26	0	%100
90	MP1B	Z	-.45	-.45	0	%100
91	M193	X	.26	.26	0	%100
92	M193	Z	-.45	-.45	0	%100
93	M224A	X	.502	.502	0	%100
94	M224A	Z	-.869	-.869	0	%100
95	M225A	X	0	0	0	%100
96	M225A	Z	0	0	0	%100
97	M226A	X	.502	.502	0	%100
98	M226A	Z	-.869	-.869	0	%100
99	M162	X	.237	.237	0	%100
100	M162	Z	-.41	-.41	0	%100
101	M125A	X	.088	.088	0	%100
102	M125A	Z	-.152	-.152	0	%100
103	M126	X	.41	.41	0	%100
104	M126	Z	-.711	-.711	0	%100
105	M127	X	.41	.41	0	%100
106	M127	Z	-.711	-.711	0	%100
107	M128	X	.088	.088	0	%100
108	M128	Z	-.152	-.152	0	%100
109	M129	X	.186	.186	0	%100
110	M129	Z	-.323	-.323	0	%100
111	M130	X	.186	.186	0	%100
112	M130	Z	-.323	-.323	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M48	X	.613	.613	0	%100
2	M48	Z	-.354	-.354	0	%100
3	M53	X	.219	.219	0	%100
4	M53	Z	-.127	-.127	0	%100
5	M54	X	.219	.219	0	%100
6	M54	Z	-.127	-.127	0	%100
7	M62	X	.025	.025	0	%100
8	M62	Z	-.014	-.014	0	%100
9	M63	X	.028	.028	0	%100
10	M63	Z	-.016	-.016	0	%100
11	M65	X	.022	.022	0	%100
12	M65	Z	-.013	-.013	0	%100
13	M66	X	.193	.193	0	%100
14	M66	Z	-.112	-.112	0	%100
15	M67	X	.788	.788	0	%100
16	M67	Z	-.455	-.455	0	%100
17	M200	X	.166	.166	0	%100
18	M200	Z	-.096	-.096	0	%100
19	M186A	X	.113	.113	0	%100
20	M186A	Z	-.065	-.065	0	%100
21	MP4A	X	.45	.45	0	%100
22	MP4A	Z	-.26	-.26	0	%100
23	MP3A	X	.45	.45	0	%100
24	MP3A	Z	-.26	-.26	0	%100
25	MP2A	X	.45	.45	0	%100
26	MP2A	Z	-.26	-.26	0	%100
27	MP1A	X	.45	.45	0	%100
28	MP1A	Z	-.26	-.26	0	%100
29	M113	X	.284	.284	0	%100
30	M113	Z	-.164	-.164	0	%100
31	M41	X	0	0	0	%100
32	M41	Z	0	0	0	%100
33	M44	X	.878	.878	0	%100
34	M44	Z	-.507	-.507	0	%100
35	M45	X	.878	.878	0	%100
36	M45	Z	-.507	-.507	0	%100
37	M53A	X	.1	.1	0	%100
38	M53A	Z	-.058	-.058	0	%100
39	M54A	X	.111	.111	0	%100
40	M54A	Z	-.064	-.064	0	%100
41	M56A	X	.089	.089	0	%100
42	M56A	Z	-.051	-.051	0	%100
43	M57A	X	.2	.2	0	%100
44	M57A	Z	-.116	-.116	0	%100
45	M58A	X	.2	.2	0	%100
46	M58A	Z	-.116	-.116	0	%100
47	M61A	X	1.13	1.13	0	%100
48	M61A	Z	-.652	-.652	0	%100
49	M65A	X	.613	.613	0	%100
50	M65A	Z	-.354	-.354	0	%100
51	M68	X	.219	.219	0	%100
52	M68	Z	-.127	-.127	0	%100
53	M69	X	.219	.219	0	%100
54	M69	Z	-.127	-.127	0	%100
55	M77	X	.025	.025	0	%100
56	M77	Z	-.014	-.014	0	%100
57	M78	X	.028	.028	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M78	Z	-.016	-.016	0 %100
59	M80	X	.022	.022	0 %100
60	M80	Z	-.013	-.013	0 %100
61	M81	X	.788	.788	0 %100
62	M81	Z	-.455	-.455	0 %100
63	M82	X	.193	.193	0 %100
64	M82	Z	-.112	-.112	0 %100
65	M85	X	.284	.284	0 %100
66	M85	Z	-.164	-.164	0 %100
67	M112A	X	.663	.663	0 %100
68	M112A	Z	-.383	-.383	0 %100
69	M117	X	.45	.45	0 %100
70	M117	Z	-.26	-.26	0 %100
71	MP4C	X	.45	.45	0 %100
72	MP4C	Z	-.26	-.26	0 %100
73	MP3C	X	.45	.45	0 %100
74	MP3C	Z	-.26	-.26	0 %100
75	MP2C	X	.45	.45	0 %100
76	MP2C	Z	-.26	-.26	0 %100
77	MP1C	X	.45	.45	0 %100
78	MP1C	Z	-.26	-.26	0 %100
79	M152	X	.166	.166	0 %100
80	M152	Z	-.096	-.096	0 %100
81	M157	X	.113	.113	0 %100
82	M157	Z	-.065	-.065	0 %100
83	MP4B	X	.45	.45	0 %100
84	MP4B	Z	-.26	-.26	0 %100
85	MP3B	X	.45	.45	0 %100
86	MP3B	Z	-.26	-.26	0 %100
87	MP2B	X	.45	.45	0 %100
88	MP2B	Z	-.26	-.26	0 %100
89	MP1B	X	.45	.45	0 %100
90	MP1B	Z	-.26	-.26	0 %100
91	M193	X	.45	.45	0 %100
92	M193	Z	-.26	-.26	0 %100
93	M224A	X	1.158	1.158	0 %100
94	M224A	Z	-.669	-.669	0 %100
95	M225A	X	.29	.29	0 %100
96	M225A	Z	-.167	-.167	0 %100
97	M226A	X	.29	.29	0 %100
98	M226A	Z	-.167	-.167	0 %100
99	M162	X	.41	.41	0 %100
100	M162	Z	-.237	-.237	0 %100
101	M125A	X	.08	.08	0 %100
102	M125A	Z	-.046	-.046	0 %100
103	M126	X	.638	.638	0 %100
104	M126	Z	-.369	-.369	0 %100
105	M127	X	.467	.467	0 %100
106	M127	Z	-.27	-.27	0 %100
107	M128	X	.467	.467	0 %100
108	M128	Z	-.27	-.27	0 %100
109	M129	X	.638	.638	0 %100
110	M129	Z	-.369	-.369	0 %100
111	M130	X	.08	.08	0 %100
112	M130	Z	-.046	-.046	0 %100



Company : Maser Consulting
 Designer : AE
 Job Number : Project No. 10069083
 Model Name : 468035-VZW_MT_LO_H

June 10, 2021
 10:30 AM
 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	M48	X	.943	.943	0 %100
2	M48	Z	0	0	0 %100
3	M53	X	0	0	0 %100
4	M53	Z	0	0	0 %100
5	M54	X	0	0	0 %100
6	M54	Z	0	0	0 %100
7	M62	X	0	0	0 %100
8	M62	Z	0	0	0 %100
9	M63	X	0	0	0 %100
10	M63	Z	0	0	0 %100
11	M65	X	0	0	0 %100
12	M65	Z	0	0	0 %100
13	M66	X	.678	.678	0 %100
14	M66	Z	0	0	0 %100
15	M67	X	.678	.678	0 %100
16	M67	Z	0	0	0 %100
17	M200	X	0	0	0 %100
18	M200	Z	0	0	0 %100
19	M186A	X	0	0	0 %100
20	M186A	Z	0	0	0 %100
21	MP4A	X	.52	.52	0 %100
22	MP4A	Z	0	0	0 %100
23	MP3A	X	.52	.52	0 %100
24	MP3A	Z	0	0	0 %100
25	MP2A	X	.52	.52	0 %100
26	MP2A	Z	0	0	0 %100
27	MP1A	X	.52	.52	0 %100
28	MP1A	Z	0	0	0 %100
29	M113	X	0	0	0 %100
30	M113	Z	0	0	0 %100
31	M41	X	.236	.236	0 %100
32	M41	Z	0	0	0 %100
33	M44	X	.76	.76	0 %100
34	M44	Z	0	0	0 %100
35	M45	X	.76	.76	0 %100
36	M45	Z	0	0	0 %100
37	M53A	X	.087	.087	0 %100
38	M53A	Z	0	0	0 %100
39	M54A	X	.096	.096	0 %100
40	M54A	Z	0	0	0 %100
41	M56A	X	.077	.077	0 %100
42	M56A	Z	0	0	0 %100
43	M57A	X	2.5e-5	2.5e-5	0 %100
44	M57A	Z	0	0	0 %100
45	M58A	X	.686	.686	0 %100
46	M58A	Z	0	0	0 %100
47	M61A	X	.909	.909	0 %100
48	M61A	Z	0	0	0 %100
49	M65A	X	.236	.236	0 %100
50	M65A	Z	0	0	0 %100
51	M68	X	.76	.76	0 %100
52	M68	Z	0	0	0 %100
53	M69	X	.76	.76	0 %100
54	M69	Z	0	0	0 %100
55	M77	X	.087	.087	0 %100
56	M77	Z	0	0	0 %100
57	M78	X	.096	.096	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
58	M78	Z	0	0	0	%100
59	M80	X	.077	.077	0	%100
60	M80	Z	0	0	0	%100
61	M81	X	.686	.686	0	%100
62	M81	Z	0	0	0	%100
63	M82	X	2.5e-5	2.5e-5	0	%100
64	M82	Z	0	0	0	%100
65	M85	X	.985	.985	0	%100
66	M85	Z	0	0	0	%100
67	M112A	X	.575	.575	0	%100
68	M112A	Z	0	0	0	%100
69	M117	X	.39	.39	0	%100
70	M117	Z	0	0	0	%100
71	MP4C	X	.52	.52	0	%100
72	MP4C	Z	0	0	0	%100
73	MP3C	X	.52	.52	0	%100
74	MP3C	Z	0	0	0	%100
75	MP2C	X	.52	.52	0	%100
76	MP2C	Z	0	0	0	%100
77	MP1C	X	.52	.52	0	%100
78	MP1C	Z	0	0	0	%100
79	M152	X	.575	.575	0	%100
80	M152	Z	0	0	0	%100
81	M157	X	.39	.39	0	%100
82	M157	Z	0	0	0	%100
83	MP4B	X	.52	.52	0	%100
84	MP4B	Z	0	0	0	%100
85	MP3B	X	.52	.52	0	%100
86	MP3B	Z	0	0	0	%100
87	MP2B	X	.52	.52	0	%100
88	MP2B	Z	0	0	0	%100
89	MP1B	X	.52	.52	0	%100
90	MP1B	Z	0	0	0	%100
91	M193	X	.52	.52	0	%100
92	M193	Z	0	0	0	%100
93	M224A	X	1.003	1.003	0	%100
94	M224A	Z	0	0	0	%100
95	M225A	X	1.003	1.003	0	%100
96	M225A	Z	0	0	0	%100
97	M226A	X	0	0	0	%100
98	M226A	Z	0	0	0	%100
99	M162	X	.474	.474	0	%100
100	M162	Z	0	0	0	%100
101	M125A	X	.373	.373	0	%100
102	M125A	Z	0	0	0	%100
103	M126	X	.373	.373	0	%100
104	M126	Z	0	0	0	%100
105	M127	X	.175	.175	0	%100
106	M127	Z	0	0	0	%100
107	M128	X	.821	.821	0	%100
108	M128	Z	0	0	0	%100
109	M129	X	.821	.821	0	%100
110	M129	Z	0	0	0	%100
111	M130	X	.175	.175	0	%100
112	M130	Z	0	0	0	%100



Company : Maser Consulting
 Designer : AE
 Job Number : Project No. 10069083
 Model Name : 468035-VZW_MT_LO_H

