

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-006B-210819 – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 401 Lopus Road, Beacon Falls, 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: Gerard Smith.
 - a. UPS Label: 1Z9Y45030319847270
 - b. Delivery Confirmation dated: 08/19/21 – 1:44 p.m.
3. Proof of mailing and delivery confirmation to Zoning Official: Mike Mormile.
 - a. UPS Label: 1Z9Y45030309304286
 - b. Delivery Confirmation dated: 08/19/21 – 1:44 p.m.
4. Proof of mailing and delivery confirmation to Property Owner: GTP.
 - a. UPS Label: 1Z9Y45030310163293
 - b. Delivery Confirmation dated: 08/19/21 – 11:56 a.m.
5. The Original Filing sent to the CSC on 8/13/2021 – Notice of Exempt Modification // Site: BEACON FALLS II CT (ATC: 370641) 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

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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	:	401 LOPUS ROAD
FOR THE SHARED USE OF AN EXISTING	:	BEACON FALLS, CT
WIRELESS TELECOMMUNICATIONS	:	
FACILITY AT 401 LOPUS ROAD, BEACON	:	
FALLS, CONNECTICUT	:	JANUARY 5, 2017

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-14-533) 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 antennas and related telecommunications equipment at the existing wireless telecommunications base station at 401 Lopus Road in Beacon Falls, Connecticut (the “Property”) constitutes an Eligible Facilities Request (“EFR”) under the FCC Order. Cellco has designated this site as its “Beacon Falls 2 Facility”.

II. Factual Background

The Property is a 3.06-acre parcel, owned by the Town of Beacon Falls (“Town”) and used by the Town’s Public Works Department as its maintenance and materials storage facility. The Property is surrounded by commercial and industrial uses along Lopus Road and Railroad

Avenue. See Attachment 1 – Site Vicinity Map and Site Schematic (Aerial Photograph). The existing 150-foot monopole tower at the Property was originally constructed by AT&T Wireless for the Town. American Tower Corporation (“ATC”) acquired the tower in 2012. The tower is currently shared by AT&T with antennas at the 145-foot level; T-Mobile with antennas at the 135-foot level; and Metro PCS with antennas at the 125-foot level. The tower and existing equipment structures are located within a 46’-5” x 43’ compound.

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

III. Proposed Beacon Falls 2 Facility

Cellco proposes to install a total of eight (8) antennas (two (2) sectors of four (4) antennas each) at the 115-foot level on the 150-foot tower. Cellco will also install four (4) remote radio heads (two (2) per sector) (“RRHs”), behind its antennas. Two equipment cabinets, a battery cabinet and a 15 kw propane-fueled (DC) back-up generator will be located on a 15’-5” x 12’ concrete pad, beneath a steel canopy structure within the fenced compound area. A 250 gallon, vertically-mounted propane tank will be located adjacent to Cellco’s equipment pad, also within the fenced compound. Power and telephone service will extend from existing service at the site. Project Plans for the Beacon Falls 2 Facility are included in Attachment 2. Specifications for Cellco’s antennas, RRHs and generator are included in Attachment 3. A Structural Analysis Report confirming that the tower and its foundation can support Cellco’s antennas and related

equipment 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 in any way. Cellco’s antennas will be located at the 115-foot level on the existing 150-foot tower.

2. *The proposed facility modification will not protrude from the edge of the structure more than six (6) feet.* Cellco’s antennas will not protrude more than six (6) feet from the edge 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 only two (2) equipment cabinets and a back-up battery cabinet on a concrete pad near the base of the tower.

4. *The proposed facility does not entail any excavation or deployment outside the current site of the base station.* Cellco’s facility modification will not require expansion to the existing fenced compound.

5. *The proposed facility does not defeat the existing concealment elements of the base station.* No concealment elements have been incorporated into the existing antenna support structure.

6. *The proposed facility complies with conditions associated with the prior approval of construction or modification of the base station.* Cellco has searched local land use and Building Department files and has spoken with James Baldwin, Beacon Falls' Building Official. No records of any local approvals was discovered.

B. FCC Compliance

Radio frequency ("RF") emissions from Cellco's proposed installation will be far below the standards adopted by the FCC. Included in Attachment 5 is a cumulative worst case power density table for existing and Cellco's antennas confirming that the facility will operate well within the FCC safety standards.

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

On January 5, 2017, a copy of this Sub-Petition was sent to Beacon Falls' First Selectman Christopher Bielik. A copy of the letter sent to Mr. Bielik is included in Attachment 6. 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 7.

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

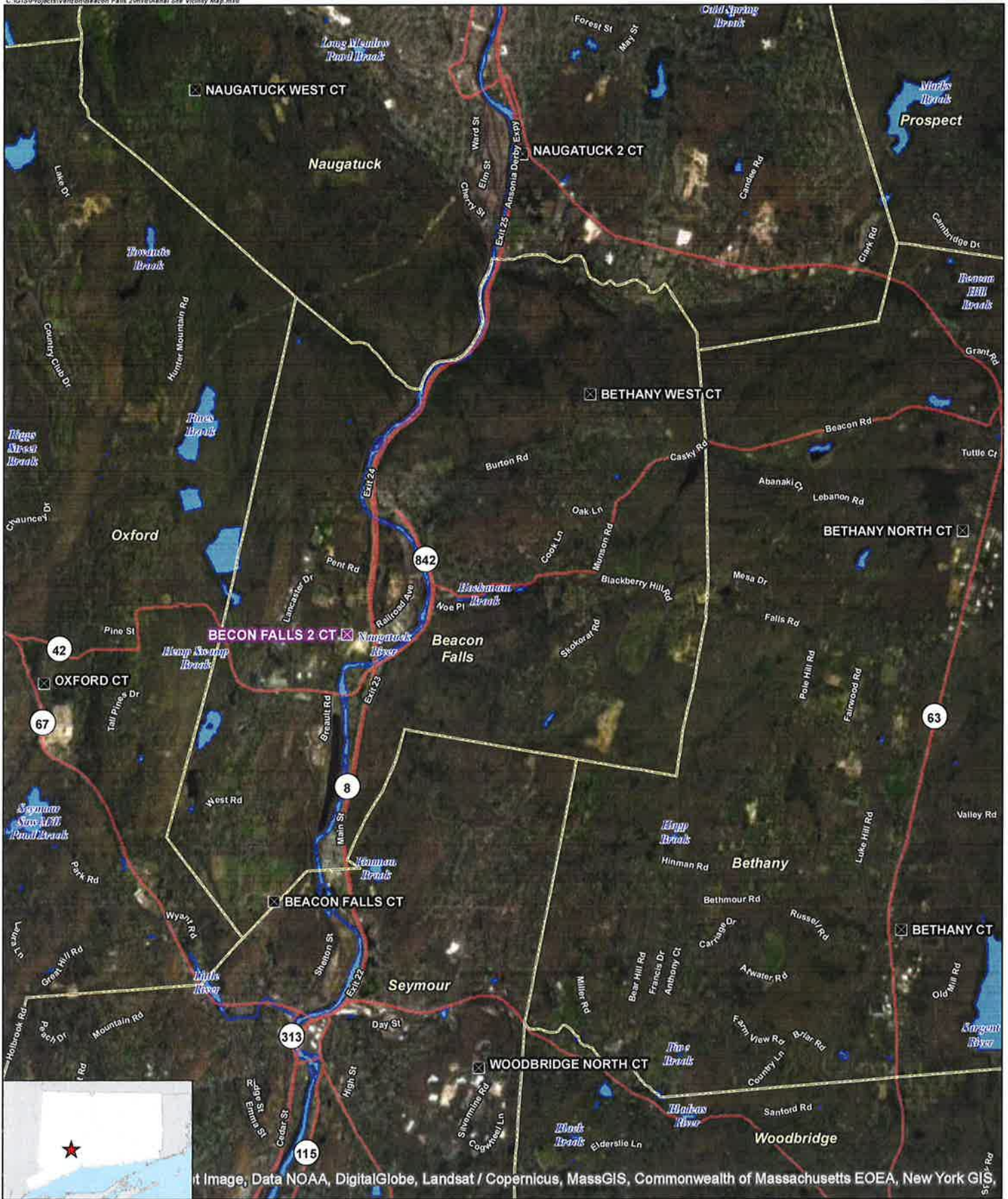
280 Trumbull Street

Hartford, CT 06103-3597

(860) 275-8200





Its Attorneys

ATTACHMENT 1



Image, Data NOAA, DigitalGlobe, Landsat / Copernicus, MassGIS, Commonwealth of Massachusetts EOE, New York GIS

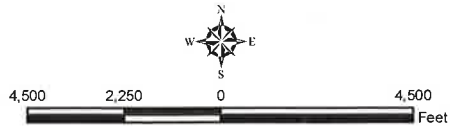
Legend

-  Proposed Verizon Wireless Facility
-  Surrounding Verizon Wireless Facilities
-  Municipal Boundary
-  Waterbody

Site Vicinity Map

Proposed Wireless Telecommunications Facility
 Beacon Falls 2 CT
 401 Lopus Road
 Beacon Falls, Connecticut

Base Map Source: 2016 Google Imagery
 Map Scale: 1 inch = 4,500 feet
 Map Date: December 2016





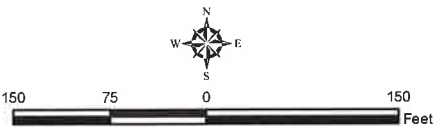
Existing 150' Tall Monopole Tower within Existing 46'-5"x43' Compound (by Others)
Proposed Verizon Wireless Antennas Mounted at a Centerline Height of 115' AGL

Proposed Verizon Wireless 250 Gallon Vertical Propane Tank on 3'-6"x3'-6" Concrete Pad/Lease Area

Proposed Verizon Wireless 15'-6"x12' Concrete Pad for Equipment/Lease Area

- Legend**
- Subject Property
 - Existing Fenced Tower Facility Compound (by Others)
 - Proposed Verizon Wireless Equipment
 - Approximate Parcel Boundary (CTDEEP GIS)

Map Notes:
Base Map Source: 2016 Google Imagery
Map Scale: 1 inch = 150 feet
Map Date: December 2016



Site Schematic
Proposed Wireless Telecommunications Facility
Beacon Falls 2 CT
401 Lopus Road
Beacon Falls, Connecticut



ATTACHMENT 2

CELLCO PARTNERSHIP d/b/a **verizon** WIRELESS

PROPOSED WIRELESS FACILITY SITE NAME: BEACON FALLS 2 CT 401 LOPUS ROAD BEACON FALLS, CT 06403

CELLCO
PARTNERSHIP
d/b/a **verizon**
WIRELESS

BEACON FALLS 2 CT

CSC DRAWINGS

2	01/04/17	ISSUED AS FINAL
1	12/27/16	ISSUED AS FINAL
0	12/16/16	ISSUED AS FINAL
D	12/15/16	FOR COMMENT
C	02/19/16	FOR COMMENT
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A	01/29/16	FOR COMMENT

Dewberry
Dewberry Engineers Inc.

800 PARSIPPANY ROAD
SUITE 301
PARSIPPANY, NJ 07054
PHONE: 973.739.9400
FAX: 973.739.9710

JIANG YU, P.E.
CONNECTICUT LICENSE NO. 0023222

DRAWN BY: AL

REVIEWED BY: GHN

CHECKED BY: GHN

PROJECT NUMBER: 50067815

JOB NUMBER: 50067829

SITE ADDRESS:

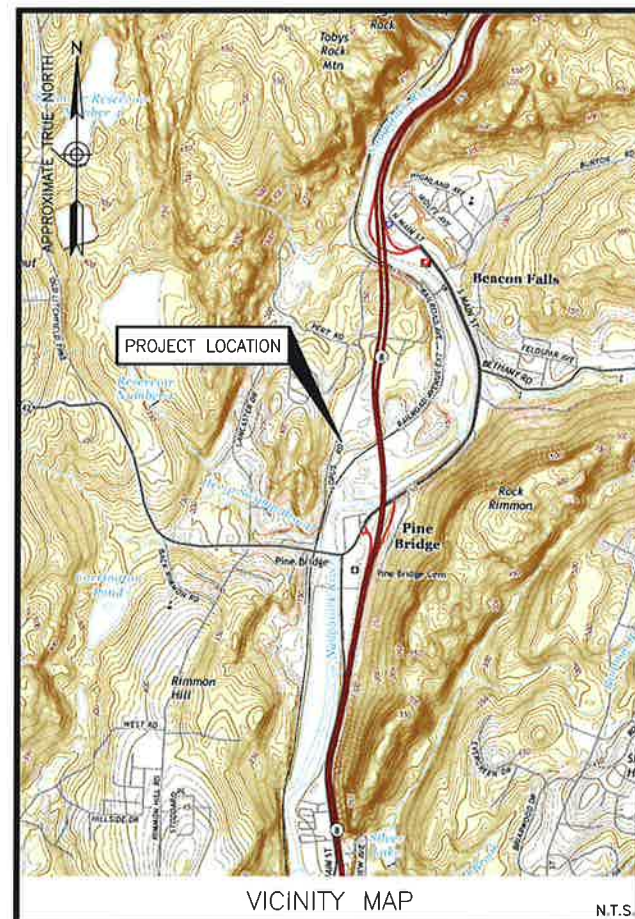
401 LOPUS ROAD
BEACON FALLS, CT 06403

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1



DIRECTIONS FROM 99 EAST RIVER DRIVE, EAST HARTFORD, CT:

TAKE I-84 WEST TOWARD HARTFORD. CONTINUE ON I-84 WEST AND TAKE EXIT 19 FOR CT-8 SOUTH TOWARD BRIDGEPORT/NAUGATUCK. CONTINUE ON CT-8 SOUTH TO EXIT 24. FOLLOW EXIT RAMP AND TURN RIGHT ONTO NORTH MAIN STREET/STATE HWY 852 SOUTH. TURN RIGHT ONTO DEPOT STREET. TURN RIGHT ONTO RAILROAD AVENUE. TURN LEFT ONTO LOPUS ROAD. TURN LEFT ONTO LOPUS ROAD EXTENSION. SITE WILL BE ON THE LEFT SIDE.

SITE COORDINATES:
LATITUDE: 41° 25' 57.966" N
LONGITUDE: 73° 04' 13.135" W
(PER FAA 1-A)

ELEVATION DATA
GRADE ELEVATION AT MONOPOLE = 161.9' ± A.M.S.L.
(PER FAA 1-A)

ELEVATION (TO C.L. OF ANTENNAS)
ELEVATION = 115.0' ± A.G.L., 276.9' ± A.M.S.L.

SITE INFORMATION

THE SCOPE OF WORK SHALL INCLUDE:

1. THE INSTALLATION OF A PROPOSED CELLCO PARTNERSHIP OUTDOOR EQUIPMENT ON A PROPOSED CONCRETE PAD IN AN EXISTING COMPOUND.
2. A TOTAL OF UP TO EIGHT (8) PROPOSED CELLCO PARTNERSHIP ANTENNAS AND ASSOCIATED APPURTENANCES ARE TO BE MOUNTED TO THE EXISTING MONOPOLE AT A CENTERLINE ELEVATION OF 115'-0" ± A.G.L.
3. THE INSTALLATION OF A PROPOSED CELLCO PARTNERSHIP PROPANE TANK IN AN EXISTING COMPOUND.
4. THE INSTALLATION OF A PROPOSED BACKUP GENERATOR ON A PROPOSED CONCRETE PAD.
5. THE PROPOSED WIRELESS FACILITY INSTALLATION WILL BE DESIGNED IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2009 CONNECTICUT SUPPLEMENT.

SCOPE OF WORK

SITE NAME:
BEACON FALLS 2 CT

SITE ADDRESS:
401 LOPUS ROAD
BEACON FALLS, CT 06403
NEW HAVEN COUNTY

PROPERTY OWNER:
TOWN OF BEACON FALLS
10 MAPLE AVENUE
BEACON FALLS, CT 06403

TOWER OWNER:
AMERICAN TOWER CORPORATION
10 PRESIDENTIAL WAY
WOBURN, MA 01801

APPLICANT:
CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS
99 EAST RIVER DRIVE
EAST HARTFORD, CT 06108

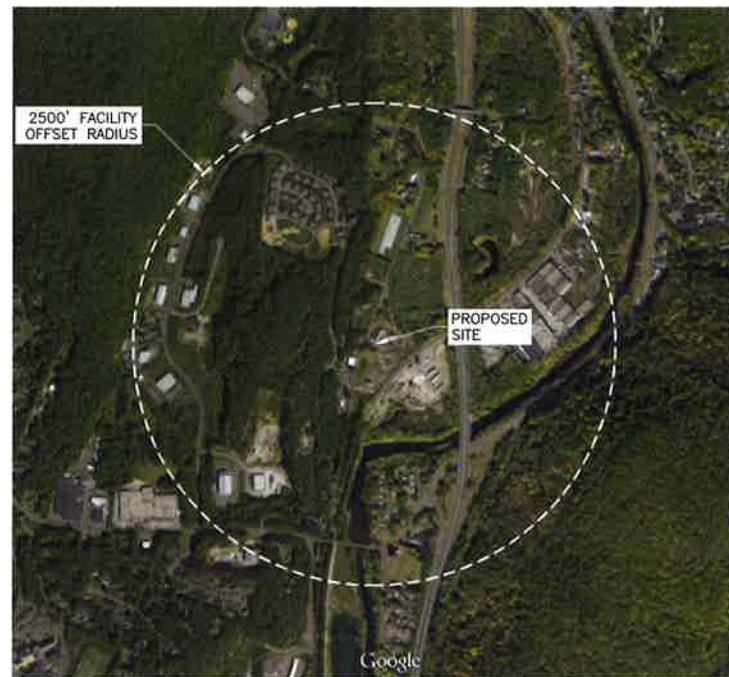
SITE ACQUISITION CONTACT:
JAMES SMITH
STRUCTURAL CONSULTING SERVICES, P.C.
(203) 740-7578

LEGAL/REGULATORY CONTACT:
KENNETH C. BALDWIN, ESQ.
ROBINSON & COLE
(860) 275-8345

PROJECT INFORMATION

SHEET NUMBER	DESCRIPTION
T-1	TITLE SHEET
C-1	ABUTTERS MAP
C-2	PARTIAL SITE PLAN
C-3	NORTHEAST ELEVATION
C-4	CABINET DETAILS

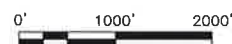
APPROXIMATE TRUE NORTH



NOTE:
1. MUNICIPALITY NOTIFICATION LIMIT MAP OBTAINED FROM GOOGLE MAPS.

MUNICIPALITY NOTIFICATION LIMIT MAP

SCALE: 1"=2000' FOR 11"x17"
1"=1000' FOR 22"x34"



1

APPROXIMATE TRUE NORTH

LOPUS ROAD
MAP: 3 LOT: 18A
PARCEL ID: 003-001-0016-A
TOWN OF BEACON FALLS
10 MAPLE AVENUE
BEACON FALLS, CT 06403

392 LOPUS ROAD
MAP: 3 LOT: 1
PARCEL ID: 003-001-0001
DEGEORGE, ELIZABETH C
392 LOPUS ROAD
BEACON FALLS, CT 06403

450 LOPUS ROAD
MAP: 3 LOT: 5B
PARCEL ID: 003-001-0003-B
POSICK, ROBERT
139 WEST ROAD
BEACON FALLS, CT 06403

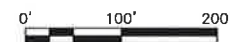
411 LOPUS ROAD
MAP: 3 LOT: 16B
PARCEL ID: 003-001-0016-B
TOWN OF BEACON FALLS
10 MAPLE AVENUE
BEACON FALLS, CT 06403

BRFAULT ROAD
MAP: 2 LOT: 12
PARCEL ID: 002-001-0012
SEYMOUR BEACON FALLS LLC
30C PROGRESSIVE DRIVE
SEYMOUR, CT 06483

NOTE:
1. ABUTTERS MAP BASED ON INFORMATION OBTAINED FROM THE TOWN OF BEACON FALLS PROPERTY MAPS & TAX ASSESSOR INFORMATION.

ABUTTERS MAP

SCALE: 1"=200' FOR 11"x17"
1"=100' FOR 22"x34"



2

CELLCO
PARTNERSHIP
d/b/a **verizon**
WIRELESS

BEACON FALLS 2 CT

CSC DRAWINGS		
2	01/04/17	ISSUED AS FINAL
1	12/27/16	ISSUED AS FINAL
0	12/16/16	ISSUED AS FINAL
D	12/15/16	FOR COMMENT
C	02/19/16	FOR COMMENT
B	02/17/16	FOR COMMENT
A	01/29/16	FOR COMMENT

Dewberry
Dewberry Engineers Inc.
800 PARSIPPANY ROAD
SUITE 301
PARSIPPANY, NJ 07054
PHONE: 973.739.9400
FAX: 973.739.9710

JIANG YU, P.E.
CONNECTICUT LICENSE NO. 0023222

DRAWN BY: AL

REVIEWED BY: GHN

CHECKED BY: GHN

PROJECT NUMBER: 50067815

JOB NUMBER: 50067829

SITE ADDRESS:

401 LOPUS ROAD
BEACON FALLS, CT 06403

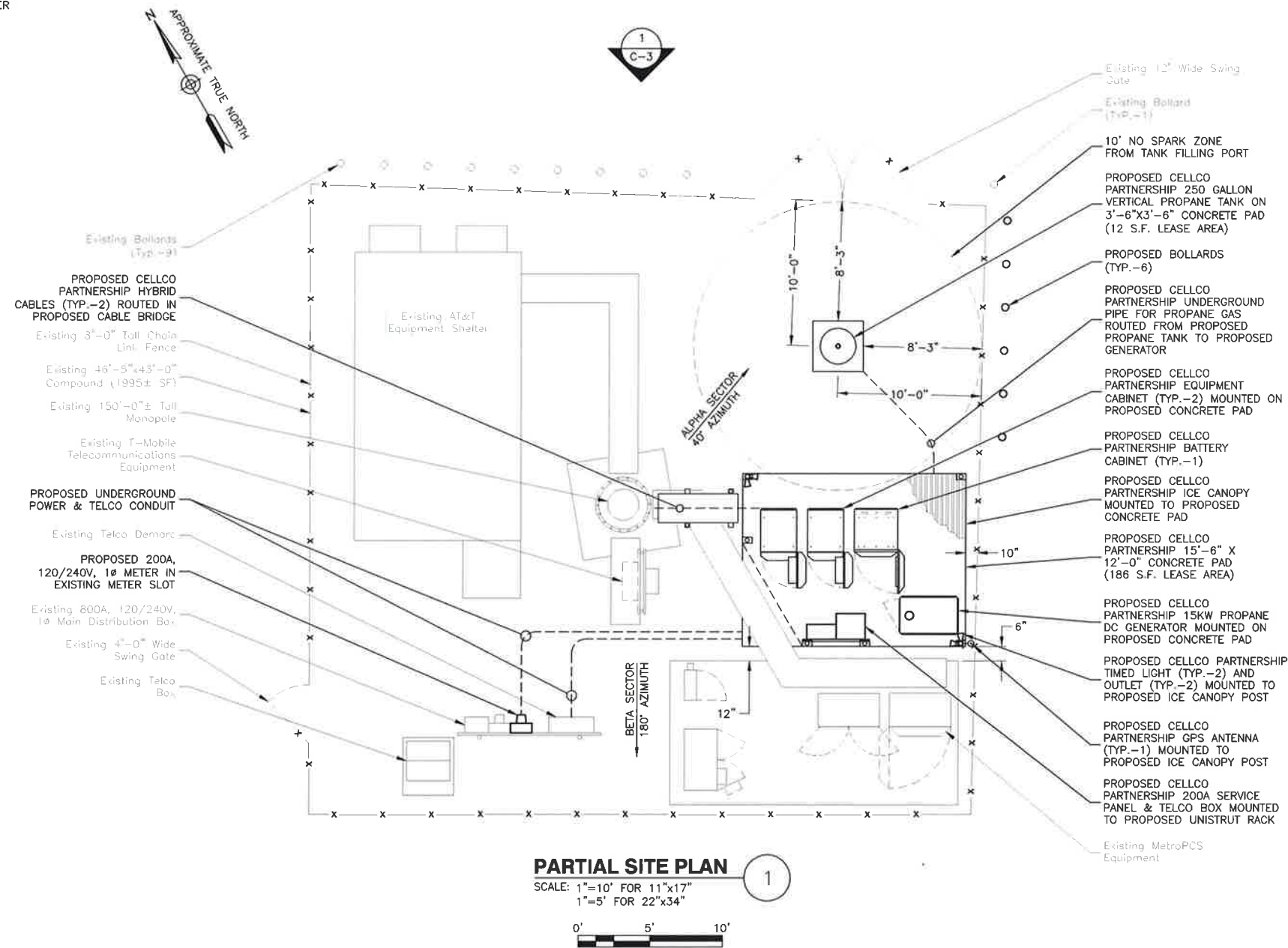
SHEET TITLE

ABUTTERS MAP

SHEET NUMBER

NOTES:

1. NORTH SHOWN AS APPROXIMATE.
2. SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
3. THESE DRAWINGS ARE PROVIDED FOR SITING COUNCIL REVIEW. CONSTRUCTION LEVEL DRAWINGS WILL BE DEVELOPED SUBSEQUENT TO THE APPROVAL OF THESE DRAWINGS.
4. LOCATION & ORIENTATION OF ALL ANTENNAS, COAX & EQUIPMENT PENDING STRUCTURAL ANALYSIS BY OTHERS.
5. EXISTING GROUND RING WILL BE UTILIZED TO GROUND PROPOSED EQUIPMENT.
6. SITE PLAN & ELEVATION BASED ON SITE VISIT BY DEWBERRY ENGINEERS INC. ON 01/14/15 AND 08/11/16, AND EXISTING TOWER ELEVATION DRAWING BY SITEMASTER DATED 01/22/14 AND PROPERTY SURVEY DRAWING BY GEOLINE SURVEYING INC. DATED 08/28/12.



BEACON FALLS 2 CT

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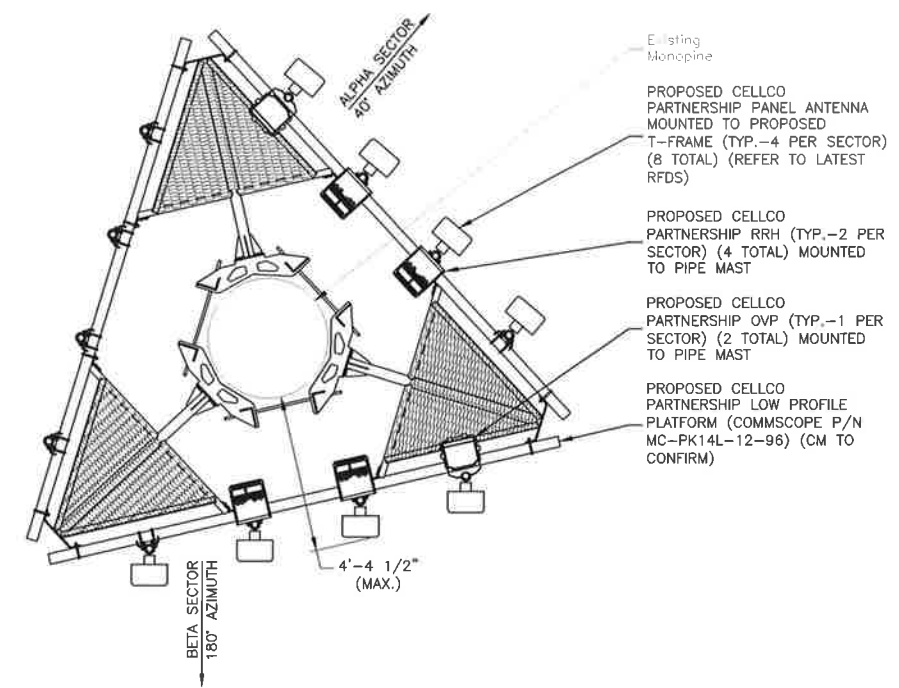
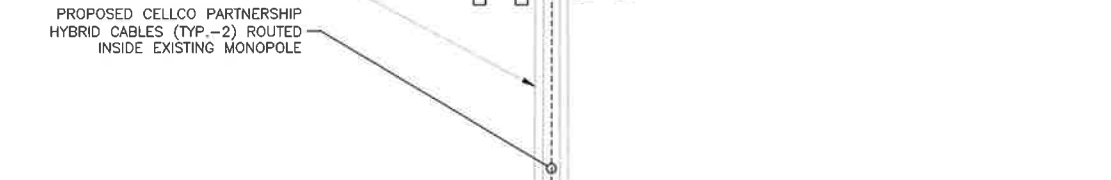
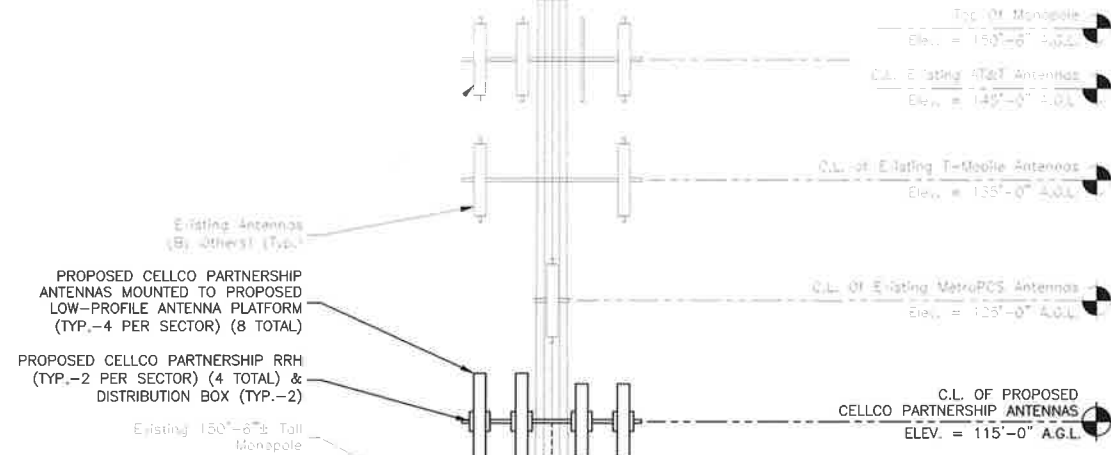
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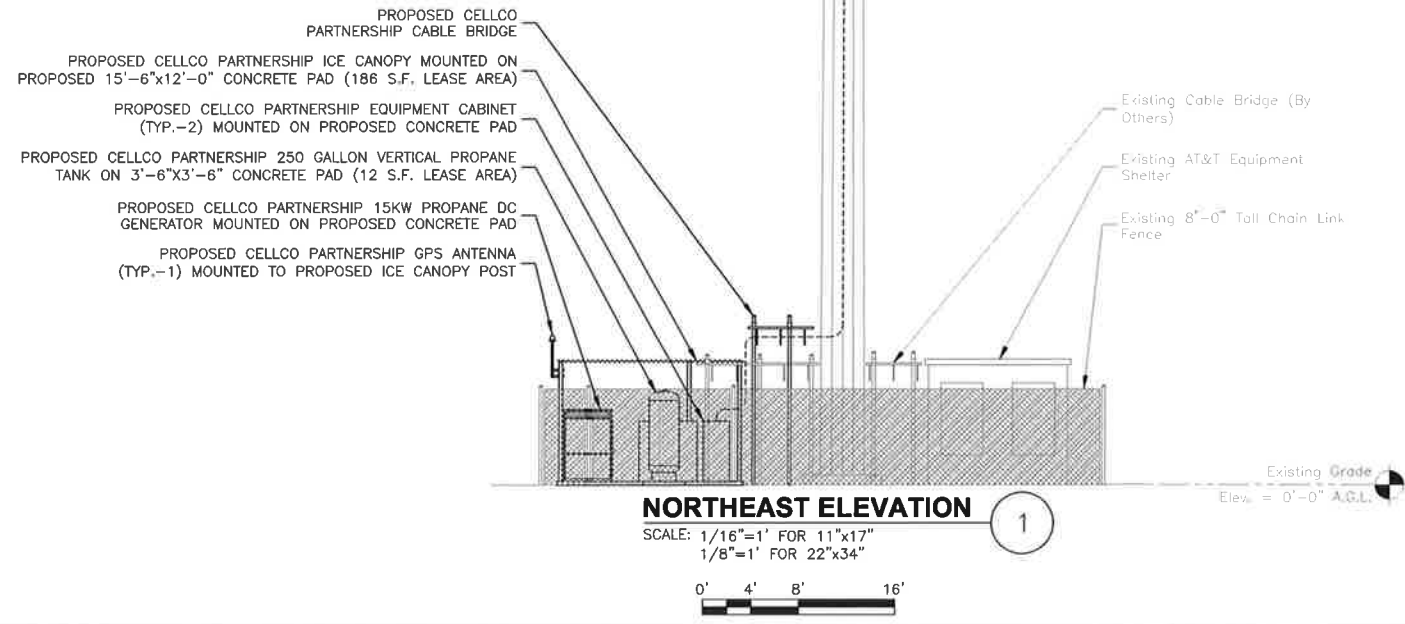
SHEET TITLE
PARTIAL SITE PLAN
SHEET NUMBER

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ANTENNA PLAN 2
 SCALE: 3/16"=1' FOR 11"x17"
 3/8"=1' FOR 22"x34"
 0' 2' 4' 6'



NORTHEAST ELEVATION 1
 SCALE: 1/16"=1' FOR 11"x17"
 1/8"=1' FOR 22"x34"
 0' 4' 8' 16'

CELLCO PARTNERSHIP
 d/b/a **verizon** WIRELESS

BEACON FALLS 2 CT

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 SUITE 301
 PARSIPPANY, NJ 07054
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401 LOPUS ROAD
 BEACON FALLS, CT 06403

SHEET TITLE

NORTHEAST ELEVATION

SHEET NUMBER

BEACON FALLS 2 CT

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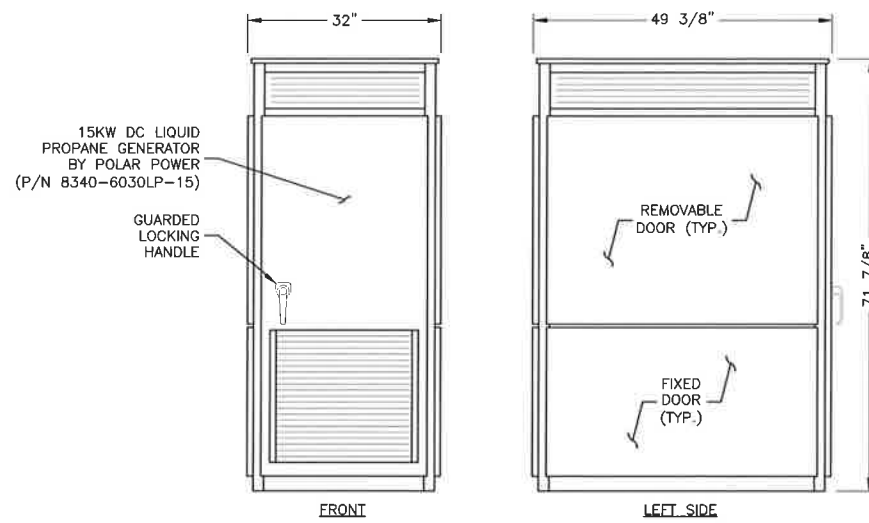
SITE ADDRESS:

401 LOPUS ROAD
BEACON FALLS, CT 06403

SHEET TITLE

CABINET DETAILS

SHEET NUMBER



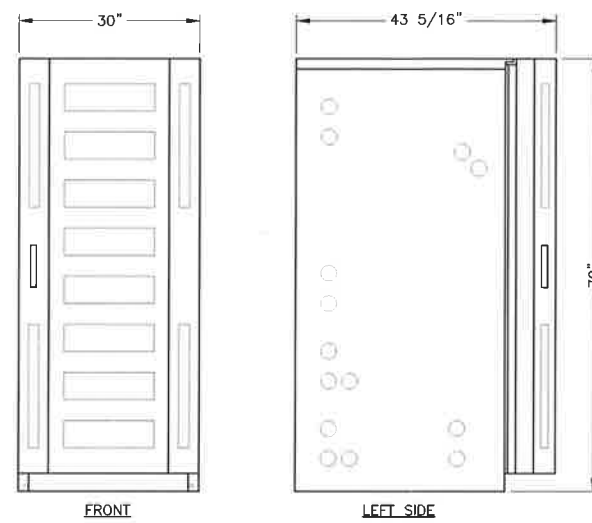
NOTES:

1. INSTALL GENERATOR PER MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.

BACKUP GENERATOR DETAIL

SCALE: N.T.S.