June 10, 2021
 10:30 AM
 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	M48	X	.613	.613	0	%100
2	M48	Z	.354	.354	0	%100
3	M53	X	.219	.219	0	%100
4	M53	Z	.127	.127	0	%100
5	M54	X	.219	.219	0	%100
6	M54	Z	.127	.127	0	%100
7	M62	X	.025	.025	0	%100
8	M62	Z	.014	.014	0	%100
9	M63	X	.028	.028	0	%100
10	M63	Z	.016	.016	0	%100
11	M65	X	.022	.022	0	%100
12	M65	Z	.013	.013	0	%100
13	M66	X	.788	.788	0	%100
14	M66	Z	.455	.455	0	%100
15	M67	X	.193	.193	0	%100
16	M67	Z	.112	.112	0	%100
17	M200	X	.166	.166	0	%100
18	M200	Z	.096	.096	0	%100
19	M186A	X	.113	.113	0	%100
20	M186A	Z	.065	.065	0	%100
21	MP4A	X	.45	.45	0	%100
22	MP4A	Z	.26	.26	0	%100
23	MP3A	X	.45	.45	0	%100
24	MP3A	Z	.26	.26	0	%100
25	MP2A	X	.45	.45	0	%100
26	MP2A	Z	.26	.26	0	%100
27	MP1A	X	.45	.45	0	%100
28	MP1A	Z	.26	.26	0	%100
29	M113	X	.284	.284	0	%100
30	M113	Z	.164	.164	0	%100
31	M41	X	.613	.613	0	%100
32	M41	Z	.354	.354	0	%100
33	M44	X	.219	.219	0	%100
34	M44	Z	.127	.127	0	%100
35	M45	X	.219	.219	0	%100
36	M45	Z	.127	.127	0	%100
37	M53A	X	.025	.025	0	%100
38	M53A	Z	.014	.014	0	%100
39	M54A	X	.028	.028	0	%100
40	M54A	Z	.016	.016	0	%100
41	M56A	X	.022	.022	0	%100
42	M56A	Z	.013	.013	0	%100
43	M57A	X	.193	.193	0	%100
44	M57A	Z	.112	.112	0	%100
45	M58A	X	.788	.788	0	%100
46	M58A	Z	.455	.455	0	%100
47	M61A	X	.256	.256	0	%100
48	M61A	Z	.148	.148	0	%100
49	M65A	X	0	0	0	%100
50	M65A	Z	0	0	0	%100
51	M68	X	.878	.878	0	%100
52	M68	Z	.507	.507	0	%100
53	M69	X	.878	.878	0	%100
54	M69	Z	.507	.507	0	%100
55	M77	X	.1	.1	0	%100
56	M77	Z	.058	.058	0	%100
57	M78	X	.111	.111	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
58	M78	Z	.064	.064	0 %100
59	M80	X	.089	.089	0 %100
60	M80	Z	.051	.051	0 %100
61	M81	X	.2	.2	0 %100
62	M81	Z	.116	.116	0 %100
63	M82	X	.2	.2	0 %100
64	M82	Z	.116	.116	0 %100
65	M85	X	1.137	1.137	0 %100
66	M85	Z	.657	.657	0 %100
67	M112A	X	.166	.166	0 %100
68	M112A	Z	.096	.096	0 %100
69	M117	X	.113	.113	0 %100
70	M117	Z	.065	.065	0 %100
71	MP4C	X	.45	.45	0 %100
72	MP4C	Z	.26	.26	0 %100
73	MP3C	X	.45	.45	0 %100
74	MP3C	Z	.26	.26	0 %100
75	MP2C	X	.45	.45	0 %100
76	MP2C	Z	.26	.26	0 %100
77	MP1C	X	.45	.45	0 %100
78	MP1C	Z	.26	.26	0 %100
79	M152	X	.663	.663	0 %100
80	M152	Z	.383	.383	0 %100
81	M157	X	.45	.45	0 %100
82	M157	Z	.26	.26	0 %100
83	MP4B	X	.45	.45	0 %100
84	MP4B	Z	.26	.26	0 %100
85	MP3B	X	.45	.45	0 %100
86	MP3B	Z	.26	.26	0 %100
87	MP2B	X	.45	.45	0 %100
88	MP2B	Z	.26	.26	0 %100
89	MP1B	X	.45	.45	0 %100
90	MP1B	Z	.26	.26	0 %100
91	M193	X	.45	.45	0 %100
92	M193	Z	.26	.26	0 %100
93	M224A	X	.29	.29	0 %100
94	M224A	Z	.167	.167	0 %100
95	M225A	X	1.158	1.158	0 %100
96	M225A	Z	.669	.669	0 %100
97	M226A	X	.29	.29	0 %100
98	M226A	Z	.167	.167	0 %100
99	M162	X	.41	.41	0 %100
100	M162	Z	.237	.237	0 %100
101	M125A	X	.638	.638	0 %100
102	M125A	Z	.369	.369	0 %100
103	M126	X	.08	.08	0 %100
104	M126	Z	.046	.046	0 %100
105	M127	X	.08	.08	0 %100
106	M127	Z	.046	.046	0 %100
107	M128	X	.638	.638	0 %100
108	M128	Z	.369	.369	0 %100
109	M129	X	.467	.467	0 %100
110	M129	Z	.27	.27	0 %100
111	M130	X	.467	.467	0 %100
112	M130	Z	.27	.27	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	M48	X	.118	.118	0	%100
2	M48	Z	.204	.204	0	%100
3	M53	X	.38	.38	0	%100
4	M53	Z	.658	.658	0	%100
5	M54	X	.38	.38	0	%100
6	M54	Z	.658	.658	0	%100
7	M62	X	.043	.043	0	%100
8	M62	Z	.075	.075	0	%100
9	M63	X	.048	.048	0	%100
10	M63	Z	.083	.083	0	%100
11	M65	X	.038	.038	0	%100
12	M65	Z	.067	.067	0	%100
13	M66	X	.343	.343	0	%100
14	M66	Z	.594	.594	0	%100
15	M67	X	1.2e-5	1.2e-5	0	%100
16	M67	Z	2.1e-5	2.1e-5	0	%100
17	M200	X	.287	.287	0	%100
18	M200	Z	.498	.498	0	%100
19	M186A	X	.195	.195	0	%100
20	M186A	Z	.338	.338	0	%100
21	MP4A	X	.26	.26	0	%100
22	MP4A	Z	.45	.45	0	%100
23	MP3A	X	.26	.26	0	%100
24	MP3A	Z	.45	.45	0	%100
25	MP2A	X	.26	.26	0	%100
26	MP2A	Z	.45	.45	0	%100
27	MP1A	X	.26	.26	0	%100
28	MP1A	Z	.45	.45	0	%100
29	M113	X	.492	.492	0	%100
30	M113	Z	.853	.853	0	%100
31	M41	X	.472	.472	0	%100
32	M41	Z	.817	.817	0	%100
33	M44	X	0	0	0	%100
34	M44	Z	0	0	0	%100
35	M45	X	0	0	0	%100
36	M45	Z	0	0	0	%100
37	M53A	X	0	0	0	%100
38	M53A	Z	0	0	0	%100
39	M54A	X	0	0	0	%100
40	M54A	Z	0	0	0	%100
41	M56A	X	0	0	0	%100
42	M56A	Z	0	0	0	%100
43	M57A	X	.339	.339	0	%100
44	M57A	Z	.587	.587	0	%100
45	M58A	X	.339	.339	0	%100
46	M58A	Z	.587	.587	0	%100
47	M61A	X	.039	.039	0	%100
48	M61A	Z	.068	.068	0	%100
49	M65A	X	.118	.118	0	%100
50	M65A	Z	.204	.204	0	%100
51	M68	X	.38	.38	0	%100
52	M68	Z	.658	.658	0	%100
53	M69	X	.38	.38	0	%100
54	M69	Z	.658	.658	0	%100
55	M77	X	.043	.043	0	%100
56	M77	Z	.075	.075	0	%100
57	M78	X	.048	.048	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M78	Z	.083	.083	0 %100
59	M80	X	.038	.038	0 %100
60	M80	Z	.067	.067	0 %100
61	M81	X	1.2e-5	1.2e-5	0 %100
62	M81	Z	2.1e-5	2.1e-5	0 %100
63	M82	X	.343	.343	0 %100
64	M82	Z	.594	.594	0 %100
65	M85	X	.492	.492	0 %100
66	M85	Z	.853	.853	0 %100
67	M112A	X	0	0	0 %100
68	M112A	Z	0	0	0 %100
69	M117	X	0	0	0 %100
70	M117	Z	0	0	0 %100
71	MP4C	X	.26	.26	0 %100
72	MP4C	Z	.45	.45	0 %100
73	MP3C	X	.26	.26	0 %100
74	MP3C	Z	.45	.45	0 %100
75	MP2C	X	.26	.26	0 %100
76	MP2C	Z	.45	.45	0 %100
77	MP1C	X	.26	.26	0 %100
78	MP1C	Z	.45	.45	0 %100
79	M152	X	.287	.287	0 %100
80	M152	Z	.498	.498	0 %100
81	M157	X	.195	.195	0 %100
82	M157	Z	.338	.338	0 %100
83	MP4B	X	.26	.26	0 %100
84	MP4B	Z	.45	.45	0 %100
85	MP3B	X	.26	.26	0 %100
86	MP3B	Z	.45	.45	0 %100
87	MP2B	X	.26	.26	0 %100
88	MP2B	Z	.45	.45	0 %100
89	MP1B	X	.26	.26	0 %100
90	MP1B	Z	.45	.45	0 %100
91	M193	X	.26	.26	0 %100
92	M193	Z	.45	.45	0 %100
93	M224A	X	0	0	0 %100
94	M224A	Z	0	0	0 %100
95	M225A	X	.502	.502	0 %100
96	M225A	Z	.869	.869	0 %100
97	M226A	X	.502	.502	0 %100
98	M226A	Z	.869	.869	0 %100
99	M162	X	.237	.237	0 %100
100	M162	Z	.41	.41	0 %100
101	M125A	X	.41	.41	0 %100
102	M125A	Z	.711	.711	0 %100
103	M126	X	.088	.088	0 %100
104	M126	Z	.152	.152	0 %100
105	M127	X	.186	.186	0 %100
106	M127	Z	.323	.323	0 %100
107	M128	X	.186	.186	0 %100
108	M128	Z	.323	.323	0 %100
109	M129	X	.088	.088	0 %100
110	M129	Z	.152	.152	0 %100
111	M130	X	.41	.41	0 %100
112	M130	Z	.711	.711	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	M48	X	0	0	0	%100
2	M48	Z	0	0	0	%100
3	M53	X	0	0	0	%100
4	M53	Z	1.013	1.013	0	%100
5	M54	X	0	0	0	%100
6	M54	Z	1.013	1.013	0	%100
7	M62	X	0	0	0	%100
8	M62	Z	.115	.115	0	%100
9	M63	X	0	0	0	%100
10	M63	Z	.128	.128	0	%100
11	M65	X	0	0	0	%100
12	M65	Z	.102	.102	0	%100
13	M66	X	0	0	0	%100
14	M66	Z	.231	.231	0	%100
15	M67	X	0	0	0	%100
16	M67	Z	.231	.231	0	%100
17	M200	X	0	0	0	%100
18	M200	Z	.766	.766	0	%100
19	M186A	X	0	0	0	%100
20	M186A	Z	.52	.52	0	%100
21	MP4A	X	0	0	0	%100
22	MP4A	Z	.52	.52	0	%100
23	MP3A	X	0	0	0	%100
24	MP3A	Z	.52	.52	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	.52	.52	0	%100
27	MP1A	X	0	0	0	%100
28	MP1A	Z	.52	.52	0	%100
29	M113	X	0	0	0	%100
30	M113	Z	1.313	1.313	0	%100
31	M41	X	0	0	0	%100
32	M41	Z	.707	.707	0	%100
33	M44	X	0	0	0	%100
34	M44	Z	.253	.253	0	%100
35	M45	X	0	0	0	%100
36	M45	Z	.253	.253	0	%100
37	M53A	X	0	0	0	%100
38	M53A	Z	.029	.029	0	%100
39	M54A	X	0	0	0	%100
40	M54A	Z	.032	.032	0	%100
41	M56A	X	0	0	0	%100
42	M56A	Z	.026	.026	0	%100
43	M57A	X	0	0	0	%100
44	M57A	Z	.91	.91	0	%100
45	M58A	X	0	0	0	%100
46	M58A	Z	.223	.223	0	%100
47	M61A	X	0	0	0	%100
48	M61A	Z	.474	.474	0	%100
49	M65A	X	0	0	0	%100
50	M65A	Z	.707	.707	0	%100
51	M68	X	0	0	0	%100
52	M68	Z	.253	.253	0	%100
53	M69	X	0	0	0	%100
54	M69	Z	.253	.253	0	%100
55	M77	X	0	0	0	%100
56	M77	Z	.029	.029	0	%100
57	M78	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M78	Z	.032	.032	0 %100
59	M80	X	0	0	0 %100
60	M80	Z	.026	.026	0 %100
61	M81	X	0	0	0 %100
62	M81	Z	.223	.223	0 %100
63	M82	X	0	0	0 %100
64	M82	Z	.91	.91	0 %100
65	M85	X	0	0	0 %100
66	M85	Z	.328	.328	0 %100
67	M112A	X	0	0	0 %100
68	M112A	Z	.192	.192	0 %100
69	M117	X	0	0	0 %100
70	M117	Z	.13	.13	0 %100
71	MP4C	X	0	0	0 %100
72	MP4C	Z	.52	.52	0 %100
73	MP3C	X	0	0	0 %100
74	MP3C	Z	.52	.52	0 %100
75	MP2C	X	0	0	0 %100
76	MP2C	Z	.52	.52	0 %100
77	MP1C	X	0	0	0 %100
78	MP1C	Z	.52	.52	0 %100
79	M152	X	0	0	0 %100
80	M152	Z	.192	.192	0 %100
81	M157	X	0	0	0 %100
82	M157	Z	.13	.13	0 %100
83	MP4B	X	0	0	0 %100
84	MP4B	Z	.52	.52	0 %100
85	MP3B	X	0	0	0 %100
86	MP3B	Z	.52	.52	0 %100
87	MP2B	X	0	0	0 %100
88	MP2B	Z	.52	.52	0 %100
89	MP1B	X	0	0	0 %100
90	MP1B	Z	.52	.52	0 %100
91	M193	X	0	0	0 %100
92	M193	Z	.52	.52	0 %100
93	M224A	X	0	0	0 %100
94	M224A	Z	.334	.334	0 %100
95	M225A	X	0	0	0 %100
96	M225A	Z	.334	.334	0 %100
97	M226A	X	0	0	0 %100
98	M226A	Z	1.338	1.338	0 %100
99	M162	X	0	0	0 %100
100	M162	Z	.474	.474	0 %100
101	M125A	X	0	0	0 %100
102	M125A	Z	.54	.54	0 %100
103	M126	X	0	0	0 %100
104	M126	Z	.54	.54	0 %100
105	M127	X	0	0	0 %100
106	M127	Z	.737	.737	0 %100
107	M128	X	0	0	0 %100
108	M128	Z	.092	.092	0 %100
109	M129	X	0	0	0 %100
110	M129	Z	.092	.092	0 %100
111	M130	X	0	0	0 %100
112	M130	Z	.737	.737	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	M48	X	-.118	-.118	0	%100
2	M48	Z	.204	.204	0	%100
3	M53	X	-.38	-.38	0	%100
4	M53	Z	.658	.658	0	%100
5	M54	X	-.38	-.38	0	%100
6	M54	Z	.658	.658	0	%100
7	M62	X	-.043	-.043	0	%100
8	M62	Z	.075	.075	0	%100
9	M63	X	-.048	-.048	0	%100
10	M63	Z	.083	.083	0	%100
11	M65	X	-.038	-.038	0	%100
12	M65	Z	.067	.067	0	%100
13	M66	X	-1.2e-5	-1.2e-5	0	%100
14	M66	Z	2.1e-5	2.1e-5	0	%100
15	M67	X	-.343	-.343	0	%100
16	M67	Z	.594	.594	0	%100
17	M200	X	-.287	-.287	0	%100
18	M200	Z	.498	.498	0	%100
19	M186A	X	-.195	-.195	0	%100
20	M186A	Z	.338	.338	0	%100
21	MP4A	X	-.26	-.26	0	%100
22	MP4A	Z	.45	.45	0	%100
23	MP3A	X	-.26	-.26	0	%100
24	MP3A	Z	.45	.45	0	%100
25	MP2A	X	-.26	-.26	0	%100
26	MP2A	Z	.45	.45	0	%100
27	MP1A	X	-.26	-.26	0	%100
28	MP1A	Z	.45	.45	0	%100
29	M113	X	-.492	-.492	0	%100
30	M113	Z	.853	.853	0	%100
31	M41	X	-.118	-.118	0	%100
32	M41	Z	.204	.204	0	%100
33	M44	X	-.38	-.38	0	%100
34	M44	Z	.658	.658	0	%100
35	M45	X	-.38	-.38	0	%100
36	M45	Z	.658	.658	0	%100
37	M53A	X	-.043	-.043	0	%100
38	M53A	Z	.075	.075	0	%100
39	M54A	X	-.048	-.048	0	%100
40	M54A	Z	.083	.083	0	%100
41	M56A	X	-.038	-.038	0	%100
42	M56A	Z	.067	.067	0	%100
43	M57A	X	-.343	-.343	0	%100
44	M57A	Z	.594	.594	0	%100
45	M58A	X	-1.2e-5	-1.2e-5	0	%100
46	M58A	Z	2.1e-5	2.1e-5	0	%100
47	M61A	X	-.544	-.544	0	%100
48	M61A	Z	.941	.941	0	%100
49	M65A	X	-.472	-.472	0	%100
50	M65A	Z	.817	.817	0	%100
51	M68	X	0	0	0	%100
52	M68	Z	0	0	0	%100
53	M69	X	0	0	0	%100
54	M69	Z	0	0	0	%100
55	M77	X	0	0	0	%100
56	M77	Z	0	0	0	%100
57	M78	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
58	M78	Z	0	0	0	%100
59	M80	X	0	0	0	%100
60	M80	Z	0	0	0	%100
61	M81	X	-.339	-.339	0	%100
62	M81	Z	.587	.587	0	%100
63	M82	X	-.339	-.339	0	%100
64	M82	Z	.587	.587	0	%100
65	M85	X	0	0	0	%100
66	M85	Z	0	0	0	%100
67	M112A	X	-.287	-.287	0	%100
68	M112A	Z	.498	.498	0	%100
69	M117	X	-.195	-.195	0	%100
70	M117	Z	.338	.338	0	%100
71	MP4C	X	-.26	-.26	0	%100
72	MP4C	Z	.45	.45	0	%100
73	MP3C	X	-.26	-.26	0	%100
74	MP3C	Z	.45	.45	0	%100
75	MP2C	X	-.26	-.26	0	%100
76	MP2C	Z	.45	.45	0	%100
77	MP1C	X	-.26	-.26	0	%100
78	MP1C	Z	.45	.45	0	%100
79	M152	X	0	0	0	%100
80	M152	Z	0	0	0	%100
81	M157	X	0	0	0	%100
82	M157	Z	0	0	0	%100
83	MP4B	X	-.26	-.26	0	%100
84	MP4B	Z	.45	.45	0	%100
85	MP3B	X	-.26	-.26	0	%100
86	MP3B	Z	.45	.45	0	%100
87	MP2B	X	-.26	-.26	0	%100
88	MP2B	Z	.45	.45	0	%100
89	MP1B	X	-.26	-.26	0	%100
90	MP1B	Z	.45	.45	0	%100
91	M193	X	-.26	-.26	0	%100
92	M193	Z	.45	.45	0	%100
93	M224A	X	-.502	-.502	0	%100
94	M224A	Z	.869	.869	0	%100
95	M225A	X	0	0	0	%100
96	M225A	Z	0	0	0	%100
97	M226A	X	-.502	-.502	0	%100
98	M226A	Z	.869	.869	0	%100
99	M162	X	-.237	-.237	0	%100
100	M162	Z	.41	.41	0	%100
101	M125A	X	-.088	-.088	0	%100
102	M125A	Z	.152	.152	0	%100
103	M126	X	-.41	-.41	0	%100
104	M126	Z	.711	.711	0	%100
105	M127	X	-.41	-.41	0	%100
106	M127	Z	.711	.711	0	%100
107	M128	X	-.088	-.088	0	%100
108	M128	Z	.152	.152	0	%100
109	M129	X	-.186	-.186	0	%100
110	M129	Z	.323	.323	0	%100
111	M130	X	-.186	-.186	0	%100
112	M130	Z	.323	.323	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	M48	X	-.613	-.613	0	%100
2	M48	Z	.354	.354	0	%100
3	M53	X	-.219	-.219	0	%100
4	M53	Z	.127	.127	0	%100
5	M54	X	-.219	-.219	0	%100
6	M54	Z	.127	.127	0	%100
7	M62	X	-.025	-.025	0	%100
8	M62	Z	.014	.014	0	%100
9	M63	X	-.028	-.028	0	%100
10	M63	Z	.016	.016	0	%100
11	M65	X	-.022	-.022	0	%100
12	M65	Z	.013	.013	0	%100
13	M66	X	-.193	-.193	0	%100
14	M66	Z	.112	.112	0	%100
15	M67	X	-.788	-.788	0	%100
16	M67	Z	.455	.455	0	%100
17	M200	X	-.166	-.166	0	%100
18	M200	Z	.096	.096	0	%100
19	M186A	X	-.113	-.113	0	%100
20	M186A	Z	.065	.065	0	%100
21	MP4A	X	-.45	-.45	0	%100
22	MP4A	Z	.26	.26	0	%100
23	MP3A	X	-.45	-.45	0	%100
24	MP3A	Z	.26	.26	0	%100
25	MP2A	X	-.45	-.45	0	%100
26	MP2A	Z	.26	.26	0	%100
27	MP1A	X	-.45	-.45	0	%100
28	MP1A	Z	.26	.26	0	%100
29	M113	X	-.284	-.284	0	%100
30	M113	Z	.164	.164	0	%100
31	M41	X	0	0	0	%100
32	M41	Z	0	0	0	%100
33	M44	X	-.878	-.878	0	%100
34	M44	Z	.507	.507	0	%100
35	M45	X	-.878	-.878	0	%100
36	M45	Z	.507	.507	0	%100
37	M53A	X	-.1	-.1	0	%100
38	M53A	Z	.058	.058	0	%100
39	M54A	X	-.111	-.111	0	%100
40	M54A	Z	.064	.064	0	%100
41	M56A	X	-.089	-.089	0	%100
42	M56A	Z	.051	.051	0	%100
43	M57A	X	-.2	-.2	0	%100
44	M57A	Z	.116	.116	0	%100
45	M58A	X	-.2	-.2	0	%100
46	M58A	Z	.116	.116	0	%100
47	M61A	X	-1.13	-1.13	0	%100
48	M61A	Z	.652	.652	0	%100
49	M65A	X	-.613	-.613	0	%100
50	M65A	Z	.354	.354	0	%100
51	M68	X	-.219	-.219	0	%100
52	M68	Z	.127	.127	0	%100
53	M69	X	-.219	-.219	0	%100
54	M69	Z	.127	.127	0	%100
55	M77	X	-.025	-.025	0	%100
56	M77	Z	.014	.014	0	%100
57	M78	X	-.028	-.028	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M78	Z	.016	.016	0 %100
59	M80	X	-.022	-.022	0 %100
60	M80	Z	.013	.013	0 %100
61	M81	X	-.788	-.788	0 %100
62	M81	Z	.455	.455	0 %100
63	M82	X	-.193	-.193	0 %100
64	M82	Z	.112	.112	0 %100
65	M85	X	-.284	-.284	0 %100
66	M85	Z	.164	.164	0 %100
67	M112A	X	-.663	-.663	0 %100
68	M112A	Z	.383	.383	0 %100
69	M117	X	-.45	-.45	0 %100
70	M117	Z	.26	.26	0 %100
71	MP4C	X	-.45	-.45	0 %100
72	MP4C	Z	.26	.26	0 %100
73	MP3C	X	-.45	-.45	0 %100
74	MP3C	Z	.26	.26	0 %100
75	MP2C	X	-.45	-.45	0 %100
76	MP2C	Z	.26	.26	0 %100
77	MP1C	X	-.45	-.45	0 %100
78	MP1C	Z	.26	.26	0 %100
79	M152	X	-.166	-.166	0 %100
80	M152	Z	.096	.096	0 %100
81	M157	X	-.113	-.113	0 %100
82	M157	Z	.065	.065	0 %100
83	MP4B	X	-.45	-.45	0 %100
84	MP4B	Z	.26	.26	0 %100
85	MP3B	X	-.45	-.45	0 %100
86	MP3B	Z	.26	.26	0 %100
87	MP2B	X	-.45	-.45	0 %100
88	MP2B	Z	.26	.26	0 %100
89	MP1B	X	-.45	-.45	0 %100
90	MP1B	Z	.26	.26	0 %100
91	M193	X	-.45	-.45	0 %100
92	M193	Z	.26	.26	0 %100
93	M224A	X	-1.158	-1.158	0 %100
94	M224A	Z	.669	.669	0 %100
95	M225A	X	-.29	-.29	0 %100
96	M225A	Z	.167	.167	0 %100
97	M226A	X	-.29	-.29	0 %100
98	M226A	Z	.167	.167	0 %100
99	M162	X	-.41	-.41	0 %100
100	M162	Z	.237	.237	0 %100
101	M125A	X	-.08	-.08	0 %100
102	M125A	Z	.046	.046	0 %100
103	M126	X	-.638	-.638	0 %100
104	M126	Z	.369	.369	0 %100
105	M127	X	-.467	-.467	0 %100
106	M127	Z	.27	.27	0 %100
107	M128	X	-.467	-.467	0 %100
108	M128	Z	.27	.27	0 %100
109	M129	X	-.638	-.638	0 %100
110	M129	Z	.369	.369	0 %100
111	M130	X	-.08	-.08	0 %100
112	M130	Z	.046	.046	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	M48	X	-.943	- .943	0 %100
2	M48	Z	0	0	0 %100
3	M53	X	0	0	0 %100
4	M53	Z	0	0	0 %100
5	M54	X	0	0	0 %100
6	M54	Z	0	0	0 %100
7	M62	X	0	0	0 %100
8	M62	Z	0	0	0 %100
9	M63	X	0	0	0 %100
10	M63	Z	0	0	0 %100
11	M65	X	0	0	0 %100
12	M65	Z	0	0	0 %100
13	M66	X	-.678	-.678	0 %100
14	M66	Z	0	0	0 %100
15	M67	X	-.678	-.678	0 %100
16	M67	Z	0	0	0 %100
17	M200	X	0	0	0 %100
18	M200	Z	0	0	0 %100
19	M186A	X	0	0	0 %100
20	M186A	Z	0	0	0 %100
21	MP4A	X	-.52	-.52	0 %100
22	MP4A	Z	0	0	0 %100
23	MP3A	X	-.52	-.52	0 %100
24	MP3A	Z	0	0	0 %100
25	MP2A	X	-.52	-.52	0 %100
26	MP2A	Z	0	0	0 %100
27	MP1A	X	-.52	-.52	0 %100
28	MP1A	Z	0	0	0 %100
29	M113	X	0	0	0 %100
30	M113	Z	0	0	0 %100
31	M41	X	-.236	-.236	0 %100
32	M41	Z	0	0	0 %100
33	M44	X	-.76	-.76	0 %100
34	M44	Z	0	0	0 %100
35	M45	X	-.76	-.76	0 %100
36	M45	Z	0	0	0 %100
37	M53A	X	-.087	-.087	0 %100
38	M53A	Z	0	0	0 %100
39	M54A	X	-.096	-.096	0 %100
40	M54A	Z	0	0	0 %100
41	M56A	X	-.077	-.077	0 %100
42	M56A	Z	0	0	0 %100
43	M57A	X	-2.5e-5	-2.5e-5	0 %100
44	M57A	Z	0	0	0 %100
45	M58A	X	-.686	-.686	0 %100
46	M58A	Z	0	0	0 %100
47	M61A	X	-.909	-.909	0 %100
48	M61A	Z	0	0	0 %100
49	M65A	X	-.236	-.236	0 %100
50	M65A	Z	0	0	0 %100
51	M68	X	-.76	-.76	0 %100
52	M68	Z	0	0	0 %100
53	M69	X	-.76	-.76	0 %100
54	M69	Z	0	0	0 %100
55	M77	X	-.087	-.087	0 %100
56	M77	Z	0	0	0 %100
57	M78	X	-.096	-.096	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
58	M78	Z	0	0	0	%100
59	M80	X	-0.077	-0.077	0	%100
60	M80	Z	0	0	0	%100
61	M81	X	-0.686	-0.686	0	%100
62	M81	Z	0	0	0	%100
63	M82	X	-2.5e-5	-2.5e-5	0	%100
64	M82	Z	0	0	0	%100
65	M85	X	-0.985	-0.985	0	%100
66	M85	Z	0	0	0	%100
67	M112A	X	-0.575	-0.575	0	%100
68	M112A	Z	0	0	0	%100
69	M117	X	-0.39	-0.39	0	%100
70	M117	Z	0	0	0	%100
71	MP4C	X	-0.52	-0.52	0	%100
72	MP4C	Z	0	0	0	%100
73	MP3C	X	-0.52	-0.52	0	%100
74	MP3C	Z	0	0	0	%100
75	MP2C	X	-0.52	-0.52	0	%100
76	MP2C	Z	0	0	0	%100
77	MP1C	X	-0.52	-0.52	0	%100
78	MP1C	Z	0	0	0	%100
79	M152	X	-0.575	-0.575	0	%100
80	M152	Z	0	0	0	%100
81	M157	X	-0.39	-0.39	0	%100
82	M157	Z	0	0	0	%100
83	MP4B	X	-0.52	-0.52	0	%100
84	MP4B	Z	0	0	0	%100
85	MP3B	X	-0.52	-0.52	0	%100
86	MP3B	Z	0	0	0	%100
87	MP2B	X	-0.52	-0.52	0	%100
88	MP2B	Z	0	0	0	%100
89	MP1B	X	-0.52	-0.52	0	%100
90	MP1B	Z	0	0	0	%100
91	M193	X	-0.52	-0.52	0	%100
92	M193	Z	0	0	0	%100
93	M224A	X	-1.003	-1.003	0	%100
94	M224A	Z	0	0	0	%100
95	M225A	X	-1.003	-1.003	0	%100
96	M225A	Z	0	0	0	%100
97	M226A	X	0	0	0	%100
98	M226A	Z	0	0	0	%100
99	M162	X	-0.474	-0.474	0	%100
100	M162	Z	0	0	0	%100
101	M125A	X	-0.373	-0.373	0	%100
102	M125A	Z	0	0	0	%100
103	M126	X	-0.373	-0.373	0	%100
104	M126	Z	0	0	0	%100
105	M127	X	-0.175	-0.175	0	%100
106	M127	Z	0	0	0	%100
107	M128	X	-0.821	-0.821	0	%100
108	M128	Z	0	0	0	%100
109	M129	X	-0.821	-0.821	0	%100
110	M129	Z	0	0	0	%100
111	M130	X	-0.175	-0.175	0	%100
112	M130	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M48	X	-.613	-.613	0	%100
2	M48	Z	-.354	-.354	0	%100
3	M53	X	-.219	-.219	0	%100
4	M53	Z	-.127	-.127	0	%100
5	M54	X	-.219	-.219	0	%100
6	M54	Z	-.127	-.127	0	%100
7	M62	X	-.025	-.025	0	%100
8	M62	Z	-.014	-.014	0	%100
9	M63	X	-.028	-.028	0	%100
10	M63	Z	-.016	-.016	0	%100
11	M65	X	-.022	-.022	0	%100
12	M65	Z	-.013	-.013	0	%100
13	M66	X	-.788	-.788	0	%100
14	M66	Z	-.455	-.455	0	%100
15	M67	X	-.193	-.193	0	%100
16	M67	Z	-.112	-.112	0	%100
17	M200	X	-.166	-.166	0	%100
18	M200	Z	-.096	-.096	0	%100
19	M186A	X	-.113	-.113	0	%100
20	M186A	Z	-.065	-.065	0	%100
21	MP4A	X	-.45	-.45	0	%100
22	MP4A	Z	-.26	-.26	0	%100
23	MP3A	X	-.45	-.45	0	%100
24	MP3A	Z	-.26	-.26	0	%100
25	MP2A	X	-.45	-.45	0	%100
26	MP2A	Z	-.26	-.26	0	%100
27	MP1A	X	-.45	-.45	0	%100
28	MP1A	Z	-.26	-.26	0	%100
29	M113	X	-.284	-.284	0	%100
30	M113	Z	-.164	-.164	0	%100
31	M41	X	-.613	-.613	0	%100
32	M41	Z	-.354	-.354	0	%100
33	M44	X	-.219	-.219	0	%100
34	M44	Z	-.127	-.127	0	%100
35	M45	X	-.219	-.219	0	%100
36	M45	Z	-.127	-.127	0	%100
37	M53A	X	-.025	-.025	0	%100
38	M53A	Z	-.014	-.014	0	%100
39	M54A	X	-.028	-.028	0	%100
40	M54A	Z	-.016	-.016	0	%100
41	M56A	X	-.022	-.022	0	%100
42	M56A	Z	-.013	-.013	0	%100
43	M57A	X	-.193	-.193	0	%100
44	M57A	Z	-.112	-.112	0	%100
45	M58A	X	-.788	-.788	0	%100
46	M58A	Z	-.455	-.455	0	%100
47	M61A	X	-.256	-.256	0	%100
48	M61A	Z	-.148	-.148	0	%100
49	M65A	X	0	0	0	%100
50	M65A	Z	0	0	0	%100
51	M68	X	-.878	-.878	0	%100
52	M68	Z	-.507	-.507	0	%100
53	M69	X	-.878	-.878	0	%100
54	M69	Z	-.507	-.507	0	%100
55	M77	X	-.1	-.1	0	%100
56	M77	Z	-.058	-.058	0	%100
57	M78	X	-.111	-.111	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M78	Z	-0.064	-0.064	0 %100
59	M80	X	-0.089	-0.089	0 %100
60	M80	Z	-0.051	-0.051	0 %100
61	M81	X	-.2	-.2	0 %100
62	M81	Z	-.116	-.116	0 %100
63	M82	X	-.2	-.2	0 %100
64	M82	Z	-.116	-.116	0 %100
65	M85	X	-1.137	-1.137	0 %100
66	M85	Z	-.657	-.657	0 %100
67	M112A	X	-.166	-.166	0 %100
68	M112A	Z	-.096	-.096	0 %100
69	M117	X	-.113	-.113	0 %100
70	M117	Z	-.065	-.065	0 %100
71	MP4C	X	-.45	-.45	0 %100
72	MP4C	Z	-.26	-.26	0 %100
73	MP3C	X	-.45	-.45	0 %100
74	MP3C	Z	-.26	-.26	0 %100
75	MP2C	X	-.45	-.45	0 %100
76	MP2C	Z	-.26	-.26	0 %100
77	MP1C	X	-.45	-.45	0 %100
78	MP1C	Z	-.26	-.26	0 %100
79	M152	X	-.663	-.663	0 %100
80	M152	Z	-.383	-.383	0 %100
81	M157	X	-.45	-.45	0 %100
82	M157	Z	-.26	-.26	0 %100
83	MP4B	X	-.45	-.45	0 %100
84	MP4B	Z	-.26	-.26	0 %100
85	MP3B	X	-.45	-.45	0 %100
86	MP3B	Z	-.26	-.26	0 %100
87	MP2B	X	-.45	-.45	0 %100
88	MP2B	Z	-.26	-.26	0 %100
89	MP1B	X	-.45	-.45	0 %100
90	MP1B	Z	-.26	-.26	0 %100
91	M193	X	-.45	-.45	0 %100
92	M193	Z	-.26	-.26	0 %100
93	M224A	X	-.29	-.29	0 %100
94	M224A	Z	-.167	-.167	0 %100
95	M225A	X	-1.158	-1.158	0 %100
96	M225A	Z	-.669	-.669	0 %100
97	M226A	X	-.29	-.29	0 %100
98	M226A	Z	-.167	-.167	0 %100
99	M162	X	-.41	-.41	0 %100
100	M162	Z	-.237	-.237	0 %100
101	M125A	X	-.638	-.638	0 %100
102	M125A	Z	-.369	-.369	0 %100
103	M126	X	-.08	-.08	0 %100
104	M126	Z	-.046	-.046	0 %100
105	M127	X	-.08	-.08	0 %100
106	M127	Z	-.046	-.046	0 %100
107	M128	X	-.638	-.638	0 %100
108	M128	Z	-.369	-.369	0 %100
109	M129	X	-.467	-.467	0 %100
110	M129	Z	-.27	-.27	0 %100
111	M130	X	-.467	-.467	0 %100
112	M130	Z	-.27	-.27	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M48	X	- .118	- .118	0	%100
2	M48	Z	- .204	- .204	0	%100
3	M53	X	- .38	- .38	0	%100
4	M53	Z	- .658	- .658	0	%100
5	M54	X	- .38	- .38	0	%100
6	M54	Z	- .658	- .658	0	%100
7	M62	X	- .043	- .043	0	%100
8	M62	Z	- .075	- .075	0	%100
9	M63	X	- .048	- .048	0	%100
10	M63	Z	- .083	- .083	0	%100
11	M65	X	- .038	- .038	0	%100
12	M65	Z	- .067	- .067	0	%100
13	M66	X	- .343	- .343	0	%100
14	M66	Z	- .594	- .594	0	%100
15	M67	X	-1.2e-5	-1.2e-5	0	%100
16	M67	Z	-2.1e-5	-2.1e-5	0	%100
17	M200	X	- .287	- .287	0	%100
18	M200	Z	- .498	- .498	0	%100
19	M186A	X	- .195	- .195	0	%100
20	M186A	Z	- .338	- .338	0	%100
21	MP4A	X	- .26	- .26	0	%100
22	MP4A	Z	- .45	- .45	0	%100
23	MP3A	X	- .26	- .26	0	%100
24	MP3A	Z	- .45	- .45	0	%100
25	MP2A	X	- .26	- .26	0	%100
26	MP2A	Z	- .45	- .45	0	%100
27	MP1A	X	- .26	- .26	0	%100
28	MP1A	Z	- .45	- .45	0	%100
29	M113	X	- .492	- .492	0	%100
30	M113	Z	- .853	- .853	0	%100
31	M41	X	- .472	- .472	0	%100
32	M41	Z	- .817	- .817	0	%100
33	M44	X	0	0	0	%100
34	M44	Z	0	0	0	%100
35	M45	X	0	0	0	%100
36	M45	Z	0	0	0	%100
37	M53A	X	0	0	0	%100
38	M53A	Z	0	0	0	%100
39	M54A	X	0	0	0	%100
40	M54A	Z	0	0	0	%100
41	M56A	X	0	0	0	%100
42	M56A	Z	0	0	0	%100
43	M57A	X	- .339	- .339	0	%100
44	M57A	Z	- .587	- .587	0	%100
45	M58A	X	- .339	- .339	0	%100
46	M58A	Z	- .587	- .587	0	%100
47	M61A	X	- .039	- .039	0	%100
48	M61A	Z	- .068	- .068	0	%100
49	M65A	X	- .118	- .118	0	%100
50	M65A	Z	- .204	- .204	0	%100
51	M68	X	- .38	- .38	0	%100
52	M68	Z	- .658	- .658	0	%100
53	M69	X	- .38	- .38	0	%100
54	M69	Z	- .658	- .658	0	%100
55	M77	X	- .043	- .043	0	%100
56	M77	Z	- .075	- .075	0	%100
57	M78	X	- .048	- .048	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M78	Z	-0.083	-0.083	0 %100
59	M80	X	-0.038	-0.038	0 %100
60	M80	Z	-0.067	-0.067	0 %100
61	M81	X	-1.2e-5	-1.2e-5	0 %100
62	M81	Z	-2.1e-5	-2.1e-5	0 %100
63	M82	X	-0.343	-0.343	0 %100
64	M82	Z	-0.594	-0.594	0 %100
65	M85	X	-0.492	-0.492	0 %100
66	M85	Z	-0.853	-0.853	0 %100
67	M112A	X	0	0	0 %100
68	M112A	Z	0	0	0 %100
69	M117	X	0	0	0 %100
70	M117	Z	0	0	0 %100
71	MP4C	X	-0.26	-0.26	0 %100
72	MP4C	Z	-0.45	-0.45	0 %100
73	MP3C	X	-0.26	-0.26	0 %100
74	MP3C	Z	-0.45	-0.45	0 %100
75	MP2C	X	-0.26	-0.26	0 %100
76	MP2C	Z	-0.45	-0.45	0 %100
77	MP1C	X	-0.26	-0.26	0 %100
78	MP1C	Z	-0.45	-0.45	0 %100
79	M152	X	-0.287	-0.287	0 %100
80	M152	Z	-0.498	-0.498	0 %100
81	M157	X	-0.195	-0.195	0 %100
82	M157	Z	-0.338	-0.338	0 %100
83	MP4B	X	-0.26	-0.26	0 %100
84	MP4B	Z	-0.45	-0.45	0 %100
85	MP3B	X	-0.26	-0.26	0 %100
86	MP3B	Z	-0.45	-0.45	0 %100
87	MP2B	X	-0.26	-0.26	0 %100
88	MP2B	Z	-0.45	-0.45	0 %100
89	MP1B	X	-0.26	-0.26	0 %100
90	MP1B	Z	-0.45	-0.45	0 %100
91	M193	X	-0.26	-0.26	0 %100
92	M193	Z	-0.45	-0.45	0 %100
93	M224A	X	0	0	0 %100
94	M224A	Z	0	0	0 %100
95	M225A	X	-0.502	-0.502	0 %100
96	M225A	Z	-0.869	-0.869	0 %100
97	M226A	X	-0.502	-0.502	0 %100
98	M226A	Z	-0.869	-0.869	0 %100
99	M162	X	-0.237	-0.237	0 %100
100	M162	Z	-0.41	-0.41	0 %100
101	M125A	X	-0.41	-0.41	0 %100
102	M125A	Z	-0.711	-0.711	0 %100
103	M126	X	-0.088	-0.088	0 %100
104	M126	Z	-0.152	-0.152	0 %100
105	M127	X	-0.186	-0.186	0 %100
106	M127	Z	-0.323	-0.323	0 %100
107	M128	X	-0.186	-0.186	0 %100
108	M128	Z	-0.323	-0.323	0 %100
109	M129	X	-0.088	-0.088	0 %100
110	M129	Z	-0.152	-0.152	0 %100
111	M130	X	-0.41	-0.41	0 %100
112	M130	Z	-0.711	-0.711	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M53	Y	-0.005171	-0.002	0	1.125
2	M53	Y	-0.002	-0.003	1.125	2.25
3	M54	Y	-0.003	-0.002	0	1.125
4	M54	Y	-0.002	-0.005173	1.125	2.25
5	M62	Y	-0.002	-0.004	0	.65
6	M62	Y	-0.004	-0.004	.65	1.3
7	M62	Y	-0.004	-0.003	1.3	1.95
8	M62	Y	-0.003	-0.00316	1.95	2.6
9	M63	Y	-0.002	-0.003	0	.71
10	M63	Y	-0.003	-0.005	.71	1.42
11	M63	Y	-0.005	-0.005	1.42	2.13
12	M63	Y	-0.005	-0.003	2.13	2.84
13	M63	Y	-0.003	-0.002125	2.84	3.55
14	M65	Y	-0.003	-0.002	0	.825
15	M65	Y	-0.002	-0.001	.825	1.651
16	M66	Y	-0.001	-0.001	0	.929
17	M66	Y	-0.001	-0.001	.929	1.858
18	M66	Y	-0.001	-0.001	1.858	2.787
19	M66	Y	-0.001	-0.001	2.787	3.717
20	M67	Y	-0.001	-0.002	0	.929
21	M67	Y	-0.002	-0.002	.929	1.858
22	M67	Y	-0.002	-0.002	1.858	2.787
23	M67	Y	-0.002	-0.002	2.787	3.717
24	M113	Y	-0.001	-0.001	0	.75
25	M44	Y	-0.005171	-0.002	0	1.125
26	M44	Y	-0.002	-0.003	1.125	2.25
27	M45	Y	-0.003	-0.002	0	1.125
28	M45	Y	-0.002	-0.005173	1.125	2.25
29	M53A	Y	-0.002	-0.004	0	.65
30	M53A	Y	-0.004	-0.004	.65	1.3
31	M53A	Y	-0.004	-0.003	1.3	1.95
32	M53A	Y	-0.003	-0.00316	1.95	2.6
33	M54A	Y	-0.002	-0.003	0	.71
34	M54A	Y	-0.003	-0.005	.71	1.42
35	M54A	Y	-0.005	-0.005	1.42	2.13
36	M54A	Y	-0.005	-0.003	2.13	2.84
37	M54A	Y	-0.003	-0.002125	2.84	3.55
38	M56A	Y	-0.003	-0.002	0	.825
39	M56A	Y	-0.002	-0.001	.825	1.651
40	M57A	Y	-0.001	-0.001	0	.929
41	M57A	Y	-0.001	-0.001	.929	1.858
42	M57A	Y	-0.001	-0.002	1.858	2.787
43	M57A	Y	-0.002	-0.003	2.787	3.717
44	M58A	Y	-0.001	-0.002	0	.929
45	M58A	Y	-0.002	-0.002	.929	1.858
46	M58A	Y	-0.002	-0.002	1.858	2.787
47	M58A	Y	-0.002	-0.002	2.787	3.717
48	M68	Y	-0.005171	-0.002	0	1.125
49	M68	Y	-0.002	-0.003	1.125	2.25
50	M69	Y	-0.003	-0.002	0	1.125
51	M69	Y	-0.002	-0.005173	1.125	2.25
52	M77	Y	-0.002	-0.004	0	.65
53	M77	Y	-0.004	-0.004	.65	1.3
54	M77	Y	-0.004	-0.003	1.3	1.95
55	M77	Y	-0.003	-0.00316	1.95	2.6
56	M78	Y	-0.002	-0.003	0	.71
57	M78	Y	-0.003	-0.005	.71	1.42