1



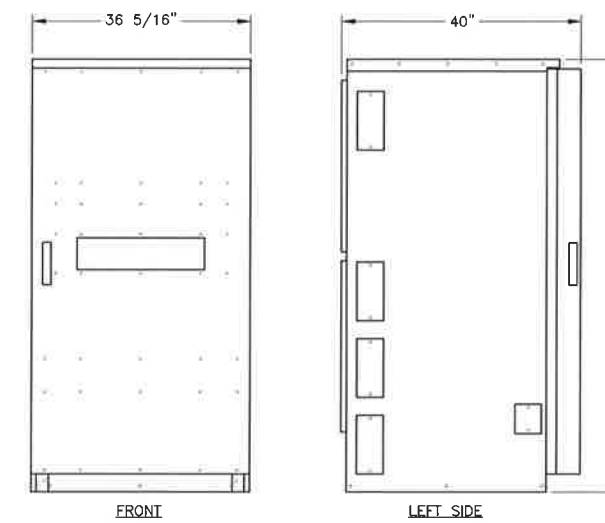
NOTES:

1. INSTALL EQUIPMENT CABINET PER MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.

RBA72-30 EQUIPMENT CABINET DETAIL

SCALE: N.T.S.

2



NOTES:

1. INSTALL BATTERY CABINET PER MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.

RBA72-36 BATTERY CABINET DETAIL

SCALE: N.T.S.

3

ATTACHMENT 3



LN-6515DS-VTM | LN-6515DS-A1M

Single Band Antenna, 698–896 MHz, 65° horizontal beamwidth, RET compatible

- Excellent choice to maximize both coverage and capacity in suburban and rural applications
- Fully compatible with Andrew remote electrical tilt system for greater OpEx savings
- Exceptional horizontal pattern roll-off and strong front-to-back ratio
- Extended bandwidth allows one antenna to serve multiple frequency allocations
- Great solution to maximize network coverage and capacity
- 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	16.7	17.6
Beamwidth, Horizontal, degrees	65	64
Beamwidth, Vertical, degrees	9.7	8.6
Beam Tilt, degrees	0–8	0–8
USLS (First Lobe), dB	17	17
Front-to-Back Ratio at 180°, dB	32	27
CPR at Boresight, dB	24	27
CPR at Sector, dB	15	13
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	16.6	16.9
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3
Gain by Beam Tilt, average, dBi	0° 16.6	0° 17.0
	4° 16.6	4° 17.0
	8° 16.4	8° 16.8
Beamwidth, Horizontal Tolerance, degrees	±1	±0.9
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.4
USLS, beampeak to 20° above beampeak, dB	18	18
Front-to-Back Total Power at 180° ± 30°, dB	25	23
CPR at Boresight, dB	24	27
CPR at Sector, dB	15	13

* 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 Type	Sector
Band	Single band
Brand	DualPol®
Operating Frequency Band	698 – 896 MHz

LNX-6515DS-VTM | LNX-6515DS-A1M

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, frontal	878.0 N @ 150 km/h 197.4 lbf @ 150 km/h
Wind Loading, lateral	273.0 N @ 150 km/h 61.4 lbf @ 150 km/h
Wind Loading, rear	1033.0 N @ 150 km/h 232.2 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 150 mph

Dimensions

Depth	180.5 mm 7.1 in
Length	2453.0 mm 96.6 in
Width	301.0 mm 11.9 in
Net Weight, without mounting kit	19.8 kg 43.7 lb

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator LNX-6515DS-A1M

Packed Dimensions

Depth	295.0 mm 11.6 in
Length	2718.0 mm 107.0 in
Width	392.0 mm 15.4 in
Shipping Weight	36.9 kg 81.4 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

DB380-3 — Pipe Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Used for wide panel antennas. Includes

LNX-6515DS-VTM | LNX-6515DS-A1M

three clamp sets.

DB5083D — Downtilt Mounting Kit for 2.4"-4.5" (60-115 mm) OD round members. Consists of two DB5083 heavy-duty, galvanized steel downtilt mounting brackets. This kit is compatible with the DB380-3 pipe mount for panel antennas with three mounting points.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance



HBXX-6517DS-VTM

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, 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
Gain by Beam Tilt, average, dBi	0° 18.4	0° 18.4	0° 18.7
	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, 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® Teletilt®
Operating Frequency Band	1710 – 2180 MHz

Product Specifications

COMMSCOPE®

HBXX-6517DS-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	668.0 N @ 150 km/h 150.2 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 150 mph

Dimensions

Depth	166.0 mm 6.5 in
Length	1903.0 mm 74.9 in
Width	305.0 mm 12.0 in
Net Weight	19.5 kg 43.0 lb

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator	HBXX-6517DS-A2M
RET System	Teletilt®

Packed Dimensions

Depth	292.0 mm 11.5 in
Length	2219.0 mm 87.4 in
Width	409.0 mm 16.1 in
Shipping Weight	29.3 kg 64.6 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-6517DS-VTM

POWERED BY



* 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.

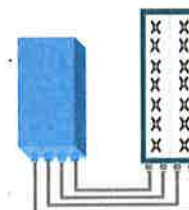


FEATURES

- 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) IP65
Wind load (@150km/h or 93mph)	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 B25 RRH4X30

Alcatel-Lucent Band 25 Remote Radio Head 4x30W is the new 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 B25 RRH4x30 allows operators to have a compact radio solution to deploy LTE in the PCS band (1.9 GHz, 3GPP band 25), providing them with the means to achieve high capacity, high quality and high coverage with minimum site requirements.

The Alcatel-Lucent B25 RRH4x30 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, LTE carriers from 3 MHz up to 20 MHz and up to 65 MHz instantaneous bandwidth.

The Alcatel-Lucent B25 RRH4x30 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 B25 RRH4x30 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.

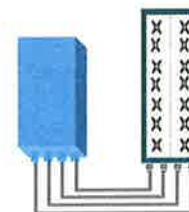


FEATURES

- Supporting LTE in 1.9 GHz band (PCS, 3GPP band 2 & 25)
- LTE 2Tx or 4Tx MIMO (SW switchable)
- Output power: Up to 2x60W or 4x30W
- Ready for 3, 5, 10, 15 or 20MHz LTE carrier operation with 4Rx Diversity
- Ready to support up to 4 carriers anywhere in 65MHz instantaneous bandwidth
- Convection-cooled (fan-less)
- Supports AISG 2.0 devices (RET, TMA) through RS485 or RF ports

BENEFITS

- Compact to reduce additional footprint when adding LTE in PCS band
- MIMO scheme operation selection (2Tx or 4Tx) by software only
- Full flexibility for multiple carriers operation over entire PCS spectrum
- Improves downlink spectral efficiency and cell edge throughput through MIMO4
- Increases LTE coverage thanks to 4-way Rx 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	3GPP bands 2 & 25 (PCS-G) DL: 1930 - 1995 MHz UL: 1850 - 1915 MHz
Instantaneous bandwidth - #carriers	65MHz – Up to 4 LTE carriers (In 40MHz occupied bandwidth)
LTE carrier bandwidth	3, 5, 10, 15 or 20 MHz
RF output power	2x60W or 4x30W (by SW)
Noise figure (3GPP band 2)	2.0 dB typ. (<2.5 dB max)
RX Diversity scheme	2 or 4 way Rx diversity
Sizes (HxWxD)(w/ solar shield) in mm (in.)	538 x 304 x 182 (21.2" x 12.0" x 7.2")
Volume (w/ solar shield) in L	30
Weight (w/ solar shield) in kg (lb)	24 (53)
DC voltage range	-40.5 to -57V at full performance, -38 to -57V with relaxation on power consumption
DC power consumption	580W typical @100% RF load
Environmental conditions	-40°C (-40°F) / +55°C (+131°F) IP65
Wind load (@150km/h or 93mph)	Frontal: <200N / Lateral : <150N
Antenna ports	4 ports 7/16 DIN female (50 ohms) VSWR < 1.5 (> 14dB)
CPRI ports	2 CPRI ports (HW ready for Rate7 / 9.8 Gbps)
AISG interfaces	1 AISG2.0 output (RS485), +24V/2A DC power Integrated Smart Bias Tees (x2)
Misc. Interfaces	1 external alarms connector (4 alarms) 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 B66A RRH4X45

The Alcatel-Lucent B66a Remote Radio Head 4x45 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. Its operational range covers beyond that of B4 (AWS) and B10 (AWS+).

Supporting 2Tx/4Tx MIMO and 2-way/4-way Rx diversity, the Alcatel-Lucent B66a RRH4x45 allows operators to have a compact radio solution to deploy LTE in the 2100 band (3GPP band 4, 10, and 66), providing them with the means to achieve high capacity, high quality, high reliability, large instantaneous bandwidth, and high coverage with minimum site requirements.

The Alcatel-Lucent B66a RRH4x45 product has four transmit RF paths, offering the possibility to **select, via software only, 2Tx or 4Tx MIMO configurations** with either 2x90W or 4x45W RF output power. It also supports 4-way Rx diversity at the 70 MHz instantaneous bandwidth.



The Alcatel-Lucent B66a RRH4x45 is a compact (near zero-footprint) solution and operates noise free, simplifying negotiations with site property owners and minimizing environmental impacts.

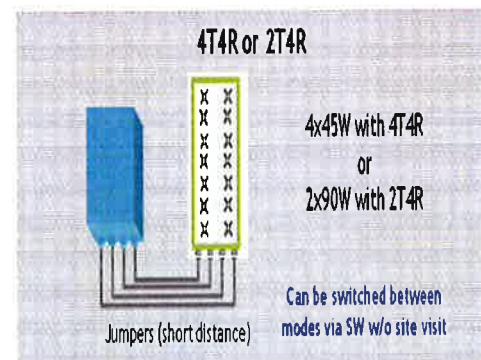
Its compactness and slim design makes the Alcatel-Lucent B66a RRH4x45 easy to install close to the antenna: operators can therefore locate this Remote Radio Head where RF design conditions are deemed ideal, minimizing trade-offs between available sites and RF optimum sites, together with reducing the RF feeder needs and installation costs.

FEATURES

- Supporting LTE in 2110 - 2180 MHz band/DL, 1710-1780MHz/UL (3GPP band 4, 10, and 66a)
- LTE 2Tx or 4Tx MIMO (SW selectable)
- Configuration: 2T2R/2T4R/4T4R
- Output power: Up to 2x90W or 4x45W (SW configurable)
- 70MHz 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 AWS 1-3 band
- Selection of MIMO configuration (2Tx or 4Tx) by software only
- Improves downlink spectral efficiency through 4Tx MIMO
- Increases LTE coverage thanks to 4Rx diversity capability and best in class Rx sensitivity
- Flexible mounting options: Pole or Wall



TECHNICAL SPECIFICATIONS

Features & Performance	
Number of TX/RX paths	4 duplexed (either 4T4R or 2T4R selectable by SW)
Frequency band	AWS 1-3, B4/B66a DL: 2110-2180 MHz / UL: 1710-1780 MHz
Instantaneous bandwidth - #carriers	70 MHz - 4 LTE MIMO carriers (in 70 MHz occupied bandwidth)
LTE carrier bandwidth	5, 10, 15, 20 MHz
RF output power	2x90W or 4x45W (selectable by SW)
Noise figure - RX Diversity scheme	2 dB typical (<2.5 dB max) - 2 or 4 way Rx diversity
Receiver Sensivity (FRC A1-3)	-104.5 dBm maximum
Sizes (HxWxD) in mm (in.)	655x299x182 (25.8x11.8x7.2) (with solar shield) 640x290x160 (25.2x11.4x6.3) (without solar shield)
Volume in Liters	35.5 (with solar shield) 29.7 (without solar shield)
Weight in kg (lb) (w/o mounting HW)	25.8kg (56.8lb) (with solar shield)
DC voltage range	Nominal: -48V, -40.5 to -57V at full performance, -38 to -57V with relaxation on power consumption
DC power consumption	750W typical @100% RF load (in 2Tx or 4Tx mode); Add 58W for 2A*29V for AISG
Environmental conditions	-40°C (-40°F) / +55°C (+131°F) UL50E Type 4 Enclosure
Wind load (@150km/h or 93mph)	250N (56lb) Frontal/150N (34lb) Lateral
Antenna ports	4 ports 4.3-10 female (50 ohms) VSWR < 1.5
CPRI ports	2 CPRI ports (HW ready for Rate 7, 9.8 Gbps) SFP: SMDF (HW supports also SMSF and MMDF)
AISG interfaces	1 AISG 2.0 output (RS485) Integrated Smart Bias Tees (x2)
Misc. Interfaces	4 external alarms (1 connector) 1 DC connector (2 pins)
Installation conditions	Pole and wall mounting
Regulatory compliance	3GPP 36.141 / 3GPP 36.113 / GR-487 / GR-1089-CORE / GR-3108-CORE / UL 60950-1 / FCC Part 27 / FCC Part 15 / GR-3178-CORE

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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

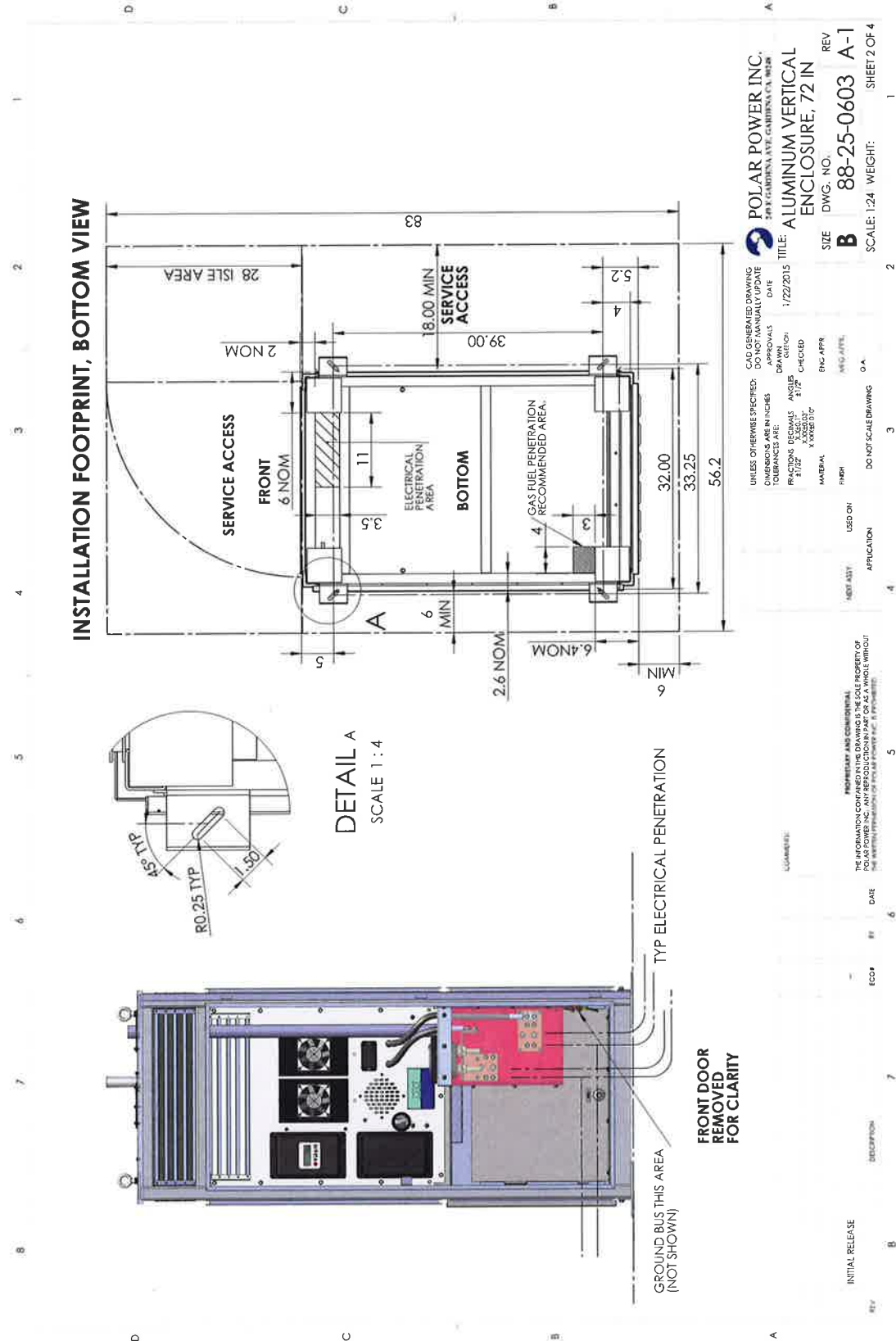
Controller Type.....	Supra Model 250
4-Line Plain Text LCD Display.....	Simple user interface for ease of operation
Engine Run Hours Indication.....	Standard
Programmable Start Delay.....	Standard
Run/Alarm/Maintenance Logs.....	Standard
Engine Start Sequence.....	Cyclic cranking: 5 sec on, 45 sec rest (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 Delay	Automatic 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



ATTACHMENT 4



AMERICAN TOWER®
CORPORATION

Structural Analysis Report

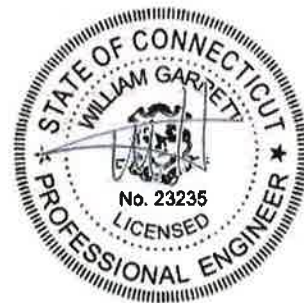
Structure : 149 ft Monopole
ATC Site Name : Beacon Falls CT, CT
ATC Site Number : 370641
Engineering Number : OAA597776_C3_10
Proposed Carrier : Verizon
Carrier Site Name : Beacon Falls 2 CT
Carrier Site Number : 296956
Site Location : 401-411 Lopus Road
Beacon Falls, CT 06403-0000
41.432833,-73.070222
County : New Haven
Date : October 31, 2016
Max Usage : 35%
Result : Pass

Reviewed by:
William Garrett, PE
Chief Engineer

Prepared By:
Felix Buabeng

Reviewed By:

Felix Buabeng



Nov 4 2016 3:42 PM

cosign

COA: PEC.0001553



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Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 149 ft monopole to reflect the change in loading by Verizon.

Supporting Documents

Tower Drawings	EI Job #13674, dated October 19, 2005
Foundation Drawing	EI Job #13674, dated October 19, 2005
Geotechnical Report	Tectonic Project #3917.BEACON, dated August 17, 2005

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:	97 mph (3-Second Gust, V_{asd}) / 125 mph (3-Second Gust, V_{ult})
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 3/4" radial ice concurrent
Code:	ANSI/TIA-222-G / 2012 IBC / 2016 Connecticut State Building Code
Structure Class:	II
Exposure Category:	B
Topographic Category:	1
Crest Height:	0 ft
Spectral Response:	$S_s = 0.19$, $S_1 = 0.06$
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

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
145.5	145.5	6	Powerwave Allgon LGP13519	Low Profile Platform	(2) 0.78" 8 AWG 6 (12) 1 5/8" Coax (1) 0.39" Fiber Trunk (1) 2" Conduit ...	AT&T Mobility
		1	Raycap DC6-48-60-18-8F ("Squid")			
	141.0	6	Powerwave Allgon LGP21401			
		6	Ericsson RRUS 11 (Band 12)			
		6	Allgon 7770.00			
		3	KMW AM-X-CD-16-65-00T-RET			
130.0	130.0	3	Ericsson KRY 112 144/1	T-Arms	(12) 1 5/8" Coax (1) 1.57" Hybrid	T-Mobile
		6	Ericsson AIR 21			
121.0	121.0	9	RFS APX16DWV-16DWVS-C-A20	Flush	(9) 1 5/8" Coax	Youghiogheny

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					
115.0	115.0	2	Alcatel-Lucent RRH2X60-1900	Low Profile Platform	(2) 1 5/8" Hybriflex Cable	Verizon
		2	Alcatel-Lucent RRH2x60 700			
		1	RFS DB-B1-6C-12AB-0Z			
		2	Alcatel-Lucent B66A RRH4x45-4R w/ Solar Shield			
		4	Andrew HBXX-6517DS-A2M (43 lbs)			
		4	Commscope LNX-6515DS-A1M (50.3 lb)			

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	32%	Pass
Shaft	35%	Pass
Base Plate	33%	Pass

Foundations

Reaction Component	Original Design Reactions	Factored Design Reactions*	Analysis Reactions	% of Design
Moment (Kips-Ft)	3,762.3	5,079.1	2,083.6	41%
Shear (Kips)	34.9	47.1	20.5	44%

* The design reactions are factored by 1.35 per ANSI/TIA-222-G, Sec. 15.5.1

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) (°)
115.0	Alcatel-Lucent RRH2X60-1900	Verizon	0.620	0.660
	Alcatel-Lucent RRH2x60 700			
	RFS DB-B1-6C-12AB-0Z			
	Alcatel-Lucent B66A RRH4x45-4R w/ Solar Shield			
	Andrew HBXX-6517DS-A2M (43 lbs)			
	Commscope LNX-6515DS-A1M (50.3 lb)			

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



Standard Conditions

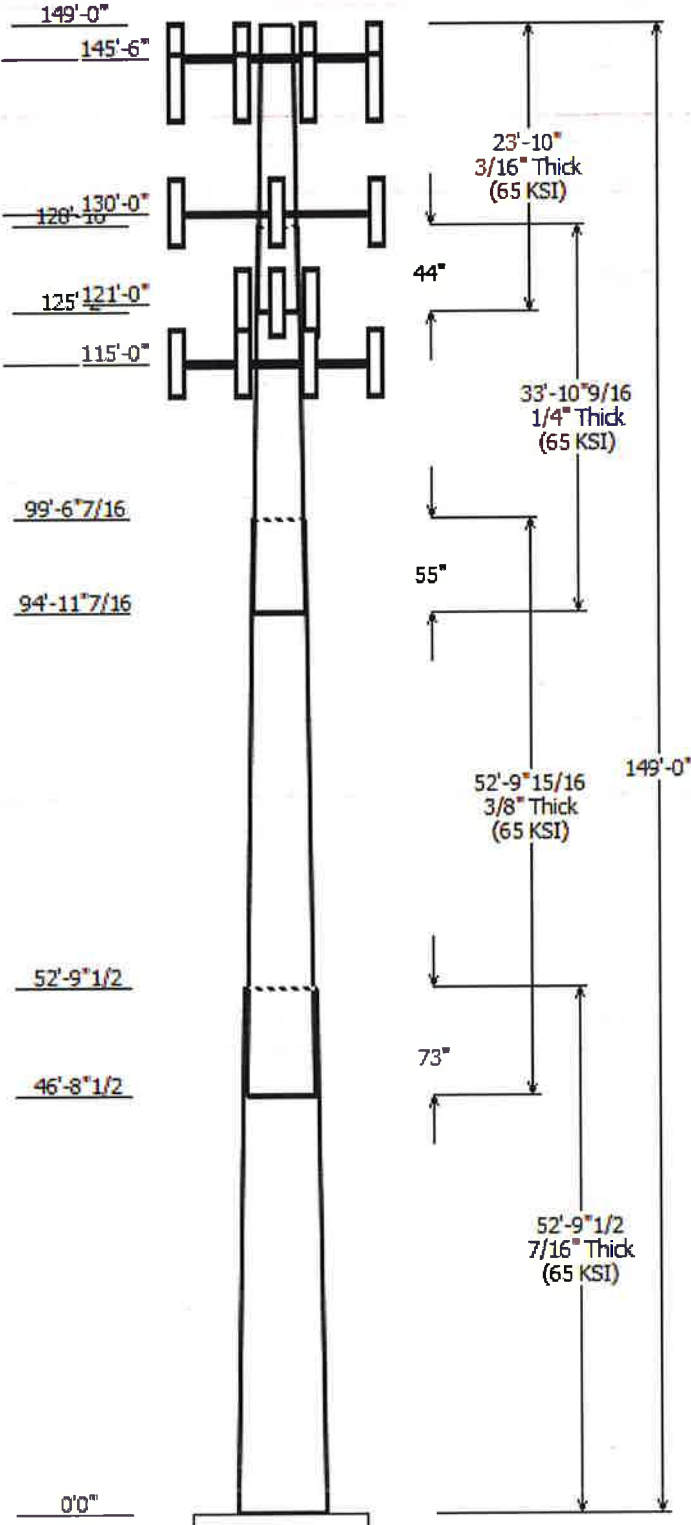
All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

- 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 American Tower Corporation, or generated by field inspections or measurements of the structure.

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. 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 American Tower Corporation, 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. A.T. Engineering Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.



Job Information	
Pole :	370641
Code:	ANSI/TIA-222-G
Description :	149 ft EEI Monopole
Client :	Verizon Wireless
Struct Class :	II
Location :	Beacon Falls CT, CT
Shape :	18 Sides
Exposure :	B
Height :	149.00 (ft)
Topo :	1
Base Elev (ft):	0.00
Taper:	0.262584(in/ft)

Sections Properties								
Shaft Section	Length (ft)	Diameter (in)		Thick (in)	Joint Type	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)
		Across Top	Flats Bottom					
1	52.790	42.13	56.00	0.438		0.000	0.262600	65
2	52.830	30.61	44.48	0.375	Slip Joint	73.000	0.262600	65
3	33.880	23.42	32.31	0.250	Slip Joint	55.000	0.262600	65
4	23.833	18.50	24.75	0.188	Slip Joint	44.000	0.262600	65

Discrete Appurtenance				
Attach Elev (ft)	Force Elev (ft)	Qty	Description	
145.500	141.000	3	KMW AM-X-CD-16-65-00T-RET	
145.500	145.500	1	Raycap DC6-48-60-18-8F	
145.500	141.000	6	Allgon 7770.00	
145.500	141.000	6	Ericsson RRUS 11 (Band 12)	
145.500	141.000	6	Powerwave Allgon LGP21401	
145.500	145.500	6	Powerwave Allgon LGP13519	
145.500	145.500	1	Flat Low Profile Platform	
130.000	130.000	3	Round T-Arm	
130.000	130.000	6	Ericsson AIR 21	
130.000	130.000	3	Ericsson KRY 112 144/1	
121.000	121.000	9	RFS APX16DWV-16DWVS-C-A20	
115.000	115.000	2	Alcatel-Lucent B66A RRH4x45-	
115.000	115.000	4	Commscope LNX-6515DS-A1M	
115.000	115.000	4	Andrew HBXX-6517DS-A2M (43	
115.000	115.000	1	RFS DB-B1-6C-12AB-0Z	
115.000	115.000	2	Alcatel-Lucent RRH2x60 700	
115.000	115.000	2	Alcatel-Lucent RRH2X60-1900	
115.000	115.000	1	Flat Low Profile Platform	

Linear Appurtenance				
Elev (ft)		Description	Exposed To Wind	
From	To			
0.000	115.0	1 5/8" Hybriflex	No	
0.000	121.0	1 5/8" Coax	No	
0.000	130.0	1 5/8" Coax	No	
0.000	130.0	1.57" Hybrid	No	
0.000	145.5	0.39" Fiber Trunk	No	
0.000	145.5	0.78" 8 AWG 6	No	
0.000	145.5	1 5/8" Coax	No	
0.000	145.5	2" Conduit	No	

Load Cases	
1.2D + 1.6W	97 mph with No Ice
0.9D + 1.6W	97 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 0.75 in Radial Ice
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2Sds) * DL + E	Seismic (Reduced DL) Equivalent Lateral
(0.9 - 0.2Sds) * DL + E	Seismic (Reduced DL) Equivalent Modal

1.0D + 1.0W

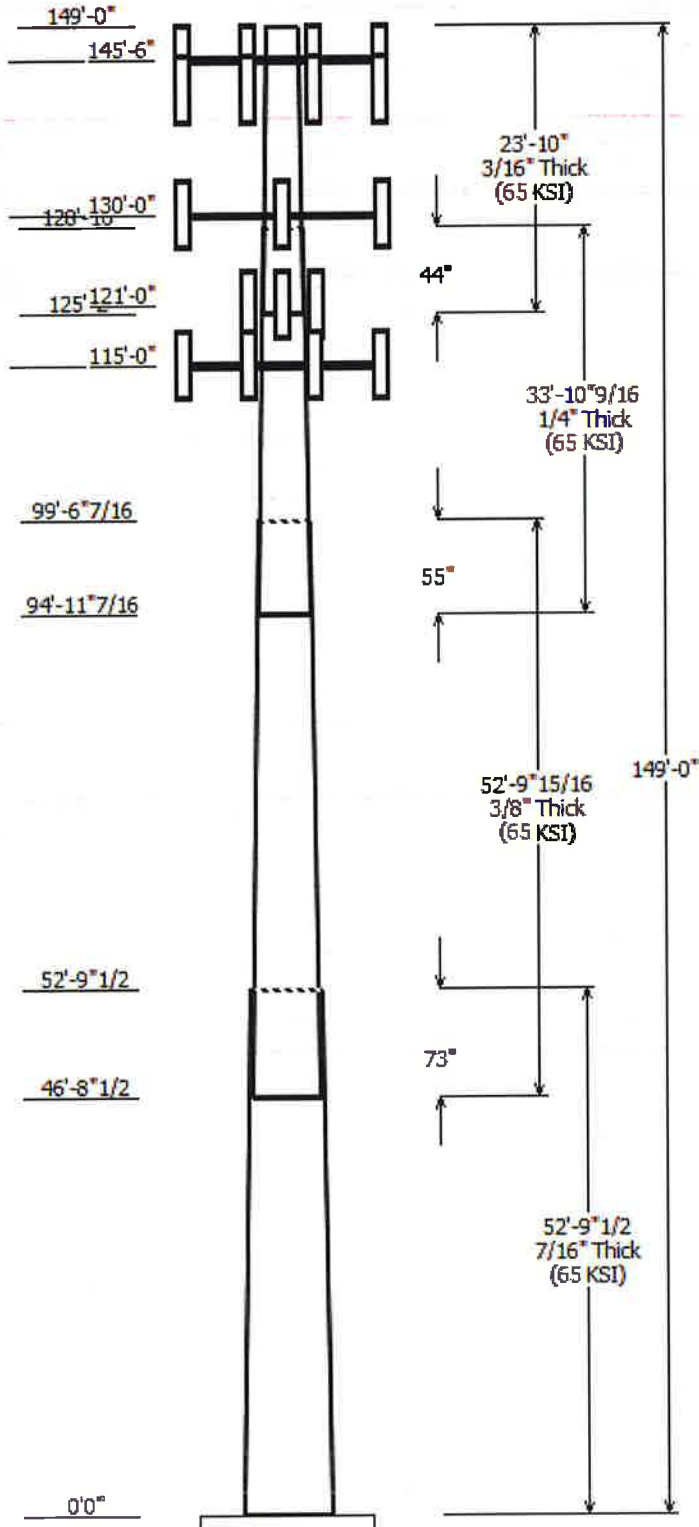
Serviceability 60 mph

Reactions

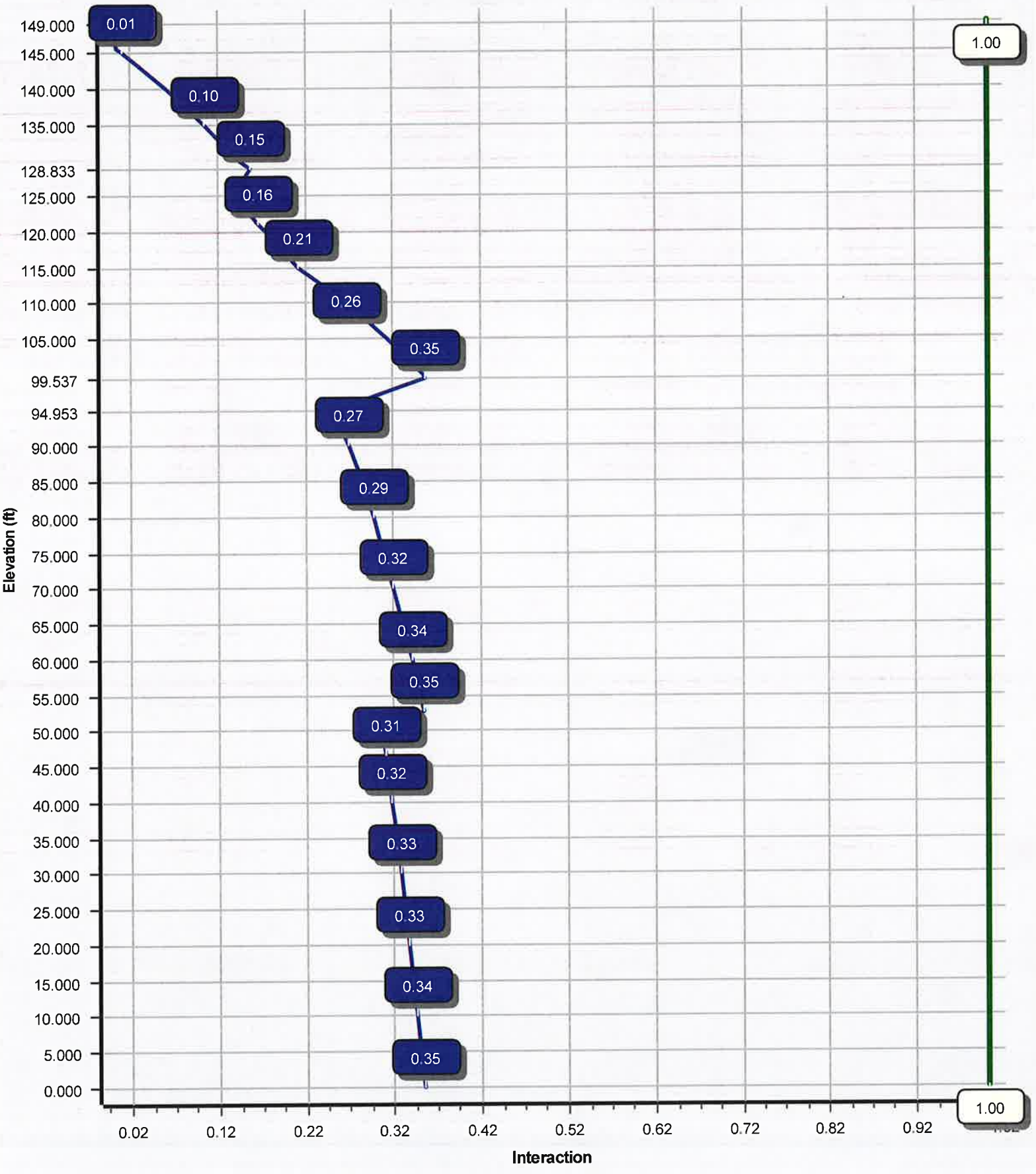
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	2083.60	20.50	41.51
0.9D + 1.6W	2068.86	20.49	31.13
1.2D + 1.0Di + 1.0Wi	567.05	5.75	60.40
(1.2 + 0.2Sds) * DL + E ELFM	187.60	1.70	41.12
(1.2 + 0.2Sds) * DL + E EMAM	186.08	1.78	41.12
(0.9 - 0.2Sds) * DL + E ELFM	186.01	1.70	28.45
(0.9 - 0.2Sds) * DL + E EMAM	184.37	1.78	28.45
1.0D + 1.0W	496.03	4.90	34.60

Dish Deflections

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



Load Case : 1.2D + 1.6W
Max Ratio 35.47% at 99.5 ft



Site Number: 370641

Code: ANSI/TIA-222-G

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Site Name: Beacon Falls CT, CT

Engineering Number: OAA597776_C3_10

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Customer: Verizon Wireless

Analysis Parameters

Location:	New Haven County, CT	Height (ft):	149
Code:	ANSI/TIA-222-G	Base Diameter (in):	56.00
Shape:	18 Sides	Top Diameter (in):	18.50
Pole Type:	Taper	Taper (in/ft) :	0.263
Pole Manufacturer:	EEI		

Ice & Wind Parameters

Structure Class:	II	Design Wind Speed Without Ice:	97 mph
Exposure Category:	B	Design Wind Speed With Ice:	50 mph
Topographic Category:	1	Operational Wind Speed:	60 mph
Crest Height:	0.0 ft	Design Ice Thickness:	0.75 in

Seismic Parameters

Analysis Method:	Equivalent Modal Analysis & Equivalent Lateral Force Methods		
Site Class:	D - Stiff Soil		
Period Based on Rayleigh Method (sec):	1.80		
T _L (sec):	6	p:	1.3
S _s :	0.193	S ₁ :	0.064
F _a :	1.600	F _v :	2.400
S _{ds} :	0.206	S _{d1} :	0.102
		C _s :	0.038
		C _s Max:	0.038
		C _s Min:	0.030

Load Cases

1.2D + 1.6W	97 mph with No Ice
0.9D + 1.6W	97 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 0.75 in Radial Ice
(1.2 + 0.2S _{ds}) * DL + E ELFM	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2S _{ds}) * DL + E EMAM	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2S _{ds}) * DL + E ELFM	Seismic (Reduced DL) Equivalent Lateral Forces Method
(0.9 - 0.2S _{ds}) * DL + E EMAM	Seismic (Reduced DL) Equivalent Modal Analysis Method
1.0D + 1.0W	Serviceability 60 mph

Site Number: 370641

Code: ANSI/TIA-222-G

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Site Name: Beacon Falls CT, CT

Engineering Number: OAA597776_C3_10

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Customer: Verizon Wireless

Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Slip		Weight (lb)	Bottom						Top						
				Joint Type	Joint Len (in)		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)
1-18	52.790	0.4375	65		0.00	12,130	56.00	0.00	77.15	30093.2	21.16	128.00	42.13	52.79	57.90	12721.9	15.57	96.32	0.262584
2-18	52.830	0.3750	65	Slip	73.00	7,954	44.48	46.71	52.50	12906.4	19.51	118.63	30.61	99.54	35.99	4157.6	12.98	81.64	0.262584
3-18	33.880	0.2500	65	Slip	55.00	2,526	32.31	94.95	25.44	3305.6	21.38	129.27	23.42	128.83	18.39	1247.1	15.11	93.68	0.262584
4-18	23.833	0.1875	65	Slip	44.00	1,035	24.75	125.17	14.62	1115.3	21.87	132.04	18.50	149.00	10.90	461.7	15.99	98.67	0.262584
Shaft Weight						23,646													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	Weight (lb)	No Ice EPAa (sf)	Orientation Factor	Weight (lb)	Ice EPAa (sf)	Orientation Factor	Distance From Face (ft)	Vert Ecc (ft)
145.50	Allgon 7770.00	6	35.00	5.510	0.77	169.64	6.562	0.77	0.000	-4.500
145.50	Ericsson RRUS 11 (Band 12)	6	50.00	2.570	0.67	131.05	3.212	0.67	0.000	-4.500
145.50	Flat Low Profile Platform	1	1500.00	26.100	1.00	2,147.13	45.170	1.00	0.000	0.000
145.50	KMW AM-X-CD-16-65-00T-	3	48.50	8.020	0.79	236.59	9.310	0.79	0.000	-4.500
145.50	Powerwave Allgon LGP13519	6	5.30	0.340	0.50	20.28	0.560	0.50	0.000	0.000
145.50	Powerwave Allgon LGP21401	6	14.10	1.100	0.50	47.60	1.562	0.50	0.000	-4.500
145.50	Raycap DC6-48-60-18-8F	1	31.80	1.280	1.00	124.39	2.851	1.00	0.000	0.000
130.00	Ericsson AIR 21	6	91.00	6.050	0.86	256.29	7.131	0.86	0.000	0.000
130.00	Ericsson KRY 112 144/1	3	11.00	0.410	0.50	27.02	0.630	0.50	0.000	0.000
130.00	Round T-Arm	3	250.00	9.700	0.67	456.36	17.840	0.67	0.000	0.000
121.00	RFS APX16DWV-16DWVS-C-	9	40.70	6.460	0.66	173.30	7.551	0.66	0.000	0.000
115.00	Alcatel-Lucent B66A	2	56.80	2.540	0.67	125.12	2.476	0.67	0.000	0.000
115.00	Alcatel-Lucent RRH2x60 700	2	56.70	2.150	0.67	125.02	2.476	0.67	0.000	0.000
115.00	Alcatel-Lucent RRH2X60-	2	43.00	1.880	0.50	107.60	2.441	0.50	0.000	0.000
115.00	Andrew HBXX-6517DS-A2M	4	43.00	8.530	0.81	214.24	11.359	0.81	0.000	0.000
115.00	Commscope LNX-6515DS-	4	50.30	11.440	0.84	305.07	13.055	0.84	0.000	0.000
115.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	2,130.81	44.688	1.00	0.000	0.000
115.00	RFS DB-B1-6C-12AB-OZ	1	21.40	2.510	0.67	160.35	5.647	0.67	0.000	0.000
Totals		66	6206.60			14,824.18			Number of Loadings : 18	

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Diameter (in)	Coax Weight (lb/ft)	Projected Width (in)	Exposed To Wind	Carrier
0.00	145.50	1	0.39" Fiber Trunk	0.39	0.06	N 0.00	N	AT&T Mobility
0.00	145.50	2	0.78" 8 AWG 6	0.78	0.59	N 0.00	N	AT&T Mobility
0.00	145.50	12	1 5/8" Coax	1.98	0.82	N 0.00	N	AT&T Mobility
0.00	145.50	1	2" Conduit	2.38	3.65	N 0.00	N	AT&T Mobility
0.00	130.00	12	1 5/8" Coax	1.98	0.82	N 0.00	N	T-Mobile
0.00	130.00	1	1.57" Hybrid	1.57	1.07	N 0.00	N	T-Mobile
0.00	121.00	9	1 5/8" Coax	1.98	0.82	N 0.00	N	Youghiogheny
0.00	115.00	2	1 5/8" Hybriflex	1.98	1.30	N 0.00	N	Verizon

Site Number: 370641

Code: ANSI/TIA-222-G

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Site Name: Beacon Falls CT, CT

Engineering Number: OAA597776_C3_10

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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	F'y (ksi)	S (in ³)	Z (in ³)	Weight (lb)
0.00		0.4375	56.000	77.153	30,093.2	21.16	128.00	76.5	1058.	0.0	0.0
5.00		0.4375	54.687	75.330	28,009.9	20.63	125.00	77.1	1008.	0.0	1,297.2
10.00		0.4375	53.374	73.507	26,025.1	20.10	122.00	77.8	960.4	0.0	1,266.1
15.00		0.4375	52.061	71.683	24,136.3	19.57	119.00	78.4	913.1	0.0	1,235.1
20.00		0.4375	50.748	69.860	22,341.2	19.04	116.00	79.0	867.1	0.0	1,204.1
25.00		0.4375	49.435	68.037	20,637.4	18.51	113.00	79.6	822.2	0.0	1,173.1
30.00		0.4375	48.122	66.214	19,022.5	17.98	109.99	80.2	778.6	0.0	1,142.1
35.00		0.4375	46.810	64.391	17,494.1	17.46	106.99	80.9	736.1	0.0	1,111.1
40.00		0.4375	45.497	62.568	16,049.9	16.93	103.99	81.5	694.8	0.0	1,080.0
45.00		0.4375	44.184	60.745	14,687.4	16.40	100.99	82.1	654.7	0.0	1,049.0
46.71	Bot - Section 2	0.4375	43.736	60.123	14,240.6	16.22	99.97	82.3	641.3	0.0	351.0
50.00		0.4375	42.871	58.922	13,404.3	15.87	97.99	82.6	615.8	0.0	1,249.6
52.79	Top - Section 1	0.3750	42.888	50.600	11,554.4	18.76	114.37	79.3	530.6	0.0	1,039.1
55.00		0.3750	42.308	49.909	11,087.7	18.48	112.82	79.7	516.2	0.0	377.9
60.00		0.3750	40.995	48.346	10,078.5	17.87	109.32	80.4	484.2	0.0	835.8
65.00		0.3750	39.682	46.784	9,132.4	17.25	105.82	81.1	453.3	0.0	809.3
70.00		0.3750	38.369	45.221	8,247.6	16.63	102.32	81.8	423.4	0.0	782.7
75.00		0.3750	37.056	43.658	7,421.8	16.01	98.82	82.6	394.5	0.0	756.1
80.00		0.3750	35.743	42.096	6,653.0	15.40	95.32	82.6	366.6	0.0	729.5
85.00		0.3750	34.430	40.533	5,939.3	14.78	91.81	82.6	339.8	0.0	702.9
90.00		0.3750	33.117	38.970	5,278.5	14.16	88.31	82.6	313.9	0.0	676.3
94.95	Bot - Section 3	0.3750	31.817	37.422	4,674.1	13.55	84.84	82.6	289.3	0.0	643.8
95.00		0.3750	31.805	37.408	4,668.6	13.54	84.81	82.6	289.1	0.0	10.0
99.54	Top - Section 2	0.2500	31.113	24.489	2,947.2	20.53	124.45	77.2	186.6	0.0	951.9
100.0		0.2500	30.992	24.393	2,912.5	20.45	123.97	77.4	185.1	0.0	38.5
105.0		0.2500	29.679	23.351	2,555.0	19.52	118.71	78.4	169.6	0.0	406.2
110.0		0.2500	28.366	22.309	2,228.1	18.60	113.46	79.5	154.7	0.0	388.4
115.0		0.2500	27.053	21.267	1,930.3	17.67	108.21	80.6	140.5	0.0	370.7
120.0		0.2500	25.740	20.226	1,660.3	16.74	102.96	81.7	127.0	0.0	353.0
121.0		0.2500	25.477	20.017	1,609.5	16.56	101.91	81.9	124.4	0.0	68.5
125.0		0.2500	24.427	19.184	1,416.7	15.82	97.71	82.6	114.2	0.0	266.8
125.1	Bot - Section 4	0.2500	24.383	19.149	1,409.1	15.79	97.53	82.6	113.8	0.0	10.9
128.8	Top - Section 3	0.1875	23.795	14.049	989.3	20.97	126.91	76.7	81.9	0.0	413.0
130.0		0.1875	23.489	13.867	951.3	20.68	125.28	77.1	79.8	0.0	55.4
135.0		0.1875	22.176	13.086	799.4	19.44	118.27	78.5	71.0	0.0	229.3
140.0		0.1875	20.863	12.304	664.6	18.21	111.27	80.0	62.7	0.0	216.0
145.0		0.1875	19.550	11.523	545.8	16.97	104.27	81.4	55.0	0.0	202.7
145.5		0.1875	19.419	11.445	534.8	16.85	103.57	81.6	54.2	0.0	19.5
149.0		0.1875	18.500	10.898	461.7	15.99	98.67	82.6	49.2	0.0	133.0
23,645.5											

Site Number: 370641

Code: ANSI/TIA-222-G

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Site Name: Beacon Falls CT, CT

Engineering Number: OAA597776_C3_10

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Customer: Verizon Wireless

Load Case: 1.2D + 1.6W

97 mph with No Ice

23 Iterations

Gust Response Factor :1.10

Wind Importance Factor 1.00

Dead Load Factor :1.20

Wind Load Factor :1.60

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		214.5	0.0					0.0	0.0	214.5	0.0	0.0	0.0
5.00		424.0	1,556.6					0.0	213.7	424.0	1,770.3	0.0	0.0
10.00		413.8	1,519.4					0.0	213.7	413.8	1,733.1	0.0	0.0
15.00		403.6	1,482.1					0.0	213.7	403.6	1,695.9	0.0	0.0
20.00		393.5	1,444.9					0.0	213.7	393.5	1,658.6	0.0	0.0
25.00		383.3	1,407.7					0.0	213.7	383.3	1,621.4	0.0	0.0
30.00		377.5	1,370.5					0.0	213.7	377.5	1,584.2	0.0	0.0
35.00		379.3	1,333.3					0.0	213.7	379.3	1,547.0	0.0	0.0
40.00		383.0	1,296.0					0.0	213.7	383.0	1,509.8	0.0	0.0
45.00		257.9	1,258.8					0.0	213.7	257.9	1,472.5	0.0	0.0
46.71	Bot - Section 2	194.7	421.2					0.0	73.0	194.7	494.1	0.0	0.0
50.00		238.2	1,499.5					0.0	140.8	238.2	1,640.3	0.0	0.0
52.79	Top - Section 1	195.6	1,246.9					0.0	119.3	195.6	1,366.2	0.0	0.0
55.00		281.0	453.5					0.0	94.5	281.0	548.0	0.0	0.0
60.00		387.6	1,003.0					0.0	213.7	387.6	1,216.7	0.0	0.0
65.00		383.9	971.1					0.0	213.7	383.9	1,184.8	0.0	0.0
70.00		379.2	939.2					0.0	213.7	379.2	1,152.9	0.0	0.0
75.00		373.5	907.3					0.0	213.7	373.5	1,121.0	0.0	0.0
80.00		367.0	875.4					0.0	213.7	367.0	1,089.1	0.0	0.0
85.00		359.7	843.5					0.0	213.7	359.7	1,057.2	0.0	0.0
90.00		350.0	811.6					0.0	213.7	350.0	1,025.3	0.0	0.0
94.95	Bot - Section 3	173.8	772.6					0.0	211.7	173.8	984.3	0.0	0.0
95.00		157.8	12.0					0.0	2.0	157.8	14.0	0.0	0.0
99.54	Top - Section 2	171.9	1,142.3					0.0	193.9	171.9	1,336.2	0.0	0.0
100.00		182.9	46.2					0.0	19.8	182.9	66.0	0.0	0.0
105.00		329.3	487.4					0.0	213.7	329.3	701.1	0.0	0.0
110.00		319.0	466.1					0.0	213.7	319.0	679.8	0.0	0.0
115.00	Appertunance(s)	308.1	444.8	3,596.9	0.0	0.0	2,649.1	0.0	213.7	3,905.0	3,307.7	0.0	0.0
120.00		180.8	423.6					0.0	198.1	180.8	621.7	0.0	0.0
121.00	Appertunance(s)	145.5	82.2	1,612.7	0.0	0.0	439.6	0.0	39.6	1,758.2	561.3	0.0	0.0
125.00		120.6	320.1					0.0	123.1	120.6	443.2	0.0	0.0
125.17	Bot - Section 4	109.1	13.0					0.0	5.1	109.1	18.2	0.0	0.0
128.83	Top - Section 3	136.8	495.6					0.0	112.8	136.8	608.4	0.0	0.0
130.00	Appertunance(s)	167.9	66.5	1,719.7	0.0	0.0	1,594.8	0.0	35.9	1,887.6	1,697.2	0.0	0.0
135.00		264.4	275.1					0.0	88.4	264.4	363.5	0.0	0.0
140.00		251.3	259.2					0.0	88.4	251.3	347.6	0.0	0.0
145.00		134.2	243.2					0.0	88.4	134.2	331.6	0.0	0.0
145.50	Appertunance(s)	93.0	23.4	3,278.3	0.0	-9,182.3	2,764.4	0.0	8.8	3,371.3	2,796.7	0.0	0.0
149.00		81.1	159.7					0.0	0.0	81.1	159.7	0.0	0.0
Totals:										20,676.0	41,526.7	0.00	0.00

Site Number: 370641

Code: ANSI/TIA-222-G

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Site Name: Beacon Falls CT, CT

Engineering Number: OAA597776_C3_10

11/3/2016 4:35:43 PM

Customer: Verizon Wireless

Load Case: 1.2D + 1.6W

97 mph with No Ice

23 Iterations

Gust Response Factor :1.10

Wind Importance Factor 1.00

Dead Load Factor :1.20

Wind Load Factor :1.60

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	-41.51	-20.50	0.00	-2,083.60	0.00	2,083.60	5,312.91	2,656.45	12,129.5	6,073.81	0.00	0.00	0.351
5.00	-39.71	-20.14	0.00	-1,981.12	0.00	1,981.12	5,229.56	2,614.78	11,654.9	5,836.15	0.05	-0.10	0.347
10.00	-37.94	-19.79	0.00	-1,880.43	0.00	1,880.43	5,144.17	2,572.09	11,184.9	5,600.81	0.21	-0.19	0.343
15.00	-36.21	-19.44	0.00	-1,781.50	0.00	1,781.50	5,056.74	2,528.37	10,719.9	5,367.95	0.46	-0.29	0.339
20.00	-34.52	-19.10	0.00	-1,684.31	0.00	1,684.31	4,967.26	2,483.63	10,260.2	5,137.73	0.83	-0.40	0.335
25.00	-32.87	-18.76	0.00	-1,588.82	0.00	1,588.82	4,875.75	2,437.87	9,806.10	4,910.34	1.30	-0.50	0.330
30.00	-31.25	-18.43	0.00	-1,495.01	0.00	1,495.01	4,782.19	2,391.09	9,357.93	4,685.92	1.88	-0.61	0.326
35.00	-29.68	-18.09	0.00	-1,402.87	0.00	1,402.87	4,686.58	2,343.29	8,916.06	4,464.66	2.57	-0.72	0.321
40.00	-28.14	-17.74	0.00	-1,312.44	0.00	1,312.44	4,588.94	2,294.47	8,480.81	4,246.71	3.38	-0.83	0.315
45.00	-26.64	-17.49	0.00	-1,223.75	0.00	1,223.75	4,489.25	2,244.63	8,052.51	4,032.24	4.31	-0.94	0.309
46.71	-26.14	-17.32	0.00	-1,193.89	0.00	1,193.89	4,454.76	2,227.38	7,907.97	3,959.86	4.65	-0.98	0.307
50.00	-24.48	-17.08	0.00	-1,136.86	0.00	1,136.86	4,377.60	2,188.80	7,614.23	3,812.78	5.35	-1.05	0.304
52.79	-23.10	-16.88	0.00	-1,089.21	0.00	1,089.21	3,613.14	1,806.57	6,305.68	3,157.53	5.99	-1.12	0.351
55.00	-22.53	-16.63	0.00	-1,051.90	0.00	1,051.90	3,578.23	1,789.12	6,158.78	3,083.97	6.52	-1.17	0.347
60.00	-21.29	-16.26	0.00	-968.76	0.00	968.76	3,497.79	1,748.90	5,830.16	2,919.41	7.82	-1.30	0.338
65.00	-20.07	-15.90	0.00	-887.46	0.00	887.46	3,415.31	1,707.65	5,506.99	2,757.59	9.25	-1.43	0.328
70.00	-18.90	-15.53	0.00	-807.98	0.00	807.98	3,330.78	1,665.39	5,189.62	2,598.67	10.83	-1.57	0.317
75.00	-17.75	-15.17	0.00	-730.33	0.00	730.33	3,243.59	1,621.79	4,877.42	2,442.34	12.54	-1.70	0.305
80.00	-16.64	-14.80	0.00	-654.50	0.00	654.50	3,127.49	1,563.75	4,532.82	2,269.78	14.39	-1.83	0.294
85.00	-15.56	-14.45	0.00	-580.48	0.00	580.48	3,011.40	1,505.70	4,200.83	2,103.54	16.38	-1.96	0.281
90.00	-14.52	-14.09	0.00	-508.25	0.00	508.25	2,895.30	1,447.65	3,881.48	1,943.62	18.51	-2.09	0.267
94.95	-13.53	-13.90	0.00	-438.45	0.00	438.45	2,780.28	1,390.14	3,577.55	1,791.43	20.75	-2.22	0.250
95.00	-13.50	-13.75	0.00	-437.80	0.00	437.80	2,779.20	1,389.60	3,574.75	1,790.03	20.77	-2.22	0.250
99.54	-12.16	-13.54	0.00	-375.42	0.00	375.42	1,702.59	851.29	2,158.67	1,080.94	22.93	-2.33	0.355
100.00	-12.08	-13.37	0.00	-369.15	0.00	369.15	1,698.09	849.05	2,144.41	1,073.80	23.16	-2.35	0.351
105.00	-11.36	-13.05	0.00	-302.28	0.00	302.28	1,648.46	824.23	1,992.11	997.54	25.71	-2.51	0.310
110.00	-10.66	-12.72	0.00	-237.06	0.00	237.06	1,596.78	798.39	1,842.85	922.79	28.42	-2.66	0.264
115.00	-7.53	-8.68	0.00	-173.44	0.00	173.44	1,543.06	771.53	1,696.96	849.74	31.28	-2.79	0.209
120.00	-6.91	-8.48	0.00	-130.04	0.00	130.04	1,487.30	743.65	1,554.78	778.54	34.26	-2.90	0.172
121.00	-6.43	-6.70	0.00	-121.57	0.00	121.57	1,475.91	737.95	1,526.81	764.54	34.87	-2.92	0.163
125.00	-5.99	-6.56	0.00	-94.78	0.00	94.78	1,425.26	712.63	1,412.43	707.26	37.35	-3.00	0.138
125.17	-5.97	-6.45	0.00	-93.68	0.00	93.68	1,422.68	711.34	1,407.29	704.69	37.46	-3.00	0.137
128.83	-5.37	-6.29	0.00	-70.03	0.00	70.03	970.32	485.16	941.18	471.29	39.79	-3.06	0.154
130.00	-3.77	-4.31	0.00	-62.69	0.00	62.69	961.96	480.98	920.87	461.12	40.54	-3.08	0.140
135.00	-3.42	-4.03	0.00	-41.12	0.00	41.12	924.86	462.43	835.07	418.16	43.81	-3.16	0.102
140.00	-3.08	-3.77	0.00	-20.95	0.00	20.95	885.72	442.86	751.58	376.35	47.15	-3.21	0.059
145.00	-2.76	-3.61	0.00	-2.12	0.00	2.12	844.53	422.27	670.72	335.86	50.54	-3.24	0.010
145.50	-0.15	-0.09	0.00	-0.31	0.00	0.31	840.30	420.15	662.79	331.89	50.87	-3.24	0.001
149.00	0.00	-0.08	0.00	0.00	0.00	0.00	809.65	404.83	607.80	304.35	53.25	-3.24	0.000

Site Number: 370641

Code: ANSI/TIA-222-G

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Site Name: Beacon Falls CT, CT

Engineering Number: OAA597776_C3_10

11/3/2016 4:35:43 PM

Customer: Verizon Wireless

Load Case: 0.9D + 1.6W	97 mph with No Ice (Reduced DL)	23 Iterations
Gust Response Factor :1.10		Wind Importance Factor 1.00
Dead Load Factor :0.90		
Wind Load Factor :1.60		

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		214.5	0.0					0.0	0.0	214.5	0.0	0.0	0.0
5.00		424.0	1,167.4					0.0	160.3	424.0	1,327.7	0.0	0.0
10.00		413.8	1,139.5					0.0	160.3	413.8	1,299.8	0.0	0.0
15.00		403.6	1,111.6					0.0	160.3	403.6	1,271.9	0.0	0.0
20.00		393.5	1,083.7					0.0	160.3	393.5	1,244.0	0.0	0.0
25.00		383.3	1,055.8					0.0	160.3	383.3	1,216.1	0.0	0.0
30.00		377.5	1,027.9					0.0	160.3	377.5	1,188.2	0.0	0.0
35.00		379.3	999.9					0.0	160.3	379.3	1,160.2	0.0	0.0
40.00		383.0	972.0					0.0	160.3	383.0	1,132.3	0.0	0.0
45.00		257.9	944.1					0.0	160.3	257.9	1,104.4	0.0	0.0
46.71	Bot - Section 2	194.7	315.9					0.0	54.7	194.7	370.6	0.0	0.0
50.00		238.2	1,124.6					0.0	105.6	238.2	1,230.2	0.0	0.0
52.79	Top - Section 1	195.6	935.2					0.0	89.4	195.6	1,024.6	0.0	0.0
55.00		281.0	340.1					0.0	70.8	281.0	411.0	0.0	0.0
60.00		387.6	752.3					0.0	160.3	387.6	912.6	0.0	0.0
65.00		383.9	728.3					0.0	160.3	383.9	888.6	0.0	0.0
70.00		379.2	704.4					0.0	160.3	379.2	864.7	0.0	0.0
75.00		373.5	680.5					0.0	160.3	373.5	840.8	0.0	0.0
80.00		367.0	656.6					0.0	160.3	367.0	816.8	0.0	0.0
85.00		359.7	632.6					0.0	160.3	359.7	792.9	0.0	0.0
90.00		350.0	608.7					0.0	160.3	350.0	769.0	0.0	0.0
94.95	Bot - Section 3	173.8	579.4					0.0	158.8	173.8	738.2	0.0	0.0
95.00		157.8	9.0					0.0	1.5	157.8	10.5	0.0	0.0
99.54	Top - Section 2	171.9	856.7					0.0	145.4	171.9	1,002.1	0.0	0.0
100.00		182.9	34.7					0.0	14.9	182.9	49.5	0.0	0.0
105.00		329.3	365.5					0.0	160.3	329.3	525.8	0.0	0.0
110.00		319.0	349.6					0.0	160.3	319.0	509.9	0.0	0.0
115.00	Appertunance(s)	308.1	333.6	3,596.9	0.0	0.0	1,986.8	0.0	160.3	3,905.0	2,480.8	0.0	0.0
120.00		180.8	317.7					0.0	148.6	180.8	466.3	0.0	0.0
121.00	Appertunance(s)	145.5	61.6	1,612.7	0.0	0.0	329.7	0.0	29.7	1,758.2	421.0	0.0	0.0
125.00		120.6	240.1					0.0	92.3	120.6	332.4	0.0	0.0
125.17	Bot - Section 4	109.1	9.8					0.0	3.8	109.1	13.6	0.0	0.0
128.83	Top - Section 3	136.8	371.7					0.0	84.6	136.8	456.3	0.0	0.0
130.00	Appertunance(s)	167.9	49.9	1,719.7	0.0	0.0	1,196.1	0.0	26.9	1,887.6	1,272.9	0.0	0.0
135.00		264.4	206.4					0.0	66.3	264.4	272.6	0.0	0.0
140.00		251.3	194.4					0.0	66.3	251.3	260.7	0.0	0.0
145.00		134.2	182.4					0.0	66.3	134.2	248.7	0.0	0.0
145.50	Appertunance(s)	93.0	17.6	3,278.3	0.0	-9,182.3	2,073.3	0.0	6.6	3,371.3	2,097.5	0.0	0.0
149.00		81.1	119.7					0.0	0.0	81.1	119.7	0.0	0.0
Totals:										20,676.0	31,145.0	0.00	0.00

Site Number: 370641

Code: ANSI/TIA-222-G

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Site Name: Beacon Falls CT, CT

Engineering Number: OAA597776_C3_10

11/3/2016 4:35:44 PM

Customer: Verizon Wireless

Load Case: 0.9D + 1.6W

97 mph with No Ice (Reduced DL)

23 Iterations

Gust Response Factor :1.10

Wind Importance Factor 1.00

Dead Load Factor :0.90

Wind Load Factor :1.60

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	-31.13	-20.49	0.00	-2,068.86	0.00	2,068.86	5,312.91	2,656.45	12,129.5	6,073.81	0.00	0.00	0.347
5.00	-29.77	-20.11	0.00	-1,966.43	0.00	1,966.43	5,229.56	2,614.78	11,654.9	5,836.15	0.05	-0.10	0.343
10.00	-28.43	-19.74	0.00	-1,865.87	0.00	1,865.87	5,144.17	2,572.09	11,184.9	5,600.81	0.20	-0.19	0.339
15.00	-27.13	-19.38	0.00	-1,767.15	0.00	1,767.15	5,056.74	2,528.37	10,719.9	5,367.95	0.46	-0.29	0.335
20.00	-25.85	-19.03	0.00	-1,670.23	0.00	1,670.23	4,967.26	2,483.63	10,260.2	5,137.73	0.82	-0.39	0.330
25.00	-24.61	-18.68	0.00	-1,575.10	0.00	1,575.10	4,875.75	2,437.87	9,806.10	4,910.34	1.29	-0.50	0.326
30.00	-23.39	-18.33	0.00	-1,481.70	0.00	1,481.70	4,782.19	2,391.09	9,357.93	4,685.92	1.86	-0.60	0.321
35.00	-22.20	-17.98	0.00	-1,390.02	0.00	1,390.02	4,686.58	2,343.29	8,916.06	4,464.66	2.55	-0.71	0.316
40.00	-21.04	-17.63	0.00	-1,300.10	0.00	1,300.10	4,588.94	2,294.47	8,480.81	4,246.71	3.35	-0.82	0.311
45.00	-19.91	-17.38	0.00	-1,211.97	0.00	1,211.97	4,489.25	2,244.63	8,052.51	4,032.24	4.27	-0.93	0.305
46.71	-19.53	-17.20	0.00	-1,182.31	0.00	1,182.31	4,454.76	2,227.38	7,907.97	3,959.86	4.61	-0.97	0.303
50.00	-18.28	-16.96	0.00	-1,125.68	0.00	1,125.68	4,377.60	2,188.80	7,614.23	3,812.78	5.31	-1.05	0.299
52.79	-17.25	-16.76	0.00	-1,078.36	0.00	1,078.36	3,613.14	1,806.57	6,305.68	3,157.53	5.94	-1.11	0.346
55.00	-16.81	-16.50	0.00	-1,041.32	0.00	1,041.32	3,578.23	1,789.12	6,158.78	3,083.97	6.46	-1.16	0.342
60.00	-15.87	-16.13	0.00	-958.82	0.00	958.82	3,497.79	1,748.90	5,830.16	2,919.41	7.75	-1.29	0.333
65.00	-14.96	-15.76	0.00	-878.18	0.00	878.18	3,415.31	1,707.65	5,506.99	2,757.59	9.17	-1.42	0.323
70.00	-14.07	-15.39	0.00	-799.39	0.00	799.39	3,330.78	1,665.39	5,189.62	2,598.67	10.73	-1.55	0.312
75.00	-13.20	-15.02	0.00	-722.45	0.00	722.45	3,243.59	1,621.79	4,877.42	2,442.34	12.43	-1.68	0.300
80.00	-12.37	-14.66	0.00	-647.34	0.00	647.34	3,127.49	1,563.75	4,532.82	2,269.78	14.26	-1.81	0.289
85.00	-11.55	-14.30	0.00	-574.05	0.00	574.05	3,011.40	1,505.70	4,200.83	2,103.54	16.23	-1.94	0.277
90.00	-10.77	-13.95	0.00	-502.55	0.00	502.55	2,895.30	1,447.65	3,881.48	1,943.62	18.34	-2.07	0.262
94.95	-10.02	-13.76	0.00	-433.47	0.00	433.47	2,780.28	1,390.14	3,577.55	1,791.43	20.56	-2.20	0.246
95.00	-10.00	-13.61	0.00	-432.83	0.00	432.83	2,779.20	1,389.60	3,574.75	1,790.03	20.58	-2.20	0.245
99.54	-8.99	-13.41	0.00	-371.09	0.00	371.09	1,702.59	851.29	2,158.67	1,080.94	22.73	-2.31	0.349
100.00	-8.93	-13.24	0.00	-364.88	0.00	364.88	1,698.09	849.05	2,144.41	1,073.80	22.95	-2.32	0.345
105.00	-8.38	-12.91	0.00	-298.71	0.00	298.71	1,648.46	824.23	1,992.11	997.54	25.47	-2.48	0.305
110.00	-7.86	-12.58	0.00	-234.17	0.00	234.17	1,596.78	798.39	1,842.85	922.79	28.16	-2.63	0.259
115.00	-5.55	-8.58	0.00	-171.25	0.00	171.25	1,543.06	771.53	1,696.96	849.74	30.99	-2.76	0.205
120.00	-5.08	-8.38	0.00	-128.36	0.00	128.36	1,487.30	743.65	1,554.78	778.54	33.94	-2.87	0.168
121.00	-4.74	-6.61	0.00	-119.98	0.00	119.98	1,475.91	737.95	1,526.81	764.54	34.54	-2.89	0.160
125.00	-4.41	-6.47	0.00	-93.55	0.00	93.55	1,425.26	712.63	1,412.43	707.26	37.00	-2.97	0.135
125.17	-4.40	-6.37	0.00	-92.47	0.00	92.47	1,422.68	711.34	1,407.29	704.69	37.11	-2.97	0.134
128.83	-3.95	-6.21	0.00	-69.13	0.00	69.13	970.32	485.16	941.18	471.29	39.41	-3.03	0.151
130.00	-2.77	-4.26	0.00	-61.88	0.00	61.88	961.96	480.98	920.87	461.12	40.16	-3.05	0.137
135.00	-2.51	-3.98	0.00	-40.59	0.00	40.59	924.86	462.43	835.07	418.16	43.39	-3.13	0.100
140.00	-2.26	-3.72	0.00	-20.68	0.00	20.68	885.72	442.86	751.58	376.35	46.70	-3.18	0.058
145.00	-2.02	-3.57	0.00	-2.09	0.00	2.09	844.53	422.27	670.72	335.86	50.05	-3.21	0.009
145.50	-0.12	-0.09	0.00	-0.31	0.00	0.31	840.30	420.15	662.79	331.89	50.38	-3.21	0.001
149.00	0.00	-0.08	0.00	0.00	0.00	0.00	809.65	404.83	607.80	304.35	52.73	-3.21	0.000