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
58	M78	Y	-0.005	-0.005	1.42	2.13
59	M78	Y	-0.005	-0.003	2.13	2.84
60	M78	Y	-0.003	-.0002125	2.84	3.55
61	M80	Y	-0.003	-0.002	0	.825
62	M80	Y	-0.002	-0.001	.825	1.651
63	M81	Y	-0.001	-0.001	0	.929
64	M81	Y	-0.001	-0.001	.929	1.858
65	M81	Y	-0.001	-0.001	1.858	2.787
66	M81	Y	-0.001	-0.001	2.787	3.717
67	M82	Y	-0.001	-0.002	0	.929
68	M82	Y	-0.002	-0.002	.929	1.858
69	M82	Y	-0.002	-0.002	1.858	2.787
70	M82	Y	-0.002	-0.002	2.787	3.717
71	M85	Y	-0.001	-0.001	0	.75

Member Distributed Loads (BLC 82 : BLC 40 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M53	Y	-0.001	-0.003	0	1.125
2	M53	Y	-0.003	-0.005	1.125	2.25
3	M54	Y	-0.005	-0.003	0	1.125
4	M54	Y	-0.003	-0.001	1.125	2.25
5	M62	Y	-0.004	-0.007	0	.65
6	M62	Y	-0.007	-0.009	.65	1.3
7	M62	Y	-0.009	-0.006	1.3	1.95
8	M62	Y	-0.006	-.000616	1.95	2.6
9	M63	Y	-0.003	-0.006	0	.71
10	M63	Y	-0.006	-0.009	.71	1.42
11	M63	Y	-0.009	-.01	1.42	2.13
12	M63	Y	-.01	-0.007	2.13	2.84
13	M63	Y	-0.007	-.0004143	2.84	3.55
14	M65	Y	-0.006	-0.005	0	.825
15	M65	Y	-0.005	-0.003	.825	1.651
16	M66	Y	-0.002	-0.003	0	.929
17	M66	Y	-0.003	-0.003	.929	1.858
18	M66	Y	-0.003	-0.003	1.858	2.787
19	M66	Y	-0.003	-0.002	2.787	3.717
20	M67	Y	-0.002	-0.003	0	.929
21	M67	Y	-0.003	-0.004	.929	1.858
22	M67	Y	-0.004	-0.004	1.858	2.787
23	M67	Y	-0.004	-0.003	2.787	3.717
24	M113	Y	-0.002	-0.002	0	.75
25	M44	Y	-0.001	-0.003	0	1.125
26	M44	Y	-0.003	-0.005	1.125	2.25
27	M45	Y	-0.005	-0.003	0	1.125
28	M45	Y	-0.003	-0.001	1.125	2.25
29	M53A	Y	-0.004	-0.007	0	.65
30	M53A	Y	-0.007	-0.009	.65	1.3
31	M53A	Y	-0.009	-0.006	1.3	1.95
32	M53A	Y	-0.006	-.000616	1.95	2.6
33	M54A	Y	-0.003	-0.006	0	.71
34	M54A	Y	-0.006	-0.009	.71	1.42
35	M54A	Y	-0.009	-.01	1.42	2.13
36	M54A	Y	-.01	-0.007	2.13	2.84
37	M54A	Y	-0.007	-.0004143	2.84	3.55
38	M56A	Y	-0.006	-0.005	0	.825
39	M56A	Y	-0.005	-0.003	.825	1.651



Member Distributed Loads (BLC 82 : BLC 40 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
40	M57A	Y	-0.002	-0.003	0	.929
41	M57A	Y	-0.003	-0.003	.929	1.858
42	M57A	Y	-0.003	-0.003	1.858	2.787
43	M57A	Y	-0.003	-0.005	2.787	3.717
44	M58A	Y	-0.002	-0.003	0	.929
45	M58A	Y	-0.003	-0.004	.929	1.858
46	M58A	Y	-0.004	-0.004	1.858	2.787
47	M58A	Y	-0.004	-0.003	2.787	3.717
48	M68	Y	-0.001	-0.003	0	1.125
49	M68	Y	-0.003	-0.005	1.125	2.25
50	M69	Y	-0.005	-0.003	0	1.125
51	M69	Y	-0.003	-0.001	1.125	2.25
52	M77	Y	-0.004	-0.007	0	.65
53	M77	Y	-0.007	-0.009	.65	1.3
54	M77	Y	-0.009	-0.006	1.3	1.95
55	M77	Y	-0.006	-0.00616	1.95	2.6
56	M78	Y	-0.003	-0.006	0	.71
57	M78	Y	-0.006	-0.009	.71	1.42
58	M78	Y	-0.009	-.01	1.42	2.13
59	M78	Y	-.01	-0.007	2.13	2.84
60	M78	Y	-0.007	-0.004143	2.84	3.55
61	M80	Y	-0.006	-0.005	0	.825
62	M80	Y	-0.005	-0.003	.825	1.651
63	M81	Y	-0.002	-0.003	0	.929
64	M81	Y	-0.003	-0.003	.929	1.858
65	M81	Y	-0.003	-0.003	1.858	2.787
66	M81	Y	-0.003	-0.002	2.787	3.717
67	M82	Y	-0.002	-0.003	0	.929
68	M82	Y	-0.003	-0.004	.929	1.858
69	M82	Y	-0.004	-0.004	1.858	2.787
70	M82	Y	-0.004	-0.003	2.787	3.717
71	M85	Y	-0.002	-0.002	0	.75

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	N76	N77	N80	N79	Y	Two Way	-.005
2	N81A	N82A	N85A	N84A	Y	Two Way	-.005
3	N114	N115	N118	N117	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	N76	N77	N80	N79	Y	Two Way	-.01
2	N81A	N82A	N85A	N84A	Y	Two Way	-.01
3	N114	N115	N118	N117	Y	Two Way	-.01

Envelope Joint Reactions

	Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
1	N67	max	952.774	10	1837.947	20	-133.173	2	5.665	20	1.568	4	.192	9
2		min	-1021.347	4	712.053	2	-3193.788	20	2.201	2	-1.389	10	-.187	3
3	N72A	max	-534.309	11	1679.122	16	1617.446	24	-.828	7	1.323	12	-1.575	10
4		min	-2541.559	17	678.242	10	27.694	6	-2.258	13	-1.267	6	-4.102	16
5	N105	max	2688.86	22	1728.971	23	1756.367	13	-.982	7	1.287	8	4.588	22
6		min	40.734	4	677.957	5	-164.864	7	-2.678	13	-1.482	2	1.93	4



Envelope Joint Reactions (Continued)

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
7	N232B	max 288.186	12	602.925	7	354.615	1	0	50	0	28	0	10
8		min -263.698	6	-145.122	1	-1208.214	7	0	37	0	10	0	28
9	N233B	max 346.713	9	577.894	3	773.108	2	0	10	0	4	0	8
10		min -943.087	3	-190.521	9	-378.719	8	0	4	0	10	0	2
11	N234A	max 1024.715	11	561.495	11	595.836	12	0	8	0	8	0	8
12		min -373.064	5	-160.239	5	-242.308	6	0	2	0	2	0	2
13	Totals:	max 4297.658	10	6419.911	20	4317.925	1						
14		min -4297.657	4	3233.394	2	-4317.934	7						

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

Member	Shape	Code Check	Loc[ft]	LC	Shear C...	Lo...	Dir	LC	phi*Pn...	phi*...	phi*...	phi*...	Eqn
1	M48	HSS5X3X6	.232	0	16	.032	1....	z	10	191531...	1978...	17.59525.323	H1-...
2	M53	L3.5X3X3	.724	2.25	21	.050	2.25	z	21	26494....	3685...	1.41 3.008	H2-1
3	M54	L3.5X3X3	.703	0	17	.046	0	z	17	26494....	3685...	1.41 3.008	H2-1
4	M62	PL3/8x2	.143	1.3	21	.011	1.3	y	5	2039.3...	24300	.19 1.012	H1-...
5	M63	PL3/8x2	.117	1.775	9	.011	1....	y	5	1094.2...	24300	.19 1.012	H1-...
6	M65	PL3/8x2	.227	.825	20	.035	.825	y	6	5059.8...	24300	.19 1.012	H1-...
7	M66	L2.5X1X4	.287	3.261	18	.225	3....	z	5	3888.8...	26325	.222 1.354	H2-1
8	M67	L2.5X1X4	.406	3.261	20	.235	3....	z	21	3888.8...	26325	.222 1.385	H2-1
9	M200	PIPE 3.0	.116	8.163	48	.051	8....		37	28250....	65205	5.749 5.749	H1-...
10	M186A	PIPE 2.0	.295	.765	21	.102	3....		33	6295.4...	32130	1.872 1.872	H1-...
11	MP4A	PIPE 2.0	.154	4.408	50	.071	4....		29	20866....	32130	1.872 1.872	H1-...
12	MP3A	PIPE 2.0	.154	4.408	28	.049	1....		2	20866....	32130	1.872 1.872	H1-...
13	MP2A	PIPE 2.0	.212	4.408	14	.170	4....		10	20866....	32130	1.872 1.872	H1-...
14	MP1A	PIPE 2.0	.098	4.408	38	.043	4....		38	20866....	32130	1.872 1.872	H1-...
15	M113	L6x2.5x4	.392	.375	20	.191	.375	z	20	49405....	66825	.965 5.664	H2-1
16	M41	HSS5X3X6	.186	0	24	.033	0	y	16	178189...	1978...	17.59525.323	H1-...
17	M44	L3.5X3X3	.898	2.25	17	.068	2.25	z	16	26494....	3685...	1.41 3.008	H2-1
18	M45	L3.5X3X3	.829	0	13	.064	0	z	14	26494....	3685...	1.41 3.008	H2-1
19	M53A	PL3/8x2	.368	1.3	16	.113	1....	y	26	2039.3...	24300	.19 1.012	H1-...
20	M54A	PL3/8x2	.229	1.775	17	.059	1....	y	26	1094.2...	24300	.19 1.012	H1-...
21	M56A	PL3/8x2	.807	.825	14	.255	.825	y	26	5059.8...	24300	.19 1.012	H1-...
22	M57A	L2.5X1X4	.442	2.844	14	.351	3....	z	25	3888.8...	26325	.222 1.198	H2-1
23	M58A	L2.5X1X4	.430	2.806	16	.187	3....	z	26	3888.8...	26325	.222 1.286	H2-1
24	M61A	L6x2.5x4	.094	.904	32	.063	.904	z	17	49155....	66825	.965 5.668	H2-1
25	M65A	HSS5X3X6	.220	0	14	.046	1....	y	37	191531...	1978...	17.59525.323	H1-...
26	M68	L3.5X3X3	.708	2.25	13	.047	2.25	z	37	26494....	3685...	1.41 3.008	H2-1
27	M69	L3.5X3X3	.648	0	21	.044	0	z	21	26494....	3685...	1.41 3.008	H2-1
28	M77	PL3/8x2	.139	1.3	13	.013	1....	y	9	2039.3...	24300	.19 1.012	H1-...
29	M78	PL3/8x2	.114	1.775	13	.012	0	y	8	1094.2...	24300	.19 1.012	H1-...
30	M80	PL3/8x2	.213	.825	22	.045	.825	y	9	5059.8...	24300	.19 1.012	H1-...
31	M81	L2.5X1X4	.341	3.261	21	.261	3....	z	9	3888.8...	26325	.222 1.349	H2-1
32	M82	L2.5X1X4	.375	3.261	23	.224	3....	z	37	3888.8...	26325	.222 1.385	H2-1
33	M85	L6x2.5x4	.380	.375	23	.189	.375	z	22	49405....	66825	.965 5.668	H2-1
34	M112A	PIPE 3.0	.078	8.169	8	.056	8....		21	28219....	65205	5.749 5.749	H1-...
35	M117	PIPE 2.0	.288	11.735	13	.090	9....		13	6295.4...	32130	1.872 1.872	H1-...
36	MP4C	PIPE 2.0	.092	4.408	38	.054	2....		17	20866....	32130	1.872 1.872	H1-...
37	MP3C	PIPE 2.0	.104	4.408	20	.046	4....		10	20866....	32130	1.872 1.872	H1-...
38	MP2C	PIPE 2.0	.158	4.408	10	.170	4....		12	20866....	32130	1.872 1.872	H1-...
39	MP1C	PIPE 2.0	.090	4.408	4	.035	1....		22	20866....	32130	1.872 1.872	H1-...
40	M152	PIPE 3.0	.086	8.679	36	.059	8....		17	28219....	65205	5.749 5.749	H1-...
41	M157	PIPE 2.0	.291	.765	13	.094	9....		21	6295.4...	32130	1.872 1.872	H1-...
42	MP4B	PIPE 2.0	.085	4.408	10	.064	1....		13	20866....	32130	1.872 1.872	H1-...
43	MP3B	PIPE 2.0	.111	4.408	16	.047	1....		5	20866....	32130	1.872 1.872	H1-...
44	MP2B	PIPE 2.0	.164	4.408	6	.170	4....		2	20866....	32130	1.872 1.872	H1-...



Company : Maser Consulting
 Designer : AE
 Job Number : Project No. 10069083
 Model Name : 468035-VZW_MT_LO_H

June 10, 2021
 10:30 AM
 Checked By: DX

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

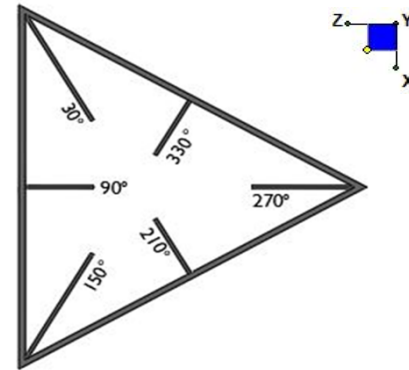
Member	Shape	Code Check	Loc[ft]	LC	Shear C...	Lo...	Dir	LC	phi*Pn...	phi*...	phi*...	phi*...	Eqn	
45	MP1B	PIPE 2.0	.205	4.408	36	.032	4...	10	20866...	32130	1.872	1.872	H1-...	
46	M193	PIPE 2.0	.082	3.782	11	.013	3...	11	21490...	32130	1.872	1.872	H1-...	
47	M224A	L5.25X3.75X3	.018	1.194	21	.010	0	y	35	573370..	5832...	33.872	54.856	H2-1
48	M225A	L5.25X3.75X3	.017	1.072	17	.005	0	y	8	573370..	5832...	33.872	54.856	H2-1
49	M226A	L5.25X3.75X3	.018	.857	13	.004	0	y	4	573370..	5832...	33.872	54.856	H2-1
50	M162	PIPE 2.0	.114	2.98	5	.012	2.98		5	26521...	32130	1.872	1.872	1 H1-...
51	M125A	L2.5x2.5x3	.064	2.097	6	.004	4...	z	12	16444...	2919...	.873	1.694	H2-1
52	M126	L2.5x2.5x3	.064	2.097	8	.004	4...	y	8	16444...	2919...	.873	1.694	H2-1
53	M127	L2.5x2.5x3	.061	2.097	2	.004	0	z	8	16444...	2919...	.873	1.694	H2-1
54	M128	L2.5x2.5x3	.064	2.097	4	.004	4...	y	10	16444...	2919...	.873	1.694	H2-1
55	M129	L2.5x2.5x3	.061	2.097	10	.004	4...	z	4	16444...	2919...	.873	1.694	H2-1
56	M130	L2.5x2.5x3	.063	2.097	12	.004	0	y	6	16444...	2919...	.873	1.694	H2-1



I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
n67	270
n105	150
n72a	30

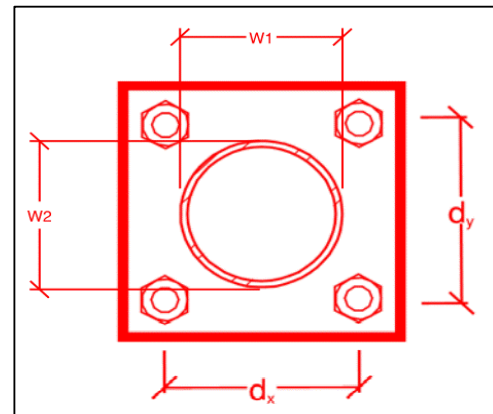


TYPICAL PLATFORM

Tower Connection Bolt Checks

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

yes
4
7
7
A325N
0.75
22.6
3.0
29.8
17.9
19.0%*
4.2%



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

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:
 Plate Width (in):
 Plate Height (in):
 W_1 (in):
 W_2 (in):
 F_y (ksi, plate):
 t_{plate} (in):
 Weld Size (1/16 in):
 $\Phi * R_n$ (kip/in):
 Required Weld Strength (kip/in):
 Plate Bending Capacity:
 Weld Capacity:

Rect
10
10
3
5
36
0.75
4
5.57
4.53
28.0%
81.3%

Unique Weld Check

Weld Pattern:	(2) Vertical Fillet Welds
L1 (in):	0.56
L2 (in):	8

Max Plate Bending Strengths

$M_{u_{xx}}$ (kip-in) :	10.7
$\Phi * M_{n_{xx}}$ (kip-in) :	45.6
$M_{u_{yy}}$ (kip-in) :	2.1
$\Phi * M_{n_{yy}}$ (kip-in) :	45.6

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

Purpose – to provide MASER CONSULTING CONNECTICUT the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

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

Base Requirements:

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

Photo Requirements:

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

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

Material Certification:

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

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

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

Certifying Individual: Company _____

Name _____

Signature _____

Antenna & equipment placement and Geometry Confirmation:

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

Certifying Individual: Company _____

Name _____

Signature _____

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

Issue:

Contractor shall relocate the existing OVP that is bolted to the grating to proposed OVP mount pipe.
Contractor shall install 48" long P2.0 STD mount pipe on standoff arm in beta sector. Attach the proposed mount pipe to the standoff with crossover plate (Perfect Vision Part #: PV-XP-ST-U or EOR approved equivalent).
Install mount pipe with 36" above the standoff and 12" below.
Contractor shall attach proposed OVP 12" from the top of mount pipe.