Site Number: 370641

Code: ANSI/TIA-222-G

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Site Name: Beacon Falls CT, CT

Engineering Number: OAA597776_C3_10

11/3/2016 4:35:45 PM

Customer: Verizon Wireless

Load Case: 1.2D + 1.0Di + 1.0Wi

50 mph with 0.75 in Radial Ice

22 Iterations

Gust Response Factor :1.10

Ice Dead Load Factor :1.00

Wind Importance Factor :1.00

Dead Load Factor :1.20

Ice Importance 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		68.5	0.0					0.0	0.0	68.5	0.0	0.0	0.0
5.00		135.7	1,962.0					0.0	213.7	135.7	2,175.7	0.0	0.0
10.00		133.1	1,962.3					0.0	213.7	133.1	2,176.0	0.0	0.0
15.00		130.2	1,937.7					0.0	213.7	130.2	2,151.4	0.0	0.0
20.00		127.3	1,904.9					0.0	213.7	127.3	2,118.6	0.0	0.0
25.00		124.3	1,867.8					0.0	213.7	124.3	2,081.5	0.0	0.0
30.00		122.8	1,828.0					0.0	213.7	122.8	2,041.8	0.0	0.0
35.00		123.7	1,786.4					0.0	213.7	123.7	2,000.2	0.0	0.0
40.00		125.2	1,743.5					0.0	213.7	125.2	1,957.2	0.0	0.0
45.00		84.4	1,699.4					0.0	213.7	84.4	1,913.1	0.0	0.0
46.71	Bot - Section 2	63.9	571.2					0.0	73.0	63.9	644.2	0.0	0.0
50.00		78.2	1,790.0					0.0	140.8	78.2	1,930.8	0.0	0.0
52.79	Top - Section 1	64.3	1,490.5					0.0	119.3	64.3	1,609.8	0.0	0.0
55.00		92.5	644.9					0.0	94.5	92.5	739.3	0.0	0.0
60.00		127.9	1,425.9					0.0	213.7	127.9	1,639.6	0.0	0.0
65.00		127.1	1,384.5					0.0	213.7	127.1	1,598.2	0.0	0.0
70.00		125.9	1,342.7					0.0	213.7	125.9	1,556.4	0.0	0.0
75.00		124.4	1,300.4					0.0	213.7	124.4	1,514.1	0.0	0.0
80.00		122.7	1,257.8					0.0	213.7	122.7	1,471.5	0.0	0.0
85.00		120.7	1,214.9					0.0	213.7	120.7	1,428.6	0.0	0.0
90.00		117.9	1,171.7					0.0	213.7	117.9	1,385.4	0.0	0.0
94.95	Bot - Section 3	58.6	1,117.9					0.0	211.7	58.6	1,329.6	0.0	0.0
95.00		53.4	15.3					0.0	2.0	53.4	17.3	0.0	0.0
99.54	Top - Section 2	58.2	1,453.5					0.0	193.9	58.2	1,647.5	0.0	0.0
100.00		62.2	78.0					0.0	19.8	62.2	97.8	0.0	0.0
105.00		112.3	817.3					0.0	213.7	112.3	1,031.0	0.0	0.0
110.00		109.3	783.8					0.0	213.7	109.3	997.5	0.0	0.0
115.00	Appertunance(s)	106.1	750.1	822.1	0.0	0.0	5,123.8	0.0	213.7	928.2	6,087.6	0.0	0.0
120.00		62.5	716.2					0.0	198.1	62.5	914.3	0.0	0.0
121.00	Appertunance(s)	50.6	140.3	313.1	0.0	0.0	1,633.0	0.0	39.6	363.6	1,812.9	0.0	0.0
125.00		42.0	544.1					0.0	123.1	42.0	667.2	0.0	0.0
125.17	Bot - Section 4	38.1	22.4					0.0	5.1	38.1	27.5	0.0	0.0
128.83	Top - Section 3	47.8	696.6					0.0	112.8	47.8	809.5	0.0	0.0
130.00	Appertunance(s)	59.1	129.8	406.7	0.0	0.0	3,061.7	0.0	35.9	465.7	3,227.4	0.0	0.0
135.00		93.5	533.0					0.0	88.4	93.5	621.4	0.0	0.0
140.00		89.7	503.9					0.0	88.4	89.7	592.2	0.0	0.0
145.00		48.1	474.6					0.0	88.4	48.1	562.9	0.0	0.0
145.50	Appertunance(s)	33.6	46.5	767.1	0.0	-1,836.8	5,453.4	0.0	8.8	800.8	5,508.7	0.0	0.0
149.00		29.4	314.1					0.0	0.0	29.4	314.1	0.0	0.0
Totals:										5,804.14	60,399.8	0.00	0.00

Site Number: 370641

Code: ANSI/TIA-222-G

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Site Name: Beacon Falls CT, CT

Engineering Number: OAA597776_C3_10

11/3/2016 4:35:46 PM

Customer: Verizon Wireless

Load Case: 1.2D + 1.0Di + 1.0Wi

50 mph with 0.75 in Radial Ice

22 Iterations

Gust Response Factor :1.10

Ice Dead Load Factor :1.00

Wind Importance 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	-60.40	-5.75	0.00	-567.05	0.00	567.05	5,312.91	2,656.45	12,129.5	6,073.81	0.00	0.00	0.105
5.00	-58.22	-5.64	0.00	-538.30	0.00	538.30	5,229.56	2,614.78	11,654.9	5,836.15	0.01	-0.03	0.103
10.00	-56.04	-5.53	0.00	-510.10	0.00	510.10	5,144.17	2,572.09	11,184.9	5,600.81	0.06	-0.05	0.102
15.00	-53.89	-5.42	0.00	-482.45	0.00	482.45	5,056.74	2,528.37	10,719.9	5,367.95	0.13	-0.08	0.101
20.00	-51.77	-5.32	0.00	-455.33	0.00	455.33	4,967.26	2,483.63	10,260.2	5,137.73	0.22	-0.11	0.099
25.00	-49.68	-5.21	0.00	-428.73	0.00	428.73	4,875.75	2,437.87	9,806.10	4,910.34	0.35	-0.14	0.098
30.00	-47.64	-5.11	0.00	-402.66	0.00	402.66	4,782.19	2,391.09	9,357.93	4,685.92	0.51	-0.16	0.096
35.00	-45.64	-5.00	0.00	-377.11	0.00	377.11	4,686.58	2,343.29	8,916.06	4,464.66	0.70	-0.19	0.094
40.00	-43.68	-4.89	0.00	-352.09	0.00	352.09	4,588.94	2,294.47	8,480.81	4,246.71	0.92	-0.22	0.092
45.00	-41.76	-4.82	0.00	-327.62	0.00	327.62	4,489.25	2,244.63	8,052.51	4,032.24	1.17	-0.25	0.091
46.71	-41.12	-4.76	0.00	-319.40	0.00	319.40	4,454.76	2,227.38	7,907.97	3,959.86	1.26	-0.26	0.090
50.00	-39.19	-4.69	0.00	-303.72	0.00	303.72	4,377.60	2,188.80	7,614.23	3,812.78	1.45	-0.28	0.089
52.79	-37.58	-4.62	0.00	-290.64	0.00	290.64	3,613.14	1,806.57	6,305.68	3,157.53	1.62	-0.30	0.102
55.00	-36.83	-4.54	0.00	-280.42	0.00	280.42	3,578.23	1,789.12	6,158.78	3,083.97	1.76	-0.32	0.101
60.00	-35.19	-4.43	0.00	-257.70	0.00	257.70	3,497.79	1,748.90	5,830.16	2,919.41	2.11	-0.35	0.098
65.00	-33.59	-4.31	0.00	-235.56	0.00	235.56	3,415.31	1,707.65	5,506.99	2,757.59	2.50	-0.39	0.095
70.00	-32.03	-4.19	0.00	-214.01	0.00	214.01	3,330.78	1,665.39	5,189.62	2,598.67	2.92	-0.42	0.092
75.00	-30.52	-4.08	0.00	-193.04	0.00	193.04	3,243.59	1,621.79	4,877.42	2,442.34	3.38	-0.46	0.088
80.00	-29.05	-3.96	0.00	-172.66	0.00	172.66	3,127.49	1,563.75	4,532.82	2,269.78	3.88	-0.49	0.085
85.00	-27.62	-3.84	0.00	-152.86	0.00	152.86	3,011.40	1,505.70	4,200.83	2,103.54	4.41	-0.53	0.082
90.00	-26.23	-3.73	0.00	-133.65	0.00	133.65	2,895.30	1,447.65	3,881.48	1,943.62	4.98	-0.56	0.078
94.95	-24.90	-3.66	0.00	-115.19	0.00	115.19	2,780.28	1,390.14	3,577.55	1,791.43	5.58	-0.59	0.073
95.00	-24.88	-3.62	0.00	-115.02	0.00	115.02	2,779.20	1,389.60	3,574.75	1,790.03	5.58	-0.59	0.073
99.54	-23.23	-3.55	0.00	-98.62	0.00	98.62	1,702.59	851.29	2,158.67	1,080.94	6.16	-0.62	0.105
100.00	-23.14	-3.49	0.00	-96.97	0.00	96.97	1,698.09	849.05	2,144.41	1,073.80	6.22	-0.63	0.104
105.00	-22.10	-3.38	0.00	-79.51	0.00	79.51	1,648.46	824.23	1,992.11	997.54	6.90	-0.67	0.093
110.00	-21.11	-3.28	0.00	-62.59	0.00	62.59	1,596.78	798.39	1,842.85	922.79	7.62	-0.71	0.081
115.00	-15.03	-2.28	0.00	-46.20	0.00	46.20	1,543.06	771.53	1,696.96	849.74	8.39	-0.74	0.064
120.00	-14.12	-2.21	0.00	-34.80	0.00	34.80	1,487.30	743.65	1,554.78	778.54	9.18	-0.77	0.054
121.00	-12.31	-1.82	0.00	-32.59	0.00	32.59	1,475.91	737.95	1,526.81	764.54	9.34	-0.78	0.051
125.00	-11.64	-1.78	0.00	-25.29	0.00	25.29	1,425.26	712.63	1,412.43	707.26	10.01	-0.80	0.044
125.17	-11.61	-1.74	0.00	-25.00	0.00	25.00	1,422.68	711.34	1,407.29	704.69	10.03	-0.80	0.044
128.83	-10.80	-1.68	0.00	-18.62	0.00	18.62	970.32	485.16	941.18	471.29	10.65	-0.82	0.051
130.00	-7.58	-1.17	0.00	-16.66	0.00	16.66	961.96	480.98	920.87	461.12	10.85	-0.82	0.044
135.00	-6.96	-1.07	0.00	-10.80	0.00	10.80	924.86	462.43	835.07	418.16	11.73	-0.84	0.033
140.00	-6.37	-0.97	0.00	-5.45	0.00	5.45	885.72	442.86	751.58	376.35	12.62	-0.86	0.022
145.00	-5.81	-0.92	0.00	-0.58	0.00	0.58	844.53	422.27	670.72	335.86	13.52	-0.86	0.009
145.50	-0.31	-0.03	0.00	-0.12	0.00	0.12	840.30	420.15	662.79	331.89	13.61	-0.86	0.001
149.00	0.00	-0.03	0.00	0.00	0.00	0.00	809.65	404.83	607.80	304.35	14.24	-0.86	0.000

Site Number: 370641

Code: ANSI/TIA-222-G

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Site Name: Beacon Falls CT, CT

Engineering Number: OAA597776_C3_10

11/3/2016 4:35:46 PM

Customer: Verizon Wireless

Load Case: 1.0D + 1.0W

Serviceability 60 mph

22 Iterations

Gust Response Factor :1.10

Wind Importance Factor 1.00

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		51.3	0.0					0.0	0.0	51.3	0.0	0.0	0.0
5.00		101.4	1,297.2					0.0	178.1	101.4	1,475.3	0.0	0.0
10.00		99.0	1,266.1					0.0	178.1	99.0	1,444.2	0.0	0.0
15.00		96.5	1,235.1					0.0	178.1	96.5	1,413.2	0.0	0.0
20.00		94.1	1,204.1					0.0	178.1	94.1	1,382.2	0.0	0.0
25.00		91.7	1,173.1					0.0	178.1	91.7	1,351.2	0.0	0.0
30.00		90.3	1,142.1					0.0	178.1	90.3	1,320.2	0.0	0.0
35.00		90.7	1,111.1					0.0	178.1	90.7	1,289.2	0.0	0.0
40.00		91.6	1,080.0					0.0	178.1	91.6	1,258.1	0.0	0.0
45.00		61.7	1,049.0					0.0	178.1	61.7	1,227.1	0.0	0.0
46.71	Bot - Section 2	46.6	351.0					0.0	60.8	46.6	411.8	0.0	0.0
50.00		57.0	1,249.6					0.0	117.3	57.0	1,366.9	0.0	0.0
52.79	Top - Section 1	46.8	1,039.1					0.0	99.4	46.8	1,138.5	0.0	0.0
55.00		67.2	377.9					0.0	78.7	67.2	456.6	0.0	0.0
60.00		92.7	835.8					0.0	178.1	92.7	1,013.9	0.0	0.0
65.00		91.8	809.3					0.0	178.1	91.8	987.4	0.0	0.0
70.00		90.7	782.7					0.0	178.1	90.7	960.8	0.0	0.0
75.00		89.3	756.1					0.0	178.1	89.3	934.2	0.0	0.0
80.00		87.8	729.5					0.0	178.1	87.8	907.6	0.0	0.0
85.00		86.0	702.9					0.0	178.1	86.0	881.0	0.0	0.0
90.00		83.7	676.3					0.0	178.1	83.7	854.4	0.0	0.0
94.95	Bot - Section 3	41.6	643.8					0.0	176.4	41.6	820.2	0.0	0.0
95.00		37.7	10.0					0.0	1.7	37.7	11.6	0.0	0.0
99.54	Top - Section 2	41.1	951.9					0.0	161.6	41.1	1,113.5	0.0	0.0
100.00		43.7	38.5					0.0	16.5	43.7	55.0	0.0	0.0
105.00		78.8	406.2					0.0	178.1	78.8	584.3	0.0	0.0
110.00		76.3	388.4					0.0	178.1	76.3	566.5	0.0	0.0
115.00	Appertunance(s)	73.7	370.7	860.1	0.0	0.0	2,207.6	0.0	178.1	933.8	2,756.4	0.0	0.0
120.00		43.2	353.0					0.0	165.1	43.2	518.1	0.0	0.0
121.00	Appertunance(s)	34.8	68.5	385.6	0.0	0.0	366.3	0.0	33.0	420.4	467.8	0.0	0.0
125.00		28.9	266.8					0.0	102.6	28.9	369.3	0.0	0.0
125.17	Bot - Section 4	26.1	10.9					0.0	4.3	26.1	15.1	0.0	0.0
128.83	Top - Section 3	32.7	413.0					0.0	94.0	32.7	507.0	0.0	0.0
130.00	Appertunance(s)	40.2	55.4	411.2	0.0	0.0	1,329.0	0.0	29.9	451.4	1,414.3	0.0	0.0
135.00		63.2	229.3					0.0	73.7	63.2	302.9	0.0	0.0
140.00		60.1	216.0					0.0	73.7	60.1	289.6	0.0	0.0
145.00		32.1	202.7					0.0	73.7	32.1	276.3	0.0	0.0
145.50	Appertunance(s)	22.2	19.5	783.9	0.0	-2,195.8	2,303.7	0.0	7.4	806.2	2,330.6	0.0	0.0
149.00		19.4	133.0					0.0	0.0	19.4	133.0	0.0	0.0
Totals:										4,944.32	34,605.6	0.00	0.00

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Customer: Verizon Wireless

Load Case: 1.0D + 1.0W

Serviceability 60 mph

22 Iterations

Gust Response Factor :1.10

Wind Importance Factor 1.00

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	-34.60	-4.90	0.00	-496.03	0.00	496.03	5,312.91	2,656.45	12,129.5	6,073.81	0.00	0.00	0.088
5.00	-33.13	-4.81	0.00	-471.54	0.00	471.54	5,229.56	2,614.78	11,654.9	5,836.15	0.01	-0.02	0.087
10.00	-31.68	-4.72	0.00	-447.48	0.00	447.48	5,144.17	2,572.09	11,184.9	5,600.81	0.05	-0.05	0.086
15.00	-30.27	-4.64	0.00	-423.86	0.00	423.86	5,056.74	2,528.37	10,719.9	5,367.95	0.11	-0.07	0.085
20.00	-28.88	-4.56	0.00	-400.66	0.00	400.66	4,967.26	2,483.63	10,260.2	5,137.73	0.20	-0.09	0.084
25.00	-27.53	-4.47	0.00	-377.89	0.00	377.89	4,875.75	2,437.87	9,806.10	4,910.34	0.31	-0.12	0.083
30.00	-26.21	-4.39	0.00	-355.52	0.00	355.52	4,782.19	2,391.09	9,357.93	4,685.92	0.45	-0.14	0.081
35.00	-24.92	-4.31	0.00	-333.56	0.00	333.56	4,686.58	2,343.29	8,916.06	4,464.66	0.61	-0.17	0.080
40.00	-23.66	-4.22	0.00	-312.02	0.00	312.02	4,588.94	2,294.47	8,480.81	4,246.71	0.80	-0.20	0.079
45.00	-22.43	-4.16	0.00	-290.90	0.00	290.90	4,489.25	2,244.63	8,052.51	4,032.24	1.02	-0.22	0.077
46.71	-22.02	-4.12	0.00	-283.79	0.00	283.79	4,454.76	2,227.38	7,907.97	3,959.86	1.11	-0.23	0.077
50.00	-20.65	-4.07	0.00	-270.22	0.00	270.22	4,377.60	2,188.80	7,614.23	3,812.78	1.27	-0.25	0.076
52.79	-19.51	-4.02	0.00	-258.87	0.00	258.87	3,613.14	1,806.57	6,305.68	3,157.53	1.42	-0.27	0.087
55.00	-19.05	-3.96	0.00	-249.99	0.00	249.99	3,578.23	1,789.12	6,158.78	3,083.97	1.55	-0.28	0.086
60.00	-18.04	-3.87	0.00	-230.21	0.00	230.21	3,497.79	1,748.90	5,830.16	2,919.41	1.86	-0.31	0.084
65.00	-17.05	-3.78	0.00	-210.87	0.00	210.87	3,415.31	1,707.65	5,506.99	2,757.59	2.20	-0.34	0.081
70.00	-16.08	-3.69	0.00	-191.97	0.00	191.97	3,330.78	1,665.39	5,189.62	2,598.67	2.58	-0.37	0.079
75.00	-15.15	-3.60	0.00	-173.51	0.00	173.51	3,243.59	1,621.79	4,877.42	2,442.34	2.98	-0.40	0.076
80.00	-14.24	-3.52	0.00	-155.49	0.00	155.49	3,127.49	1,563.75	4,532.82	2,269.78	3.42	-0.44	0.073
85.00	-13.36	-3.43	0.00	-137.90	0.00	137.90	3,011.40	1,505.70	4,200.83	2,103.54	3.90	-0.47	0.070
90.00	-12.50	-3.35	0.00	-120.74	0.00	120.74	2,895.30	1,447.65	3,881.48	1,943.62	4.40	-0.50	0.066
94.95	-11.68	-3.30	0.00	-104.15	0.00	104.15	2,780.28	1,390.14	3,577.55	1,791.43	4.93	-0.53	0.062
95.00	-11.67	-3.27	0.00	-104.00	0.00	104.00	2,779.20	1,389.60	3,574.75	1,790.03	4.94	-0.53	0.062
99.54	-10.56	-3.22	0.00	-89.17	0.00	89.17	1,702.59	851.29	2,158.67	1,080.94	5.45	-0.55	0.089
100.00	-10.50	-3.18	0.00	-87.68	0.00	87.68	1,698.09	849.05	2,144.41	1,073.80	5.51	-0.56	0.088
105.00	-9.91	-3.10	0.00	-71.79	0.00	71.79	1,648.46	824.23	1,992.11	997.54	6.11	-0.60	0.078
110.00	-9.35	-3.02	0.00	-56.29	0.00	56.29	1,596.78	798.39	1,842.85	922.79	6.76	-0.63	0.067
115.00	-6.60	-2.06	0.00	-41.17	0.00	41.17	1,543.06	771.53	1,696.96	849.74	7.44	-0.66	0.053
120.00	-6.08	-2.01	0.00	-30.87	0.00	30.87	1,487.30	743.65	1,554.78	778.54	8.15	-0.69	0.044
121.00	-5.62	-1.59	0.00	-28.85	0.00	28.85	1,475.91	737.95	1,526.81	764.54	8.29	-0.69	0.042
125.00	-5.25	-1.56	0.00	-22.50	0.00	22.50	1,425.26	712.63	1,412.43	707.26	8.88	-0.71	0.035
125.17	-5.24	-1.53	0.00	-22.24	0.00	22.24	1,422.68	711.34	1,407.29	704.69	8.91	-0.71	0.035
128.83	-4.73	-1.49	0.00	-16.62	0.00	16.62	970.32	485.16	941.18	471.29	9.46	-0.73	0.040
130.00	-3.32	-1.02	0.00	-14.88	0.00	14.88	961.96	480.98	920.87	461.12	9.64	-0.73	0.036
135.00	-3.02	-0.96	0.00	-9.76	0.00	9.76	924.86	462.43	835.07	418.16	10.42	-0.75	0.027
140.00	-2.73	-0.89	0.00	-4.97	0.00	4.97	885.72	442.86	751.58	376.35	11.21	-0.76	0.016
145.00	-2.45	-0.86	0.00	-0.50	0.00	0.50	844.53	422.27	670.72	335.86	12.02	-0.77	0.004
145.50	-0.13	-0.02	0.00	-0.07	0.00	0.07	840.30	420.15	662.79	331.89	12.10	-0.77	0.000
149.00	0.00	-0.02	0.00	0.00	0.00	0.00	809.65	404.83	607.80	304.35	12.66	-0.77	0.000

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Customer: Verizon Wireless

Equivalent Lateral Forces Method Analysis

(Based on ASCE7-10 Chapters 11, 12, 15)

Spectral Response Acceleration for Short Period (S_a):	0.19
Spectral Response Acceleration at 1.0 Second Period (S_{a1}):	0.06
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}):	0.21
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.10
Seismic Response Coefficient (C_s):	0.04
Upper Limit C_s :	0.04
Lower Limit C_s :	0.03
Period based on Rayleigh Method (sec):	1.80
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	1.65
Total Unfactored Dead Load:	34.61 k
Seismic Base Shear (E):	1.70 k

Load Case (1.2 + 0.2S_{ds}) * DL + E ELM

Seismic Equivalent Lateral Forces Method

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
38	147.25	133	507	0.011	18	165
37	145.25	27	100	0.002	4	33
36	142.50	276	998	0.021	36	343
35	137.50	290	986	0.021	36	359
34	132.50	303	970	0.021	35	376
33	129.42	85	263	0.006	9	106
32	127.00	507	1,514	0.032	55	629
31	125.08	15	44	0.001	2	19
30	123.00	369	1,046	0.022	38	458
29	120.50	101	278	0.006	10	126
28	117.50	518	1,360	0.029	49	643
27	112.50	549	1,341	0.028	48	681
26	107.50	567	1,284	0.027	46	703
25	102.50	584	1,224	0.026	44	725
24	99.77	55	110	0.002	4	68
23	97.27	1,113	2,140	0.045	77	1,382
22	94.98	12	21	0.000	1	14
21	92.48	820	1,450	0.031	52	1,018
20	87.50	854	1,379	0.029	50	1,060
19	82.50	881	1,290	0.027	47	1,093
18	77.50	908	1,199	0.025	43	1,126
17	72.50	934	1,105	0.023	40	1,159
16	67.50	961	1,010	0.021	36	1,192

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15	62.50	987	914	0.019	33	1,225
14	57.50	1,014	818	0.017	30	1,258
13	53.90	457	331	0.007	12	567
12	51.40	1,138	763	0.016	28	1,413
11	48.35	1,367	828	0.018	30	1,697
10	45.85	412	229	0.005	8	511
9	42.50	1,227	601	0.013	22	1,523
8	37.50	1,258	501	0.011	18	1,562
7	32.50	1,289	405	0.009	15	1,600
6	27.50	1,320	315	0.007	11	1,639
5	22.50	1,351	231	0.005	8	1,677
4	17.50	1,382	156	0.003	6	1,716
3	12.50	1,413	92	0.002	3	1,754
2	7.50	1,444	40	0.001	1	1,793
1	2.50	1,475	7	0.000	0	1,831
Powerwave Allgon LGP	145.50	32	119	0.003	4	39
Powerwave Allgon LGP	145.50	85	316	0.007	11	105
Raycap DC6-48-60-18-	145.50	32	119	0.003	4	39
Ericsson RRUS 11 (Ba	145.50	300	1,121	0.024	40	372
Allgon 7770.00	145.50	210	785	0.017	28	261
KMW AM-X-CD-16-65-00	145.50	146	544	0.012	20	181
Flat Low Profile Pla	145.50	1,500	5,607	0.119	202	1,862
Ericsson KRY 112 144	130.00	33	102	0.002	4	41
Ericsson AIR 21	130.00	546	1,694	0.036	61	678
Round T-Arm	130.00	750	2,327	0.049	84	931
RFS APX16DWV-16DWVS-	121.00	366	1,010	0.021	36	455
Alcatel-Lucent RRH2X	115.00	86	218	0.005	8	107
Alcatel-Lucent RRH2x	115.00	113	287	0.006	10	141
RFS DB-B1-6C-12AB-0Z	115.00	21	54	0.001	2	27
Alcatel-Lucent B66A	115.00	114	288	0.006	10	141
Andrew HBXX-6517DS-A	115.00	172	436	0.009	16	213
Commscope LNX-6515DS	115.00	201	510	0.011	18	250
Flat Low Profile Pla	115.00	1,500	3,801	0.081	137	1,862
		34,606	47,189	1.000	1,703	42,952

Load Case (0.9 - 0.2Sds) * DL + E ELFM

Seismic (Reduced DL) Equivalent Lateral Forces Method

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
38	147.25	133	507	0.011	18	114
37	145.25	27	100	0.002	4	23
36	142.50	276	998	0.021	36	237
35	137.50	290	986	0.021	36	249
34	132.50	303	970	0.021	35	260
33	129.42	85	263	0.006	9	73
32	127.00	507	1,514	0.032	55	435
31	125.08	15	44	0.001	2	13
30	123.00	369	1,046	0.022	38	317
29	120.50	101	278	0.006	10	87
28	117.50	518	1,360	0.029	49	445
27	112.50	549	1,341	0.028	48	471
26	107.50	567	1,284	0.027	46	487
25	102.50	584	1,224	0.026	44	502
24	99.77	55	110	0.002	4	47
23	97.27	1,113	2,140	0.045	77	956
22	94.98	12	21	0.000	1	10
21	92.48	820	1,450	0.031	52	704
20	87.50	854	1,379	0.029	50	734
19	82.50	881	1,290	0.027	47	757
18	77.50	908	1,199	0.025	43	779

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17	72.50	934	1,105	0.023	40	802
16	67.50	961	1,010	0.021	36	825
15	62.50	987	914	0.019	33	848
14	57.50	1,014	818	0.017	30	871
13	53.90	457	331	0.007	12	392
12	51.40	1,138	763	0.016	28	978
11	48.35	1,367	828	0.018	30	1,174
10	45.85	412	229	0.005	8	354
9	42.50	1,227	601	0.013	22	1,054
8	37.50	1,258	501	0.011	18	1,081
7	32.50	1,289	405	0.009	15	1,107
6	27.50	1,320	315	0.007	11	1,134
5	22.50	1,351	231	0.005	8	1,160
4	17.50	1,382	156	0.003	6	1,187
3	12.50	1,413	92	0.002	3	1,214
2	7.50	1,444	40	0.001	1	1,240
1	2.50	1,475	7	0.000	0	1,267
Powerwave Allgon LGP	145.50	32	119	0.003	4	27
Powerwave Allgon LGP	145.50	85	316	0.007	11	73
Raycap DC6-48-60-18-	145.50	32	119	0.003	4	27
Ericsson RRUS 11 (Ba	145.50	300	1,121	0.024	40	258
Allgon 7770.00	145.50	210	785	0.017	28	180
KMW AM-X-CD-16-65-00	145.50	146	544	0.012	20	125
Flat Low Profile Pla	145.50	1,500	5,607	0.119	202	1,288
Ericsson KRY 112 144	130.00	33	102	0.002	4	28
Ericsson AIR 21	130.00	546	1,694	0.036	61	469
Round T-Arm	130.00	750	2,327	0.049	84	644
RFS APX16DWV-16DWVS-	121.00	366	1,010	0.021	36	315
Alcatel-Lucent RRH2X	115.00	86	218	0.005	8	74
Alcatel-Lucent RRH2x	115.00	113	287	0.006	10	97
RFS DB-B1-6C-12AB-0Z	115.00	21	54	0.001	2	18
Alcatel-Lucent B66A	115.00	114	288	0.006	10	98
Andrew HBXX-6517DS-A	115.00	172	436	0.009	16	148
Commscope LNX-6515DS	115.00	201	510	0.011	18	173
Flat Low Profile Pla	115.00	1,500	3,801	0.081	137	1,288
		34,606	47,189	1.000	1,703	29,720

Site Number: 370641

Code: ANSI/TIA-222-G

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Site Name: Beacon Falls CT, CT