Contractor to install safety climb cable guide (Site Pro 1, Part # 120-203/317 or EOR approved equivalent) in the new proposed mount collar. Contractor to provide photos of safety climb guide installation.

Response:

Schedule A – Photo & Document File Structure

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

Sector: **A**
 Structure Type: Monopole
 Mount Elev: 161.75

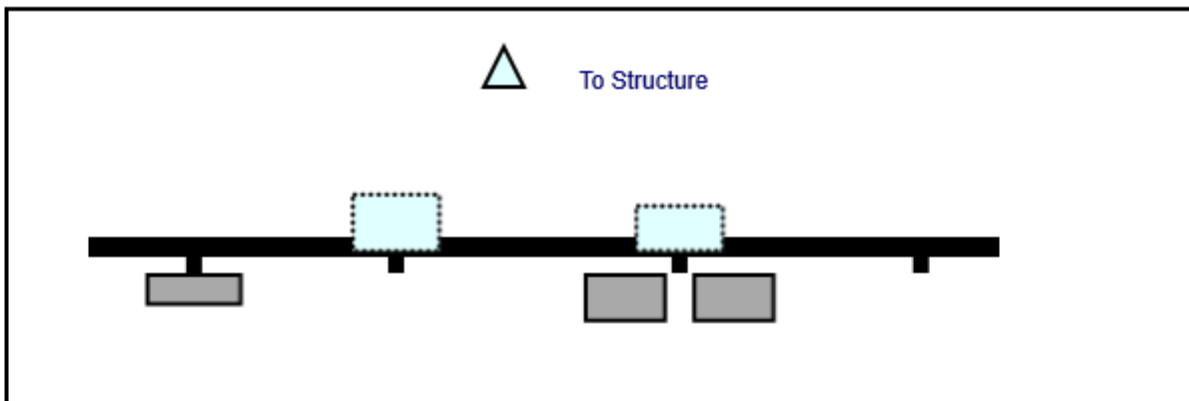
10050363

6/10/2021

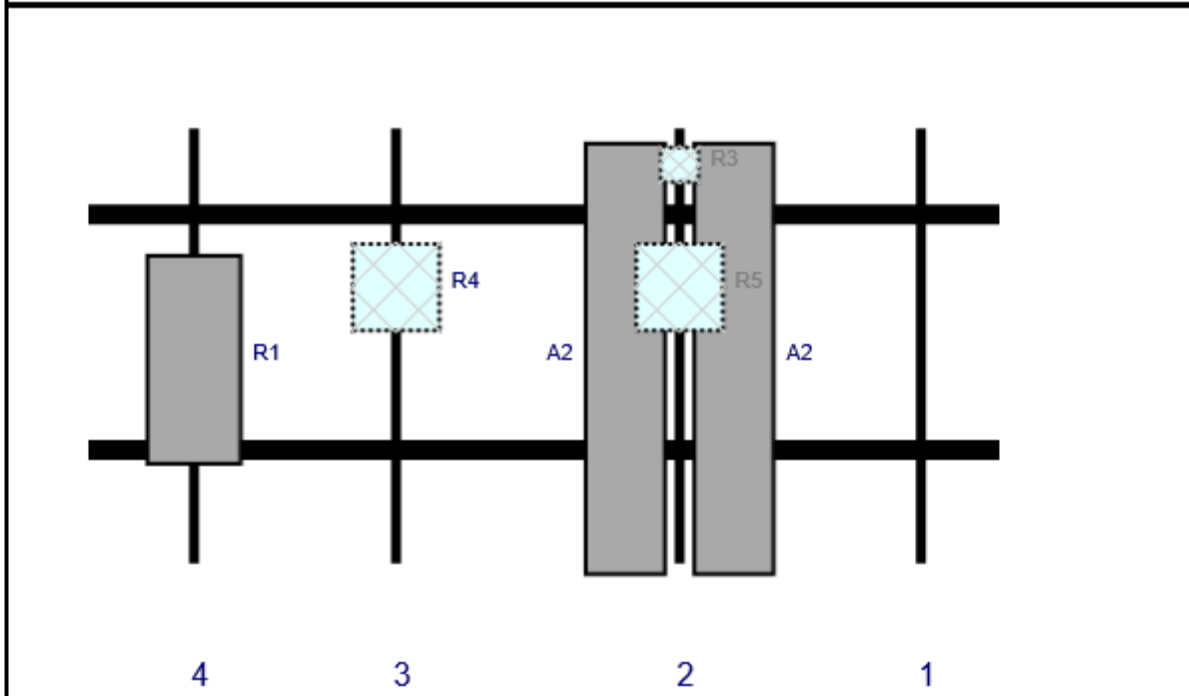
Page: 1



Plan View



Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	JAHH-65B-R3B	72	13.8	98	2	a	Front	38.16	9	Retained	03/27/2021
A2	JAHH-65B-R3B	72	13.8	98	2	b	Front	38.16	-9	Retained	03/27/2021
R3	CBC78T-DS-43-2X	6.4	6.9	98	2	a	Behind	6	0	Added	
R5	B5/B13 RRH-BR04C	15	15	98	2	a	Behind	26.28	0	Retained	03/27/2021
R4	B2/B66A RRH-BR049	15	15	51	3	a	Behind	26.28	0	Retained	03/27/2021
R1	MT6407-77A	35.1	16.1	17.5	4	a	Front	38.28	0	Added	

Sector: **B**
 Structure Type: Monopole
 Mount Elev: 161.75

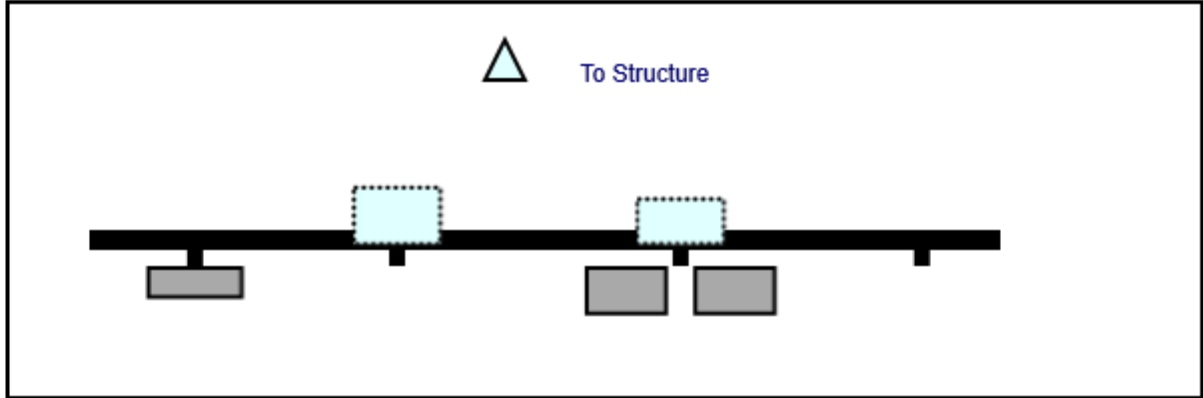
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6/10/2021

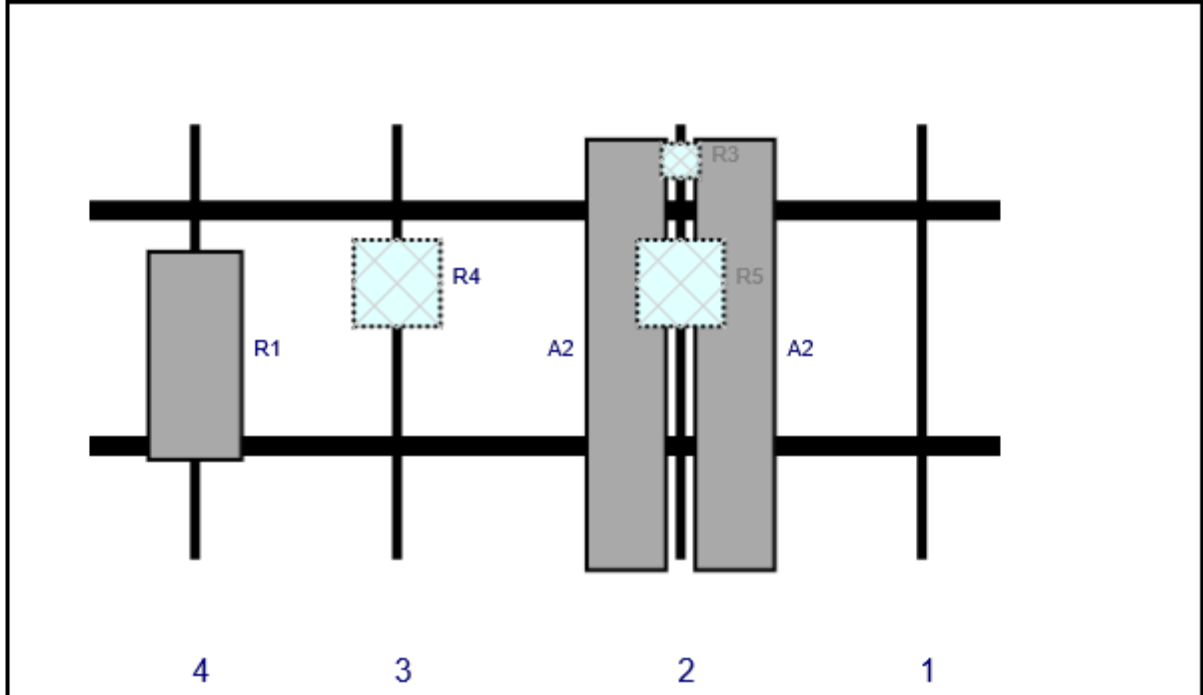
Page: 2



Plan View



Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	JAHH-65B-R3B	72	13.8	98	2	a	Front	38.16	9	Retained	03/27/2021
A2	JAHH-65B-R3B	72	13.8	98	2	b	Front	38.16	-9	Retained	03/27/2021
R3	CBC78T-DS-43-2X	6.4	6.9	98	2	a	Behind	6	0	Added	
R5	B5/B13 RRH-BR04C	15	15	98	2	a	Behind	26.28	0	Retained	03/27/2021
R4	B2/B66A RRH-BR049	15	15	51	3	a	Behind	26.28	0	Retained	03/27/2021
R1	MT6407-77A	35.1	16.1	17.5	4	a	Front	38.28	0	Added	

Sector: C
 Structure Type: Monopole
 Mount Elev: 161.75

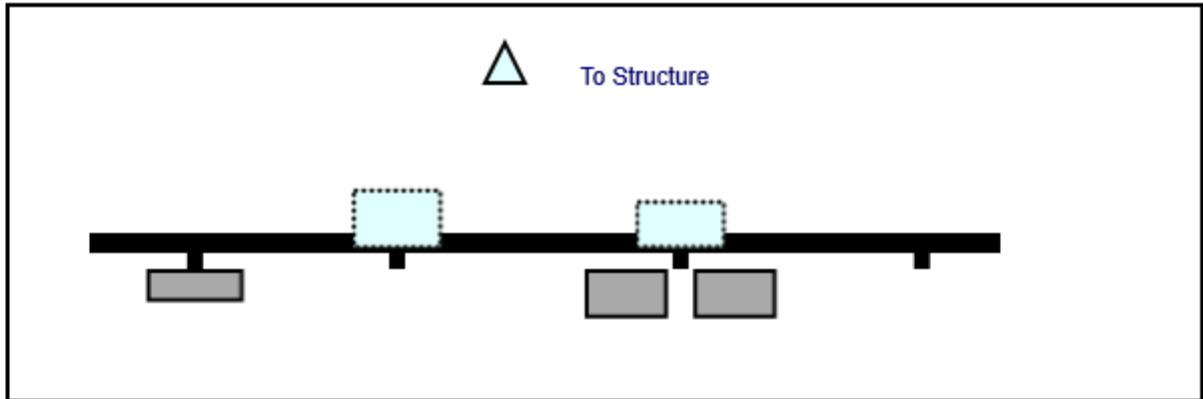
6/10/2021

10050363

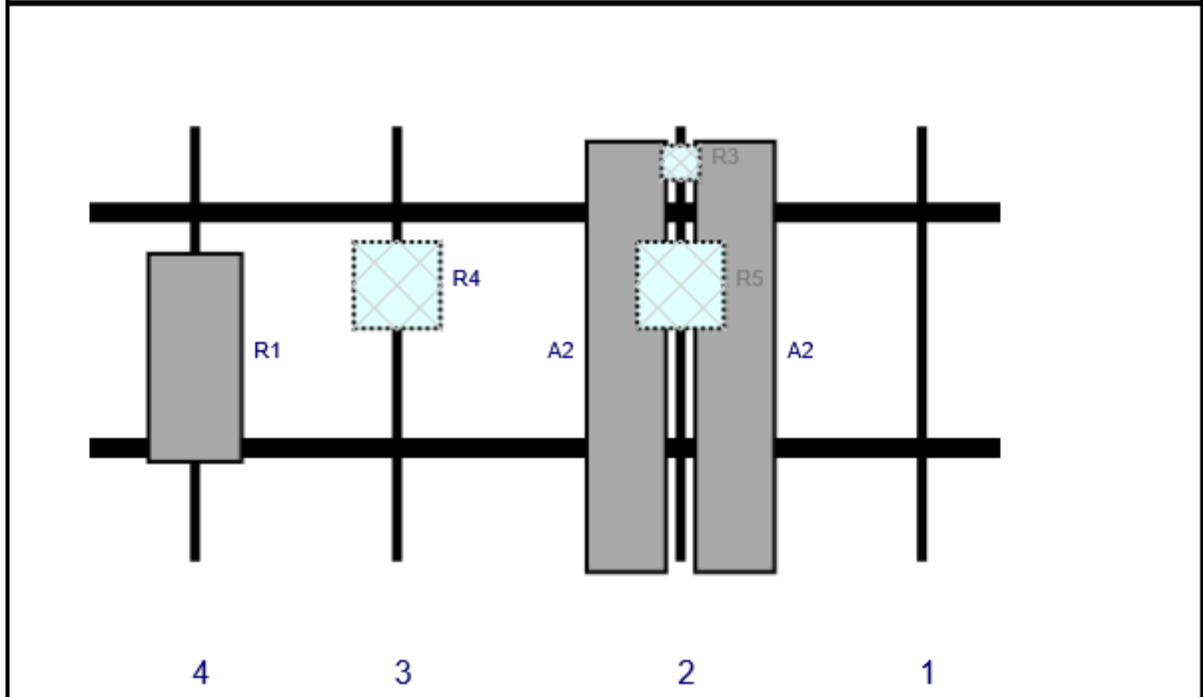
Page: 3



Plan View



Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	JAHH-65B-R3B	72	13.8	98	2	a	Front	38.16	9	Retained	03/27/2021
A2	JAHH-65B-R3B	72	13.8	98	2	b	Front	38.16	-9	Retained	03/27/2021
R3	CBC78T-DS-43-2X	6.4	6.9	98	2	a	Behind	6	0	Added	
R5	B5/B13 RRH-BR04C	15	15	98	2	a	Behind	26.28	0	Retained	03/27/2021
R4	B2/B66A RRH-BR049	15	15	51	3	a	Behind	26.28	0	Retained	03/27/2021
R1	MT6407-77A	35.1	16.1	17.5	4	a	Front	38.28	0	Added	

Subject

TIA-222-H Usage

Site Information

Site ID: 468035-VZW /
COLCHESTER S 2 CT - ATC monopole
Site Name: COLCHESTER S 2 CT - ATC monopole
Carrier Name: Verizon Wireless
Address: 355 Route 85
Colchester, Connecticut 06415
New London County
Latitude: 41.54482028°
Longitude: -72.30489083°

Structure Information

Tower Type: Monopole
Mount Type: 12.58-Ft Platform

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 site to ensure the engineer is taking into account the most current engineering standard available.

Sincerely,

Dejian Xu, PE
Technical Manager



PROJECT NOTES

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



MOUNT MODIFICATION DRAWINGS EXISTING 12.58' PLATFORM

SITE NAME: COLCHESTER 2 CT - ATC MONOPOLE
SITE NUMBER: 468035

355 ROUTE 85
COLCHESTER, CT 06415
NEW LONDON COUNTY

PROJECT INFORMATION	
SITE INFORMATION	
LATITUDE:	41.54482028° N
LONGITUDE:	72.30489063° W
JURISDICTION:	NEW LONDON COUNTY
APPLICANT/LESSEE	
COMPANY:	VERIZON WIRELESS
CLIENT REPRESENTATIVE	
COMPANY:	VERIZON WIRELESS
ADDRESS:	118 FLANDERS ROAD, THIRD FLOOR
CITY, STATE, ZIP:	WESTBOROUGH, MA 01581
CONTACT:	ANDREW CANDIELLO
EMAIL:	ANDREW.CANDIELLO@VERIZONWIRELESS.COM
PROJECT MANAGER	
COMPANY:	MASER CONSULTING
CONTACT:	PETER ALBANO
PHONE:	(856) 797-0412
E-MAIL:	PETER.ALBANO@COLLIERSENGINEERING.COM

SHEET INDEX	
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

CONTRACTOR PMI REQUIREMENTS	
PMI LOCATION:	HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #:	10069083
VZW LOCATION CODE (PSLC):	468035
FUZE ID:	16272107

REFERENCED DOCUMENTS	
	FAILING MOUNT ANALYSIS REPORT
SMART TOOL PROJECT #:	10050363
MASER CONSULTING PROJECT #:	21777428A
ANALYSIS DATE:	5/4/2021

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

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WWW.CALL811.COM

SCALE: AS SHOWN JOB NUMBER: 21777428A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	06/11/2021	ISSUED FOR CONSTRUCTION	JRF	PPA



06/11/2021

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE RESPONSIBLE LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE NAME:
COLCHESTER 2 CT - ATC MONOPOLE
468035
355 ROUTE 85
COLCHESTER, CT 06415
NEW LONDON COUNTY

MT. LAUREL OFFICE
2000 Madison Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T-1

BILL OF MATERIALS

VZWSMART KITS				
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
	VZWSMART			
OTHER REQUIRED PARTS				
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
1	SITE PRO 1	PRK-SFS	SUPPORT RAIL REINFORCEMENT KIT	OR EOR APPROVED EQUAL, CONTACT MASER CONSULTING FOR APPROVAL OF SUBSTITUTION. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2
1	PERFECT VISION	PV-XP-ST	SQUARE TUBE CROSSOVER PLATE	OR EOR APPROVED EQUAL, CONTACT MASER CONSULTING FOR APPROVAL OF SUBSTITUTION
1	-	-	48" LONG, P2.0 STD PIPE	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 RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSALES@PERFECT-VISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM
SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

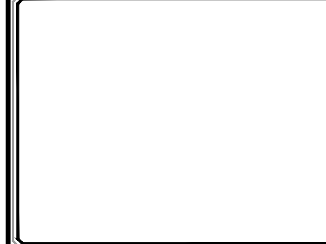
NOTE: WHEN SPECIFIED, VZWSMART KITS SHALL BE REQUIRED AND WILL BE VERIFIED DURING THE DESKTOP PMI



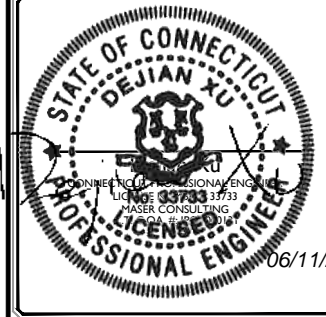
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2000 Highlands Drive
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Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE:
BILL OF MATERIALS
SHEET NUMBER:
S-1

M:\Projects\1641468035_Colchester 2 CT - ATC - Mount Laurel Drive\210609.dwg:11 By: JPA388

GENERAL NOTES

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

DESIGN LOADS

- WIND LOADS
- a. BASIC WIND SPEED (3 SECOND GUST), V = 122 MPH
 - b. EXPOSURE CATEGORY B
 - c. TOPOGRAPHIC CATEGORY I
 - d. MEAN BASE ELEVATION (AMSL) = 557.74'

- ICE LOADS
- a. ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
 - b. ICE THICKNESS = 1.00 IN

- SEISMIC LOADS
- a. SEISMIC DESIGN CATEGORY B
 - b. SHORT TERM MCER GROUND MOTION, S_s = .205
 - c. LONG TERM MCER GROUND MOTION, S_l = .055

STRUCTURAL STEEL

1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
 - a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
 - b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
 - c. AISC CODE OF STANDARD PRACTICE
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:

- | | |
|--------------------------------|--------------------------|
| CHANNELS, ANGLES, PLATES, ETC. | ASTM A36 (GR 36) |
| STEEL PIPE | ASTM A53 (GR 35) |
| BOLTS | ASTM A325 |
| NUTS | ASTM A563 |
| LOCK WASHERS | LOCKING STRUCTURAL GRADE |

3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 - a. SUBMIT SHOP DRAWINGS TO PETER.ALBANO@COLLIERSENGINEERING.COM
 - b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BE 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.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
9. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
10. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
11. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
12. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
13. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.

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



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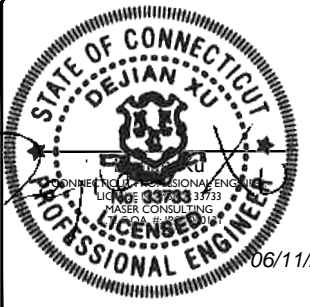



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SHEET TITLE:
MODIFICATION NOTES

SHEET NUMBER:
S-2

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MODIFICATION INSPECTION NOTES

MI CHECKLIST	
CONSTRUCTION/ INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY EOR)	REPORT ITEM
PRE-CONSTRUCTION	
X	MI CHECKLIST DRAWING
X	EOR APPROVED SHOP DRAWINGS
NA	FABRICATION INSPECTION
NA	FABRICATOR CERTIFIED WELD INSPECTION
X	MATERIAL TEST REPORT (MTR)
NA	FABRICATOR NDE INSPECTION
X	PACKING SLIPS
ADDITIONAL TESTING AND INSPECTIONS:	
CONSTRUCTION	
X	CONSTRUCTION INSPECTIONS
NA	CONTRACTOR'S CERTIFIED WELD INSPECTION AND NDE REPORTS
X	ON SITE COLD GALVANIZING VERIFICATION
X	GC AS-BUILT DOCUMENTS
ADDITIONAL TESTING AND INSPECTIONS:	
POST-CONSTRUCTION	
X	MI INSPECTOR REDLINE OR RECORD DRAWING(S)
X	VZW 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 CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY 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 ITSELF, NOR DOES THE MI INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL 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 BEGIN COMMUNICATING AND COORDINATING 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.
- THE GC AND MI INSPECTOR COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE SIMULTANEOUSLY FOR ANY GUY WIRE TENSIONING OR RE-TENSIONING OPERATIONS.
- IT MAY BE BENEFICIAL TO INSTALL ALL MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTIONS TO ALLOW THE FOUNDATION AND MI INSPECTION(S) TO COMMENCE WITH ONE SITE VISIT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE DURING THE MI TO HAVE ANY DEFICIENCIES CORRECTED DURING THE INITIAL MI. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MI CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON SITE.