Engineering Number: OAA597776_C3_10

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Customer: Verizon Wireless

Load Case (1.2 + 0.2Sds) * DL + E ELFM

Seismic Equivalent Lateral Forces Method

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	-41.12	-1.70	0.00	-187.60	0.00	187.60	5,312.91	2,656.45	12,129.5	6,073.81	0.00	0.00	0.039
5.00	-39.33	-1.71	0.00	-179.07	0.00	179.07	5,229.56	2,614.78	11,654.9	5,836.15	0.00	-0.01	0.038
10.00	-37.57	-1.71	0.00	-170.53	0.00	170.53	5,144.17	2,572.09	11,184.9	5,600.81	0.02	-0.02	0.038
15.00	-35.86	-1.71	0.00	-161.97	0.00	161.97	5,056.74	2,528.37	10,719.9	5,367.95	0.04	-0.03	0.037
20.00	-34.18	-1.71	0.00	-153.41	0.00	153.41	4,967.26	2,483.63	10,260.2	5,137.73	0.07	-0.04	0.037
25.00	-32.54	-1.70	0.00	-144.88	0.00	144.88	4,875.75	2,437.87	9,806.10	4,910.34	0.12	-0.05	0.036
30.00	-30.94	-1.69	0.00	-136.38	0.00	136.38	4,782.19	2,391.09	9,357.93	4,685.92	0.17	-0.06	0.036
35.00	-29.38	-1.67	0.00	-127.93	0.00	127.93	4,686.58	2,343.29	8,916.06	4,464.66	0.23	-0.06	0.035
40.00	-27.86	-1.66	0.00	-119.55	0.00	119.55	4,588.94	2,294.47	8,480.81	4,246.71	0.31	-0.08	0.034
45.00	-27.34	-1.65	0.00	-111.27	0.00	111.27	4,489.25	2,244.63	8,052.51	4,032.24	0.39	-0.09	0.034
46.71	-25.65	-1.62	0.00	-108.45	0.00	108.45	4,454.76	2,227.38	7,907.97	3,959.86	0.42	-0.09	0.033
50.00	-24.23	-1.59	0.00	-103.12	0.00	103.12	4,377.60	2,188.80	7,614.23	3,812.78	0.49	-0.10	0.033
52.79	-23.67	-1.58	0.00	-98.67	0.00	98.67	3,613.14	1,806.57	6,305.68	3,157.53	0.54	-0.10	0.038
55.00	-22.41	-1.55	0.00	-95.17	0.00	95.17	3,578.23	1,789.12	6,158.78	3,083.97	0.59	-0.11	0.037
60.00	-21.18	-1.52	0.00	-87.40	0.00	87.40	3,497.79	1,748.90	5,830.16	2,919.41	0.71	-0.12	0.036
65.00	-19.99	-1.49	0.00	-79.79	0.00	79.79	3,415.31	1,707.65	5,506.99	2,757.59	0.84	-0.13	0.035
70.00	-18.83	-1.45	0.00	-72.34	0.00	72.34	3,330.78	1,665.39	5,189.62	2,598.67	0.98	-0.14	0.033
75.00	-17.70	-1.41	0.00	-65.10	0.00	65.10	3,243.59	1,621.79	4,877.42	2,442.34	1.14	-0.15	0.032
80.00	-16.61	-1.36	0.00	-58.06	0.00	58.06	3,127.49	1,563.75	4,532.82	2,269.78	1.31	-0.17	0.031
85.00	-15.55	-1.31	0.00	-51.25	0.00	51.25	3,011.40	1,505.70	4,200.83	2,103.54	1.49	-0.18	0.030
90.00	-14.53	-1.26	0.00	-44.70	0.00	44.70	2,895.30	1,447.65	3,881.48	1,943.62	1.68	-0.19	0.028
94.95	-14.52	-1.26	0.00	-38.46	0.00	38.46	2,780.28	1,390.14	3,577.55	1,791.43	1.88	-0.20	0.027
95.00	-13.14	-1.18	0.00	-38.41	0.00	38.41	2,779.20	1,389.60	3,574.75	1,790.03	1.88	-0.20	0.026
99.54	-13.07	-1.18	0.00	-33.06	0.00	33.06	1,702.59	851.29	2,158.67	1,080.94	2.08	-0.21	0.038
100.00	-12.34	-1.13	0.00	-32.52	0.00	32.52	1,698.09	849.05	2,144.41	1,073.80	2.10	-0.21	0.038
105.00	-11.64	-1.08	0.00	-26.87	0.00	26.87	1,648.46	824.23	1,992.11	997.54	2.33	-0.23	0.034
110.00	-10.96	-1.04	0.00	-21.45	0.00	21.45	1,596.78	798.39	1,842.85	922.79	2.57	-0.24	0.030
115.00	-7.58	-0.77	0.00	-16.27	0.00	16.27	1,543.06	771.53	1,696.96	849.74	2.83	-0.25	0.024
120.00	-7.45	-0.76	0.00	-12.41	0.00	12.41	1,487.30	743.65	1,554.78	778.54	3.10	-0.26	0.021
121.00	-6.54	-0.68	0.00	-11.65	0.00	11.65	1,475.91	737.95	1,526.81	764.54	3.15	-0.26	0.020
125.00	-6.52	-0.68	0.00	-8.91	0.00	8.91	1,425.26	712.63	1,412.43	707.26	3.37	-0.27	0.017
125.17	-5.89	-0.63	0.00	-8.80	0.00	8.80	1,422.68	711.34	1,407.29	704.69	3.38	-0.27	0.017
128.83	-5.78	-0.62	0.00	-6.51	0.00	6.51	970.32	485.16	941.18	471.29	3.59	-0.28	0.020
130.00	-3.76	-0.42	0.00	-5.79	0.00	5.79	961.96	480.98	920.87	461.12	3.66	-0.28	0.016
135.00	-3.40	-0.39	0.00	-3.68	0.00	3.68	924.86	462.43	835.07	418.16	3.96	-0.29	0.012
140.00	-3.06	-0.35	0.00	-1.75	0.00	1.75	885.72	442.86	751.58	376.35	4.26	-0.29	0.008
145.00	-0.17	-0.02	0.00	-0.01	0.00	0.01	844.53	422.27	670.72	335.86	4.57	-0.29	0.000
145.50	0.00	0.00	0.00	0.00	0.00	0.00	840.30	420.15	662.79	331.89	4.60	-0.29	0.000
149.00	0.00	0.00	0.00	0.00	0.00	0.00	809.65	404.83	607.80	304.35	4.81	-0.29	0.000

Site Number: 370641

Code: ANSI/TIA-222-G

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Site Name: Beacon Falls CT, CT

Engineering Number: OAA597776_C3_10

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Customer: Verizon Wireless

Load Case (0.9 - 0.2Sds) * DL + E ELFM

Seismic (Reduced DL) Equivalent Lateral Forces Method

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	-28.45	-1.70	0.00	-186.01	0.00	186.01	5,312.91	2,656.45	12,129.5	6,073.81	0.00	0.00	0.036
5.00	-27.21	-1.71	0.00	-177.49	0.00	177.49	5,229.56	2,614.78	11,654.9	5,836.15	0.00	-0.01	0.036
10.00	-26.00	-1.71	0.00	-168.96	0.00	168.96	5,144.17	2,572.09	11,184.9	5,600.81	0.02	-0.02	0.035
15.00	-24.81	-1.70	0.00	-160.42	0.00	160.42	5,056.74	2,528.37	10,719.9	5,367.95	0.04	-0.03	0.035
20.00	-23.65	-1.70	0.00	-151.90	0.00	151.90	4,967.26	2,483.63	10,260.2	5,137.73	0.07	-0.04	0.034
25.00	-22.52	-1.69	0.00	-143.40	0.00	143.40	4,875.75	2,437.87	9,806.10	4,910.34	0.12	-0.04	0.034
30.00	-21.41	-1.68	0.00	-134.94	0.00	134.94	4,782.19	2,391.09	9,357.93	4,685.92	0.17	-0.05	0.033
35.00	-20.33	-1.66	0.00	-126.55	0.00	126.55	4,686.58	2,343.29	8,916.06	4,464.66	0.23	-0.06	0.033
40.00	-19.27	-1.64	0.00	-118.23	0.00	118.23	4,588.94	2,294.47	8,480.81	4,246.71	0.30	-0.07	0.032
45.00	-18.92	-1.64	0.00	-110.01	0.00	110.01	4,489.25	2,244.63	8,052.51	4,032.24	0.39	-0.08	0.031
46.71	-17.75	-1.61	0.00	-107.21	0.00	107.21	4,454.76	2,227.38	7,907.97	3,959.86	0.42	-0.09	0.031
50.00	-16.77	-1.58	0.00	-101.92	0.00	101.92	4,377.60	2,188.80	7,614.23	3,812.78	0.48	-0.09	0.031
52.79	-16.38	-1.57	0.00	-97.51	0.00	97.51	3,613.14	1,806.57	6,305.68	3,157.53	0.54	-0.10	0.035
55.00	-15.51	-1.54	0.00	-94.04	0.00	94.04	3,578.23	1,789.12	6,158.78	3,083.97	0.59	-0.11	0.035
60.00	-14.66	-1.51	0.00	-86.34	0.00	86.34	3,497.79	1,748.90	5,830.16	2,919.41	0.70	-0.12	0.034
65.00	-13.83	-1.47	0.00	-78.80	0.00	78.80	3,415.31	1,707.65	5,506.99	2,757.59	0.83	-0.13	0.033
70.00	-13.03	-1.43	0.00	-71.43	0.00	71.43	3,330.78	1,665.39	5,189.62	2,598.67	0.97	-0.14	0.031
75.00	-12.25	-1.39	0.00	-64.26	0.00	64.26	3,243.59	1,621.79	4,877.42	2,442.34	1.13	-0.15	0.030
80.00	-11.49	-1.35	0.00	-57.30	0.00	57.30	3,127.49	1,563.75	4,532.82	2,269.78	1.29	-0.16	0.029
85.00	-10.76	-1.30	0.00	-50.57	0.00	50.57	3,011.40	1,505.70	4,200.83	2,103.54	1.47	-0.18	0.028
90.00	-10.05	-1.24	0.00	-44.09	0.00	44.09	2,895.30	1,447.65	3,881.48	1,943.62	1.66	-0.19	0.026
94.95	-10.04	-1.24	0.00	-37.94	0.00	37.94	2,780.28	1,390.14	3,577.55	1,791.43	1.86	-0.20	0.025
95.00	-9.09	-1.16	0.00	-37.88	0.00	37.88	2,779.20	1,389.60	3,574.75	1,790.03	1.86	-0.20	0.024
99.54	-9.04	-1.16	0.00	-32.60	0.00	32.60	1,702.59	851.29	2,158.67	1,080.94	2.05	-0.21	0.035
100.00	-8.54	-1.12	0.00	-32.06	0.00	32.06	1,698.09	849.05	2,144.41	1,073.80	2.07	-0.21	0.035
105.00	-8.05	-1.07	0.00	-26.49	0.00	26.49	1,648.46	824.23	1,992.11	997.54	2.30	-0.22	0.031
110.00	-7.58	-1.02	0.00	-21.14	0.00	21.14	1,596.78	798.39	1,842.85	922.79	2.54	-0.24	0.028
115.00	-5.24	-0.76	0.00	-16.04	0.00	16.04	1,543.06	771.53	1,696.96	849.74	2.80	-0.25	0.022
120.00	-5.15	-0.75	0.00	-12.24	0.00	12.24	1,487.30	743.65	1,554.78	778.54	3.06	-0.26	0.019
121.00	-4.52	-0.67	0.00	-11.49	0.00	11.49	1,475.91	737.95	1,526.81	764.54	3.12	-0.26	0.018
125.00	-4.51	-0.67	0.00	-8.79	0.00	8.79	1,425.26	712.63	1,412.43	707.26	3.34	-0.27	0.016
125.17	-4.07	-0.62	0.00	-8.68	0.00	8.68	1,422.68	711.34	1,407.29	704.69	3.35	-0.27	0.015
128.83	-4.00	-0.61	0.00	-6.42	0.00	6.42	970.32	485.16	941.18	471.29	3.55	-0.27	0.018
130.00	-2.60	-0.42	0.00	-5.71	0.00	5.71	961.96	480.98	920.87	461.12	3.62	-0.28	0.015
135.00	-2.35	-0.38	0.00	-3.63	0.00	3.63	924.86	462.43	835.07	418.16	3.91	-0.28	0.011
140.00	-2.11	-0.34	0.00	-1.72	0.00	1.72	885.72	442.86	751.58	376.35	4.21	-0.29	0.007
145.00	-0.11	-0.02	0.00	-0.01	0.00	0.01	844.53	422.27	670.72	335.86	4.51	-0.29	0.000
145.50	0.00	0.00	0.00	0.00	0.00	0.00	840.30	420.15	662.79	331.89	4.54	-0.29	0.000
149.00	0.00	0.00	0.00	0.00	0.00	0.00	809.65	404.83	607.80	304.35	4.75	-0.29	0.000

Site Number: 370641

Code: ANSI/TIA-222-G

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Site Name: Beacon Falls CT, CT

Engineering Number: OAA597776_C3_10

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Customer: Verizon Wireless

Equivalent Modal Forces Analysis

(Based on ASCE7-10 Chapters 11, 12 & 15 and ANSI/TIA-G, section 2.7)

Spectral Response Acceleration for Short Period (S_s):	0.19
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.06
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}):	0.21
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.10
Period Based on Rayleigh Method (sec):	1.80
Redundancy Factor (p):	1.30

Load Case (1.2 + 0.2S_{ds}) * DL + E EMAM

Seismic Equivalent Modal Analysis Method

Segment	Height Above Base (ft)	Weight (lb)	a	b	c	S _{az}	Horizontal Force (lb)	Vertical Force (lb)
38	147.25	133	1.846	1.755	1.058	0.366	42	165
37	145.25	27	1.796	1.521	0.970	0.333	8	33
36	142.50	276	1.729	1.234	0.859	0.291	70	343
35	137.50	290	1.610	0.808	0.683	0.220	55	359
34	132.50	303	1.495	0.488	0.536	0.158	42	376
33	129.42	85	1.426	0.335	0.459	0.125	9	106
32	127.00	507	1.373	0.235	0.405	0.101	44	629
31	125.08	15	1.332	0.167	0.365	0.083	1	19
30	123.00	369	1.288	0.104	0.326	0.066	21	458
29	120.50	101	1.236	0.041	0.283	0.047	4	126
28	117.50	518	1.175	-0.017	0.237	0.027	12	643
27	112.50	549	1.077	-0.082	0.173	0.000	0	681
26	107.50	567	0.984	-0.114	0.123	-0.018	-9	703
25	102.50	584	0.894	-0.122	0.085	-0.028	-14	725
24	99.77	55	0.847	-0.119	0.068	-0.029	-1	68
23	97.27	1,113	0.805	-0.113	0.055	-0.029	-28	1,382
22	94.98	12	0.768	-0.105	0.045	-0.028	0	14
21	92.48	820	0.728	-0.095	0.036	-0.024	-17	1,018
20	87.50	854	0.652	-0.071	0.021	-0.014	-11	1,060
19	82.50	881	0.579	-0.045	0.012	-0.001	-1	1,093
18	77.50	908	0.511	-0.020	0.008	0.013	10	1,126
17	72.50	934	0.447	0.002	0.006	0.026	21	1,159
16	67.50	961	0.388	0.022	0.007	0.037	31	1,192
15	62.50	987	0.333	0.037	0.010	0.044	38	1,225
14	57.50	1,014	0.281	0.049	0.014	0.049	43	1,258
13	53.90	457	0.247	0.056	0.017	0.050	20	567
12	51.40	1,138	0.225	0.059	0.020	0.051	50	1,413
11	48.35	1,367	0.199	0.063	0.023	0.051	60	1,697
10	45.85	412	0.179	0.065	0.026	0.051	18	511
9	42.50	1,227	0.154	0.068	0.030	0.050	53	1,523
8	37.50	1,258	0.120	0.070	0.034	0.049	53	1,562
7	32.50	1,289	0.090	0.071	0.038	0.048	53	1,600
6	27.50	1,320	0.064	0.072	0.041	0.046	53	1,639
5	22.50	1,351	0.043	0.071	0.042	0.044	52	1,677

Site Number: 370641

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Site Name: Beacon Falls CT, CT

Engineering Number: OAA597776_C3_10

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Customer: Verizon Wireless

4	17.50	1,382	0.026	0.067	0.040	0.042	50	1,716
3	12.50	1,413	0.013	0.059	0.034	0.037	45	1,754
2	7.50	1,444	0.005	0.044	0.025	0.029	36	1,793
1	2.50	1,475	0.001	0.018	0.010	0.013	16	1,831
Powerwave Allgon LGP	145.50	32	1.802	1.549	0.981	0.338	9	39
Powerwave Allgon LGP	145.50	85	1.802	1.549	0.981	0.338	25	105
Raycap DC6-48-60-18-	145.50	32	1.802	1.549	0.981	0.338	9	39
Ericsson RRUS 11 (Ba	145.50	300	1.802	1.549	0.981	0.338	88	372
Allgon 7770.00	145.50	210	1.802	1.549	0.981	0.338	61	261
KMW AM-X-CD-16-65-00	145.50	146	1.802	1.549	0.981	0.338	43	181
Flat Low Profile Pla	145.50	1,500	1.802	1.549	0.981	0.338	439	1,862
Ericsson KRY 112 144	130.00	33	1.439	0.361	0.473	0.131	4	41
Ericsson AIR 21	130.00	546	1.439	0.361	0.473	0.131	62	678
Round T-Arm	130.00	750	1.439	0.361	0.473	0.131	85	931
RFS APX16DWV-	121.00	366	1.246	0.053	0.291	0.050	16	455
Alcatel-Lucent RRH2X	115.00	86	1.126	-0.054	0.203	0.012	1	107
Alcatel-Lucent RRH2x	115.00	113	1.126	-0.054	0.203	0.012	1	141
RFS DB-B1-6C-12AB-0Z	115.00	21	1.126	-0.054	0.203	0.012	0	27
Alcatel-Lucent B66A	115.00	114	1.126	-0.054	0.203	0.012	1	141
Andrew HBXX-6517DS-A	115.00	172	1.126	-0.054	0.203	0.012	2	213
Commscope LNX-	115.00	201	1.126	-0.054	0.203	0.012	2	250
Flat Low Profile Pla	115.00	1,500	1.126	-0.054	0.203	0.012	16	1,862
		34,606	53.026	18.277	17.226	5.265	1,794	42,952

Load Case (0.9 - 0.2Sds) * DL + E EMAM

Seismic (Reduced DL) Equivalent Modal Analysis Method

Segment	Height Above Base (ft)	Weight (lb)	a	b	c	Saz	Horizontal Force (lb)	Vertical Force (lb)
38	147.25	133	1.846	1.755	1.058	0.366	42	114
37	145.25	27	1.796	1.521	0.970	0.333	8	23
36	142.50	276	1.729	1.234	0.859	0.291	70	237
35	137.50	290	1.610	0.808	0.683	0.220	55	249
34	132.50	303	1.495	0.488	0.536	0.158	42	260
33	129.42	85	1.426	0.335	0.459	0.125	9	73
32	127.00	507	1.373	0.235	0.405	0.101	44	435
31	125.08	15	1.332	0.167	0.365	0.083	1	13
30	123.00	369	1.288	0.104	0.326	0.066	21	317
29	120.50	101	1.236	0.041	0.283	0.047	4	87
28	117.50	518	1.175	-0.017	0.237	0.027	12	445
27	112.50	549	1.077	-0.082	0.173	0.000	0	471
26	107.50	567	0.984	-0.114	0.123	-0.018	-9	487
25	102.50	584	0.894	-0.122	0.085	-0.028	-14	502
24	99.77	55	0.847	-0.119	0.068	-0.029	-1	47
23	97.27	1,113	0.805	-0.113	0.055	-0.029	-28	956
22	94.98	12	0.768	-0.105	0.045	-0.028	0	10
21	92.48	820	0.728	-0.095	0.036	-0.024	-17	704
20	87.50	854	0.652	-0.071	0.021	-0.014	-11	734
19	82.50	881	0.579	-0.045	0.012	-0.001	-1	757
18	77.50	908	0.511	-0.020	0.008	0.013	10	779
17	72.50	934	0.447	0.002	0.006	0.026	21	802
16	67.50	961	0.388	0.022	0.007	0.037	31	825
15	62.50	987	0.333	0.037	0.010	0.044	38	848
14	57.50	1,014	0.281	0.049	0.014	0.049	43	871
13	53.90	457	0.247	0.056	0.017	0.050	20	392
12	51.40	1,138	0.225	0.059	0.020	0.051	50	978
11	48.35	1,367	0.199	0.063	0.023	0.051	60	1,174
10	45.85	412	0.179	0.065	0.026	0.051	18	354
9	42.50	1,227	0.154	0.068	0.030	0.050	53	1,054
8	37.50	1,258	0.120	0.070	0.034	0.049	53	1,081

Site Number: 370641

Code: ANSI/TIA-222-G

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Site Name: Beacon Falls CT, CT

Engineering Number: OAA597776_C3_10

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Customer: Verizon Wireless

7	32.50	1,289	0.090	0.071	0.038	0.048	53	1,107
6	27.50	1,320	0.064	0.072	0.041	0.046	53	1,134
5	22.50	1,351	0.043	0.071	0.042	0.044	52	1,160
4	17.50	1,382	0.026	0.067	0.040	0.042	50	1,187
3	12.50	1,413	0.013	0.059	0.034	0.037	45	1,214
2	7.50	1,444	0.005	0.044	0.025	0.029	36	1,240
1	2.50	1,475	0.001	0.018	0.010	0.013	16	1,267
Powerwave Allgon LGP	145.50	32	1.802	1.549	0.981	0.338	9	27
Powerwave Allgon LGP	145.50	85	1.802	1.549	0.981	0.338	25	73
Raycap DC6-48-60-18-	145.50	32	1.802	1.549	0.981	0.338	9	27
Ericsson RRUS 11 (Ba	145.50	300	1.802	1.549	0.981	0.338	88	258
Allgon 7770.00	145.50	210	1.802	1.549	0.981	0.338	61	180
KMW AM-X-CD-16-65-00	145.50	146	1.802	1.549	0.981	0.338	43	125
Flat Low Profile Pla	145.50	1,500	1.802	1.549	0.981	0.338	439	1,288
Ericsson KRY 112 144	130.00	33	1.439	0.361	0.473	0.131	4	28
Ericsson AIR 21	130.00	546	1.439	0.361	0.473	0.131	62	469
Round T-Arm	130.00	750	1.439	0.361	0.473	0.131	85	644
RFS APX16DWV-	121.00	366	1.246	0.053	0.291	0.050	16	315
Alcatel-Lucent RRH2X	115.00	86	1.126	-0.054	0.203	0.012	1	74
Alcatel-Lucent RRH2x	115.00	113	1.126	-0.054	0.203	0.012	1	97
RFS DB-B1-6C-12AB-0Z	115.00	21	1.126	-0.054	0.203	0.012	0	18
Alcatel-Lucent B66A	115.00	114	1.126	-0.054	0.203	0.012	1	98
Andrew HBXX-6517DS-A	115.00	172	1.126	-0.054	0.203	0.012	2	148
Commscope LNX-	115.00	201	1.126	-0.054	0.203	0.012	2	173
Flat Low Profile Pla	115.00	1,500	1.126	-0.054	0.203	0.012	16	1,288
		34,606	53.026	18.277	17.226	5.265	1,794	29,720

Site Number: 370641

Code: ANSI/TIA-222-G

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Site Name: Beacon Falls CT, CT

Engineering Number: OAA597776_C3_10

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Customer: Verizon Wireless

Load Case (1.2 + 0.2Sds) * DL + E EMAM

Seismic Equivalent Modal Analysis Method

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	-41.12	-1.78	0.00	-186.08	0.00	186.08	5,312.91	2,656.45	12,129.5	6,073.81	0.00	0.00	0.038
5.00	-39.33	-1.75	0.00	-177.18	0.00	177.18	5,229.56	2,614.78	11,654.9	5,836.15	0.00	-0.01	0.038
10.00	-37.57	-1.71	0.00	-168.43	0.00	168.43	5,144.17	2,572.09	11,184.9	5,600.81	0.02	-0.02	0.037
15.00	-35.86	-1.66	0.00	-159.88	0.00	159.88	5,056.74	2,528.37	10,719.9	5,367.95	0.04	-0.03	0.037
20.00	-34.18	-1.62	0.00	-151.56	0.00	151.56	4,967.26	2,483.63	10,260.2	5,137.73	0.07	-0.04	0.036
25.00	-32.54	-1.57	0.00	-143.47	0.00	143.47	4,875.75	2,437.87	9,806.10	4,910.34	0.12	-0.04	0.036
30.00	-30.94	-1.52	0.00	-135.63	0.00	135.63	4,782.19	2,391.09	9,357.93	4,685.92	0.17	-0.05	0.035
35.00	-29.38	-1.47	0.00	-128.03	0.00	128.03	4,686.58	2,343.29	8,916.06	4,464.66	0.23	-0.06	0.035
40.00	-27.86	-1.42	0.00	-120.68	0.00	120.68	4,588.94	2,294.47	8,480.81	4,246.71	0.30	-0.07	0.034
45.00	-27.34	-1.40	0.00	-113.58	0.00	113.58	4,489.25	2,244.63	8,052.51	4,032.24	0.39	-0.08	0.034
46.71	-25.65	-1.34	0.00	-111.19	0.00	111.19	4,454.76	2,227.38	7,907.97	3,959.86	0.42	-0.09	0.034
50.00	-24.24	-1.29	0.00	-106.76	0.00	106.76	4,377.60	2,188.80	7,614.23	3,812.78	0.48	-0.10	0.034
52.79	-23.67	-1.28	0.00	-103.15	0.00	103.15	3,613.14	1,806.57	6,305.68	3,157.53	0.54	-0.10	0.039
55.00	-22.41	-1.23	0.00	-100.33	0.00	100.33	3,578.23	1,789.12	6,158.78	3,083.97	0.59	-0.11	0.039
60.00	-21.18	-1.20	0.00	-94.16	0.00	94.16	3,497.79	1,748.90	5,830.16	2,919.41	0.71	-0.12	0.038
65.00	-19.99	-1.17	0.00	-88.17	0.00	88.17	3,415.31	1,707.65	5,506.99	2,757.59	0.84	-0.13	0.038
70.00	-18.83	-1.15	0.00	-82.32	0.00	82.32	3,330.78	1,665.39	5,189.62	2,598.67	0.98	-0.15	0.037
75.00	-17.70	-1.14	0.00	-76.57	0.00	76.57	3,243.59	1,621.79	4,877.42	2,442.34	1.14	-0.16	0.037
80.00	-16.61	-1.14	0.00	-70.86	0.00	70.86	3,127.49	1,563.75	4,532.82	2,269.78	1.32	-0.17	0.037
85.00	-15.55	-1.15	0.00	-65.15	0.00	65.15	3,011.40	1,505.70	4,200.83	2,103.54	1.51	-0.19	0.036
90.00	-14.53	-1.17	0.00	-59.38	0.00	59.38	2,895.30	1,447.65	3,881.48	1,943.62	1.71	-0.20	0.036
94.95	-14.52	-1.17	0.00	-53.57	0.00	53.57	2,780.28	1,390.14	3,577.55	1,791.43	1.93	-0.22	0.035
95.00	-13.14	-1.20	0.00	-53.52	0.00	53.52	2,779.20	1,389.60	3,574.75	1,790.03	1.93	-0.22	0.035
99.54	-13.07	-1.20	0.00	-48.08	0.00	48.08	1,702.59	851.29	2,158.67	1,080.94	2.15	-0.23	0.052
100.00	-12.34	-1.22	0.00	-47.52	0.00	47.52	1,698.09	849.05	2,144.41	1,073.80	2.17	-0.23	0.052
105.00	-11.64	-1.23	0.00	-41.44	0.00	41.44	1,648.46	824.23	1,992.11	997.54	2.43	-0.26	0.049
110.00	-10.96	-1.23	0.00	-35.32	0.00	35.32	1,596.78	798.39	1,842.85	922.79	2.71	-0.28	0.045
115.00	-7.57	-1.18	0.00	-29.18	0.00	29.18	1,543.06	771.53	1,696.96	849.74	3.01	-0.30	0.039
120.00	-7.45	-1.17	0.00	-23.30	0.00	23.30	1,487.30	743.65	1,554.78	778.54	3.33	-0.32	0.035
121.00	-6.53	-1.13	0.00	-22.13	0.00	22.13	1,475.91	737.95	1,526.81	764.54	3.40	-0.32	0.033
125.00	-6.51	-1.13	0.00	-17.60	0.00	17.60	1,425.26	712.63	1,412.43	707.26	3.67	-0.33	0.029
125.17	-5.89	-1.08	0.00	-17.41	0.00	17.41	1,422.68	711.34	1,407.29	704.69	3.68	-0.34	0.029
128.83	-5.78	-1.08	0.00	-13.43	0.00	13.43	970.32	485.16	941.18	471.29	3.95	-0.35	0.034
130.00	-3.75	-0.87	0.00	-12.18	0.00	12.18	961.96	480.98	920.87	461.12	4.03	-0.35	0.030
135.00	-3.40	-0.82	0.00	-7.82	0.00	7.82	924.86	462.43	835.07	418.16	4.41	-0.37	0.022
140.00	-3.05	-0.74	0.00	-3.74	0.00	3.74	885.72	442.86	751.58	376.35	4.79	-0.38	0.013
145.00	-0.16	-0.04	0.00	-0.02	0.00	0.02	844.53	422.27	670.72	335.86	5.19	-0.38	0.000
145.50	0.00	0.00	0.00	0.00	0.00	0.00	840.30	420.15	662.79	331.89	5.23	-0.38	0.000
149.00	0.00	0.00	0.00	0.00	0.00	0.00	809.65	404.83	607.80	304.35	5.51	-0.38	0.000

Site Number: 370641

Code: ANSI/TIA-222-G

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Site Name: Beacon Falls CT, CT

Engineering Number: OAA597776_C3_10

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Customer: Verizon Wireless

Load Case (0.9 - 0.2Sds) * DL + E EMAM

Seismic (Reduced DL) Equivalent Modal Analysis Method

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	-28.45	-1.78	0.00	-184.37	0.00	184.37	5,312.91	2,656.45	12,129.5	6,073.81	0.00	0.00	0.036
5.00	-27.21	-1.75	0.00	-175.48	0.00	175.48	5,229.56	2,614.78	11,654.9	5,836.15	0.00	-0.01	0.035
10.00	-26.00	-1.71	0.00	-166.75	0.00	166.75	5,144.17	2,572.09	11,184.9	5,600.81	0.02	-0.02	0.035
15.00	-24.81	-1.66	0.00	-158.22	0.00	158.22	5,056.74	2,528.37	10,719.9	5,367.95	0.04	-0.03	0.034
20.00	-23.65	-1.61	0.00	-149.93	0.00	149.93	4,967.26	2,483.63	10,260.2	5,137.73	0.07	-0.04	0.034
25.00	-22.52	-1.56	0.00	-141.88	0.00	141.88	4,875.75	2,437.87	9,806.10	4,910.34	0.11	-0.04	0.034
30.00	-21.41	-1.51	0.00	-134.08	0.00	134.08	4,782.19	2,391.09	9,357.93	4,685.92	0.17	-0.05	0.033
35.00	-20.33	-1.46	0.00	-126.53	0.00	126.53	4,686.58	2,343.29	8,916.06	4,464.66	0.23	-0.06	0.033
40.00	-19.27	-1.41	0.00	-119.24	0.00	119.24	4,588.94	2,294.47	8,480.81	4,246.71	0.30	-0.07	0.032
45.00	-18.92	-1.39	0.00	-112.20	0.00	112.20	4,489.25	2,244.63	8,052.51	4,032.24	0.38	-0.08	0.032
46.71	-17.75	-1.33	0.00	-109.83	0.00	109.83	4,454.76	2,227.38	7,907.97	3,959.86	0.41	-0.09	0.032
50.00	-16.77	-1.28	0.00	-105.44	0.00	105.44	4,377.60	2,188.80	7,614.23	3,812.78	0.48	-0.09	0.031
52.79	-16.38	-1.26	0.00	-101.87	0.00	101.87	3,613.14	1,806.57	6,305.68	3,157.53	0.53	-0.10	0.037
55.00	-15.51	-1.22	0.00	-99.08	0.00	99.08	3,578.23	1,789.12	6,158.78	3,083.97	0.58	-0.11	0.036
60.00	-14.66	-1.18	0.00	-92.98	0.00	92.98	3,497.79	1,748.90	5,830.16	2,919.41	0.70	-0.12	0.036
65.00	-13.83	-1.15	0.00	-87.06	0.00	87.06	3,415.31	1,707.65	5,506.99	2,757.59	0.83	-0.13	0.036
70.00	-13.03	-1.13	0.00	-81.29	0.00	81.29	3,330.78	1,665.39	5,189.62	2,598.67	0.97	-0.14	0.035
75.00	-12.25	-1.13	0.00	-75.61	0.00	75.61	3,243.59	1,621.79	4,877.42	2,442.34	1.13	-0.16	0.035
80.00	-11.49	-1.13	0.00	-69.99	0.00	69.99	3,127.49	1,563.75	4,532.82	2,269.78	1.30	-0.17	0.035
85.00	-10.76	-1.14	0.00	-64.36	0.00	64.36	3,011.40	1,505.70	4,200.83	2,103.54	1.49	-0.19	0.034
90.00	-10.05	-1.16	0.00	-58.67	0.00	58.67	2,895.30	1,447.65	3,881.48	1,943.62	1.69	-0.20	0.034
94.95	-10.04	-1.16	0.00	-52.95	0.00	52.95	2,780.28	1,390.14	3,577.55	1,791.43	1.91	-0.22	0.033
95.00	-9.09	-1.18	0.00	-52.89	0.00	52.89	2,779.20	1,389.60	3,574.75	1,790.03	1.91	-0.22	0.033
99.54	-9.04	-1.18	0.00	-47.53	0.00	47.53	1,702.59	851.29	2,158.67	1,080.94	2.12	-0.23	0.049
100.00	-8.54	-1.20	0.00	-46.98	0.00	46.98	1,698.09	849.05	2,144.41	1,073.80	2.15	-0.23	0.049
105.00	-8.05	-1.21	0.00	-40.99	0.00	40.99	1,648.46	824.23	1,992.11	997.54	2.40	-0.25	0.046
110.00	-7.58	-1.21	0.00	-34.95	0.00	34.95	1,596.78	798.39	1,842.85	922.79	2.68	-0.27	0.043
115.00	-5.24	-1.16	0.00	-28.90	0.00	28.90	1,543.06	771.53	1,696.96	849.74	2.97	-0.29	0.037
120.00	-5.15	-1.16	0.00	-23.08	0.00	23.08	1,487.30	743.65	1,554.78	778.54	3.29	-0.31	0.033
121.00	-4.52	-1.12	0.00	-21.92	0.00	21.92	1,475.91	737.95	1,526.81	764.54	3.36	-0.32	0.032
125.00	-4.51	-1.12	0.00	-17.44	0.00	17.44	1,425.26	712.63	1,412.43	707.26	3.63	-0.33	0.028
125.17	-4.07	-1.07	0.00	-17.25	0.00	17.25	1,422.68	711.34	1,407.29	704.69	3.64	-0.33	0.027
128.83	-4.00	-1.06	0.00	-13.32	0.00	13.32	970.32	485.16	941.18	471.29	3.90	-0.34	0.032
130.00	-2.60	-0.86	0.00	-12.07	0.00	12.07	961.96	480.98	920.87	461.12	3.98	-0.35	0.029
135.00	-2.35	-0.81	0.00	-7.75	0.00	7.75	924.86	462.43	835.07	418.16	4.36	-0.36	0.021
140.00	-2.11	-0.74	0.00	-3.71	0.00	3.71	885.72	442.86	751.58	376.35	4.74	-0.37	0.012
145.00	-0.11	-0.04	0.00	-0.02	0.00	0.02	844.53	422.27	670.72	335.86	5.13	-0.38	0.000
145.50	0.00	0.00	0.00	0.00	0.00	0.00	840.30	420.15	662.79	331.89	5.17	-0.38	0.000
149.00	0.00	0.00	0.00	0.00	0.00	0.00	809.65	404.83	607.80	304.35	5.45	-0.38	0.000

Site Number: 370641

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Site Name: Beacon Falls CT, CT

Engineering Number: OAA597776_C3_10

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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 + 1.6W	20.50	0.00	41.51	0.00	0.00	2083.60	99.54	0.35
0.9D + 1.6W	20.49	0.00	31.13	0.00	0.00	2068.86	99.54	0.35
1.2D + 1.0Di + 1.0Wi	5.75	0.00	60.40	0.00	0.00	567.05	99.54	0.10
(1.2 + 0.2Sds) * DL + E ELFM	1.70	0.00	41.12	0.00	0.00	187.60	0.00	0.04
(1.2 + 0.2Sds) * DL + E EMAM	1.78	0.00	41.12	0.00	0.00	186.08	99.54	0.05
(0.9 - 0.2Sds) * DL + E ELFM	1.70	0.00	28.45	0.00	0.00	186.01	0.00	0.04
(0.9 - 0.2Sds) * DL + E EMAM	1.78	0.00	28.45	0.00	0.00	184.37	99.54	0.05
1.0D + 1.0W	4.90	0.00	34.60	0.00	0.00	496.03	99.54	0.09

Site Number: 370641

Code: ANSI/TIA-222-G

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Site Name: Beacon Falls CT, CT

Engineering Number: OAA597776_C3_10

11/3/2016 4:35:48 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)	
3,762.30	38.90	34.90	2,083.60	60.40	20.50	41.02

Base Plate

Yield (ksi)	Thick (in)	Width (in)	Style	Poly Sides	Clip Len (in)	Effective Len (in)	Mu (kip-in)	Phi Mn (kip-in)	Ratio
60.0	2.500	71.000	Round	0	0.00	8.887	249.69	749.83	0.33

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
65.00	20	2.25" 18J	2.25	75.00	100.00	Radial	0.00	0.0	79.95	260.00	0.32	73.91	260.00	0.29

ATTACHMENT 5

Site Name: Beacon Falls 2 Tower Height: 150'		General		Power		Density					
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	CALC. POWER DENS	FREQ.	MAX. PERMISS. EXP.	FRACTION MPE	Total			
*AT&T	2	565	145.5	0.0209	880	0.5867	0.36%				
*AT&T	2	875	145.5	0.0323	1900	1.0000	0.32%				
*AT&T	1	283	145.5	0.0052	880	0.5867	0.09%				
*AT&T	4	525	145.5	0.0388	1900	1.0000	0.39%				
*AT&T	1	1313	145.5	0.0243	734	0.4893	0.50%				
*Town of Beacon Falls to be determined											
*Pocket (now MetroPCS)	3	631	125	0.0481	2130	1.0000	0.48%				
*T-Mobile	8	190	135	0.0328	1935	1.0000	0.33%				
*T-Mobile	2	760	135	0.0328	2100	1.0000	0.33%				
Verizon	7	426	115	0.0811	1970	1.0000	8.11%				
Verizon	9	447	115	0.1094	869	0.5793	18.88%				
Verizon	1	2812	115	0.0765	2145	1.0000	7.65%				
Verizon	1	1645	115	0.0447	746	0.4973	8.99%				
								46.4%			
* Source: Siting Council											

ATTACHMENT 6

January 5, 2017

Via Certificate of Mailing

Christopher Bielik, First Selectman
Town of Beacon Falls
10 Maple Avenue
Beacon Falls, CT 06403

Re: Proposed Shared Use of an Existing Telecommunications Facility at 401 Lopus Road, Beacon Falls, Connecticut

Dear First Selectman Bielik:

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 for shared use of an existing telecommunications facility at 401 Lopus Road in Beacon Falls (the “Property”). Cellco intends to install eight (8) antennas and six (6) remote radio heads on a low-profile platform at a height of 115 feet AGL. Equipment cabinets associated with Cellco’s antennas and a back-up generator will be located on a 16’ x 12’ concrete pad near the base of the tower. A 1,000 gallon propane tank will be installed within the compound.