CORRECTION OF FAILING MI'S

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

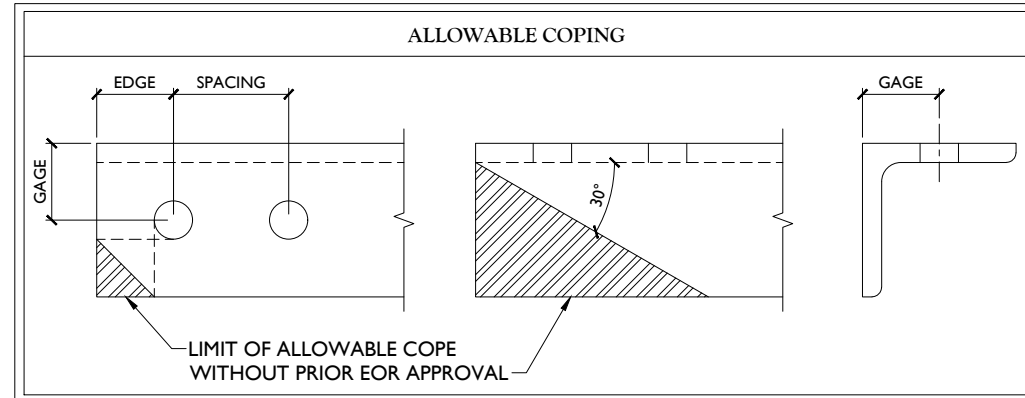
- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.

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:

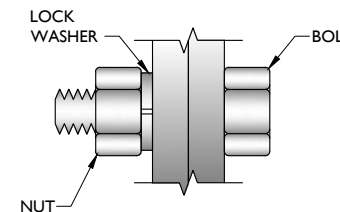
- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
 - RAW MATERIALS
 - PHOTOS OF ALL CRITICAL DETAILS
 - FOUNDATION MODIFICATIONS
 - WELD PREPARATION
 - BOLT INSTALLATION
 - FINAL INSTALLED CONDITION
 - SURFACE COATING REPAIR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

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



BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 11/16	7/8	1 1/2
5/8	11/16	11/16 x 7/8	1 1/8	1 7/8
3/4	13/16	13/16 x 1	1 1/4	2 1/4
7/8	15/16	15/16 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

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:

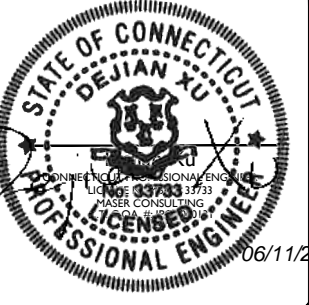
- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
- THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC 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.

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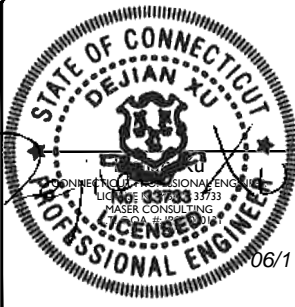
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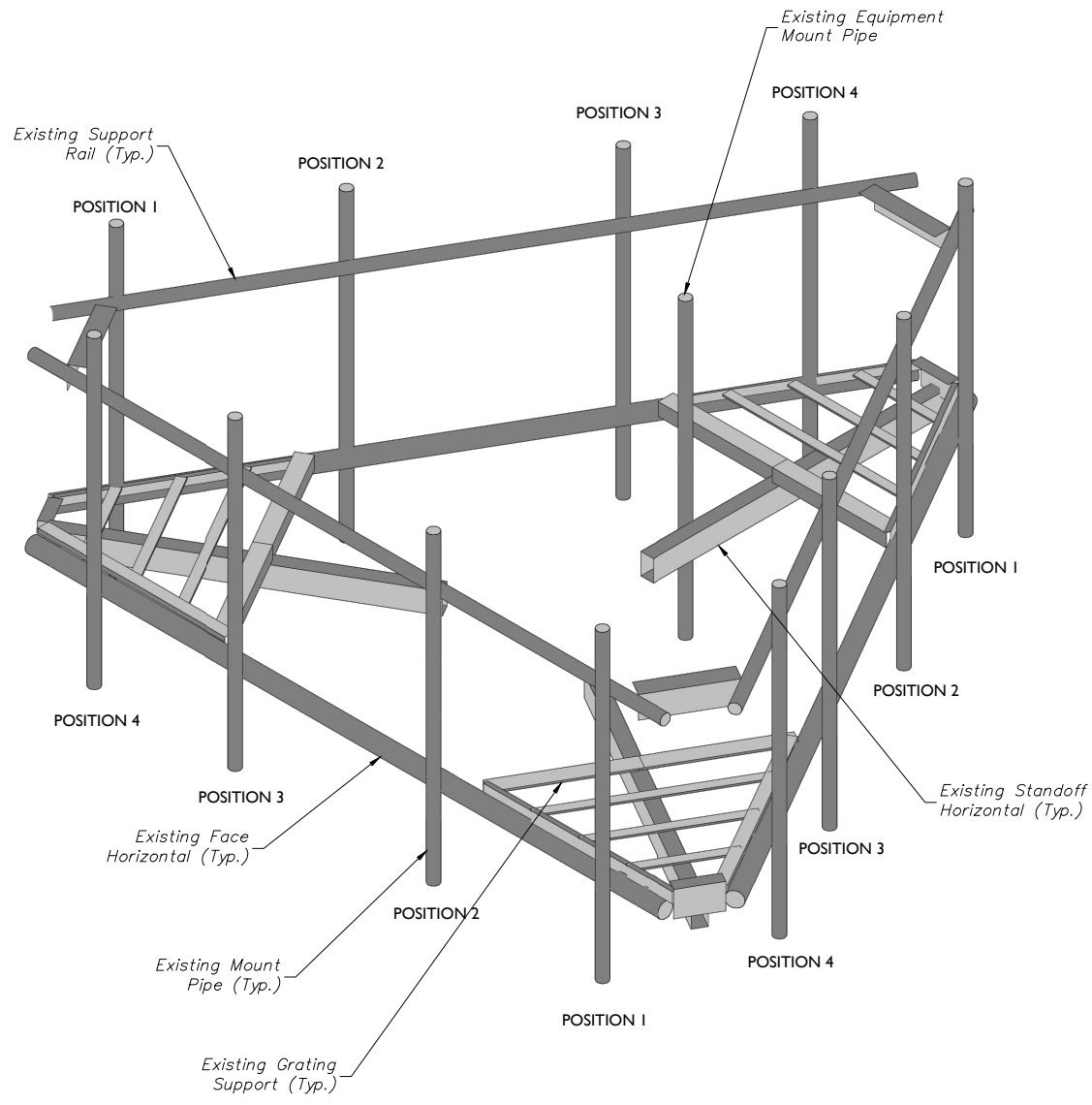
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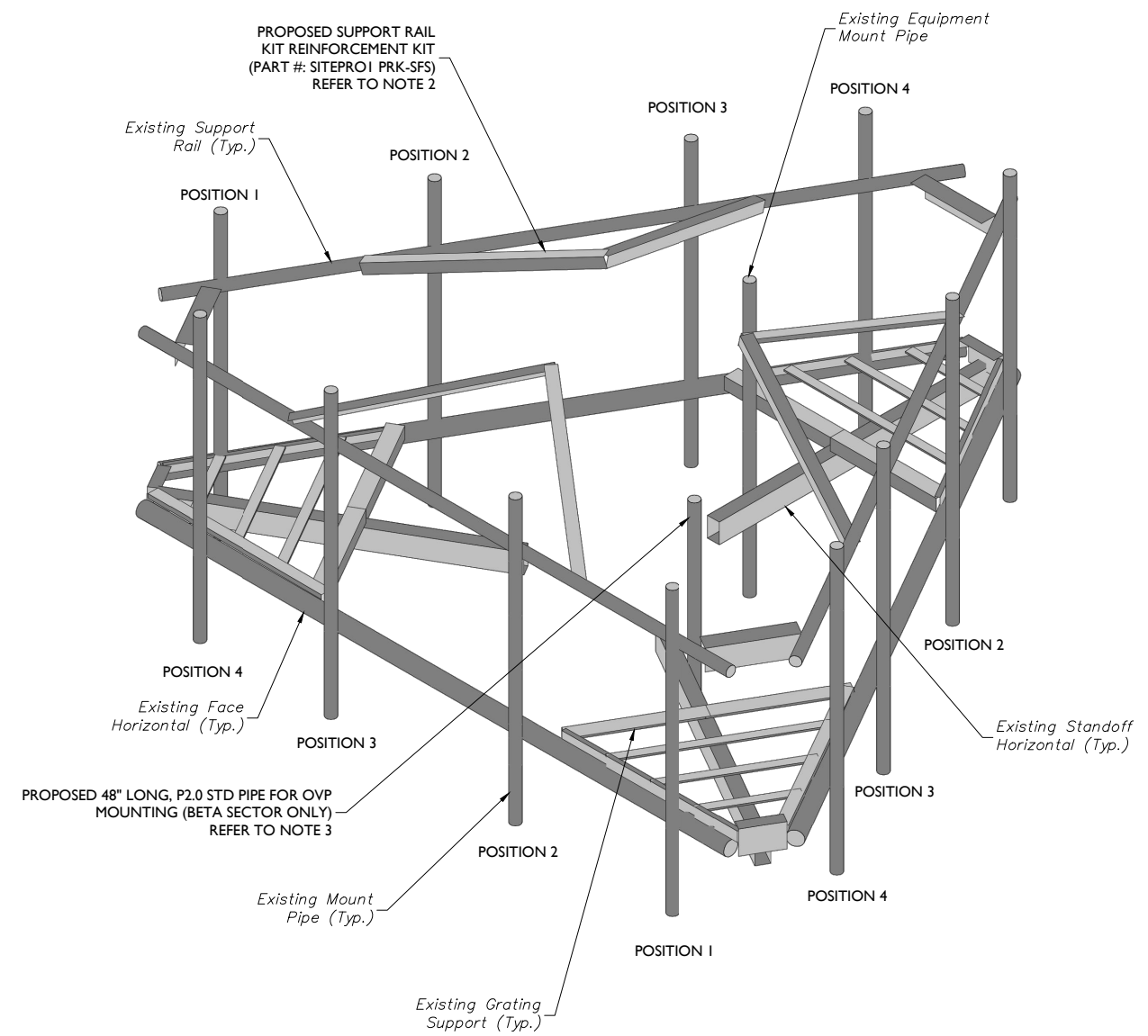
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SHEET TITLE:
MODIFICATION DETAILS

SHEET NUMBER:
S-4



1 EXISTING PLATFORM ISOMETRIC VIEW
SCALE : N.T.S.



2 PROPOSED PLATFORM ISOMETRIC VIEW
SCALE : N.T.S.

STRUCTURAL NOTES:

- PER THE MOUNT MAPPING COMPLETED BY RKS DESIGN & ENGINEERING LLC ON 3/27/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (161'-9") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
- INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

MODIFICATION NOTES:

- MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
- CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
- CONNECT NEW OVP PIPE TO EXISTING STANDOFF HORIZONTAL WITH CROSSOVER PLATES (PART #: PERFECT VISION PV-XP-ST, OR EOR APPROVED EQUAL).

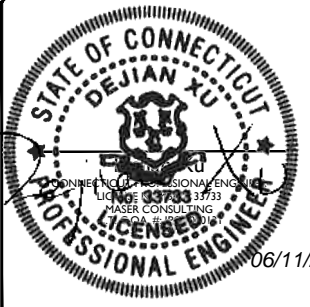
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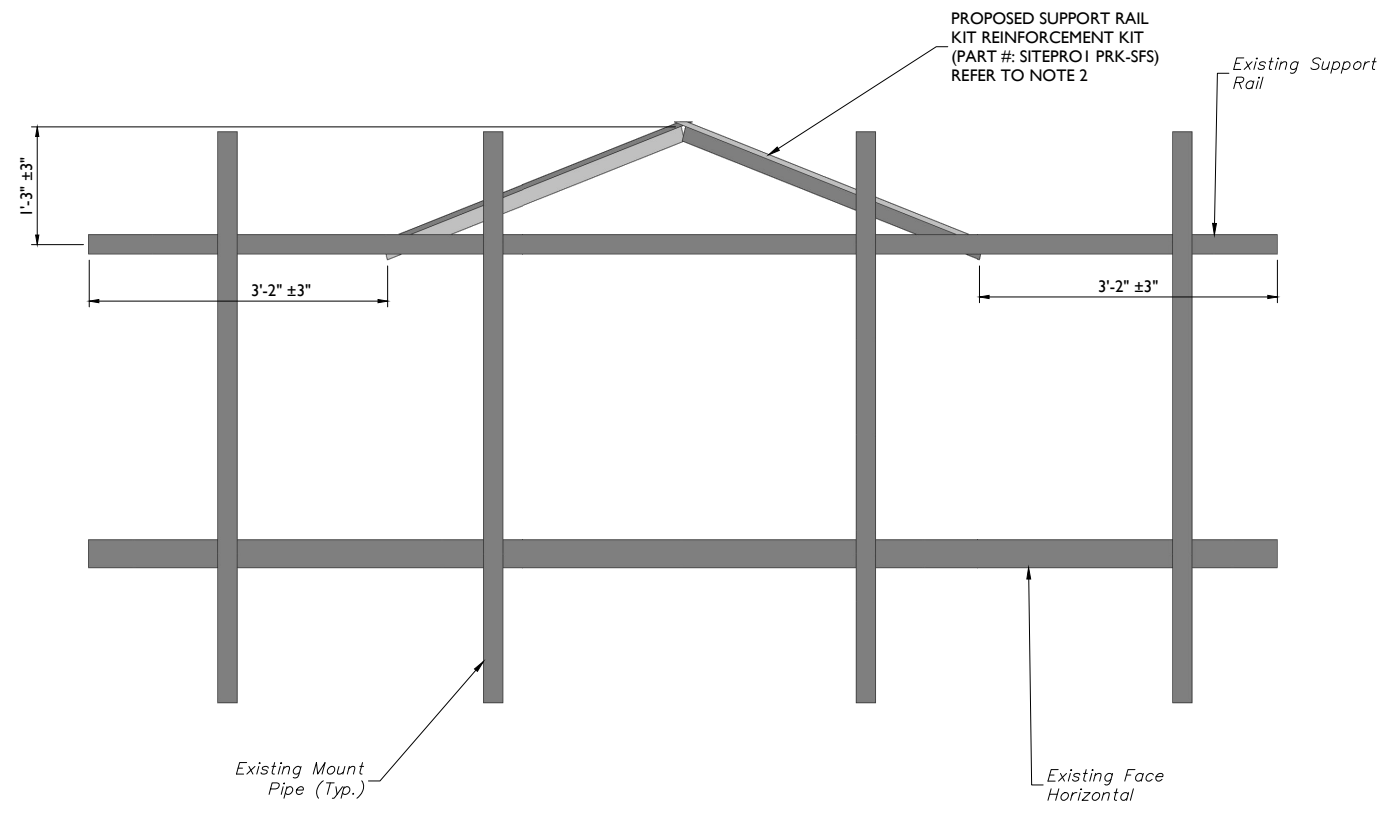
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE RESPONSIBLE LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE NAME:
COLCHESTER 2 CT - ATC MONOPOLE
468035
355 ROUTE 85
COLCHESTER, CT 06415
NEW LONDON COUNTY

MT. LAUREL OFFICE
2000 Highlands Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE:
MODIFICATION DETAILS

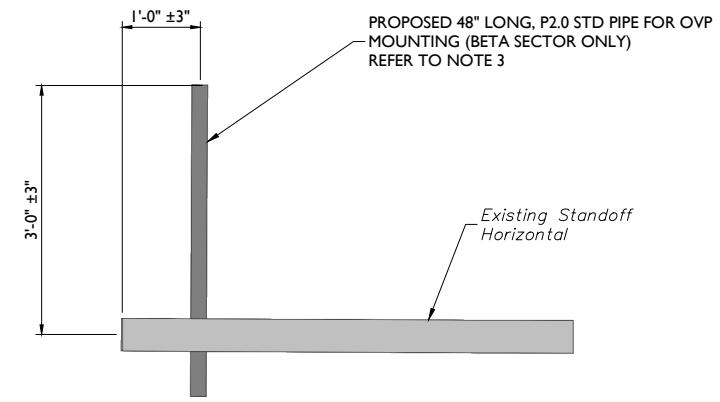
SHEET NUMBER:
S-5



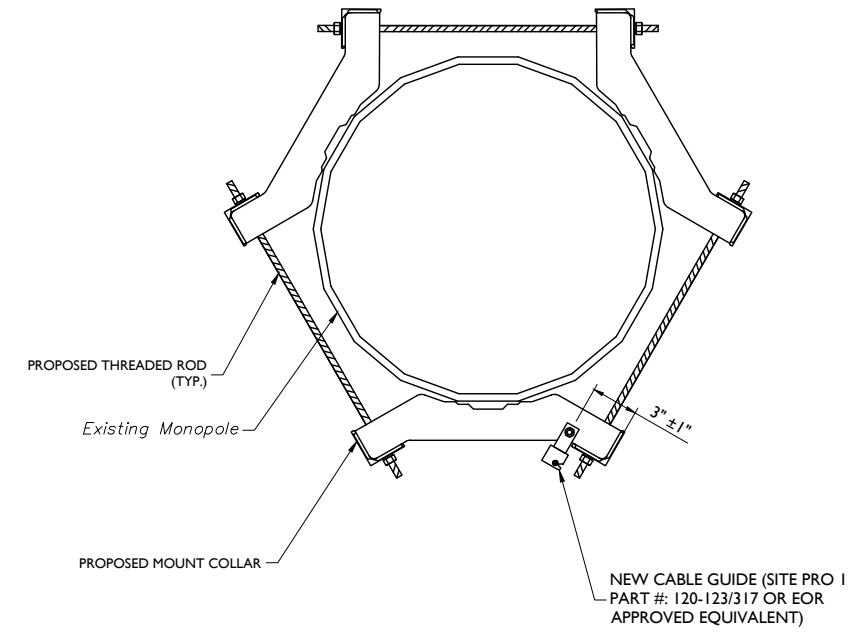
1 PROPOSED FRONT ELEVATION VIEW (TYP. EACH SECTOR)
SCALE : N.T.S.

MODIFICATION NOTES:

- MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
- CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
- CONNECT NEW OVP PIPE TO EXISTING STANDOFF HORIZONTAL WITH CROSSOVER PLATES (PART #: PERFECT VISION PV-XP-ST, OR EOR APPROVED EQUAL).



2 PROPOSED SIDE ELEVATION VIEW FOR OVP MOUNTING (BETA SECTOR ONLY)
SCALE : N.T.S.



3 PROPOSED SAFETY CLIMB DETAIL
SCALE : N.T.S.

M:\Projects\16414\MS031 - COLCHESTER 2 CT - ATC - Mount Hill Drawings\31009.dwg: S-5



MOUNT PHOTO 1



MOUNT PHOTO 2



MOUNT PHOTO 3



MOUNT PHOTO 4



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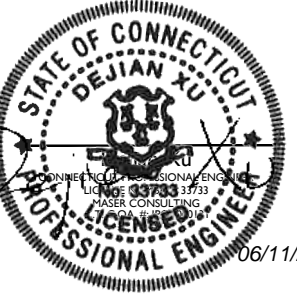
- Office Locations:
- NEW JERSEY
 - NEW MEXICO
 - NEW YORK
 - MARYLAND
 - PENNSYLVANIA
 - GEORGIA
 - VIRGINIA
 - TEXAS
 - FLORIDA
 - TENNESSEE
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 Know what's below. Call before you dig.
 FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE:	AS SHOWN	JOB NUMBER:	21777428A
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0	06/11/2021	ISSUED FOR CONSTRUCTION	JRF / PMA



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SITE NAME:
 COLCHESTER 2 CT - ATC
 MONOPOLE
 468035
 355 ROUTE 85
 COLCHESTER, CT 06415
 NEW LONDON COUNTY

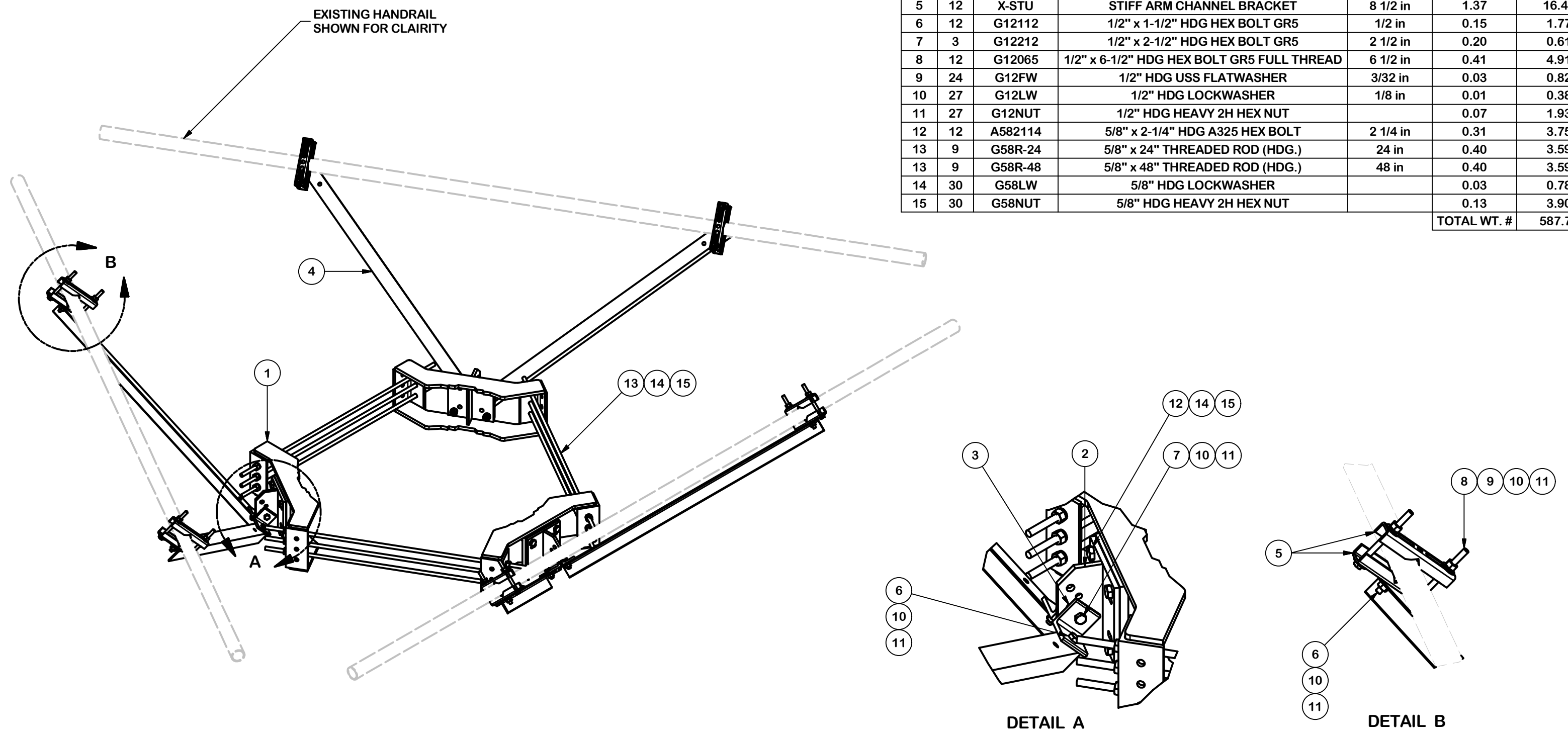
MT. LAUREL OFFICE
 2000 Madison Drive
 Suite 100
 Mount Laurel, NJ 08054
 Phone: 856.797.0412
 Fax: 856.722.1120

SHEET TITLE:
 MOUNT PHOTOS

SHEET NUMBER:
 S-6

M:\Projects\16414\68035_Colchester2.ct.atc\Plan\Held\Drawings\210609_dwg1.dwg By: JFASBR