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-14-533). 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.

Robinson + Cole

Christopher Bielik

January 5, 2017

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 7

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

January 5, 2017

Via Certificate of Mailing

«Name_and_Address»

Re: Proposed Shared Use of an Existing Telecommunications Facility at 401 Lopus Road, Beacon Falls, 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 for shared use of an existing telecommunications facility at 401 Lopus Road in Beacon Falls (the “Property”). Cellco intends to install eight (8) antennas and six (6) remote radio heads on a low-profile platform at a height of 115 feet AGL. Equipment cabinets associated with Cellco’s antennas and a back-up generator will be located on a 16’ x 12’ concrete pad near the base of the tower. A 1,000 gallon propane tank will be installed within the compound.

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-14-533). A copy of the full Sub-Petition is attached for your review.

January 5, 2017
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.

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". The signature is fluid and cursive, with a long horizontal stroke at the end.

Kenneth C. Baldwin

Attachment

CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

ABUTTERS LIST

**401 LOPUS ROAD
BEACON FALLS, CONNECTICUT**

	<u>Property Address</u>	<u>Owner and Mailing Address</u>
1.	Lopus Road	Town of Beacon Falls 10 Maple Avenue Beacon Falls, CT 06403
2.	392 Lopus Road	Elizabeth C. DeGeorge 392 Lopus Road Beacon Falls, CT 06403
3.	450 Lopus Road	Robert Posick 139 Weset Road Beacon Falls, CT 06403
4.	411 Lopus Road	Town of Beacon Falls 10 Maple Avenue Beacon Falls, CT 06403
5.	Breault Road	Seymour Beacon Falls LLC 30C Progress Drive Seymour, CT 06483

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- 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


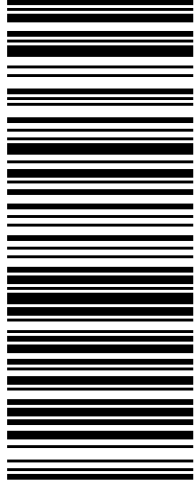

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 NORTH EASTON ,MA 02356

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 450 E CENTER ST
 WEST BRIDGEWATER ,MA 02379

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<p style="text-align: right;">1 OF 1</p> <p style="text-align: center;">1 LBS</p> <p>SHIP TO: BEACON FALLS TOWN HALL GERARD SMITH, FIRST SELECTMAN 10 MAPLE AVE BEACON FALLS CT 06403-1114</p>	<p style="font-size: 2em;">CT 067 9-04</p> 	<p style="font-size: 1.5em;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 1984 7270</p> 	<p style="text-align: center;">BILLING: P/P</p> <p>Reference # 1: 370641 Reference # 2: Beacon Falls CT <small>CS22.0.18 W/NTNV50 32.0A 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

1Z9Y45030319847270

Weight

1.00 LBS

Service

UPS Ground

Shipped / Billed On

08/13/2021

Delivered On

08/19/2021 1:44 P.M.

Delivered To

BEACON FALLS, CT, US

Received By

JUNE

Left At

Receiver

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 12:46 P.M. EST

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 Your driver will pickup your shipment(s) as usual.

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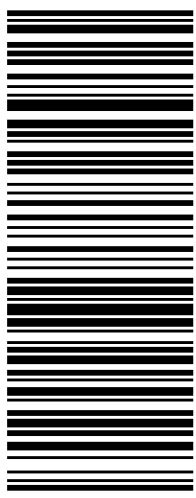

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<p>1 LBS</p> <p>1 OF 1</p> <p>TIM WHALEN 5088449030 CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER MA 02379</p> <p>SHIP TO: MIKE MORMILE ZONING ENFORCEMENT OFFICER BEACON FALLS TOWN HALL 10 MAPLE AVE BEACON FALLS CT 06403-1114</p>	<p>CT 067 9-04</p> 	<p>UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 0930 4286</p> 	<p>BILLING: P/P</p> <p>Reference # 1: 370641 Reference # 2: Beacon Falls CT</p> <p style="font-size: small;">W/NTNV50 32.OA 08/2021*</p> 
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Proof of Delivery

Dear Customer,

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

Tracking Number

1Z9Y45030309304286

Weight

1.00 LBS

Service

UPS Ground

Shipped / Billed On

08/13/2021

Delivered On

08/19/2021 1:44 P.M.

Delivered To

BEACON FALLS, CT, US

Received By

JUNE

Left At

Receiver

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Sincerely,

UPS

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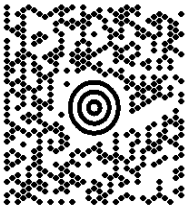
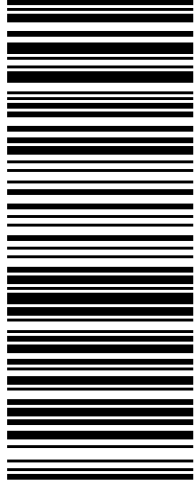

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<p style="text-align: right;">1 OF 1</p> <p style="text-align: center;">1 LBS</p> <p>MIJUMAIL 9785687906 CENTERLINE COMMUNICATIONS 750 W. CENTER ST. WEST BRIDGEWATER MA 02379</p> <p>SHIP TO: GIP 401-411 LOPUS ROAD BEACON FALLS CT 06403-1009</p>	<p style="font-size: 2em;">CT 067 9-04</p>  	<p style="font-size: 1.5em;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 1016 3293</p> 	<p style="text-align: center;">BILLING: P/P</p> <p style="text-align: center;">  </p> <p>Reference # 1: 370641 Reference # 2: Beacon Falls CT <small>CS220618 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

1Z9Y45030310163293

Weight

1.00 LBS

Service

UPS Ground

Shipped / Billed On

08/13/2021

Delivered On

08/19/2021 11:56 A.M.

Delivered To

BEACON FALLS, CT, US

Received By

JAIME

Left At

Receiver

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Sincerely,

UPS

Tracking results provided by UPS: 10/25/2021 12:47 P.M. EST

Centerline Communications LLC

028221

CONNECTICUT SITING COUNCIL

Check: 28221
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>
531459-004		625.00	625.00	0.00	0.00	625.00
ATC - Verizon-13668730						
		<u>625.00</u>	<u>625.00</u>	<u>0.00</u>	<u>0.00</u>	<u>625.00</u>

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

028221

28221

DATE

AMOUNT

8/11/2021


*****625.00

THE SUM OF SIX HUNDRED TWENTY FIVE DOLLARS AND NO CENTS *****

PAY
TO THE
ORDER
OF

CONNECTICUT SITING COUNCIL

ID ER AYS

VO NET 99/D

AUTHORIZED SIGNATURE

Security Features:    

028221

11

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 11, 2021

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

**RE: Notice of Exempt Modification // Site: BEACON FALLS II CT (ATC: 370641)
401-411 Lopus Road, Beacon Falls, CT 06403
N 41.4328 // W 73.0702**

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless currently maintains 4 antennas at the 115-ft level on the existing 149 foot monopole tower, located at 401-411 Lopus Road, Beacon Falls, CT. The tower is owned by American Tower. The property is owned by GTP No Pay Vendor. The tower was originally approved by the Council in 2017. Verizon Wireless now intends to add 23 new antennas for the LTE (3700 MHz) replacements for its 5G upgrade. Additionally, Verizon Wireless will add 2 Remote Radio Head (RRHs); 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 Gerard Smith, First Selectman, its Zoning Enforcement Officer, Mike Mormile, American Tower, the tower owner, and the property owner, GTP.

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 30, 2021 by Dewberry Engineers, Inc., a structural analysis dated April 29, 2021 by A.T. Engineering Service, PLLC., and a structural mount analysis by Maser Consulting Connecticut date June 24, 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 A.T. Engineering Service, PLLC, dated April 29, 2021, and a structural mount analysis by Maser Consulting Connecticut, dated June 24, 2021, pursuant to certain conditions defined therein. Design and engineering is fully illustrated within final construction drawings, signed and stamped dated June 30, 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: Gerard Smith, First Selectman – Chief Elected Official
Mike Mormile, Zoning Enforcement Officer – P&Z Official
American Tower Corporation - as tower owner
GTP – as ground owner

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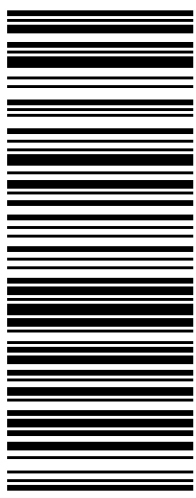

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<p style="text-align: right;">1 OF 1</p> <p style="text-align: center;">1 LBS</p> <p>SHIP TO: BEACON FALLS TOWN HALL GERARD SMITH, FIRST SELECTMAN 10 MAPLE AVE BEACON FALLS CT 06403-1114</p>	<p style="font-size: 2em;">CT 067 9-04</p> 	<p style="font-size: 1.5em;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 1984 7270</p> 	<p style="text-align: center;">BILLING: P/P</p> <p>Reference # 1: 370641 Reference # 2: Beacon Falls CT <small>CS220618 WNTNV50 32.OA 08/2021*</small></p> 
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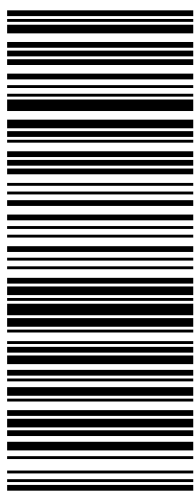

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<p>1 LBS</p> <p>1 OF 1</p> <p>TIM WHALEN 5088449030 CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER MA 02379</p> <p>SHIP TO: MIKE MORMILE ZONING ENFORCEMENT OFFICER BEACON FALLS TOWN HALL 10 MAPLE AVE BEACON FALLS CT 06403-1114</p>	<p>CT 067 9-04</p> 	<p>UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 0930 4286</p> 	<p>BILLING: P/P</p> <p>Reference # 1: 370641 Reference # 2: Beacon Falls CT <small>CS22.0.18 W/NTNV50 32.0A 08/2021*</small></p> 
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<p style="text-align: right;">1 OF 1</p> <p style="text-align: right;">5 LBS</p> <p>SHIP TO: MJ UMALT 9785687906 CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER MA 02379</p> <p>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="text-align: center; font-size: 0.8em;">CS 22.0.18. WNTNV50 32.0A 08/2021*</p> 
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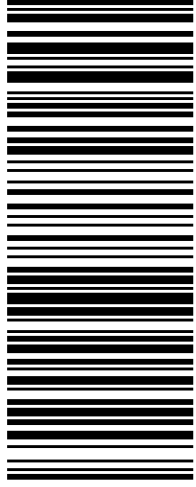

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<p style="text-align: right;">1 OF 1</p> <p style="text-align: center;">1 LBS</p> <p>MIJUMAIL 9785687906 CENTERLINE COMMUNICATIONS 750 W. CENTER ST. WEST BRIDGEWATER MA 02379</p> <p>SHIP TO: GIP 401-411 LOPUS ROAD BEACON FALLS CT 06403-1009</p>	<p style="font-size: 2em;">CT 067 9-04</p> 	<p style="font-size: 1.5em;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 1016 3293</p> 	<p style="text-align: center;">BILLING: P/P</p> <p>Reference # 1: 370641 Reference # 2: Beacon Falls CT <small>CS220618 WNTNV50 32.OA 08/2021*</small></p> 
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AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 149 ft Monopole
ATC Site Name : Beacon Falls CT, CT
ATC Asset Number : 370641
Engineering Number : 13668730_C3_01
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : BEACON FALLS II CT
Carrier Site Number : 470974
Site Location : 401-411 Lopus Road
Beacon Falls, CT 06403-0000
41.432800,-73.070200
County : New Haven
Date : April 29, 2021
Max Usage : 39%
Result : Pass



Prepared By:
Pedro Morales Mendoza
Engineer Intern

Reviewed By:

COA: PEC.0001553



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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 149 ft monopole to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower Drawings	EEI Job #13674, dated October 19, 2005
Foundation Drawing	EEI Job #13674, dated October 19, 2005
Geotechnical Report	Tectonic Project #3917.BEACON, dated August 17, 2005

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:	118 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
145.0	6	Powerwave Allgon LGP21401	Low Profile Platform	(1) 3" conduit (1) 0.39" (10mm) Fiber Trunk (2) 0.78" (19.7mm) 8 AWG 6 (12) 1 5/8" Coax (1) 2" conduit	AT&T MOBILITY
	6	Powerwave Allgon 7020.00 Dual Band RET			
	6	Powerwave Allgon LGP13519			
	3	Ericsson RRUS 32 B2			
	6	Allgon 7770.00			
	3	CCI HPA-65R-BUU-H6			
	1	Raycap DC6-48-60-18-8F ("Squid")			
	3	Ericsson RRUS 11 (Band 12)			
135.0	3	RFS APXVAARR24_43-U-NA20	T-Arm	(4) 1 5/8" (1.63"-41.3mm) Fiber (6) 1 5/8" Coax	T-MOBILE
	3	Ericsson AIR 21, 1.3M, B2A B4P (91.5 lbs)			
	3	Ericsson AIR 21 B4A B2P			
	3	Ericsson KRY 112 144/1			
	3	Ericsson Radio 4449 B12,B71			
127.0	3	Generic 34" x 6" Panel	Flush	(6) 1 5/8" Coax	METRO PCS INC
115.0	2	Samsung B5/B13 RRH-BR04C	Low Profile Platform	(2) 1 5/8" Hybriflex	VERIZON WIRELESS
	2	Samsung B2/B66A RRH-BR049			
	1	RFS DB-B1-6C-12AB-0Z			
	4	JMA Wireless MX06FRO660-02			

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
115.0	2	Samsung B5/B13 RRH-BR04C	Low Profile Platform	-	VERIZON WIRELESS
	2	Samsung MT6407-77A			

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



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	30%	Pass
Shaft	33%	Pass
Base Plate	17%	Pass

Foundations

Reaction Component	Original Design Reactions	Factored Design Reactions*	Analysis Reactions	% of Design
Moment (Kips-Ft)	3,762.3	5,079.1	1,852.5	36%
Shear (Kips)	34.9	47.1	18.5	39%

* The design reactions are factored by 1.35 per ANSI/TIA-222-H, Sec. 15.6.2

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) (°)
115.0	Samsung B5/B13 RRH-BR04C	VERIZON WIRELESS	0.535	0.583
	Samsung MT6407-77A			

*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:

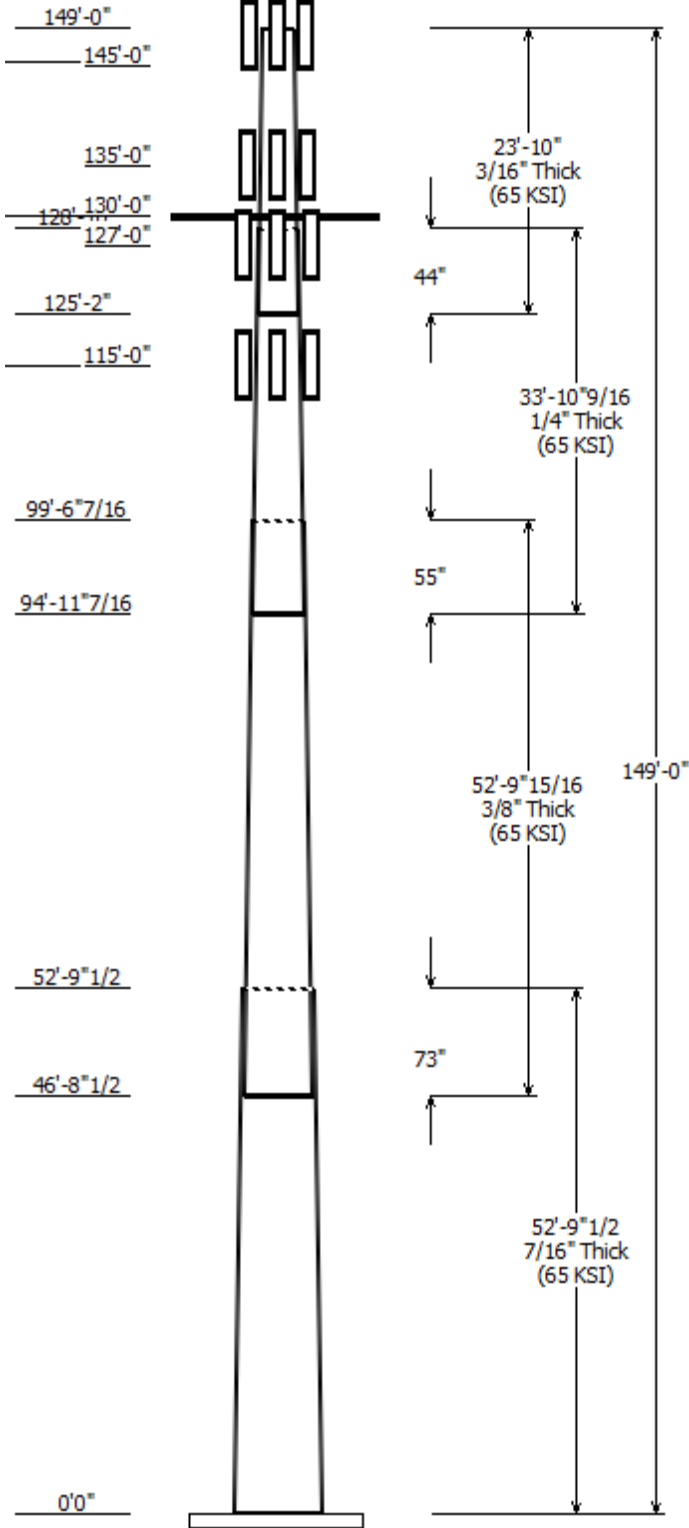
- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

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 : 370641	
Location : Beacon Falls CT, CT	
Description : 149 ft EEI Monopole	Risk Category : II
Shape : 18 Sides	Exposure : B
Height : 149.00 (ft)	Topo Method : Method 1
Base Elev (ft): 0.00	Topographic Category : 1
Taper: 0.262584(in/ft)	

Sections Properties							
Shaft Section	Length (ft)	Diameter (in)		Thick (in)	Joint Type	Overlap Length (in)	Steel Grade
		Across Flats Top	Across Flats Bottom				
1	52.790	42.13	56.00	0.438		0.000	18 Sides 65
2	52.830	30.61	44.48	0.375	Slip Joint	73.000	18 Sides 65
3	33.880	23.42	32.31	0.250	Slip Joint	55.000	18 Sides 65
4	23.833	18.50	24.75	0.188	Slip Joint	44.000	18 Sides 65

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
145.500	145.500	1	Generic Flat Low Profile Platf
145.000	147.000	3	CCI HPA-65R-BUU-H6
145.000	147.000	6	Allgon 7770.00
145.000	147.000	3	Ericsson RRUS 11 (Band 12)
145.000	147.000	1	Raycap DC6-48-60-18-8F
145.000	147.000	6	Powerwave Allgon LGP21401
145.000	145.000	3	Ericsson RRUS 32 B2
145.000	145.000	6	Powerwave Allgon 7020.00
145.000	147.000	6	Powerwave Allgon LGP13519
135.000	135.000	3	RFS APXVAARR24_43-U-NA20
135.000	135.000	3	Ericsson AIR 21, 1.3M, B2A B4P
135.000	135.000	3	Ericsson AIR 21 B4A B2P
135.000	135.000	3	Ericsson Radio 4449 B12,B71
135.000	137.000	3	Ericsson KRY 112 144/1
130.000	130.000	3	Round T-Arm
127.000	127.000	3	Generic 34" x 6" Panel
115.000	115.000	1	Generic Round Low Profile
115.000	115.000	4	JMA Wireless MX06FRO660-02
115.000	115.000	2	Samsung MT6407-77A
115.000	117.000	1	RFS DB-B1-6C-12AB-0Z
115.000	115.000	2	Samsung B2/B66A RRH-BR049
115.000	115.000	2	Samsung B5/B13 RRH-BR04C
115.000	115.000	2	Samsung B5/B13 RRH-BR04C

Linear Appurtenance			
Elev (ft)		Description	Exposed To Wind
From	To		
0.000	115.0	1 5/8" Hybriflex	No
0.000	127.0	1 5/8" Coax	No
0.000	135.0	1 5/8" (1.63"-	No
0.000	135.0	1 5/8" Coax	No
0.000	145.0	0.39" (10mm)	No
0.000	145.0	0.78" (19.7mm) 8	No
0.000	145.0	1 5/8" Coax	No
0.000	145.0	2" conduit	No
0.000	147.0	3" conduit	No

Load Cases	
1.2D + 1.0W	118 mph with No Ice

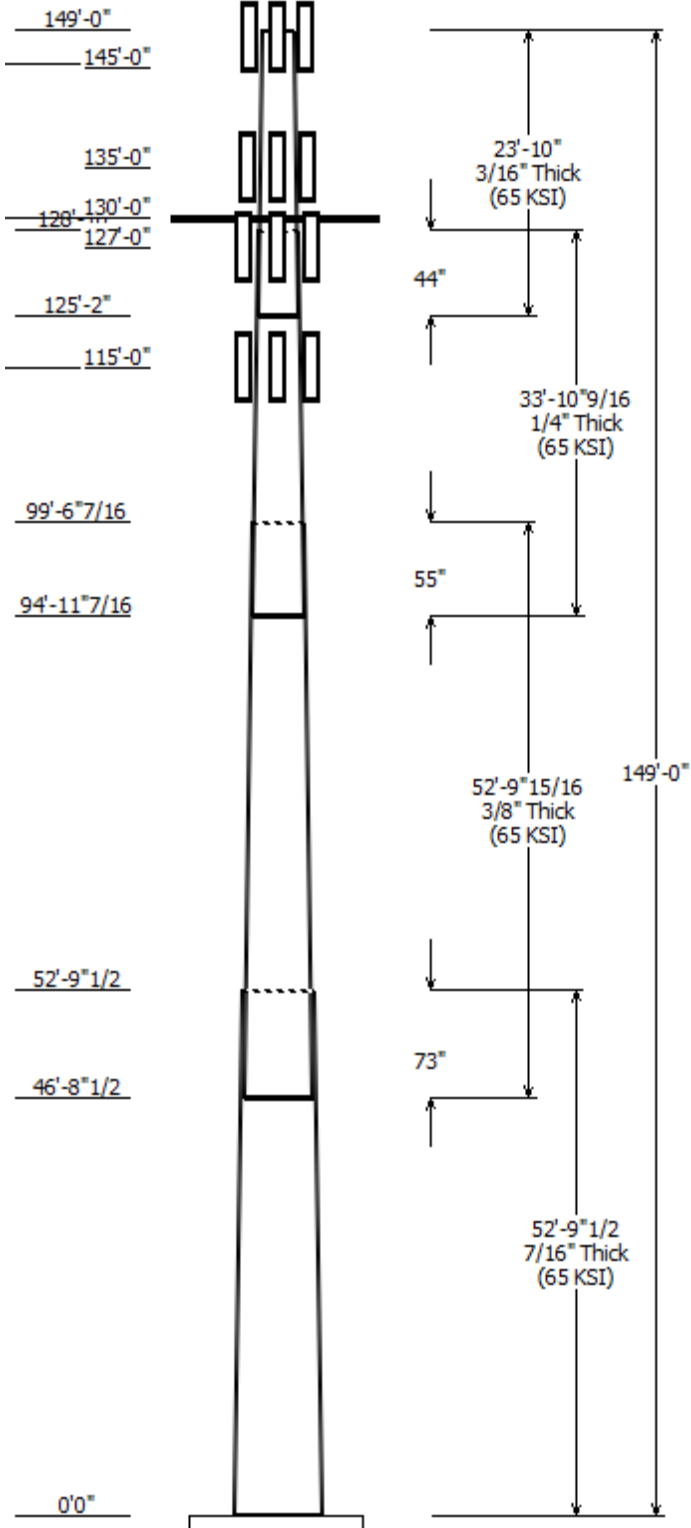
0.9D + 1.0W	118 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	Serviceability 60 mph

Reactions

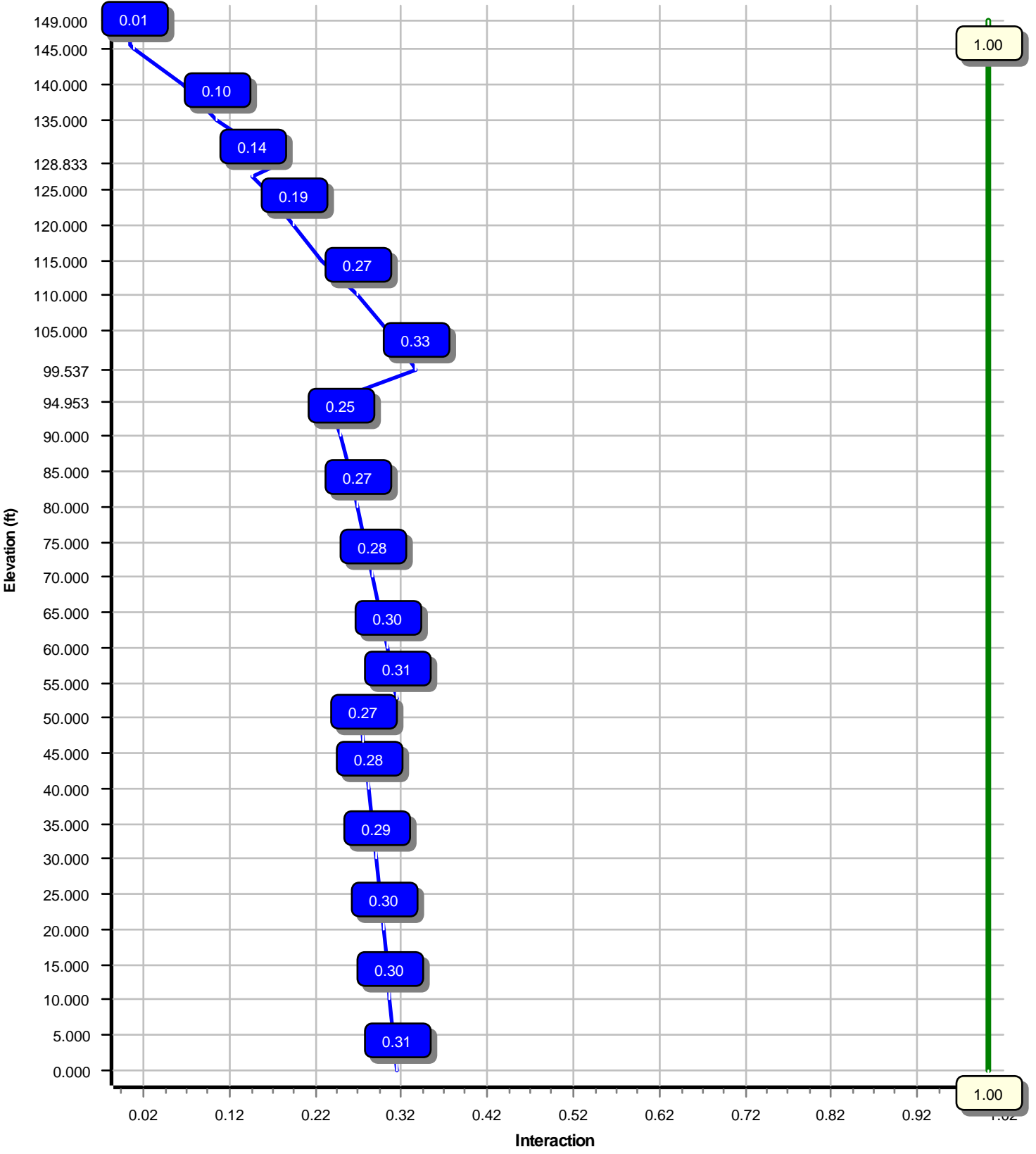
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.0W	1852.54	18.52	44.08
0.9D + 1.0W	1837.57	18.51	33.06
1.2D + 1.0Di + 1.0Wi	502.98	5.18	55.78
1.2D + 1.0Ev + 1.0Eh	125.80	1.10	43.79
0.9D - 1.0Ev + 1.0Eh	124.56	1.10	30.22
1.0D + 1.0W	426.32	4.28	36.75

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 33.47% at 99.5 ft



Site Number: 370641

Code: ANSI/TIA-222-H

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Site Name: Beacon Falls CT, CT

Engineering Number: 13668730_C3_01

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Customer: VERIZON WIRELESS

Analysis Parameters

Location :	New Haven County, CT	Height (ft) :	149
Code :	ANSI/TIA-222-H	Base Diameter (in) :	56.00
Shape :	18 Sides	Top Diameter (in) :	18.50
Pole Type :	Taper	Taper (in/ft) :	0.263
Pole Manufacturer :	EEL	Rotation (deg) :	0.00
Kd (non-service) :	0.95	Ke :	0.99

Ice & Wind Parameters

Exposure Category:	B	Design Wind Speed Without Ice:	118 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:	159.00 ft

Seismic Parameters

Analysis Method:	Equivalent Lateral Force Method		
Site Class:	D - Stiff Soil		
Period Based on Rayleigh Method (sec):	1.95		
T_L (sec):	6	p :	1
S_s :	0.199	S_1 :	0.054
F_a :	1.600	F_v :	2.400
S_{ds} :	0.212	S_{d1} :	0.086
		C_s :	0.030
		C_s Max:	0.030
		C_s Min:	0.030

Load Cases

1.2D + 1.0W	118 mph with No Ice
0.9D + 1.0W	118 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: 370641

Code: ANSI/TIA-222-H

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Site Name: Beacon Falls CT, CT