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-LWRM	RING MOUNT WELDMENT		68.81	206.42
2	3	X-TBW	T-BRACKET WELDMENT		13.60	40.80
3	6	SHCM-T	CHAIN MOUNT TIGHTENER BRACKET	3 in	1.86	11.15
4	6	X-232697	TRPD-HD DIAGONAL ANGLE - SITE PRO 1	52 1/2 in	14.35	86.08
5	12	X-STU	STIFF ARM CHANNEL BRACKET	8 1/2 in	1.37	16.46
6	12	G12112	1/2" x 1-1/2" HDG HEX BOLT GR5	1/2 in	0.15	1.77
7	3	G12212	1/2" x 2-1/2" HDG HEX BOLT GR5	2 1/2 in	0.20	0.61
8	12	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	4.91
9	24	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.82
10	27	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.38
11	27	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	1.93
12	12	A582114	5/8" x 2-1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	3.75
13	9	G58R-24	5/8" x 24" THREADED ROD (HDG.)	24 in	0.40	3.59
13	9	G58R-48	5/8" x 48" THREADED ROD (HDG.)	48 in	0.40	3.59
14	30	G58LW	5/8" HDG LOCKWASHER		0.03	0.78
15	30	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	3.90
					TOTAL WT. #	587.71



REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	CHANGED MAX. DIA. FOR HANDRAIL CONNECTION	SP1	BC	10/23/2017

REVISION HISTORY

TOLERANCE NOTES

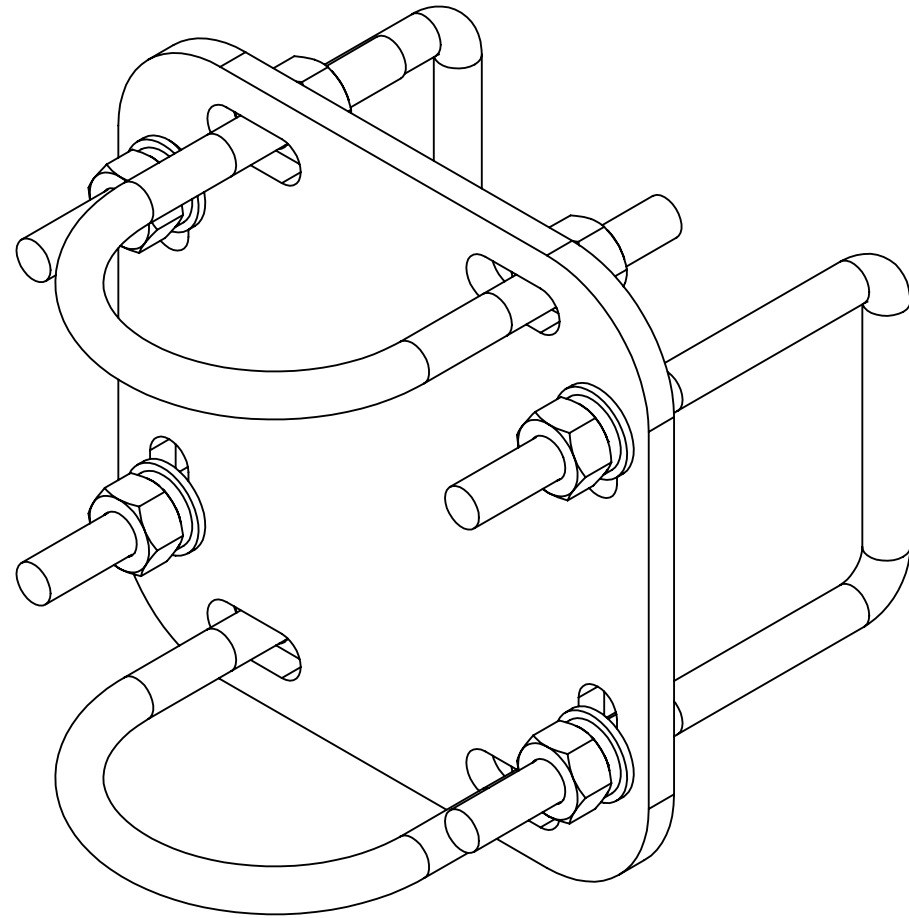
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030''$)
 DRILLED AND GAS CUT HOLES ($\pm 0.030''$) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES ($\pm 0.010''$) - NO CONING OF HOLES
 BENDS ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING ($\pm 0.030''$)
 ALL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

PROPRIETARY NOTE:
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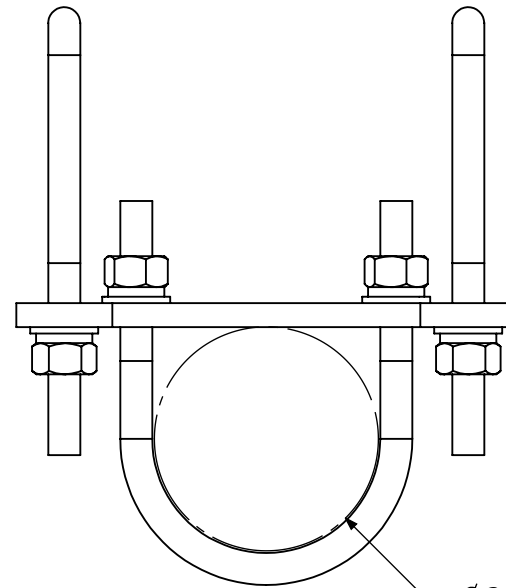
DESCRIPTION			
HANDRAIL REINFORCEMENT KIT			
CPD NO.	DRAWN BY	ENG. APPROVAL	
SP1	CSL3 2/23/2017	3RD PARTY	
CLASS	SUB	DRAWING USAGE	CHECKED BY
81	02	SHOP	BMC 3/16/2017

 A valmont COMPANY	Engineering Support Team: 1-888-753-7446	Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX
	PART NO. PRK-SFS	
DWG. NO. PRK-SFS		1 OF 3 <small>PAGE</small>

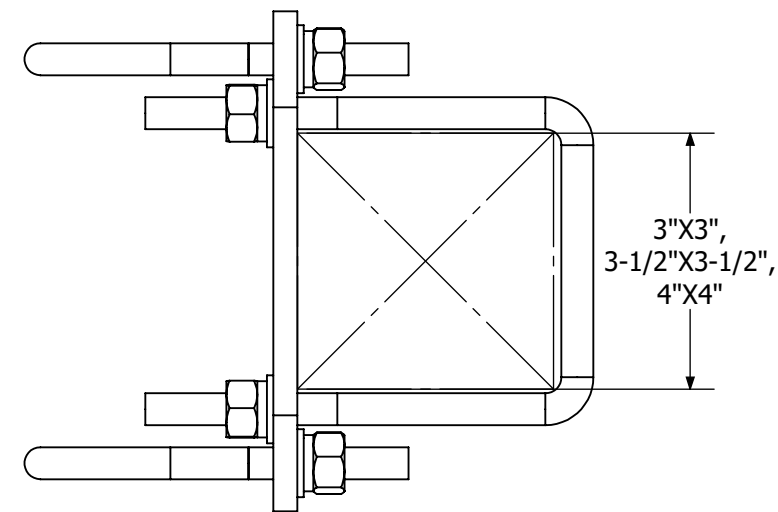
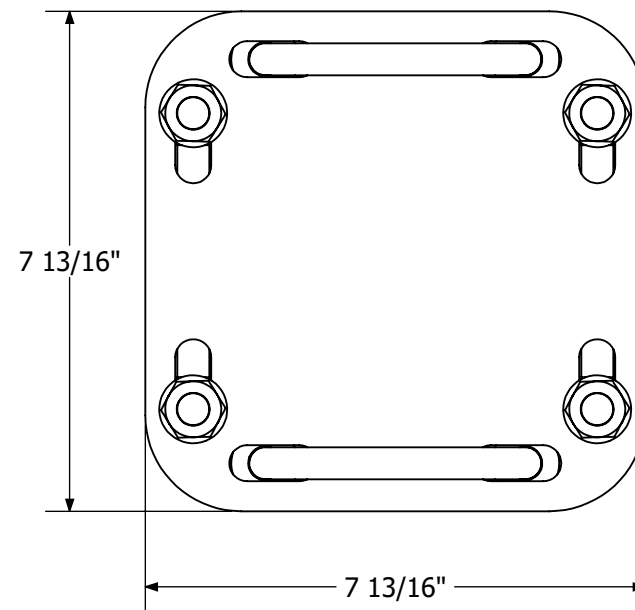
**PV-XP-ST
SQUARE TUBE TO ROUND PIPE CROSSOVER**



**PV-XP-ST
SQUARE TUBE TO ROUND PIPE CROSSOVER
WEIGHT: SEE TABLE 1**



$\phi 2 \frac{3}{8}$ ", $\phi 2 \frac{7}{8}$ ", $\phi 3 \frac{1}{2}$ "



Part Number	Square Tube	Round Pipe	Weight (lbs)
PV-XP-30ST20	3"	NPS 2 (2-3/8" OD)	10
PV-XP-30ST25	3"	NPS 2-1/2 (2-7/8" OD)	10
PV-XP-30ST30	3"	NPS 3 (3-1/2" OD)	10
PV-XP-35ST20	3-1/2"	NPS 2 (2-3/8" OD)	10
PV-XP-35ST25	3-1/2"	NPS 2-1/2 (2-7/8" OD)	10
PV-XP-35ST30	3-1/2"	NPS 3 (3-1/2" OD)	10
PV-XP-40ST20	4"	NPS 2 (2-3/8" OD)	10
PV-XP-40ST25	4"	NPS 2-1/2 (2-7/8" OD)	10
PV-XP-40ST30	4"	NPS 3 (3-1/2" OD)	10



16101 La Grande Dr.
Little Rock, AR 72223
1-800-205-8620

STAMP:

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REVISIONS:

NO.	DATE	INITIAL RELEASE	DESCRIPTION	BY	CHK	APD
5					SS	
4					AM	
3					DJN	
2						
1						
0	9/27/16					

SITE INFORMATION:

DESIGN TYPE:

**SQUARE TUBE
CROSSOVER PLATE**

SHEET TITLE:

ENGINEERING DETAIL

SHEET NO.:

E-1

REVISION:

0

Site Name: **COLCHESTER S 2 CT**
 Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm ²)	(mW/cm ²)	(%)
VZW 700	751	4	628	2511	163	0.0034	0.5007	0.68%
VZW Cellular	874	4	725	2902	163	0.0039	0.5827	0.67%
VZW PCS	1977.5	4	1480	5919	163	0.0080	1.0000	0.80%
VZW AWS	2120	4	1450	5802	163	0.0079	1.0000	0.79%
VZW CBAND	3730.08	4	6531	26125	163	0.0354	1.0000	3.54%
Total Percentage of Maximum Permissible Exposure								6.48%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

MHz = Megahertz

mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

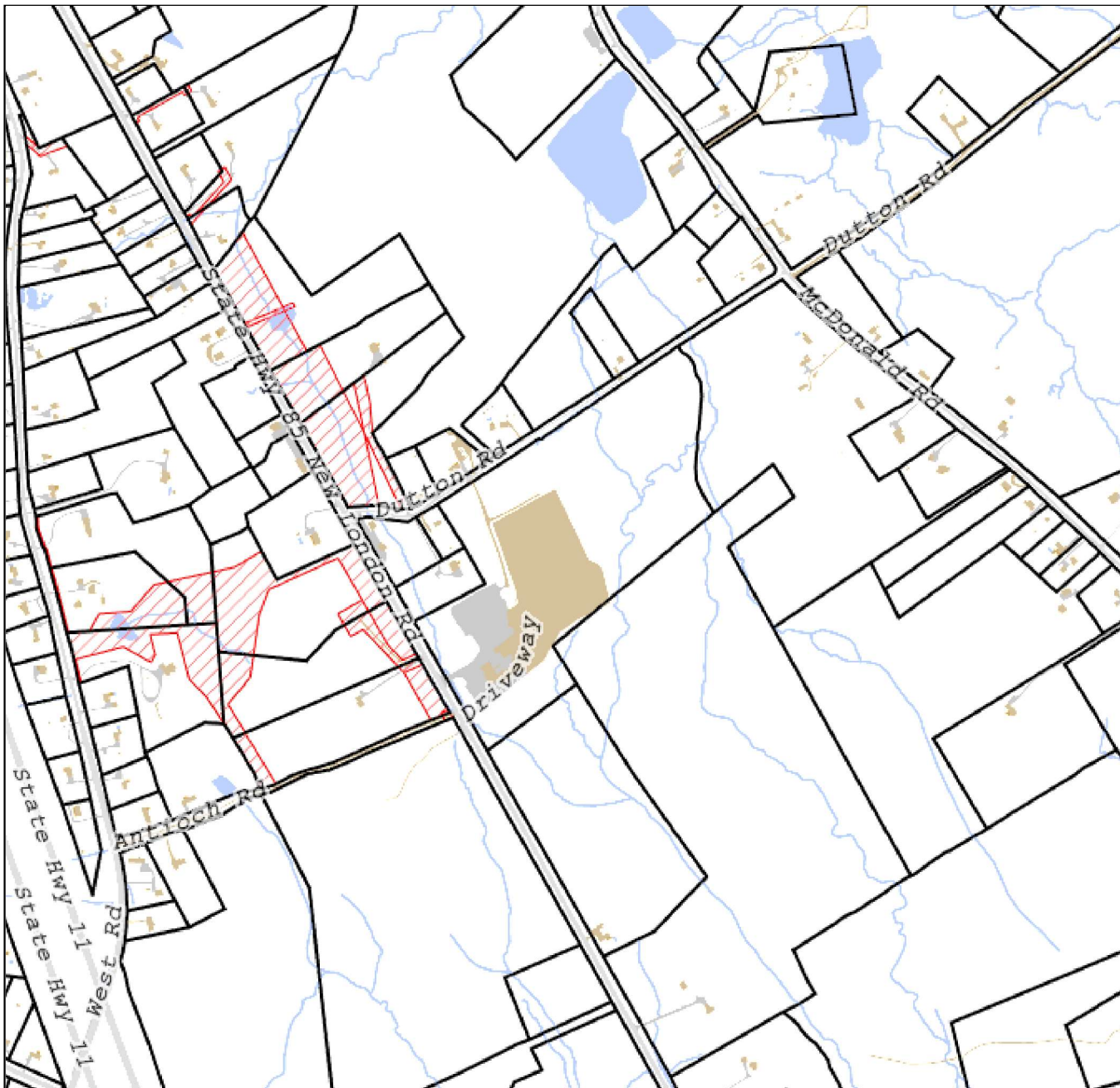
Absolute worst case maximum values used.

Town of Colchester

Geographic Information System (GIS)



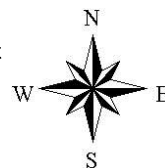
Date Printed: 7/12/2021



MAP DISCLAIMER - NOTICE OF LIABILITY

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Approximate Scale: 1 inch = 800 feet





Town of Colchester, CT

Property Report

Map Block Lot

02-08/003-000

PID 3051

Building # 1

Section # 1

Account

M0062200

Property Information

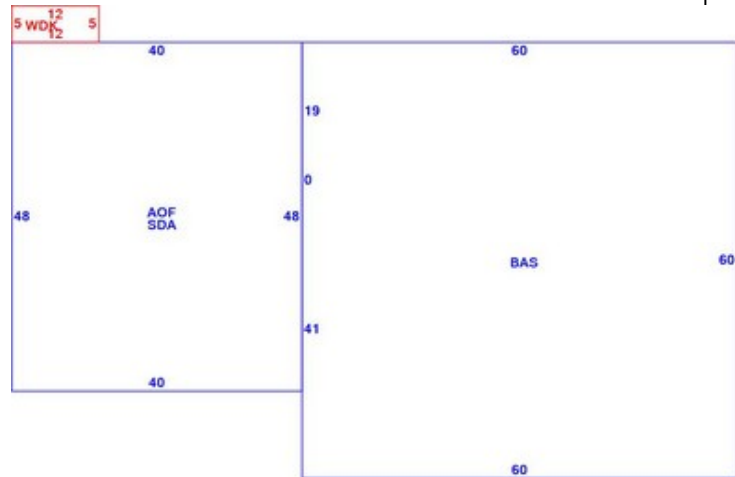
Property Location	355 NEW LONDON RD
Owner	M+J AUTO RECYCLING INC
Co-Owner	na
Mailing Address	PO BOX 908 COLCHESTER CT 06415
Land Use	3320 Auto Repr
Land Class	C
Zoning Code	R60
Census Tract	

Neighborhood	
Acreage	36.1
Utilities	UNKNOWN
Lot Setting/Desc	UNKNOWN UNKNOWN
Additional Info	

Photo



Sketch



Primary Construction Details

Year Built	1981
Stories	2
Building Style	Service Shop
Building Use	Serv Station
Building Condition	
Interior Floors 1	Linoleum
Interior Floors 2	Concrete Slab
Total Rooms	0
Basement Garages	
Occupancy	1.00
Building Grade	

Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Bath Style	
Kitchen Style	
Roof Style	Gable
Roof Cover	Metal/Tin
AC Type	Central
Fireplaces	0

Exterior Walls	Pre-finsh Metl
Exterior Walls 2	NA
Interior Walls	Wall Brd/Wood
Interior Walls 2	NA
Heating Type	Forced Air-Duc
Heating Fuel	Gas
Sq. Ft. Basement	
Fin BSMT Quality	
Extra Kitchens	



Town of Colchester, CT

Property Report

Map Block Lot

02-08/003-000

PID

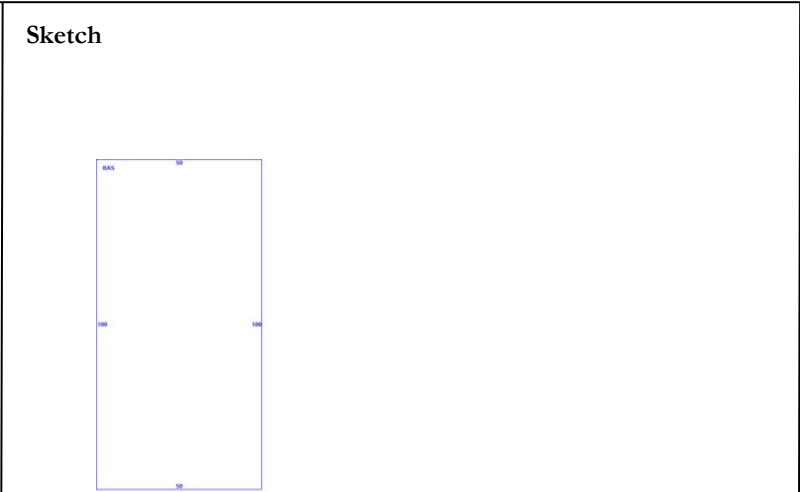
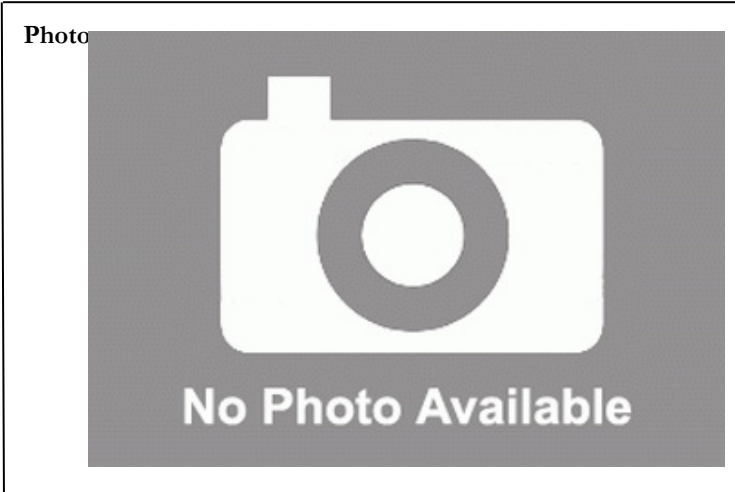
3051

Building # 2

Section #

1 Account

M0062200



Primary Construction Details

Year Built	2009
Stories	1
Building Style	Warehouse
Building Use	Commercial
Building Condition	
Interior Floors 1	Concrete Slab
Interior Floors 2	NA
Total Rooms	1
Basement Garages	
Occupancy	1.00
Building Grade	

Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Bath Style	
Kitchen Style	
Roof Style	Gable
Roof Cover	Asphalt
AC Type	None
Fireplaces	0

Exterior Walls	Pre-finsh Metl
Exterior Walls 2	NA
Interior Walls	Minimum
Interior Walls 2	NA
Heating Type	None
Heating Fuel	Coal or Wood
Sq. Ft. Basement	
Fin BSMT Quality	
Extra Kitchens	

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
First Floor	5000	5000

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Total Area		5000

GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, VERIZON "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
 - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
 - B. AC/TELCO INTERFACE BOX (PPC)
 - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
 - D. TOWERS, MONOPOLES
 - E. TOWER LIGHTING
 - F. GENERATORS & LIQUID PROPANE TANK
 - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
 - H. ANTENNAS (INSTALLED BY OTHERS)
 - I. TRANSMISSION LINE
 - J. TRANSMISSION LINE JUMPERS
 - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
 - L. TRANSMISSION LINE GROUND KITS
 - M. HANGERS
 - N. HOISTING GRIPS
 - O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF VERIZON TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSII/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE VERIZON REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH VERIZON AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.

22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
27. CONTRACTOR SHALL NOTIFY VERIZON REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
29. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE VERIZON REP. ANY WORK FOUND BY THE VERIZON REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
32. VERIZON FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE VERIZON WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
33. VERIZON OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO VERIZON OR THEIR ARCHITECT/ENGINEER.

SPECIAL CONSTRUCTION

ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
 - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY VERIZON UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND
 - B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND VERIZON SPECIFICATIONS.
 - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
 - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
 - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
 - F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
 - G. ANTENNA AND COAXIAL CABLE GROUNDING:
2. ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPICE WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.



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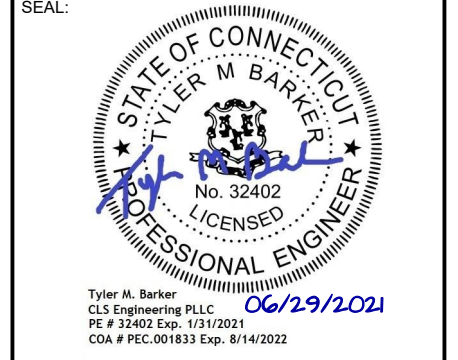
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0	PRELIM	JLS	06/28/21

ATC SITE NUMBER:
302465

ATC SITE NAME:
COLCHESTER CT 6

VERIZON SITE NAME:
COLCHESTER SO II CT

SITE ADDRESS:
 355 ROUTE 85
 COLCHESTER, CT 06415



PE# 33840 EXP: 06/30/2022



DATE DRAWN:	06/28/21
ATC JOB NO:	13668833_G3
CUSTOMER ID:	COLCHESTER SO II CT
CUSTOMER #:	468035

GENERAL NOTES

SHEET NUMBER: G-002	REVISION: 0
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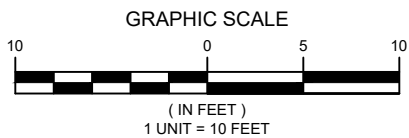
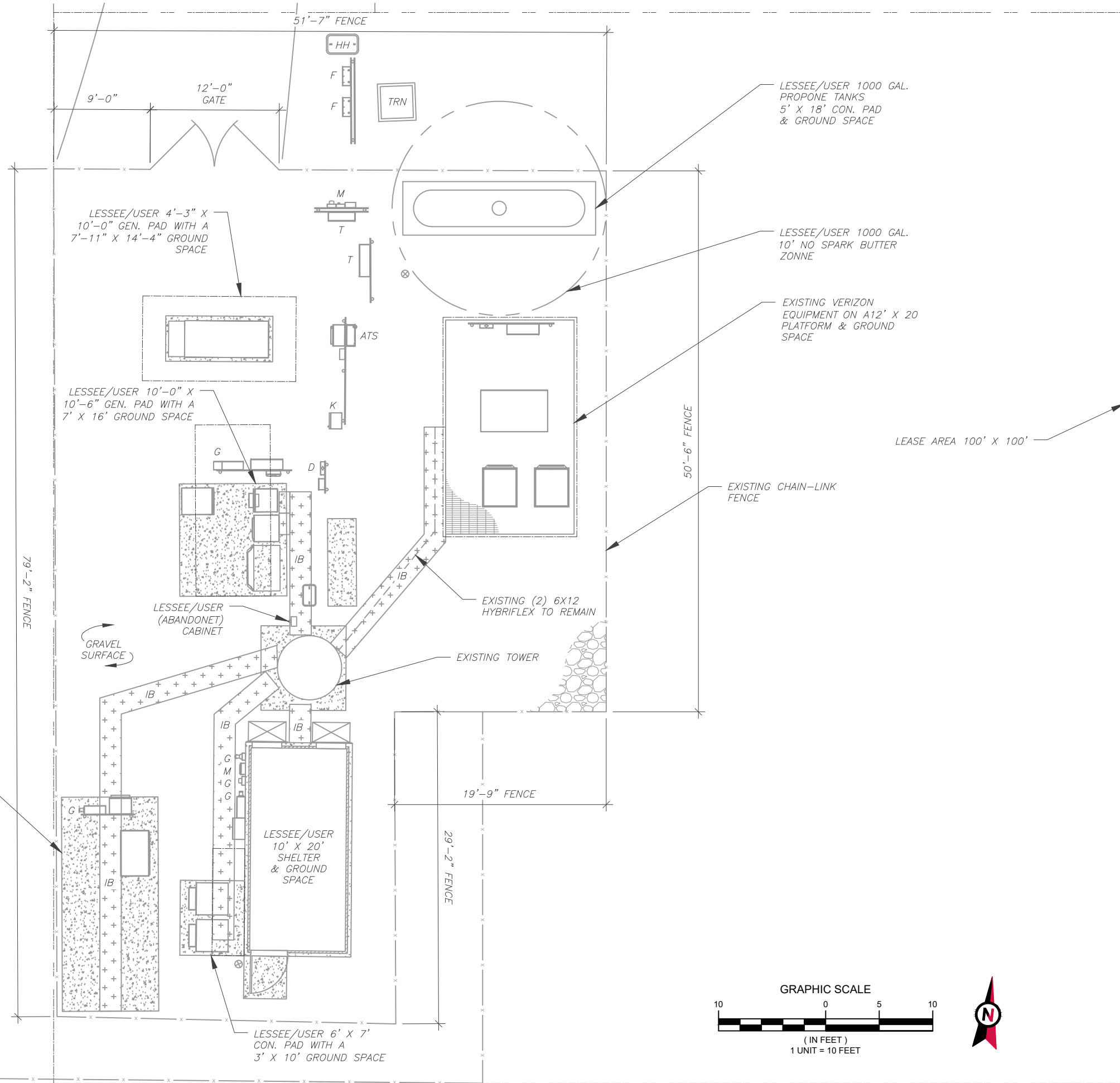
SITE PLAN NOTES:

1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
3. THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.

LEGEND	
⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACAL
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
x	CHAINLINK FENCE

PROPOSED CABLE LENGTH:

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **193'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES). CDS DEFER TO GREATEST CABLE LENGTH.
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.



AMERICAN TOWER®

telamon CLS

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VERIZON SITE NAME:
COLCHESTER SO II CT

SITE ADDRESS:
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COLCHESTER, CT 06415

SEAL:

Tyler M. Barker
CLS Engineering PLLC
PE # 32402 Exp. 1/31/2021
COA # PEC.001833 Exp. 8/14/2022

PE# 33840 EXP: 06/30/2022



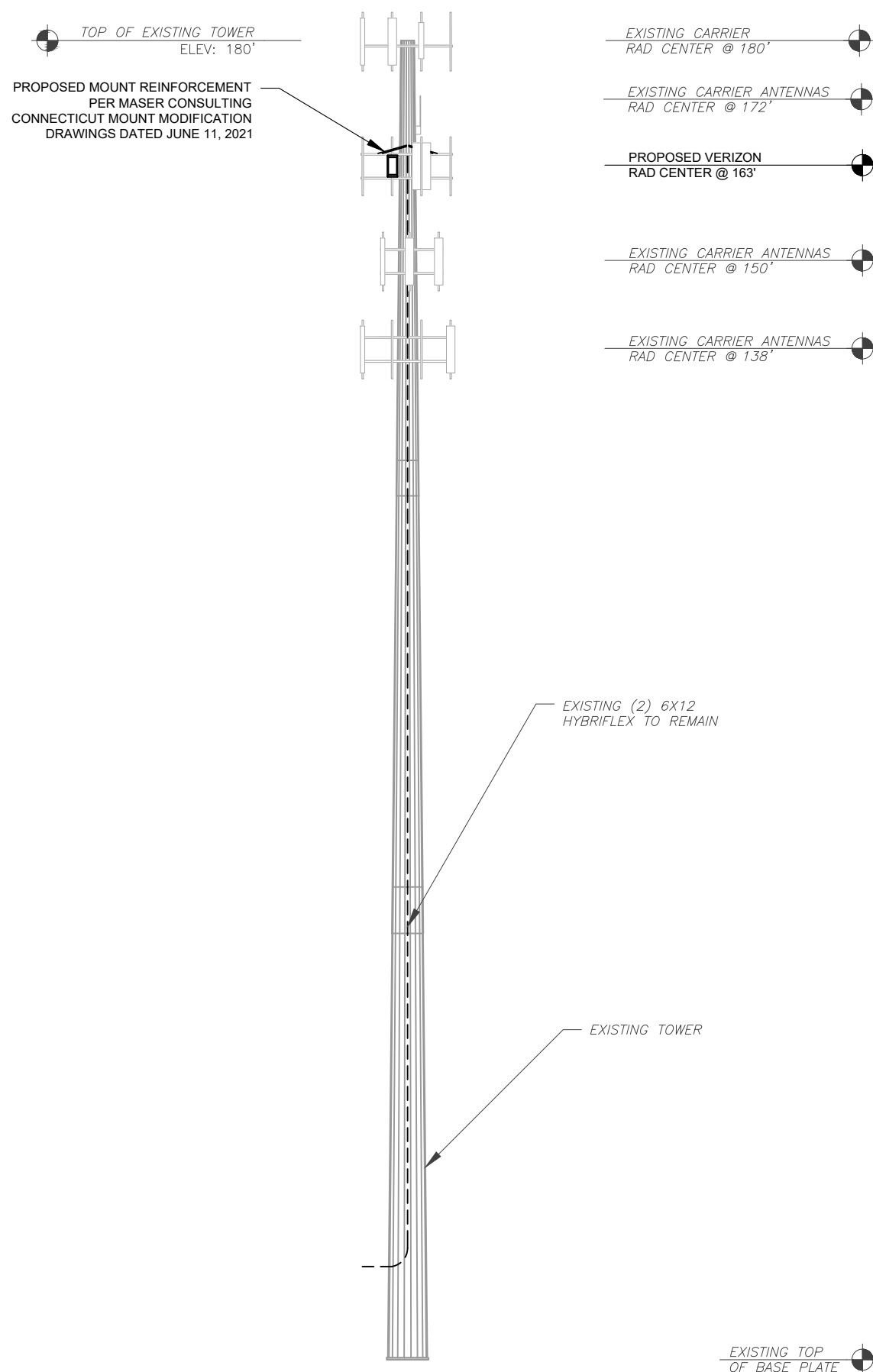
DATE DRAWN:	06/28/21
ATC JOB NO:	13668833_G3
CUSTOMER ID:	COLCHESTER SO II CT
CUSTOMER #:	468035

DETAILED SITE PLAN

SHEET NUMBER:
C-101

REVISION:
0

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PER MOUNT ANALYSIS COMPLETED BY MASTER CONSULTING CONNECTICUT, DATED JUNE 11, 2021, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT

- TOWER NOTE:**
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
 - WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
 - ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
 - TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)

1 TOWER ELEVATION
SCALE: N.T.S.



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Tyler M. Barker
CLS Engineering PLLC
PE # 32402 Exp. 1/31/2021
COA # PEC.001833 Exp. 8/14/2022

PE# 33840 EXP: 06/30/2022



DATE DRAWN:	06/28/21
ATC JOB NO:	13668833_G3
CUSTOMER ID:	COLCHESTER SO II CT
CUSTOMER #:	468035

TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	0

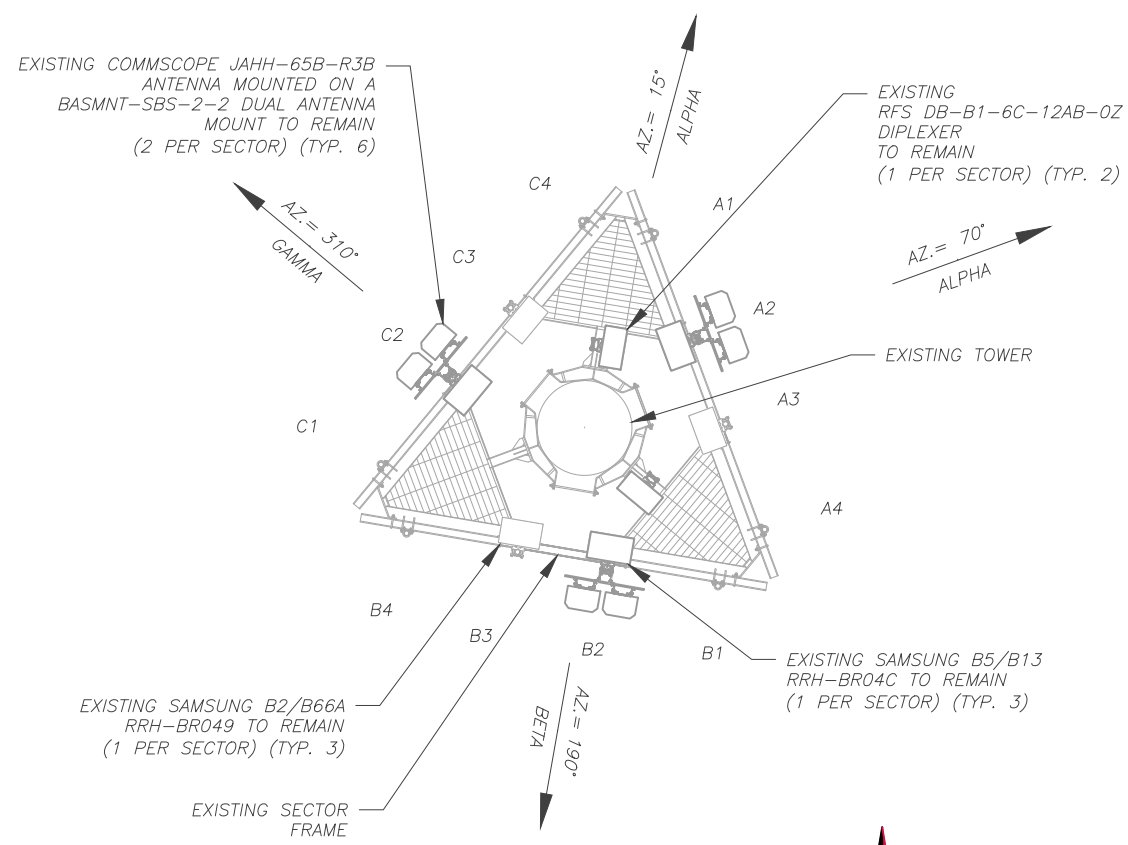
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EXISTING CONFIGURATIONS ARE BASED ON RFDS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.

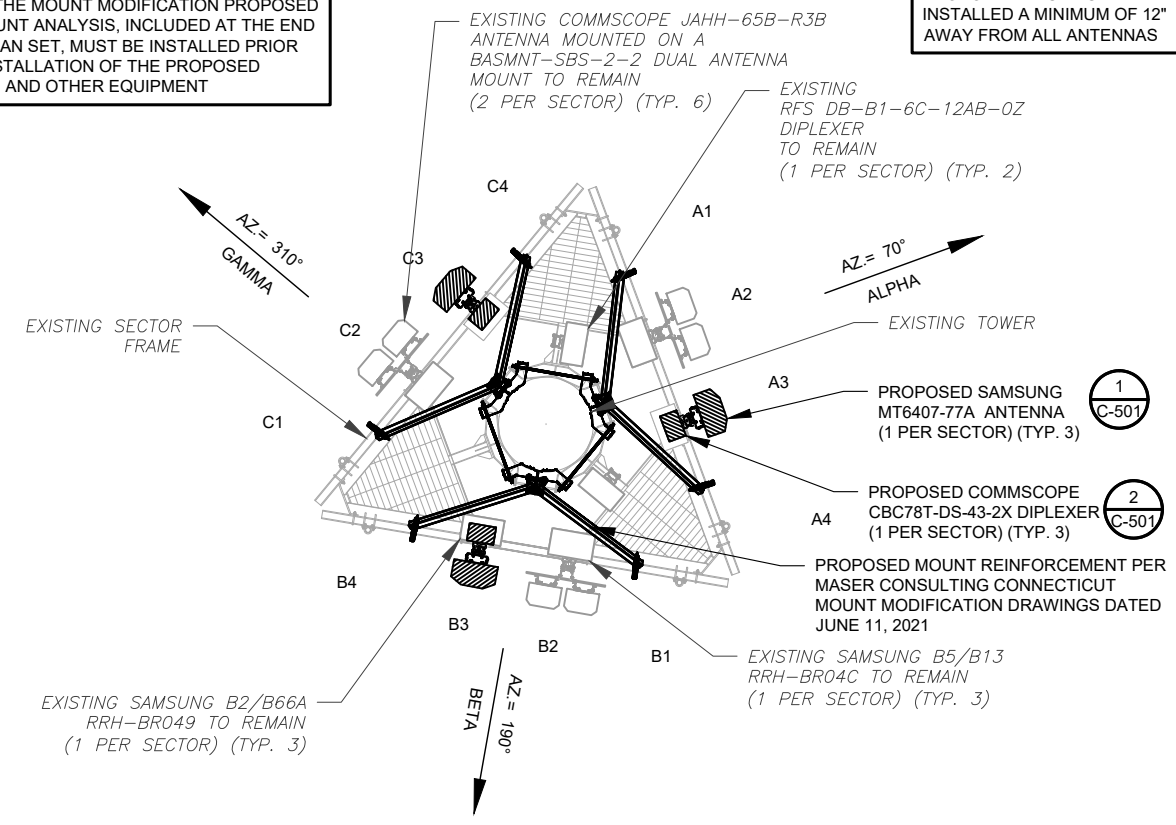
PER MOUNT ANALYSIS COMPLETED BY MASTER CONSULTING CONNECTICUT, DATED JUNE 11, 2021, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT

CONTRACTOR SHALL RE-ORIENT ANTENNA MOUNT(S) AS NECESSARY TO ACHIEVE PROPOSED ANTENNA AZIMUTHS

PROPOSED RRU'S MUST BE INSTALLED A MINIMUM OF 12" AWAY FROM ALL ANTENNAS



1 EXISTING ANTENNA PLAN SCALE: N.T.S.



2 FINAL ANTENNA PLAN SCALE: N.T.S.

EXISTING ANTENNA SCHEDULE									
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	
ALPHA	163'	70°	A1	-	-	-	-	-	
			A2	(2) COMMSCOPE JAHH-65B-R3B	LTE 700/ LTE 850/ LTE 1900/ LTE AWS	0/2 0/1	RMN	SAMSUNG B5/B13 RRH-BR04C	RMN
			A3	-	-	-	-	SAMSUNG B2/B66A RRH-BR049	RMN
			A4	-	-	-	-	-	-
BETA	163'	190°	B1	-	-	-	-	-	
			B2	(2) COMMSCOPE JAHH-65B-R3B	LTE 700/ LTE 850/ LTE 1900/ LTE AWS	0/2 0/1	RMN	SAMSUNG B5/B13 RRH-BR04C	RMN
			B3	-	-	-	-	SAMSUNG B2/B66A RRH-BR049	RMN
			B4	-	-	-	-	-	-
GAMMA	163'	310°	C1	-	-	-	-	-	
			C2	(2) COMMSCOPE JAHH-65B-R3B	LTE 700/ LTE 850/ LTE 1900/ LTE AWS	0/2 0/1	RMN	SAMSUNG B5/B13 RRH-BR04C	RMN
			C3	-	-	-	-	SAMSUNG B2/B66A RRH-BR049	RMN
			C4	-	-	-	-	-	-

NOTES

- CONFIRM WITH VERIZON REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
- CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

STATUS ABBREVIATIONS

RMV: TO BE REMOVED
 RMN: TO REMAIN
 REL: TO BE RELOCATED
 ADD: TO BE ADDED

CABLE LENGTHS FOR JUMPERS

JUNCTION BOX TO RRU: 15'
 RRU TO ANTENNA: 10'

FINAL ANTENNA SCHEDULE									
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	
ALPHA	163'	70°	A1	-	-	-	-	-	
			A2	(2) COMMSCOPE JAHH-65B-R3B	LTE 700/ LTE 850/ LTE 1900/ LTE AWS	0/2 0/1	RMN	SAMSUNG B5/B13 RRH-BR04C	-
			A3	SAMSUNG MT6407-77A	5G L-SUB6	0/6	ADD	SAMSUNG B2/B66A RRH-BR049 COMMSCOPE CBC78T-DS-43-2X	RMN ADD
			A4	-	-	-	-	-	-
BETA	163'	190°	B1	-	-	-	-	-	
			B2	(2) COMMSCOPE JAHH-65B-R3B	LTE 700/ LTE 850/ LTE 1900/ LTE AWS	0/2 0/1	RMN	SAMSUNG B5/B13 RRH-BR04C	-
			B3	SAMSUNG MT6407-77A	5G L-SUB6	0/6	ADD	SAMSUNG B2/B66A RRH-BR049 COMMSCOPE CBC78T-DS-43-2X	RMN ADD
			B4	-	-	-	-	-	-
GAMMA	163'	310°	C1	-	-	-	-	-	
			C2	(2) COMMSCOPE JAHH-65B-R3B	LTE 700/ LTE 850/ LTE 1900/ LTE AWS	0/2 0/1	RMN	SAMSUNG B5/B13 RRH-BR04C	-
			C3	SAMSUNG MT6407-77A	5G L-SUB6	0/6	ADD	SAMSUNG B2/B66A RRH-BR049 COMMSCOPE CBC78T-DS-43-2X	RMN ADD
			C4	-	-	-	-	-	-

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(2) RFS DB-B1-6C-12AB-0Z	RMN	-	(2) 6X12 HYBRIFLEX	RMN
-	-	-	-	-

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(2) RFS DB-B1-6C-12AB-0Z	RMN	-	(2) 6X12 HYBRIFLEX	RMN
-	-	-	-	-

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0	PRELIM	JLS	06/28/21

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302465

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COLCHESTER CT 6

VERIZON SITE NAME:
COLCHESTER SO II CT

SITE ADDRESS:
355 ROUTE 85
COLCHESTER, CT 06415

SEAL:

Tyler M. Barker
 CLS Engineering PLLC
 PE # 32402 Exp. 1/31/2021
 COA # PEC.001833 Exp. 8/14/2022

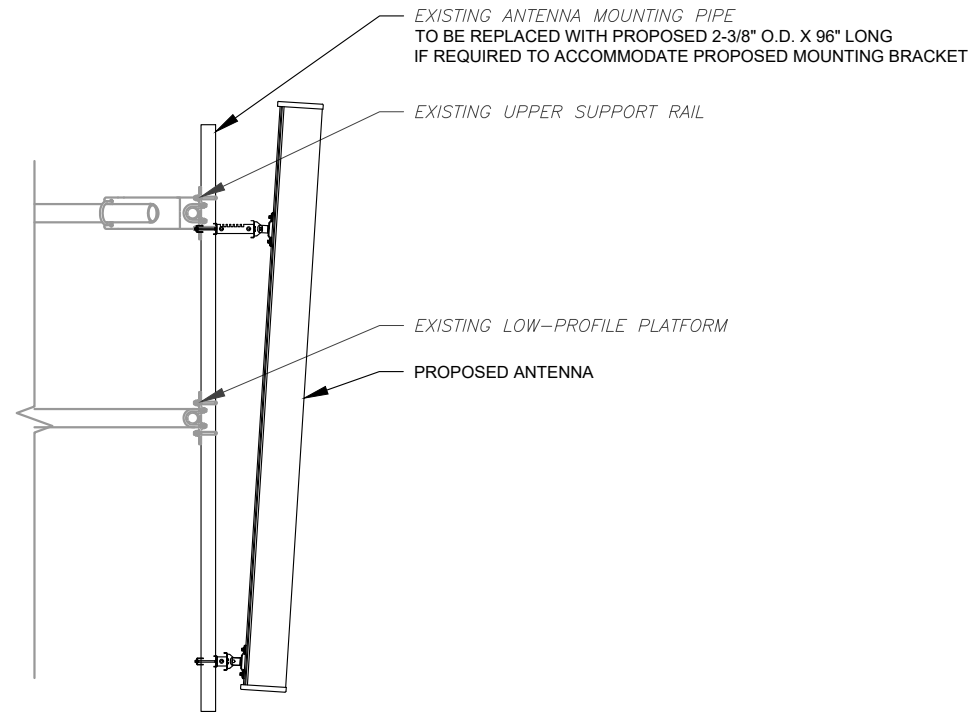
PE# 33840 EXP: 06/30/2022

DATE DRAWN: 06/28/21
 ATC JOB NO: 13668833_G3
 CUSTOMER ID: COLCHESTER SO II CT
 CUSTOMER #: 468035

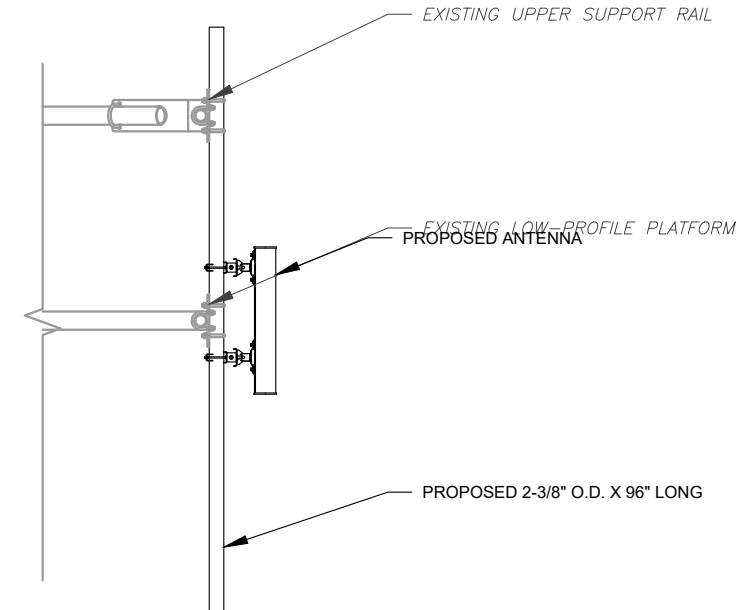
ANTENNA INFORMATION & SCHEDULE

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 REVISION: 0

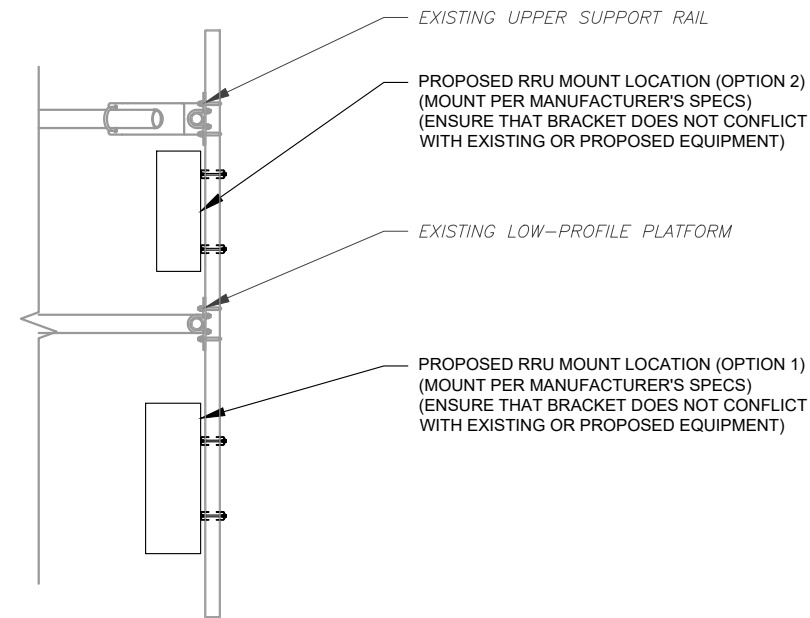
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1 PROPOSED ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