Engineering Number: 13668730_C3_01

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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)
1-18	52.790	0.4375	65		0.00	12,130	56.00	0.00	77.15	30093.2	20.81	128.00	42.13	52.79	57.90	12721.9	15.22	96.32	0.262584
2-18	52.830	0.3750	65	Slip	73.00	7,954	44.48	46.71	52.50	12906.4	19.15	118.63	30.61	99.54	35.99	4157.6	12.63	81.64	0.262584
3-18	33.880	0.2500	65	Slip	55.00	2,526	32.31	94.95	25.44	3305.6	21.03	129.27	23.42	128.83	18.39	1247.1	14.76	93.68	0.262584
4-18	23.833	0.1875	65	Slip	44.00	1,035	24.75	125.17	14.62	1115.3	21.52	132.04	18.50	149.00	10.90	461.7	15.63	98.67	0.262584
Shaft Weight						23,646													

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
145.50	Generic Flat Low Profile Platform	1	1.00	0.000	1,875.00	26.100	1.00	2,414.28	38.813	1.00
145.00	Powerwave Allgon LGP13519	6	0.80	2.000	5.30	0.290	0.50	11.60	0.547	0.50
145.00	Powerwave Allgon 7020.00 Dual	6	0.80	0.000	2.20	0.339	0.50	8.99	0.611	0.50
145.00	Powerwave Allgon LGP21401	6	0.80	2.000	14.10	1.104	0.50	30.68	1.578	0.50
145.00	Raycap DC6-48-60-18-8F	1	0.80	2.000	31.80	1.470	1.00	72.81	1.934	1.00
145.00	Ericsson RRUS 11 (Band 12)	3	0.80	2.000	50.00	2.566	0.67	95.31	3.262	0.67
145.00	Ericsson RRUS 32 B2	3	0.80	0.000	53.00	2.743	0.67	101.88	3.520	0.67
145.00	Allgon 7770.00	6	0.80	2.000	35.00	5.508	0.65	117.88	6.191	0.65
145.00	CCI HPA-65R-BUU-H6	3	0.80	2.000	51.00	9.658	0.69	196.81	11.500	0.69
135.00	Ericsson KRY 112 144/1	3	0.80	2.000	11.00	0.351	0.50	18.10	0.619	0.50
135.00	Ericsson Radio 4449 B12,B71	3	0.80	0.000	74.00	1.639	0.50	110.94	2.196	0.50
135.00	Ericsson AIR 21 B4A B2P	3	0.80	0.000	90.00	5.800	0.71	183.16	7.178	0.71
135.00	Ericsson AIR 21, 1.3M, B2A B4P	3	0.80	0.000	91.50	6.037	0.70	187.56	7.452	0.70
135.00	RFS APXVAARR24_43-U-NA20	3	0.80	0.000	127.90	20.243	0.63	386.93	22.690	0.63
130.00	Round T-Arm	3	0.75	0.000	250.00	9.700	0.67	387.57	15.127	0.67
127.00	Generic 34" x 6" Panel	3	1.00	0.000	20.00	1.899	0.50	47.27	2.772	0.50
115.00	Samsung B5/B13 RRH-BR04C	2	0.80	0.000	70.30	1.875	0.50	107.43	2.461	0.50
115.00	Samsung B5/B13 RRH-BR04C	2	0.80	0.000	70.30	1.875	0.50	107.43	2.461	0.50
115.00	Samsung B2/B66A RRH-BR049	2	0.80	0.000	84.40	1.875	0.50	125.81	2.461	0.50
115.00	RFS DB-B1-6C-12AB-0Z	1	0.80	2.000	21.40	2.512	0.67	73.21	3.188	0.67
115.00	Samsung MT6407-77A	2	0.80	0.000	81.60	4.709	0.71	147.76	5.695	0.71
115.00	JMA Wireless MX06FRO660-02	4	0.80	0.000	46.00	9.872	0.71	201.63	11.653	0.71
115.00	Generic Round Low Profile	1	1.00	0.000	1,875.00	21.700	1.00	2,400.67	34.162	1.00
Totals	Num Loadings:23	70			7,395.20			12,905.86		

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 From Face (in)	Exposed To Wind Carrier
0.00	147.00	1	3" conduit	3.50	7.58	N	0	0.00	0.00	0	N AT&T MOBILITY
0.00	145.00	1	0.39" (10mm) Fiber	0.39	0.06	N	0	0.00	0.00	0	N AT&T MOBILITY
0.00	145.00	2	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0	0.00	0.00	0	N AT&T MOBILITY
0.00	145.00	12	1 5/8" Coax	1.98	0.82	N	0	0.00	0.00	0	N AT&T MOBILITY
0.00	145.00	1	2" conduit	2.38	3.65	N	0	0.00	0.00	0	N AT&T MOBILITY
0.00	135.00	4	1 5/8" (1.63"-41.3mm)	1.63	1.61	N	0	0.00	0.00	0	N T-MOBILE
0.00	135.00	6	1 5/8" Coax	1.98	0.82	N	0	0.00	0.00	0	N T-MOBILE
0.00	127.00	6	1 5/8" Coax	1.98	0.82	N	0	0.00	0.00	0	N METRO PCS INC
0.00	115.00	2	1 5/8" Hybriflex	1.98	1.30	N	0	0.00	0.00	0	N 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	F'y (ksi)	S (in ³)	Z (in ³)	Weight (lb)
0.00		0.4375	56.000	77.153	30,093.2	20.81	128.00	76.9	1058.	0.0	0.0
5.00		0.4375	54.687	75.330	28,009.9	20.28	125.00	77.6	1008.	0.0	1,297.2
10.00		0.4375	53.374	73.507	26,025.1	19.75	122.00	78.2	960.4	0.0	1,266.1
15.00		0.4375	52.061	71.683	24,136.3	19.22	119.00	78.8	913.1	0.0	1,235.1
20.00		0.4375	50.748	69.860	22,341.2	18.69	116.00	79.4	867.1	0.0	1,204.1
25.00		0.4375	49.435	68.037	20,637.4	18.16	113.00	80.0	822.2	0.0	1,173.1
30.00		0.4375	48.122	66.214	19,022.5	17.63	109.99	80.7	778.6	0.0	1,142.1
35.00		0.4375	46.810	64.391	17,494.1	17.10	106.99	81.3	736.1	0.0	1,111.1
40.00		0.4375	45.497	62.568	16,049.9	16.57	103.99	81.9	694.8	0.0	1,080.0
45.00		0.4375	44.184	60.745	14,687.4	16.04	100.99	82.5	654.7	0.0	1,049.0
46.71	Bot - Section 2	0.4375	43.736	60.123	14,240.6	15.86	99.97	82.6	641.3	0.0	351.0
50.00		0.4375	42.871	58.922	13,404.3	15.52	97.99	82.6	615.8	0.0	1,249.6
52.79	Top - Section 1	0.3750	42.888	50.600	11,554.4	18.40	114.37	79.8	530.6	0.0	1,039.1
55.00		0.3750	42.308	49.909	11,087.7	18.13	112.82	80.1	516.2	0.0	377.9
60.00		0.3750	40.995	48.346	10,078.5	17.51	109.32	80.8	484.2	0.0	835.8
65.00		0.3750	39.682	46.784	9,132.4	16.90	105.82	81.5	453.3	0.0	809.3
70.00		0.3750	38.369	45.221	8,247.6	16.28	102.32	82.3	423.4	0.0	782.7
75.00		0.3750	37.056	43.658	7,421.8	15.66	98.82	82.6	394.5	0.0	756.1
80.00		0.3750	35.743	42.096	6,653.0	15.04	95.32	82.6	366.6	0.0	729.5
85.00		0.3750	34.430	40.533	5,939.3	14.43	91.81	82.6	339.8	0.0	702.9
90.00		0.3750	33.117	38.970	5,278.5	13.81	88.31	82.6	313.9	0.0	676.3
94.95	Bot - Section 3	0.3750	31.817	37.422	4,674.1	13.20	84.84	82.6	289.3	0.0	643.8
95.00		0.3750	31.805	37.408	4,668.6	13.19	84.81	82.6	289.1	0.0	10.0
99.54	Top - Section 2	0.2500	31.113	24.489	2,947.2	20.18	124.45	77.7	186.6	0.0	951.9
100.0		0.2500	30.992	24.393	2,912.5	20.10	123.97	77.8	185.1	0.0	38.5
105.0		0.2500	29.679	23.351	2,555.0	19.17	118.71	78.9	169.6	0.0	406.2
110.0		0.2500	28.366	22.309	2,228.1	18.24	113.46	79.9	154.7	0.0	388.4
115.0		0.2500	27.053	21.267	1,930.3	17.32	108.21	81.0	140.5	0.0	370.7
120.0		0.2500	25.740	20.226	1,660.3	16.39	102.96	82.1	127.0	0.0	353.0
125.0		0.2500	24.427	19.184	1,416.7	15.47	97.71	82.6	114.2	0.0	335.3
125.1	Bot - Section 4	0.2500	24.383	19.149	1,409.1	15.43	97.53	82.6	113.8	0.0	10.9
127.0		0.2500	23.902	18.767	1,326.4	15.09	95.61	82.6	109.3	0.0	208.6
128.8	Top - Section 3	0.1875	23.795	14.049	989.3	20.61	126.91	77.2	81.9	0.0	204.4
130.0		0.1875	23.489	13.867	951.3	20.33	125.28	77.5	79.8	0.0	55.4
135.0		0.1875	22.176	13.086	799.4	19.09	118.27	78.9	71.0	0.0	229.3
140.0		0.1875	20.863	12.304	664.6	17.86	111.27	80.4	62.7	0.0	216.0
145.0		0.1875	19.550	11.523	545.8	16.62	104.27	81.8	55.0	0.0	202.7
145.5		0.1875	19.419	11.445	534.8	16.50	103.57	82.0	54.2	0.0	19.5
149.0		0.1875	18.500	10.898	461.7	15.63	98.67	82.6	49.2	0.0	133.0
23,645.5											

Load Case: 1.2D + 1.0W	118 mph with No Ice	23 Iterations
Gust Response Factor :1.10		
Dead Load Factor :1.20		
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		221.6	0.0					0.0	0.0	221.6	0.0	0.0	0.0
5.00		437.9	1,556.6					0.0	247.1	437.9	1,803.7	0.0	0.0
10.00		427.4	1,519.4					0.0	247.1	427.4	1,766.5	0.0	0.0
15.00		416.9	1,482.1					0.0	247.1	416.9	1,729.3	0.0	0.0
20.00		406.4	1,444.9					0.0	247.1	406.4	1,692.1	0.0	0.0
25.00		395.8	1,407.7					0.0	247.1	395.8	1,654.8	0.0	0.0
30.00		389.9	1,370.5					0.0	247.1	389.9	1,617.6	0.0	0.0
35.00		391.7	1,333.3					0.0	247.1	391.7	1,580.4	0.0	0.0
40.00		395.6	1,296.0					0.0	247.1	395.6	1,543.2	0.0	0.0
45.00		266.3	1,258.8					0.0	247.1	266.3	1,506.0	0.0	0.0
46.71	Bot - Section 2	201.1	421.2					0.0	84.4	201.1	505.5	0.0	0.0
50.00		246.0	1,499.5					0.0	162.8	246.0	1,662.3	0.0	0.0
52.79	Top - Section 1	202.0	1,246.9					0.0	137.9	202.0	1,384.8	0.0	0.0
55.00		290.2	453.5					0.0	109.2	290.2	562.7	0.0	0.0
60.00		400.3	1,003.0					0.0	247.1	400.3	1,250.2	0.0	0.0
65.00		396.5	971.1					0.0	247.1	396.5	1,218.3	0.0	0.0
70.00		391.6	939.2					0.0	247.1	391.6	1,186.4	0.0	0.0
75.00		385.7	907.3					0.0	247.1	385.7	1,154.4	0.0	0.0
80.00		379.0	875.4					0.0	247.1	379.0	1,122.5	0.0	0.0
85.00		371.5	843.5					0.0	247.1	371.5	1,090.6	0.0	0.0
90.00		361.5	811.6					0.0	247.1	361.5	1,058.7	0.0	0.0
94.95	Bot - Section 3	179.5	772.6					0.0	244.8	179.5	1,017.4	0.0	0.0
95.00		163.0	12.0					0.0	2.3	163.0	14.3	0.0	0.0
99.54	Top - Section 2	177.6	1,142.3					0.0	224.2	177.6	1,366.5	0.0	0.0
100.00		188.9	46.2					0.0	22.9	188.9	69.1	0.0	0.0
105.00		340.1	487.4					0.0	247.1	340.1	734.5	0.0	0.0
110.00		329.4	466.1					0.0	247.1	329.4	713.3	0.0	0.0
115.00	Appurtenance(s)	318.2	444.8	2,107.6	0.0	103.1	3,232.3	0.0	247.1	2,425.8	3,924.3	0.0	0.0
120.00		306.5	423.6					0.0	231.5	306.5	655.1	0.0	0.0
125.00		155.1	402.3					0.0	231.5	155.1	633.8	0.0	0.0
125.17	Bot - Section 4	59.2	13.0					0.0	7.7	59.2	20.8	0.0	0.0
127.00	Appurtenance(s)	107.7	250.3	111.6	0.0	0.0	72.0	0.0	84.9	219.4	407.2	0.0	0.0
128.83	Top - Section 3	87.0	245.3					0.0	74.1	87.0	319.4	0.0	0.0
130.00	Appurtenance(s)	173.4	66.5	576.9	0.0	0.0	900.0	0.0	47.1	750.3	1,013.6	0.0	0.0
135.00	Appurtenance(s)	273.1	275.1	2,114.4	0.0	33.7	1,419.8	0.0	202.0	2,387.4	1,897.0	0.0	0.0
140.00		259.6	259.2					0.0	133.9	259.6	393.0	0.0	0.0
145.00	Appurtenance(s)	138.6	243.2	1,921.6	0.0	3,417.9	1,000.1	0.0	133.9	2,060.2	1,377.2	0.0	0.0
145.50	Appurtenance(s)	96.0	23.4	1,063.3	0.0	0.0	2,250.0	0.0	4.5	1,159.3	2,278.0	0.0	0.0
149.00		83.8	159.7					0.0	13.6	83.8	173.3	0.0	0.0
Totals:										18,707.0	44,097.9	0.00	0.00

Site Number: 370641

Code: ANSI/TIA-222-H

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Site Name: Beacon Falls CT, CT

Engineering Number: 13668730_C3_01

4/29/2021 3:57:07 PM

Customer: VERIZON WIRELESS

Load Case: 1.2D + 1.0W

118 mph with No Ice

23 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	-44.08	-18.52	0.00	-1,852.54	0.00	1,852.54	5,341.71	1,354.03	6,795.27	6,106.74	0.00	0.00	0.312
5.00	-42.25	-18.14	0.00	-1,759.95	0.00	1,759.95	5,257.68	1,322.03	6,477.96	5,867.53	0.05	-0.09	0.308
10.00	-40.46	-17.77	0.00	-1,669.24	0.00	1,669.24	5,171.61	1,290.04	6,168.24	5,630.68	0.18	-0.17	0.304
15.00	-38.71	-17.41	0.00	-1,580.37	0.00	1,580.37	5,083.50	1,258.04	5,866.11	5,396.35	0.41	-0.26	0.301
20.00	-36.99	-17.05	0.00	-1,493.32	0.00	1,493.32	4,993.34	1,226.05	5,571.56	5,164.71	0.73	-0.35	0.297
25.00	-35.31	-16.70	0.00	-1,408.04	0.00	1,408.04	4,901.14	1,194.05	5,284.60	4,935.92	1.15	-0.44	0.293
30.00	-33.67	-16.36	0.00	-1,324.52	0.00	1,324.52	4,806.90	1,162.06	5,005.22	4,710.14	1.67	-0.54	0.288
35.00	-32.06	-16.00	0.00	-1,242.74	0.00	1,242.74	4,710.62	1,130.06	4,733.44	4,487.55	2.28	-0.63	0.284
40.00	-30.50	-15.64	0.00	-1,162.73	0.00	1,162.73	4,612.30	1,098.07	4,469.24	4,268.32	3.00	-0.73	0.279
45.00	-28.98	-15.39	0.00	-1,084.52	0.00	1,084.52	4,511.93	1,066.07	4,212.62	4,052.61	3.82	-0.83	0.274
46.71	-28.46	-15.21	0.00	-1,058.25	0.00	1,058.25	4,466.81	1,055.15	4,126.76	3,970.57	4.12	-0.87	0.273
50.00	-26.79	-14.96	0.00	-1,008.18	0.00	1,008.18	4,377.60	1,034.08	3,963.59	3,812.78	4.75	-0.94	0.271
52.79	-25.39	-14.76	0.00	-966.43	0.00	966.43	3,632.02	888.02	3,410.01	3,174.03	5.31	-0.99	0.312
55.00	-24.82	-14.50	0.00	-933.81	0.00	933.81	3,596.86	875.90	3,317.57	3,100.03	5.78	-1.04	0.308
60.00	-23.54	-14.12	0.00	-861.33	0.00	861.33	3,515.84	848.48	3,113.10	2,934.48	6.93	-1.16	0.300
65.00	-22.31	-13.74	0.00	-790.73	0.00	790.73	3,432.77	821.05	2,915.14	2,771.69	8.21	-1.27	0.292
70.00	-21.10	-13.37	0.00	-722.01	0.00	722.01	3,347.66	793.63	2,723.68	2,611.84	9.60	-1.39	0.283
75.00	-19.93	-12.99	0.00	-655.17	0.00	655.17	3,243.59	766.20	2,538.72	2,442.34	11.12	-1.51	0.275
80.00	-18.79	-12.62	0.00	-590.20	0.00	590.20	3,127.49	738.78	2,360.26	2,269.78	12.77	-1.63	0.266
85.00	-17.69	-12.26	0.00	-527.08	0.00	527.08	3,011.40	711.35	2,188.31	2,103.54	14.54	-1.75	0.257
90.00	-16.62	-11.90	0.00	-465.79	0.00	465.79	2,895.30	683.93	2,022.86	1,943.62	16.43	-1.87	0.246
94.95	-15.59	-11.70	0.00	-406.86	0.00	406.86	2,780.28	656.76	1,865.37	1,791.43	18.43	-1.98	0.233
95.00	-15.58	-11.55	0.00	-406.31	0.00	406.31	2,779.20	656.50	1,863.91	1,790.03	18.45	-1.98	0.233
99.54	-14.20	-11.34	0.00	-353.91	0.00	353.91	1,711.73	429.78	1,198.10	1,086.74	20.39	-2.09	0.335
100.00	-14.13	-11.17	0.00	-348.66	0.00	348.66	1,707.20	428.09	1,188.67	1,079.56	20.59	-2.10	0.332
105.00	-13.38	-10.84	0.00	-292.82	0.00	292.82	1,657.18	409.81	1,089.32	1,002.81	22.88	-2.26	0.301
110.00	-12.65	-10.51	0.00	-238.64	0.00	238.64	1,605.11	391.52	994.30	927.61	25.32	-2.41	0.266
115.00	-8.82	-7.94	0.00	-185.98	0.00	185.98	1,551.00	373.24	903.62	854.11	27.92	-2.54	0.224
120.00	-8.16	-7.62	0.00	-146.30	0.00	146.30	1,494.85	354.96	817.27	782.50	30.64	-2.66	0.193
125.00	-7.53	-7.44	0.00	-108.22	0.00	108.22	1,425.26	336.68	735.26	707.26	33.49	-2.77	0.159
125.17	-7.51	-7.38	0.00	-106.98	0.00	106.98	1,422.68	336.07	732.60	704.69	33.59	-2.78	0.158
127.00	-7.11	-7.15	0.00	-93.45	0.00	93.45	1,394.30	329.36	703.67	676.72	34.66	-2.81	0.144
128.83	-6.79	-7.05	0.00	-80.34	0.00	80.34	975.56	246.56	525.75	473.84	35.75	-2.85	0.177
130.00	-5.81	-6.25	0.00	-72.12	0.00	72.12	967.13	243.36	512.20	463.60	36.45	-2.87	0.162
135.00	-4.03	-3.78	0.00	-40.82	0.00	40.82	929.74	229.65	456.11	420.37	39.50	-2.95	0.102
140.00	-3.65	-3.50	0.00	-21.93	0.00	21.93	890.31	215.94	403.28	378.30	42.62	-3.01	0.062
145.00	-2.38	-1.37	0.00	-1.01	0.00	1.01	848.83	202.23	353.69	337.57	45.79	-3.04	0.006
145.50	-0.17	-0.09	0.00	-0.32	0.00	0.32	844.57	200.86	348.91	333.57	46.11	-3.04	0.001
149.00	0.00	-0.08	0.00	0.00	0.00	0.00	809.65	191.26	316.37	304.35	48.33	-3.04	0.000

Load Case: 0.9D + 1.0W	118 mph with No Ice (Reduced DL)	23 Iterations
Gust Response Factor :1.10		
Dead Load Factor :0.90		
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		221.6	0.0					0.0	0.0	221.6	0.0	0.0	0.0
5.00		437.9	1,167.4					0.0	185.4	437.9	1,352.8	0.0	0.0
10.00		427.4	1,139.5					0.0	185.4	427.4	1,324.9	0.0	0.0
15.00		416.9	1,111.6					0.0	185.4	416.9	1,297.0	0.0	0.0
20.00		406.4	1,083.7					0.0	185.4	406.4	1,269.0	0.0	0.0
25.00		395.8	1,055.8					0.0	185.4	395.8	1,241.1	0.0	0.0
30.00		389.9	1,027.9					0.0	185.4	389.9	1,213.2	0.0	0.0
35.00		391.7	999.9					0.0	185.4	391.7	1,185.3	0.0	0.0
40.00		395.6	972.0					0.0	185.4	395.6	1,157.4	0.0	0.0
45.00		266.3	944.1					0.0	185.4	266.3	1,129.5	0.0	0.0
46.71	Bot - Section 2	201.1	315.9					0.0	63.3	201.1	379.1	0.0	0.0
50.00		246.0	1,124.6					0.0	122.1	246.0	1,246.7	0.0	0.0
52.79	Top - Section 1	202.0	935.2					0.0	103.4	202.0	1,038.6	0.0	0.0
55.00		290.2	340.1					0.0	81.9	290.2	422.0	0.0	0.0
60.00		400.3	752.3					0.0	185.4	400.3	937.6	0.0	0.0
65.00		396.5	728.3					0.0	185.4	396.5	913.7	0.0	0.0
70.00		391.6	704.4					0.0	185.4	391.6	889.8	0.0	0.0
75.00		385.7	680.5					0.0	185.4	385.7	865.8	0.0	0.0
80.00		379.0	656.6					0.0	185.4	379.0	841.9	0.0	0.0
85.00		371.5	632.6					0.0	185.4	371.5	818.0	0.0	0.0
90.00		361.5	608.7					0.0	185.4	361.5	794.1	0.0	0.0
94.95	Bot - Section 3	179.5	579.4					0.0	183.6	179.5	763.1	0.0	0.0
95.00		163.0	9.0					0.0	1.7	163.0	10.7	0.0	0.0
99.54	Top - Section 2	177.6	856.7					0.0	168.2	177.6	1,024.9	0.0	0.0
100.00		188.9	34.7					0.0	17.2	188.9	51.9	0.0	0.0
105.00		340.1	365.5					0.0	185.4	340.1	550.9	0.0	0.0
110.00		329.4	349.6					0.0	185.4	329.4	534.9	0.0	0.0
115.00	Appurtenance(s)	318.2	333.6	2,107.6	0.0	103.1	2,424.2	0.0	185.4	2,425.8	2,943.2	0.0	0.0
120.00		306.5	317.7					0.0	173.7	306.5	491.3	0.0	0.0
125.00		155.1	301.7					0.0	173.7	155.1	475.4	0.0	0.0
125.17	Bot - Section 4	59.2	9.8					0.0	5.8	59.2	15.6	0.0	0.0
127.00	Appurtenance(s)	107.7	187.7	111.6	0.0	0.0	54.0	0.0	63.7	219.4	305.4	0.0	0.0
128.83	Top - Section 3	87.0	184.0					0.0	55.6	87.0	239.5	0.0	0.0
130.00	Appurtenance(s)	173.4	49.9	576.9	0.0	0.0	675.0	0.0	35.4	750.3	760.2	0.0	0.0
135.00	Appurtenance(s)	273.1	206.4	2,114.4	0.0	33.7	1,064.9	0.0	151.5	2,387.4	1,422.7	0.0	0.0
140.00		259.6	194.4					0.0	100.4	259.6	294.8	0.0	0.0
145.00	Appurtenance(s)	138.6	182.4	1,921.6	0.0	3,417.9	750.1	0.0	100.4	2,060.2	1,032.9	0.0	0.0
145.50	Appurtenance(s)	96.0	17.6	1,063.3	0.0	0.0	1,687.5	0.0	3.4	1,159.3	1,708.5	0.0	0.0
149.00		83.8	119.7					0.0	10.2	83.8	130.0	0.0	0.0
								Totals:		18,707.0	33,073.4	0.00	0.00

Load Case: 0.9D + 1.0W

118 mph with No Ice (Reduced DL)

23 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	-33.06	-18.51	0.00	-1,837.57	0.00	1,837.57	5,341.71	1,354.03	6,795.27	6,106.74	0.00	0.00	0.307
5.00	-31.68	-18.12	0.00	-1,745.02	0.00	1,745.02	5,257.68	1,322.03	6,477.96	5,867.53	0.05	-0.08	0.304
10.00	-30.33	-17.73	0.00	-1,654.43	0.00	1,654.43	5,171.61	1,290.04	6,168.24	5,630.68	0.18	-0.17	0.300
15.00	-29.01	-17.36	0.00	-1,565.76	0.00	1,565.76	5,083.50	1,258.04	5,866.11	5,396.35	0.41	-0.26	0.296
20.00	-27.71	-16.99	0.00	-1,478.97	0.00	1,478.97	4,993.34	1,226.05	5,571.56	5,164.71	0.73	-0.35	0.292
25.00	-26.45	-16.63	0.00	-1,394.03	0.00	1,394.03	4,901.14	1,194.05	5,284.60	4,935.92	1.14	-0.44	0.288
30.00	-25.21	-16.27	0.00	-1,310.90	0.00	1,310.90	4,806.90	1,162.06	5,005.22	4,710.14	1.65	-0.53	0.284
35.00	-24.00	-15.90	0.00	-1,229.57	0.00	1,229.57	4,710.62	1,130.06	4,733.44	4,487.55	2.26	-0.63	0.279
40.00	-22.82	-15.53	0.00	-1,150.05	0.00	1,150.05	4,612.30	1,098.07	4,469.24	4,268.32	2.97	-0.73	0.275
45.00	-21.68	-15.28	0.00	-1,072.38	0.00	1,072.38	4,511.93	1,066.07	4,212.62	4,052.61	3.79	-0.82	0.270
46.71	-21.29	-15.09	0.00	-1,046.31	0.00	1,046.31	4,466.81	1,055.15	4,126.76	3,970.57	4.09	-0.86	0.268
50.00	-20.03	-14.85	0.00	-996.61	0.00	996.61	4,377.60	1,034.08	3,963.59	3,812.78	4.70	-0.93	0.266
52.79	-18.98	-14.64	0.00	-955.19	0.00	955.19	3,632.02	888.02	3,410.01	3,174.03	5.26	-0.98	0.306
55.00	-18.55	-14.37	0.00	-922.83	0.00	922.83	3,596.86	875.90	3,317.57	3,100.03	5.73	-1.03	0.303
60.00	-17.59	-13.99	0.00	-850.97	0.00	850.97	3,515.84	848.48	3,113.10	2,934.48	6.87	-1.14	0.295
65.00	-16.66	-13.61	0.00	-781.02	0.00	781.02	3,432.77	821.05	2,915.14	2,771.69	8.13	-1.26	0.287
70.00	-15.75	-13.23	0.00	-712.98	0.00	712.98	3,347.66	793.63	2,723.68	2,611.84	9.51	-1.38	0.278
75.00	-14.87	-12.85	0.00	-646.84	0.00	646.84	3,243.59	766.20	2,538.72	2,442.34	11.01	-1.49	0.270
80.00	-14.01	-12.48	0.00	-582.58	0.00	582.58	3,127.49	738.78	2,360.26	2,269.78	12.64	-1.61	0.261
85.00	-13.18	-12.11	0.00	-520.19	0.00	520.19	3,011.40	711.35	2,188.31	2,103.54	14.39	-1.73	0.252
90.00	-12.37	-11.75	0.00	-459.64	0.00	459.64	2,895.30	683.93	2,022.86	1,943.62	16.26	-1.85	0.241
94.95	-11.60	-11.56	0.00	-401.44	0.00	401.44	2,780.28	656.76	1,865.37	1,791.43	18.24	-1.96	0.229
95.00	-11.59	-11.40	0.00	-400.90	0.00	400.90	2,779.20	656.50	1,863.91	1,790.03	18.26	-1.96	0.228
99.54	-10.56	-11.20	0.00	-349.17	0.00	349.17	1,711.73	429.78	1,198.10	1,086.74	20.18	-2.07	0.328
100.00	-10.50	-11.03	0.00	-343.98	0.00	343.98	1,707.20	428.09	1,188.67	1,079.56	20.38	-2.08	0.325
105.00	-9.93	-10.69	0.00	-288.85	0.00	288.85	1,657.18	409.81	1,089.32	1,002.81	22.64	-2.23	0.295
110.00	-9.39	-10.36	0.00	-235.39	0.00	235.39	1,605.11	391.52	994.30	927.61	25.05	-2.38	0.260
115.00	-6.53	-7.83	0.00	-183.47	0.00	183.47	1,551.00	373.24	903.62	854.11	27.61	-2.51	0.219
120.00	-6.04	-7.51	0.00	-144.33	0.00	144.33	1,494.85	354.96	817.27	782.50	30.31	-2.63	0.189
125.00	-5.56	-7.34	0.00	-106.77	0.00	106.77	1,425.26	336.68	735.26	707.26	33.13	-2.74	0.155
125.17	-5.55	-7.28	0.00	-105.54	0.00	105.54	1,422.68	336.07	732.60	704.69	33.22	-2.74	0.154
127.00	-5.25	-7.05	0.00	-92.19	0.00	92.19	1,394.30	329.36	703.67	676.72	34.28	-2.78	0.140
128.83	-5.01	-6.96	0.00	-79.26	0.00	79.26	975.56	246.56	525.75	473.84	35.36	-2.81	0.173
130.00	-4.28	-6.17	0.00	-71.15	0.00	71.15	967.13	243.36	512.20	463.60	36.05	-2.83	0.159
135.00	-2.98	-3.72	0.00	-40.25	0.00	40.25	929.74	229.65	456.11	420.37	39.06	-2.92	0.099
140.00	-2.70	-3.45	0.00	-21.65	0.00	21.65	890.31	215.94	403.28	378.30	42.15	-2.97	0.060
145.00	-1.77	-1.34	0.00	-0.99	0.00	0.99	848.83	202.23	353.69	337.57	45.27	-3.00	0.005
145.50	-0.13	-0.09	0.00	-0.32	0.00	0.32	844.57	200.86	348.91	333.57	45.59	-3.00	0.001
149.00	0.00	-0.08	0.00	0.00	0.00	0.00	809.65	191.26	316.37	304.35	47.79	-3.00	0.000

Load Case: 1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice	22 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		

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		67.2	0.0					0.0	0.0	67.2	0.0	0.0	0.0
5.00		133.0	1,825.0					0.0	247.1	133.0	2,072.2	0.0	0.0
10.00		130.3	1,812.4					0.0	247.1	130.3	2,059.5	0.0	0.0
15.00		127.3	1,783.3					0.0	247.1	127.3	2,030.4	0.0	0.0
20.00		124.4	1,748.8					0.0	247.1	124.4	1,996.0	0.0	0.0
25.00		121.4	1,711.6					0.0	247.1	121.4	1,958.7	0.0	0.0
30.00		119.7	1,672.6					0.0	247.1	119.7	1,919.7	0.0	0.0
35.00		120.5	1,632.3					0.0	247.1	120.5	1,879.4	0.0	0.0
40.00		121.9	1,591.2					0.0	247.1	121.9	1,838.3	0.0	0.0
45.00		82.2	1,549.3					0.0	247.1	82.2	1,796.4	0.0	0.0
46.71	Bot - Section 2	62.1	520.1					0.0	84.4	62.1	604.5	0.0	0.0
50.00		76.0	1,691.0					0.0	162.8	76.0	1,853.8	0.0	0.0
52.79	Top - Section 1	62.5	1,407.4					0.0	137.9	62.5	1,545.3	0.0	0.0
55.00		89.9	579.6					0.0	109.2	89.9	688.8	0.0	0.0
60.00		124.2	1,281.5					0.0	247.1	124.2	1,528.6	0.0	0.0
65.00		123.2	1,243.2					0.0	247.1	123.2	1,490.3	0.0	0.0
70.00		122.0	1,204.6					0.0	247.1	122.0	1,451.8	0.0	0.0
75.00		120.4	1,165.8					0.0	247.1	120.4	1,412.9	0.0	0.0
80.00		118.6	1,126.7					0.0	247.1	118.6	1,373.8	0.0	0.0
85.00		116.5	1,087.4					0.0	247.1	116.5	1,334.5	0.0	0.0
90.00		113.7	1,047.9					0.0	247.1	113.7	1,295.0	0.0	0.0
94.95	Bot - Section 3	56.5	999.0					0.0	244.8	56.5	1,243.9	0.0	0.0
95.00		51.4	14.1					0.0	2.3	51.4	16.4	0.0	0.0
99.54	Top - Section 2	56.0	1,346.3					0.0	224.2	56.0	1,570.5	0.0	0.0
100.00		59.8	67.1					0.0	22.9	59.8	90.0	0.0	0.0
105.00		107.9	703.4					0.0	247.1	107.9	950.6	0.0	0.0
110.00		104.8	674.0					0.0	247.1	104.8	921.1	0.0	0.0
115.00	Appurtenance(s)	101.7	644.4	511.1	0.0	23.5	4,450.2	0.0	247.1	612.8	5,341.7	0.0	0.0
120.00		98.3	614.7					0.0	231.5	98.3	846.2	0.0	0.0
125.00		49.9	584.9					0.0	231.5	49.9	816.4	0.0	0.0
125.17	Bot - Section 4	19.1	19.1					0.0	7.7	19.1	26.9	0.0	0.0
127.00	Appurtenance(s)	34.7	317.0	29.3	0.0	0.0	135.9	0.0	84.9	64.0	537.9	0.0	0.0
128.83	Top - Section 3	28.1	310.9					0.0	74.1	28.1	385.0	0.0	0.0
130.00	Appurtenance(s)	56.2	107.8	161.5	0.0	0.0	1,222.7	0.0	47.1	217.7	1,377.6	0.0	0.0
135.00	Appurtenance(s)	88.8	443.0	447.0	0.0	10.7	2,575.4	0.0	202.0	535.9	3,220.4	0.0	0.0
140.00		85.0	418.2					0.0	133.9	85.0	552.1	0.0	0.0
145.00	Appurtenance(s)	45.5	393.3	420.8	0.0	737.3	2,233.6	0.0	133.9	466.3	2,760.8	0.0	0.0
145.50	Appurtenance(s)	31.8	38.4	283.9	0.0	0.0	2,673.0	0.0	4.5	315.7	2,716.0	0.0	0.0
149.00		27.7	259.7					0.0	13.6	27.7	273.4	0.0	0.0
								Totals:		5,233.98	55,776.7	0.00	0.00