2 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



3 PROPOSED RRU MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



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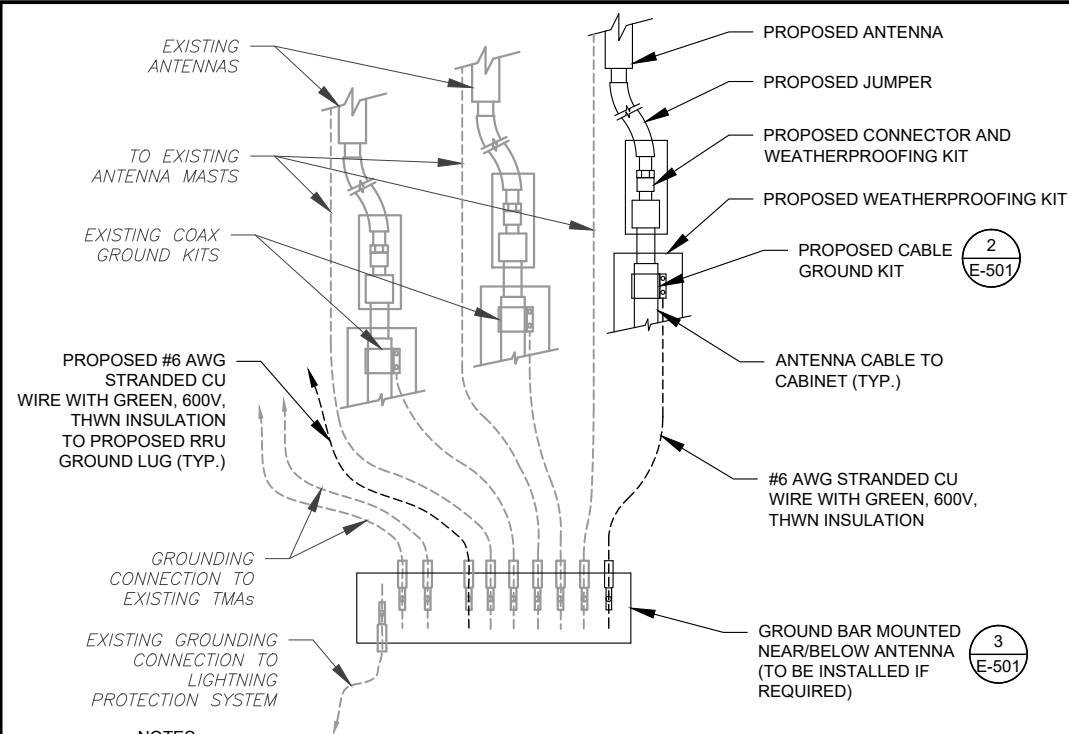


DATE DRAWN:	06/28/21
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CUSTOMER ID:	COLCHESTER SO II CT
CUSTOMER #:	468035

CONSTRUCTION
DETAILS

SHEET NUMBER:
C-501

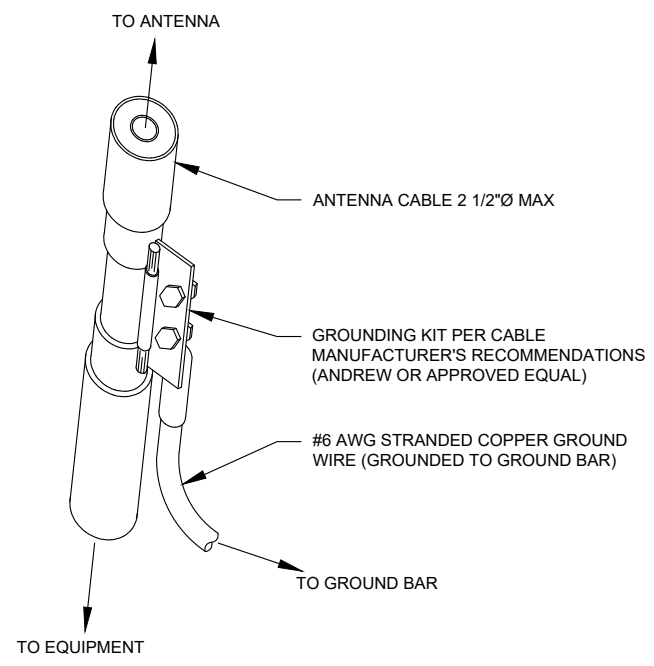
REVISION:
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NOTES:

1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH VERIZON GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

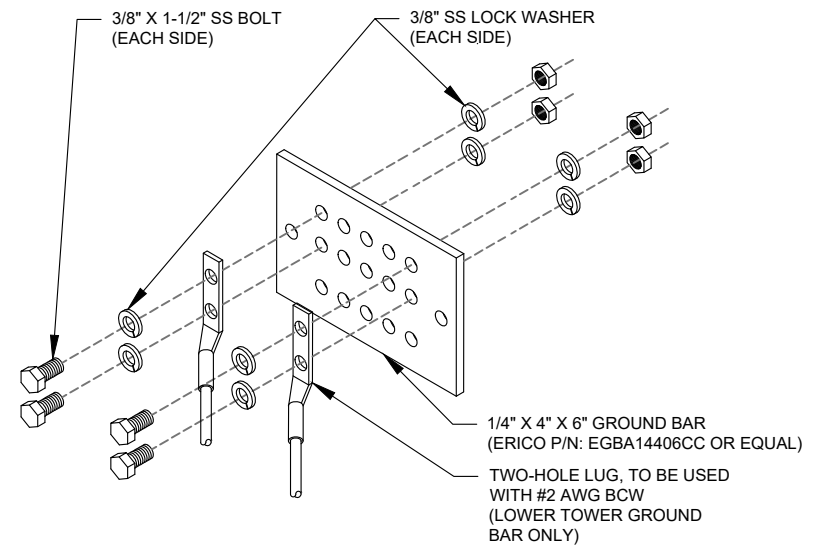
1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.



GROUND KIT NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

2 CABLE GROUND KIT CONNECTION DETAIL
SCALE: N.T.S.



GROUND BAR NOTES:

1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

3 TOWER GROUND BAR DETAIL
SCALE: N.T.S.

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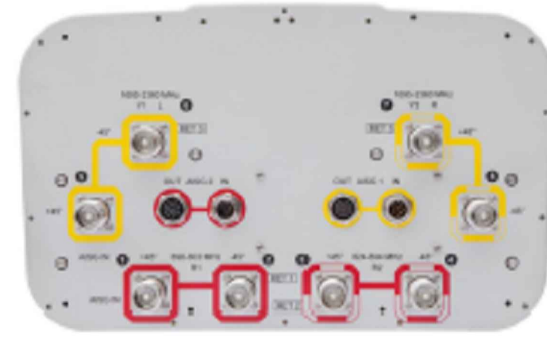
PE# 33840 EXP: 06/30/2022

DATE DRAWN:	06/28/21
ATC JOB NO:	13668833_G3
CUSTOMER ID:	COLCHESTER SO II CT
CUSTOMER #:	468035

GROUNDING DETAILS

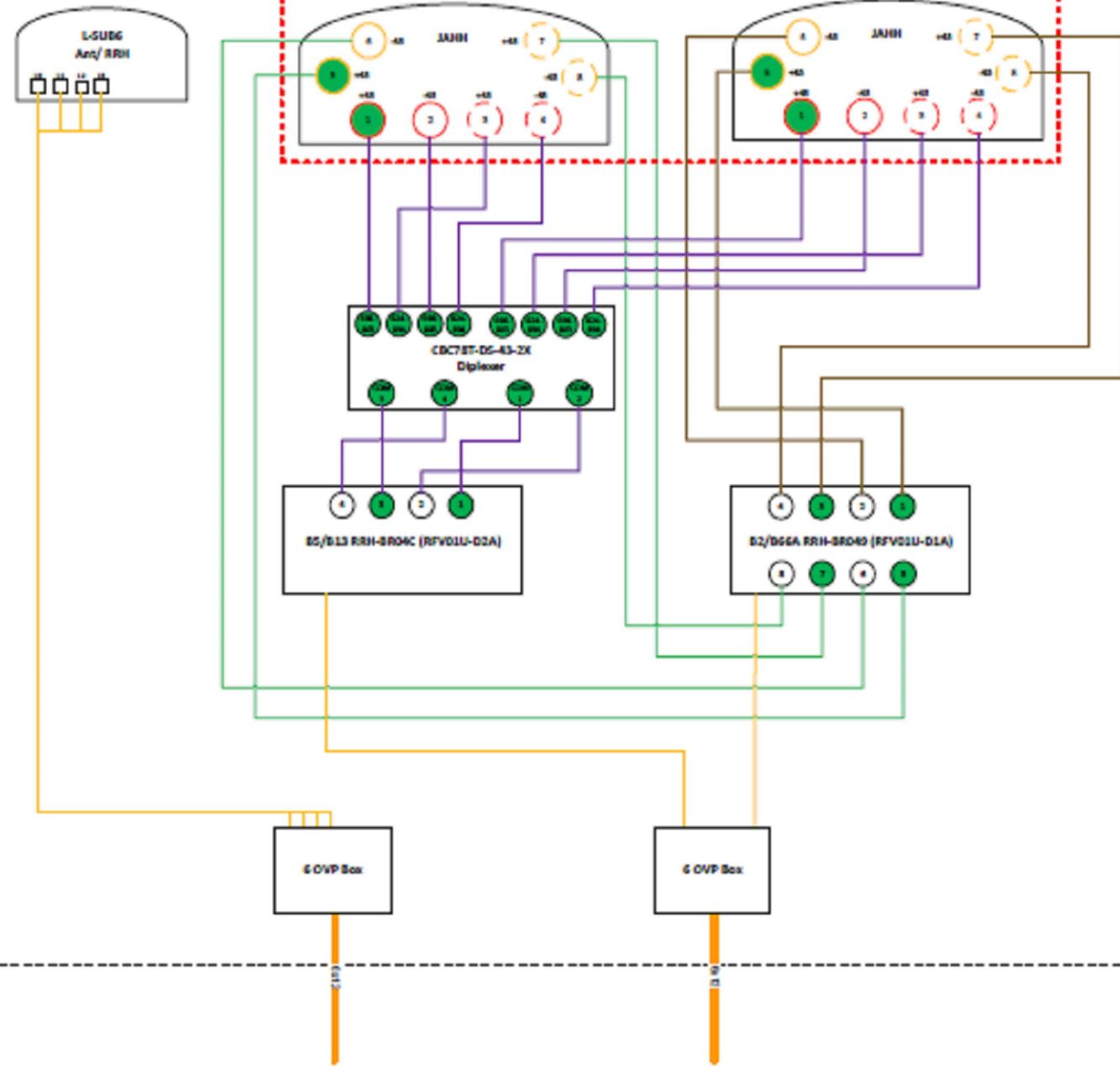
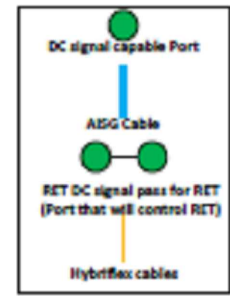
SHEET NUMBER: E-501	REVISION: 0
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BSAMNT-SBS-2-2

- Port 1 & 2 are for low band (698-896 MHz).
- Port 3,4,5, & 6 are for high band (1695-2360 MHz).
- Smart Bias Tee (SBT) is through port 1 & 3 for low band and port 1 for high band.
- AISG cable is only needed when drawn in the diagrams below, if it is not drawn then SBT is enough to control all RET motors.
- Not all SBT ports are needed to control RET, only green port connection to green port will control RET.



Comments:
 Diagram shows antenna port configuration as viewed from below antennas.
 Antenna positions are indicated as viewed from **IN FRONT** of antennas.
 Cap and weatherproof unused antenna ports.
 All plumbing diagram colors are irrelevant except for AISG & Hybriflex cable. (For the coax colors follow Coax Colors guide above).

Tower/
 Watertank/
 Rooftop
 Equipment
 Pad

1 ANTENNA CONFIGURATION
 SCALE: NOT TO SCALE

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER:
R-601
 REVISION:

PROJECT NOTES

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



**MOUNT MODIFICATION DRAWINGS
EXISTING 12.58' PLATFORM**

SITE NAME: COLCHESTER 2 CT - ATC MONOPOLE
SITE NUMBER: 468035
355 ROUTE 85
COLCHESTER, CT 06415
NEW LONDON COUNTY

PROJECT INFORMATION	
SITE INFORMATION	
LATITUDE:	41.54480028° N
LONGITUDE:	72.30489063° W
JURISDICTION:	NEW LONDON COUNTY
APPLICANT/LESSEE	
COMPANY:	VERIZON WIRELESS
CLIENT REPRESENTATIVE	
COMPANY:	VERIZON WIRELESS
ADDRESS:	118 FLANDERS ROAD, THIRD FLOOR
CITY, STATE, ZIP:	WESTBOROUGH, MA 01581
CONTACT:	ANDREW CANDIELLO
EMAIL:	ANDREW.CANDIELLO@VERIZONWIRELESS.COM
PROJECT MANAGER	
COMPANY:	MASER CONSULTING
CONTACT:	PETER ALBANO
PHONE:	(856) 797-0412
EMAIL:	PETER.ALBANO@COLLIERENGINEERING.COM

SHEET INDEX	
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
S-7	SPECIFICATION SHEETS

CONTRACTOR PMI REQUIREMENTS	
PHI LOCATION:	HTTPS://PHLVZVSMART.COM
SMART TOOL PROJECT #:	10069083
VZW LOCATION CODE (PSLC):	468035
FUZE ID:	16272107

REFERENCED DOCUMENTS	
FILING MOUNT ANALYSIS REPORT	
SMART TOOL PROJECT #:	10069083
MASER CONSULTING PROJECT #:	21777428A
ANALYSIS DATE:	5/4/2021

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT




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BY:		DATE:	01/17/2022



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SITE NAME:
COLCHESTER 2 CT - ATC
MONOPOLE
468035
355 ROUTE 85
COLCHESTER, CT 06415
NEW LONDON COUNTY



MT. LAUREL OFFICE
2000 Philadelphia Drive
Suite 102
Mount Laurel, NJ 08054
Phone: 856.757.0412
Fax: 856.752.1120

TITLE SHEET

T-1

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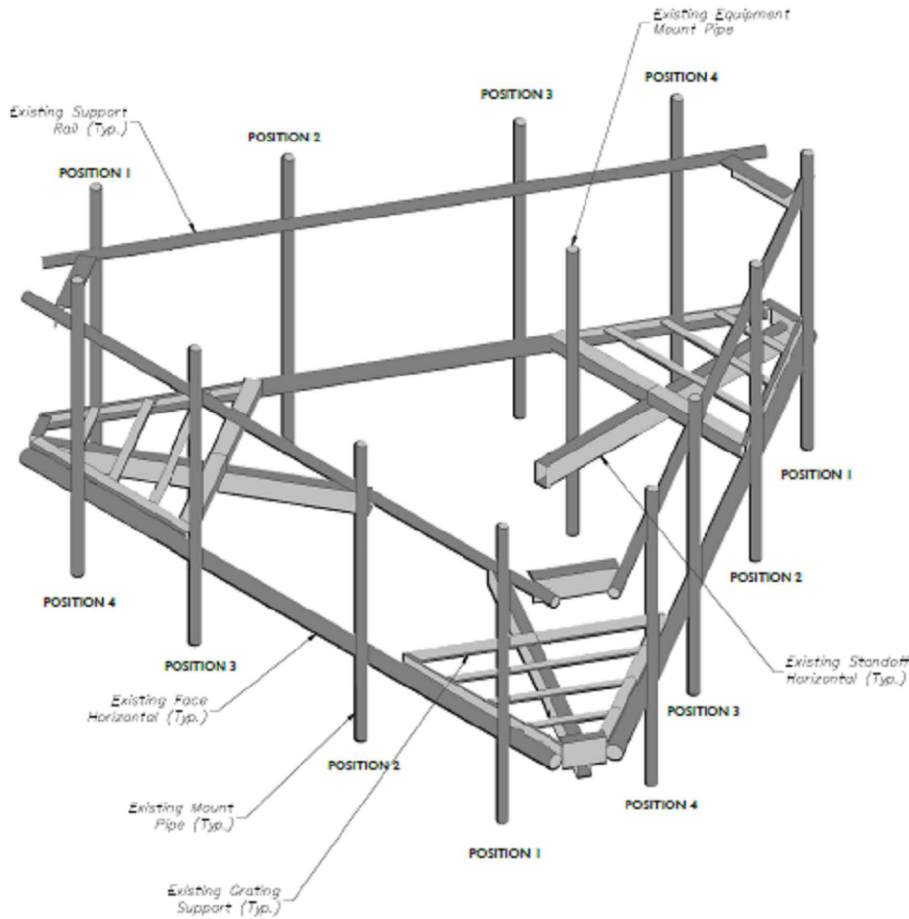
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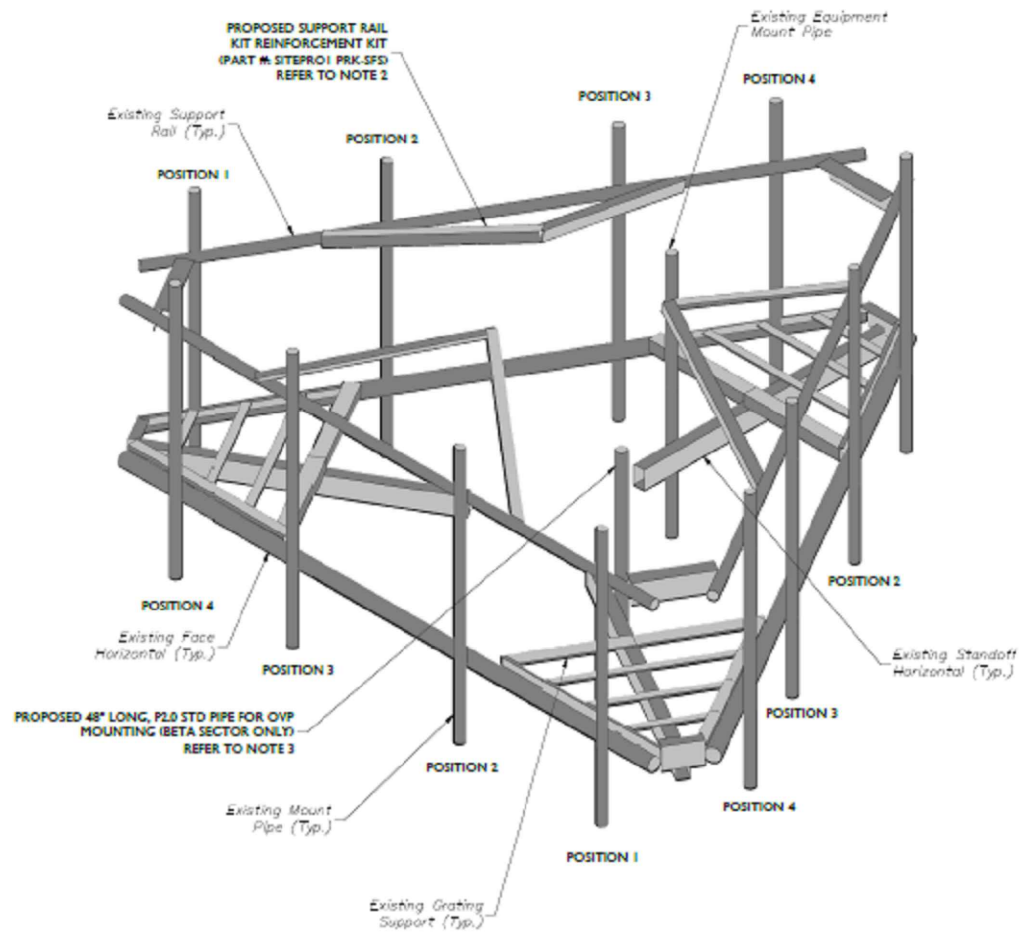
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SUPPLEMENTAL

SHEET NUMBER: R-602	REVISION: -
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1 EXISTING PLATFORM ISOMETRIC VIEW
SCALE - N.T.S.



2 PROPOSED PLATFORM ISOMETRIC VIEW
SCALE - N.T.S.

STRUCTURAL NOTES:

- PER THE MOUNT MAPPING COMPLETED BY RKS DESIGN & ENGINEERING LLC ON 3/27/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (161'-9") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
- INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

MODIFICATION NOTES:

- MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
- CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
- CONNECT NEW OVP PIPE TO EXISTING STANDOFF HORIZONTAL WITH CROSSOVER PLATES (PART #: PERFECT VISION PV-XP-ST, OR EOR APPROVED EQUAL).

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REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
AS SHOWN				
1	06/11/2021	CONSTRUCTION	JP	PK

STATE OF CONNECTICUT
 DEJIAN XU
 06112021
 LICENSED PROFESSIONAL ENGINEER

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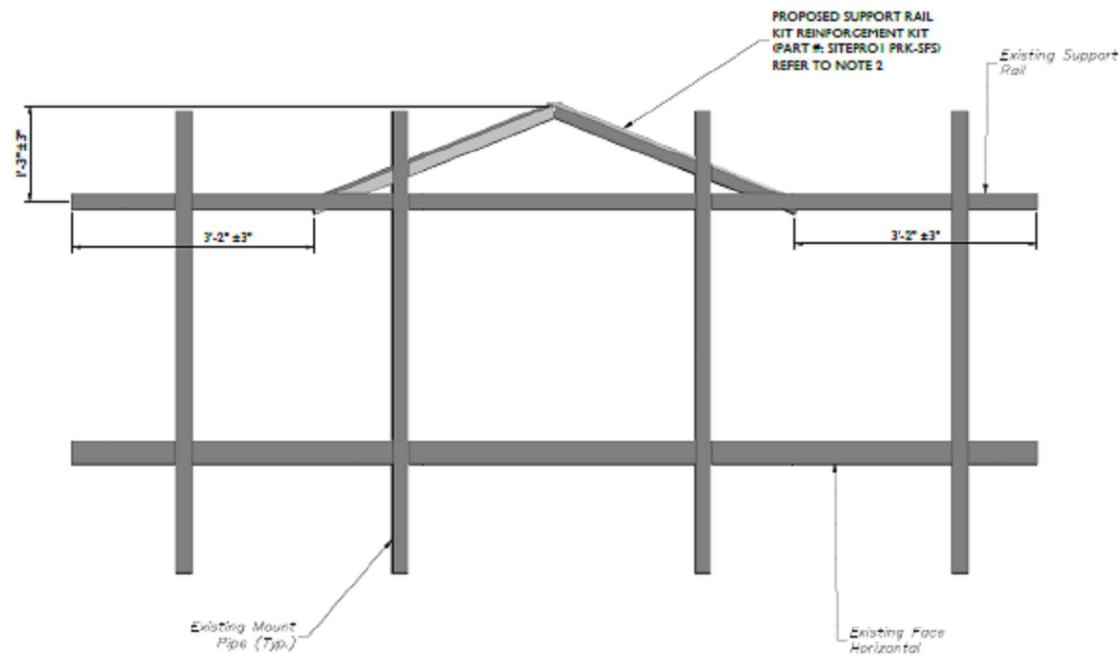
SITE NAME:
 COLCHESTER 2 CT - ATC
 MONOPOLE
 460035
 355 ROUTE 85
 COLCHESTER, CT 06415
 NEW LONDON COUNTY

MT. LAUREL OFFICE
 1300 Parkway Drive
 Suite 100
 Mount Laurel, NJ 08054
 Phone: 856.797.0412
 Fax: 856.797.1100

MODIFICATION DETAILS
 S-4

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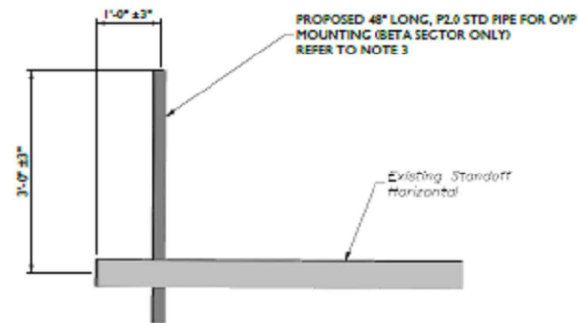
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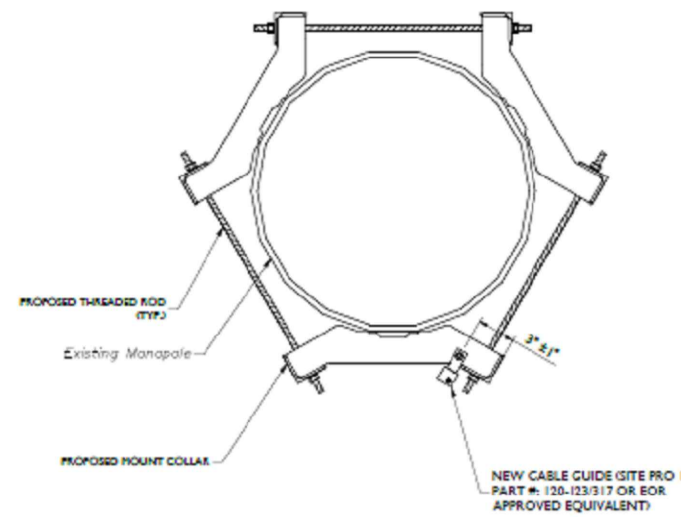
1 PROPOSED FRONT ELEVATION VIEW (TYP. EACH SECTOR)
SCALE: N.T.S.

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
3. CONNECT NEW OVP PIPE TO EXISTING STANDOFF HORIZONTAL WITH CROSSOVER PLATES (PART #: PERFECT VISION PV-XP-ST, OR EOR APPROVED EQUAL).



2 PROPOSED SIDE ELEVATION VIEW FOR OVP MOUNTING (BETA SECTOR ONLY)
SCALE: N.T.S.



3 PROPOSED SAFETY CLIMB DETAIL
SCALE: N.T.S.

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100 Parkside Drive
Suite 100
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Phone: 856.707.0412
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MODIFICATION DETAILS
PART NUMBER: S-5

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1 MOUNT MODIFICATIONS

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