Site Number: 370641

Code: ANSI/TIA-222-H

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Site Name: Beacon Falls CT, CT

Engineering Number: 13668730_C3_01

4/29/2021 3:57:11 PM

Customer: VERIZON WIRELESS

Load Case: 1.2D + 1.0Di + 1.0Wi

50 mph with 1.00 in Radial Ice

22 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	-55.78	-5.18	0.00	-502.98	0.00	502.98	5,341.71	1,354.03	6,795.27	6,106.74	0.00	0.00	0.093
5.00	-53.70	-5.07	0.00	-477.09	0.00	477.09	5,257.68	1,322.03	6,477.96	5,867.53	0.01	-0.02	0.092
10.00	-51.64	-4.96	0.00	-451.76	0.00	451.76	5,171.61	1,290.04	6,168.24	5,630.68	0.05	-0.05	0.090
15.00	-49.61	-4.85	0.00	-426.98	0.00	426.98	5,083.50	1,258.04	5,866.11	5,396.35	0.11	-0.07	0.089
20.00	-47.61	-4.74	0.00	-402.74	0.00	402.74	4,993.34	1,226.05	5,571.56	5,164.71	0.20	-0.10	0.088
25.00	-45.65	-4.64	0.00	-379.04	0.00	379.04	4,901.14	1,194.05	5,284.60	4,935.92	0.31	-0.12	0.086
30.00	-43.73	-4.53	0.00	-355.86	0.00	355.86	4,806.90	1,162.06	5,005.22	4,710.14	0.45	-0.15	0.085
35.00	-41.85	-4.42	0.00	-333.21	0.00	333.21	4,710.62	1,130.06	4,733.44	4,487.55	0.62	-0.17	0.083
40.00	-40.01	-4.32	0.00	-311.08	0.00	311.08	4,612.30	1,098.07	4,469.24	4,268.32	0.81	-0.20	0.082
45.00	-38.21	-4.24	0.00	-289.51	0.00	289.51	4,511.93	1,066.07	4,212.62	4,052.61	1.03	-0.22	0.080
46.71	-37.60	-4.18	0.00	-282.28	0.00	282.28	4,466.81	1,055.15	4,126.76	3,970.57	1.11	-0.23	0.080
50.00	-35.75	-4.11	0.00	-268.50	0.00	268.50	4,377.60	1,034.08	3,963.59	3,812.78	1.28	-0.25	0.079
52.79	-34.20	-4.05	0.00	-257.04	0.00	257.04	3,632.02	888.02	3,410.01	3,174.03	1.43	-0.27	0.090
55.00	-33.51	-3.97	0.00	-248.09	0.00	248.09	3,596.86	875.90	3,317.57	3,100.03	1.56	-0.28	0.089
60.00	-31.98	-3.85	0.00	-228.25	0.00	228.25	3,515.84	848.48	3,113.10	2,934.48	1.87	-0.31	0.087
65.00	-30.49	-3.74	0.00	-208.99	0.00	208.99	3,432.77	821.05	2,915.14	2,771.69	2.21	-0.34	0.084
70.00	-29.04	-3.62	0.00	-190.30	0.00	190.30	3,347.66	793.63	2,723.68	2,611.84	2.58	-0.37	0.082
75.00	-27.63	-3.51	0.00	-172.19	0.00	172.19	3,243.59	766.20	2,538.72	2,442.34	2.99	-0.40	0.079
80.00	-26.25	-3.39	0.00	-154.65	0.00	154.65	3,127.49	738.78	2,360.26	2,269.78	3.43	-0.43	0.077
85.00	-24.92	-3.28	0.00	-137.69	0.00	137.69	3,011.40	711.35	2,188.31	2,103.54	3.90	-0.47	0.074
90.00	-23.62	-3.17	0.00	-121.29	0.00	121.29	2,895.30	683.93	2,022.86	1,943.62	4.41	-0.50	0.071
94.95	-22.38	-3.11	0.00	-105.60	0.00	105.60	2,780.28	656.76	1,865.37	1,791.43	4.94	-0.53	0.067
95.00	-22.36	-3.06	0.00	-105.45	0.00	105.45	2,779.20	656.50	1,863.91	1,790.03	4.95	-0.53	0.067
99.54	-20.79	-2.99	0.00	-91.57	0.00	91.57	1,711.73	429.78	1,198.10	1,086.74	5.46	-0.55	0.096
100.00	-20.70	-2.94	0.00	-90.18	0.00	90.18	1,707.20	428.09	1,188.67	1,079.56	5.51	-0.56	0.096
105.00	-19.75	-2.84	0.00	-75.47	0.00	75.47	1,657.18	409.81	1,089.32	1,002.81	6.12	-0.60	0.087
110.00	-18.82	-2.74	0.00	-61.28	0.00	61.28	1,605.11	391.52	994.30	927.61	6.77	-0.64	0.078
115.00	-13.49	-2.07	0.00	-47.59	0.00	47.59	1,551.00	373.24	903.62	854.11	7.45	-0.67	0.064
120.00	-12.64	-1.97	0.00	-37.24	0.00	37.24	1,494.85	354.96	817.27	782.50	8.17	-0.70	0.056
125.00	-11.83	-1.91	0.00	-27.40	0.00	27.40	1,425.26	336.68	735.26	707.26	8.92	-0.73	0.047
125.17	-11.80	-1.89	0.00	-27.08	0.00	27.08	1,422.68	336.07	732.60	704.69	8.95	-0.73	0.047
127.00	-11.26	-1.82	0.00	-23.62	0.00	23.62	1,394.30	329.36	703.67	676.72	9.23	-0.74	0.043
128.83	-10.88	-1.79	0.00	-20.27	0.00	20.27	975.56	246.56	525.75	473.84	9.52	-0.75	0.054
130.00	-9.50	-1.56	0.00	-18.19	0.00	18.19	967.13	243.36	512.20	463.60	9.70	-0.75	0.049
135.00	-6.29	-0.98	0.00	-10.39	0.00	10.39	929.74	229.65	456.11	420.37	10.50	-0.78	0.031
140.00	-5.74	-0.89	0.00	-5.49	0.00	5.49	890.31	215.94	403.28	378.30	11.32	-0.79	0.021
145.00	-2.98	-0.38	0.00	-0.30	0.00	0.30	848.83	202.23	353.69	337.57	12.16	-0.80	0.004
145.50	-0.27	-0.03	0.00	-0.11	0.00	0.11	844.57	200.86	348.91	333.57	12.24	-0.80	0.001
149.00	0.00	-0.03	0.00	0.00	0.00	0.00	809.65	191.26	316.37	304.35	12.82	-0.80	0.000

Load Case: 1.0D + 1.0W	Serviceability 60 mph	22 Iterations
Gust Response Factor :1.10		
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		51.3	0.0					0.0	0.0	51.3	0.0	0.0	0.0
5.00		101.3	1,297.2					0.0	206.0	101.3	1,503.1	0.0	0.0
10.00		98.9	1,266.1					0.0	206.0	98.9	1,472.1	0.0	0.0
15.00		96.4	1,235.1					0.0	206.0	96.4	1,441.1	0.0	0.0
20.00		94.0	1,204.1					0.0	206.0	94.0	1,410.1	0.0	0.0
25.00		91.6	1,173.1					0.0	206.0	91.6	1,379.0	0.0	0.0
30.00		90.2	1,142.1					0.0	206.0	90.2	1,348.0	0.0	0.0
35.00		90.6	1,111.1					0.0	206.0	90.6	1,317.0	0.0	0.0
40.00		91.5	1,080.0					0.0	206.0	91.5	1,286.0	0.0	0.0
45.00		61.6	1,049.0					0.0	206.0	61.6	1,255.0	0.0	0.0
46.71	Bot - Section 2	46.5	351.0					0.0	70.3	46.5	421.3	0.0	0.0
50.00		56.9	1,249.6					0.0	135.7	56.9	1,385.3	0.0	0.0
52.79	Top - Section 1	46.7	1,039.1					0.0	114.9	46.7	1,154.0	0.0	0.0
55.00		67.1	377.9					0.0	91.0	67.1	468.9	0.0	0.0
60.00		92.6	835.8					0.0	206.0	92.6	1,041.8	0.0	0.0
65.00		91.7	809.3					0.0	206.0	91.7	1,015.2	0.0	0.0
70.00		90.6	782.7					0.0	206.0	90.6	988.6	0.0	0.0
75.00		89.2	756.1					0.0	206.0	89.2	962.0	0.0	0.0
80.00		87.7	729.5					0.0	206.0	87.7	935.5	0.0	0.0
85.00		85.9	702.9					0.0	206.0	85.9	908.9	0.0	0.0
90.00		83.6	676.3					0.0	206.0	83.6	882.3	0.0	0.0
94.95	Bot - Section 3	41.5	643.8					0.0	204.0	41.5	847.8	0.0	0.0
95.00		37.7	10.0					0.0	1.9	37.7	11.9	0.0	0.0
99.54	Top - Section 2	41.1	951.9					0.0	186.9	41.1	1,138.7	0.0	0.0
100.00		43.7	38.5					0.0	19.1	43.7	57.6	0.0	0.0
105.00		78.7	406.2					0.0	206.0	78.7	612.1	0.0	0.0
110.00		76.2	388.4					0.0	206.0	76.2	594.4	0.0	0.0
115.00	Appurtenance(s)	73.6	370.7	487.6	0.0	23.8	2,693.6	0.0	206.0	561.2	3,270.3	0.0	0.0
120.00		70.9	353.0					0.0	193.0	70.9	545.9	0.0	0.0
125.00		35.9	335.3					0.0	193.0	35.9	528.2	0.0	0.0
125.17	Bot - Section 4	13.7	10.9					0.0	6.4	13.7	17.3	0.0	0.0
127.00	Appurtenance(s)	24.9	208.6	25.8	0.0	0.0	60.0	0.0	70.7	50.7	339.3	0.0	0.0
128.83	Top - Section 3	20.1	204.4					0.0	61.7	20.1	266.2	0.0	0.0
130.00	Appurtenance(s)	40.1	55.4	133.4	0.0	0.0	750.0	0.0	39.3	173.6	844.7	0.0	0.0
135.00	Appurtenance(s)	63.2	229.3	489.1	0.0	7.8	1,183.2	0.0	168.4	552.3	1,580.8	0.0	0.0
140.00		60.1	216.0					0.0	111.6	60.1	327.5	0.0	0.0
145.00	Appurtenance(s)	32.1	202.7	444.5	0.0	790.7	833.4	0.0	111.6	476.6	1,147.6	0.0	0.0
145.50	Appurtenance(s)	22.2	19.5	246.0	0.0	0.0	1,875.0	0.0	3.8	268.2	1,898.3	0.0	0.0
149.00		19.4	133.0					0.0	11.4	19.4	144.4	0.0	0.0
								Totals:		4,327.52	36,748.2	0.00	0.00

Site Number: 370641

Code: ANSI/TIA-222-H

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Site Name: Beacon Falls CT, CT

Engineering Number: 13668730_C3_01

4/29/2021 3:57:14 PM

Customer: VERIZON WIRELESS

Load Case: 1.0D + 1.0W

Serviceability 60 mph

22 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	-36.75	-4.28	0.00	-426.32	0.00	426.32	5,341.71	1,354.03	6,795.27	6,106.74	0.00	0.00	0.077
5.00	-35.24	-4.19	0.00	-404.91	0.00	404.91	5,257.68	1,322.03	6,477.96	5,867.53	0.01	-0.02	0.076
10.00	-33.77	-4.11	0.00	-383.94	0.00	383.94	5,171.61	1,290.04	6,168.24	5,630.68	0.04	-0.04	0.075
15.00	-32.33	-4.02	0.00	-363.42	0.00	363.42	5,083.50	1,258.04	5,866.11	5,396.35	0.09	-0.06	0.074
20.00	-30.92	-3.93	0.00	-343.32	0.00	343.32	4,993.34	1,226.05	5,571.56	5,164.71	0.17	-0.08	0.073
25.00	-29.54	-3.85	0.00	-323.65	0.00	323.65	4,901.14	1,194.05	5,284.60	4,935.92	0.26	-0.10	0.072
30.00	-28.19	-3.77	0.00	-304.39	0.00	304.39	4,806.90	1,162.06	5,005.22	4,710.14	0.38	-0.12	0.070
35.00	-26.87	-3.69	0.00	-285.54	0.00	285.54	4,710.62	1,130.06	4,733.44	4,487.55	0.53	-0.15	0.069
40.00	-25.58	-3.60	0.00	-267.11	0.00	267.11	4,612.30	1,098.07	4,469.24	4,268.32	0.69	-0.17	0.068
45.00	-24.33	-3.54	0.00	-249.10	0.00	249.10	4,511.93	1,066.07	4,212.62	4,052.61	0.88	-0.19	0.067
46.71	-23.90	-3.50	0.00	-243.05	0.00	243.05	4,466.81	1,055.15	4,126.76	3,970.57	0.95	-0.20	0.067
50.00	-22.52	-3.44	0.00	-231.53	0.00	231.53	4,377.60	1,034.08	3,963.59	3,812.78	1.09	-0.21	0.066
52.79	-21.36	-3.40	0.00	-221.92	0.00	221.92	3,632.02	888.02	3,410.01	3,174.03	1.22	-0.23	0.076
55.00	-20.89	-3.33	0.00	-214.42	0.00	214.42	3,596.86	875.90	3,317.57	3,100.03	1.33	-0.24	0.075
60.00	-19.85	-3.25	0.00	-197.74	0.00	197.74	3,515.84	848.48	3,113.10	2,934.48	1.59	-0.27	0.073
65.00	-18.83	-3.16	0.00	-181.51	0.00	181.51	3,432.77	821.05	2,915.14	2,771.69	1.89	-0.29	0.071
70.00	-17.84	-3.07	0.00	-165.72	0.00	165.72	3,347.66	793.63	2,723.68	2,611.84	2.21	-0.32	0.069
75.00	-16.88	-2.98	0.00	-150.36	0.00	150.36	3,243.59	766.20	2,538.72	2,442.34	2.56	-0.35	0.067
80.00	-15.95	-2.90	0.00	-135.44	0.00	135.44	3,127.49	738.78	2,360.26	2,269.78	2.94	-0.37	0.065
85.00	-15.04	-2.81	0.00	-120.95	0.00	120.95	3,011.40	711.35	2,188.31	2,103.54	3.34	-0.40	0.063
90.00	-14.15	-2.73	0.00	-106.88	0.00	106.88	2,895.30	683.93	2,022.86	1,943.62	3.78	-0.43	0.060
94.95	-13.30	-2.69	0.00	-93.35	0.00	93.35	2,780.28	656.76	1,865.37	1,791.43	4.24	-0.46	0.057
95.00	-13.29	-2.65	0.00	-93.23	0.00	93.23	2,779.20	656.50	1,863.91	1,790.03	4.24	-0.46	0.057
99.54	-12.15	-2.60	0.00	-81.20	0.00	81.20	1,711.73	429.78	1,198.10	1,086.74	4.69	-0.48	0.082
100.00	-12.10	-2.56	0.00	-80.00	0.00	80.00	1,707.20	428.09	1,188.67	1,079.56	4.73	-0.48	0.081
105.00	-11.48	-2.49	0.00	-67.18	0.00	67.18	1,657.18	409.81	1,089.32	1,002.81	5.26	-0.52	0.074
110.00	-10.89	-2.41	0.00	-54.75	0.00	54.75	1,605.11	391.52	994.30	927.61	5.82	-0.55	0.066
115.00	-7.62	-1.82	0.00	-42.68	0.00	42.68	1,551.00	373.24	903.62	854.11	6.41	-0.58	0.055
120.00	-7.08	-1.75	0.00	-33.57	0.00	33.57	1,494.85	354.96	817.27	782.50	7.04	-0.61	0.048
125.00	-6.55	-1.71	0.00	-24.84	0.00	24.84	1,425.26	336.68	735.26	707.26	7.70	-0.64	0.040
125.17	-6.53	-1.69	0.00	-24.55	0.00	24.55	1,422.68	336.07	732.60	704.69	7.72	-0.64	0.039
127.00	-6.19	-1.64	0.00	-21.45	0.00	21.45	1,394.30	329.36	703.67	676.72	7.96	-0.65	0.036
128.83	-5.93	-1.62	0.00	-18.44	0.00	18.44	975.56	246.56	525.75	473.84	8.21	-0.65	0.045
130.00	-5.08	-1.44	0.00	-16.55	0.00	16.55	967.13	243.36	512.20	463.60	8.37	-0.66	0.041
135.00	-3.51	-0.87	0.00	-9.36	0.00	9.36	929.74	229.65	456.11	420.37	9.08	-0.68	0.026
140.00	-3.18	-0.80	0.00	-5.03	0.00	5.03	890.31	215.94	403.28	378.30	9.79	-0.69	0.017
145.00	-2.04	-0.31	0.00	-0.23	0.00	0.23	848.83	202.23	353.69	337.57	10.52	-0.70	0.003
145.50	-0.14	-0.02	0.00	-0.07	0.00	0.07	844.57	200.86	348.91	333.57	10.59	-0.70	0.000
149.00	0.00	-0.02	0.00	0.00	0.00	0.00	809.65	191.26	316.37	304.35	11.10	-0.70	0.000

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}):	0.21
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):	1.95
Redundancy Factor (p):	1.00
Seismic Force Distribution Exponent (k):	1.73
Total Unfactored Dead Load:	36.75 k
Seismic Base Shear (E):	1.10 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)
38	147.25	144	795	0.011	12	179
37	145.25	23	125	0.002	2	29
36	142.50	314	1,634	0.022	24	390
35	137.50	328	1,602	0.022	24	407
34	132.50	398	1,824	0.025	27	494
33	129.42	95	417	0.006	6	118
32	127.92	266	1,149	0.015	17	331
31	126.08	279	1,176	0.016	17	347
30	125.08	17	72	0.001	1	22
29	122.50	528	2,116	0.028	31	656
28	117.50	546	2,036	0.027	30	678
27	112.50	577	1,995	0.027	30	716
26	107.50	594	1,901	0.026	28	738
25	102.50	612	1,803	0.024	27	761
24	99.77	58	162	0.002	2	72
23	97.27	1,139	3,065	0.041	45	1,415
22	94.98	12	31	0.000	0	15
21	92.48	848	2,091	0.028	31	1,053
20	87.50	882	1,978	0.027	29	1,096
19	82.50	909	1,841	0.025	27	1,129
18	77.50	935	1,701	0.023	25	1,162
17	72.50	962	1,559	0.021	23	1,195
16	67.50	989	1,417	0.019	21	1,228
15	62.50	1,015	1,274	0.017	19	1,261
14	57.50	1,042	1,132	0.015	17	1,294

13	53.90	469	456	0.006	7	583
12	51.40	1,154	1,033	0.014	15	1,434
11	48.35	1,385	1,116	0.015	17	1,721
10	45.85	421	310	0.004	5	523
9	42.50	1,255	809	0.011	12	1,559
8	37.50	1,286	668	0.009	10	1,598
7	32.50	1,317	535	0.007	8	1,636
6	27.50	1,348	410	0.006	6	1,675
5	22.50	1,379	297	0.004	4	1,713
4	17.50	1,410	197	0.003	3	1,752
3	12.50	1,441	113	0.002	2	1,790
2	7.50	1,472	48	0.001	1	1,829
1	2.50	1,503	7	0.000	0	1,868
Generic Flat Low Pro	145.50	1,875	10,109	0.136	150	2,330
Powerwave Allgon LGP	145.00	32	170	0.002	3	40
Powerwave Allgon 702	145.00	13	71	0.001	1	16
Powerwave Allgon LGP	145.00	85	453	0.006	7	105
Raycap DC6-48-60-18-	145.00	32	170	0.002	3	40
Ericsson RRUS 11 (Ba	145.00	150	804	0.011	12	186
Ericsson RRUS 32 B2	145.00	159	852	0.011	13	198
Allgon 7770.00	145.00	210	1,125	0.015	17	261
CCI HPA-65R-BUU-H6	145.00	153	820	0.011	12	190
Ericsson KRY 112 144	135.00	33	156	0.002	2	41
Ericsson Radio 4449	135.00	222	1,052	0.014	16	276
Ericsson AIR 21 B4A	135.00	270	1,279	0.017	19	335
Ericsson AIR 21, 1.3	135.00	275	1,301	0.017	19	341
RFS APXVAARR24_43-U-	135.00	384	1,818	0.024	27	477
Round T-Arm	130.00	750	3,329	0.045	49	932
Generic 34" x 6" Pan	127.00	60	256	0.003	4	75
Samsung B5/B13 RRH-B	115.00	141	505	0.007	7	175
Samsung B5/B13 RRH-B	115.00	141	505	0.007	7	175
Samsung B2/B66A RRH-	115.00	169	606	0.008	9	210
RFS DB-B1-6C-12AB-0Z	115.00	21	77	0.001	1	27
Samsung MT6407-77A	115.00	163	586	0.008	9	203
JMA Wireless MX06FRO	115.00	184	661	0.009	10	229
Generic Round Low Pr	115.00	1,875	6,737	0.091	100	2,330
		36,748	74,339	1.000	1,102	45,658

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)
38	147.25	144	795	0.011	12	124
37	145.25	23	125	0.002	2	20
36	142.50	314	1,634	0.022	24	269
35	137.50	328	1,602	0.022	24	281
34	132.50	398	1,824	0.025	27	341
33	129.42	95	417	0.006	6	81
32	127.92	266	1,149	0.015	17	228
31	126.08	279	1,176	0.016	17	240
30	125.08	17	72	0.001	1	15
29	122.50	528	2,116	0.028	31	453
28	117.50	546	2,036	0.027	30	468
27	112.50	577	1,995	0.027	30	495
26	107.50	594	1,901	0.026	28	510
25	102.50	612	1,803	0.024	27	525
24	99.77	58	162	0.002	2	49
23	97.27	1,139	3,065	0.041	45	977
22	94.98	12	31	0.000	0	10
21	92.48	848	2,091	0.028	31	727
20	87.50	882	1,978	0.027	29	757

Site Number: 370641

Code: ANSI/TIA-222-H

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Site Name: Beacon Falls CT, CT

Engineering Number:13668730_C3_01

4/29/2021 3:57:14 PM

Customer: VERIZON WIRELESS

19	82.50	909	1,841	0.025	27	779
18	77.50	935	1,701	0.023	25	802
17	72.50	962	1,559	0.021	23	825
16	67.50	989	1,417	0.019	21	848
15	62.50	1,015	1,274	0.017	19	871
14	57.50	1,042	1,132	0.015	17	893
13	53.90	469	456	0.006	7	402
12	51.40	1,154	1,033	0.014	15	990
11	48.35	1,385	1,116	0.015	17	1,188
10	45.85	421	310	0.004	5	361
9	42.50	1,255	809	0.011	12	1,076
8	37.50	1,286	668	0.009	10	1,103
7	32.50	1,317	535	0.007	8	1,129
6	27.50	1,348	410	0.006	6	1,156
5	22.50	1,379	297	0.004	4	1,183
4	17.50	1,410	197	0.003	3	1,209
3	12.50	1,441	113	0.002	2	1,236
2	7.50	1,472	48	0.001	1	1,262
1	2.50	1,503	7	0.000	0	1,289
Generic Flat Low Pro	145.50	1,875	10,109	0.136	150	1,608
Powerwave Allgon LGP	145.00	32	170	0.002	3	27
Powerwave Allgon 702	145.00	13	71	0.001	1	11
Powerwave Allgon LGP	145.00	85	453	0.006	7	73
Raycap DC6-48-60-18-	145.00	32	170	0.002	3	27
Ericsson RRUS 11 (Ba	145.00	150	804	0.011	12	129
Ericsson RRUS 32 B2	145.00	159	852	0.011	13	136
Allgon 7770.00	145.00	210	1,125	0.015	17	180
CCI HPA-65R-BUU-H6	145.00	153	820	0.011	12	131
Ericsson KRY 112 144	135.00	33	156	0.002	2	28
Ericsson Radio 4449	135.00	222	1,052	0.014	16	190
Ericsson AIR 21 B4A	135.00	270	1,279	0.017	19	232
Ericsson AIR 21, 1.3	135.00	275	1,301	0.017	19	235
RFS APXVAARR24_43-U-	135.00	384	1,818	0.024	27	329
Round T-Arm	130.00	750	3,329	0.045	49	643
Generic 34" x 6" Pan	127.00	60	256	0.003	4	51
Samsung B5/B13 RRH-B	115.00	141	505	0.007	7	121
Samsung B5/B13 RRH-B	115.00	141	505	0.007	7	121
Samsung B2/B66A RRH-	115.00	169	606	0.008	9	145
RFS DB-B1-6C-12AB-0Z	115.00	21	77	0.001	1	18
Samsung MT6407-77A	115.00	163	586	0.008	9	140
JMA Wireless MX06FRO	115.00	184	661	0.009	10	158
Generic Round Low Pr	115.00	1,875	6,737	0.091	100	1,608
		36,748	74,339	1.000	1,102	31,513

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	-43.79	-1.10	0.00	-125.80	0.00	125.80	5,341.71	1,354.03	6,795.27	6,106.74	0.00	0.00	0.029
5.00	-41.96	-1.11	0.00	-120.28	0.00	120.28	5,257.68	1,322.03	6,477.96	5,867.53	0.00	-0.01	0.028
10.00	-40.17	-1.11	0.00	-114.75	0.00	114.75	5,171.61	1,290.04	6,168.24	5,630.68	0.01	-0.01	0.028
15.00	-38.42	-1.11	0.00	-109.20	0.00	109.20	5,083.50	1,258.04	5,866.11	5,396.35	0.03	-0.02	0.028
20.00	-36.71	-1.11	0.00	-103.64	0.00	103.64	4,993.34	1,226.05	5,571.56	5,164.71	0.05	-0.02	0.027
25.00	-35.03	-1.11	0.00	-98.10	0.00	98.10	4,901.14	1,194.05	5,284.60	4,935.92	0.08	-0.03	0.027
30.00	-33.39	-1.10	0.00	-92.56	0.00	92.56	4,806.90	1,162.06	5,005.22	4,710.14	0.11	-0.04	0.027
35.00	-31.80	-1.09	0.00	-87.05	0.00	87.05	4,710.62	1,130.06	4,733.44	4,487.55	0.16	-0.04	0.026
40.00	-30.24	-1.08	0.00	-81.58	0.00	81.58	4,612.30	1,098.07	4,469.24	4,268.32	0.21	-0.05	0.026
45.00	-29.71	-1.08	0.00	-76.16	0.00	76.16	4,511.93	1,066.07	4,212.62	4,052.61	0.26	-0.06	0.025
46.71	-27.99	-1.07	0.00	-74.31	0.00	74.31	4,466.81	1,055.15	4,126.76	3,970.57	0.28	-0.06	0.025
50.00	-26.56	-1.05	0.00	-70.80	0.00	70.80	4,377.60	1,034.08	3,963.59	3,812.78	0.33	-0.06	0.025
52.79	-25.98	-1.05	0.00	-67.87	0.00	67.87	3,632.02	888.02	3,410.01	3,174.03	0.37	-0.07	0.029
55.00	-24.68	-1.03	0.00	-65.56	0.00	65.56	3,596.86	875.90	3,317.57	3,100.03	0.40	-0.07	0.028
60.00	-23.42	-1.01	0.00	-60.42	0.00	60.42	3,515.84	848.48	3,113.10	2,934.48	0.48	-0.08	0.027
65.00	-22.19	-0.99	0.00	-55.36	0.00	55.36	3,432.77	821.05	2,915.14	2,771.69	0.57	-0.09	0.026
70.00	-21.00	-0.97	0.00	-50.40	0.00	50.40	3,347.66	793.63	2,723.68	2,611.84	0.67	-0.10	0.026
75.00	-19.83	-0.95	0.00	-45.54	0.00	45.54	3,243.59	766.20	2,538.72	2,442.34	0.77	-0.11	0.025
80.00	-18.70	-0.92	0.00	-40.82	0.00	40.82	3,127.49	738.78	2,360.26	2,269.78	0.89	-0.11	0.024
85.00	-17.61	-0.89	0.00	-36.22	0.00	36.22	3,011.40	711.35	2,188.31	2,103.54	1.01	-0.12	0.023
90.00	-16.55	-0.86	0.00	-31.77	0.00	31.77	2,895.30	683.93	2,022.86	1,943.62	1.14	-0.13	0.022
94.95	-16.54	-0.86	0.00	-27.52	0.00	27.52	2,780.28	656.76	1,865.37	1,791.43	1.28	-0.14	0.021
95.00	-15.12	-0.81	0.00	-27.48	0.00	27.48	2,779.20	656.50	1,863.91	1,790.03	1.28	-0.14	0.021
99.54	-15.05	-0.81	0.00	-23.79	0.00	23.79	1,711.73	429.78	1,198.10	1,086.74	1.42	-0.14	0.031
100.00	-14.29	-0.78	0.00	-23.42	0.00	23.42	1,707.20	428.09	1,188.67	1,079.56	1.43	-0.15	0.030
105.00	-13.55	-0.76	0.00	-19.50	0.00	19.50	1,657.18	409.81	1,089.32	1,002.81	1.59	-0.16	0.028
110.00	-12.84	-0.73	0.00	-15.73	0.00	15.73	1,605.11	391.52	994.30	927.61	1.76	-0.17	0.025
115.00	-8.81	-0.54	0.00	-12.10	0.00	12.10	1,551.00	373.24	903.62	854.11	1.94	-0.17	0.020
120.00	-8.16	-0.51	0.00	-9.39	0.00	9.39	1,494.85	354.96	817.27	782.50	2.12	-0.18	0.017
125.00	-8.14	-0.51	0.00	-6.84	0.00	6.84	1,425.26	336.68	735.26	707.26	2.32	-0.19	0.015
125.17	-7.79	-0.49	0.00	-6.76	0.00	6.76	1,422.68	336.07	732.60	704.69	2.33	-0.19	0.015
127.00	-7.38	-0.47	0.00	-5.86	0.00	5.86	1,394.30	329.36	703.67	676.72	2.40	-0.19	0.014
128.83	-7.27	-0.46	0.00	-5.00	0.00	5.00	975.56	246.56	525.75	473.84	2.47	-0.19	0.018
130.00	-5.84	-0.38	0.00	-4.46	0.00	4.46	967.13	243.36	512.20	463.60	2.52	-0.20	0.016
135.00	-3.96	-0.27	0.00	-2.56	0.00	2.56	929.74	229.65	456.11	420.37	2.73	-0.20	0.010
140.00	-3.57	-0.24	0.00	-1.22	0.00	1.22	890.31	215.94	403.28	378.30	2.94	-0.20	0.007
145.00	-0.18	-0.01	0.00	-0.01	0.00	0.01	848.83	202.23	353.69	337.57	3.16	-0.21	0.000
145.50	0.00	0.00	0.00	0.00	0.00	0.00	844.57	200.86	348.91	333.57	3.18	-0.21	0.000
149.00	0.00	0.00	0.00	0.00	0.00	0.00	809.65	191.26	316.37	304.35	3.33	-0.21	0.000

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	-30.22	-1.10	0.00	-124.56	0.00	124.56	5,341.71	1,354.03	6,795.27	6,106.74	0.00	0.00	0.026
5.00	-28.96	-1.11	0.00	-119.04	0.00	119.04	5,257.68	1,322.03	6,477.96	5,867.53	0.00	-0.01	0.026
10.00	-27.73	-1.11	0.00	-113.51	0.00	113.51	5,171.61	1,290.04	6,168.24	5,630.68	0.01	-0.01	0.026
15.00	-26.52	-1.11	0.00	-107.98	0.00	107.98	5,083.50	1,258.04	5,866.11	5,396.35	0.03	-0.02	0.025
20.00	-25.33	-1.10	0.00	-102.45	0.00	102.45	4,993.34	1,226.05	5,571.56	5,164.71	0.05	-0.02	0.025
25.00	-24.18	-1.10	0.00	-96.93	0.00	96.93	4,901.14	1,194.05	5,284.60	4,935.92	0.08	-0.03	0.025
30.00	-23.05	-1.09	0.00	-91.43	0.00	91.43	4,806.90	1,162.06	5,005.22	4,710.14	0.11	-0.04	0.024
35.00	-21.95	-1.09	0.00	-85.96	0.00	85.96	4,710.62	1,130.06	4,733.44	4,487.55	0.16	-0.04	0.024
40.00	-20.87	-1.08	0.00	-80.53	0.00	80.53	4,612.30	1,098.07	4,469.24	4,268.32	0.20	-0.05	0.023
45.00	-20.51	-1.07	0.00	-75.15	0.00	75.15	4,511.93	1,066.07	4,212.62	4,052.61	0.26	-0.06	0.023
46.71	-19.32	-1.06	0.00	-73.32	0.00	73.32	4,466.81	1,055.15	4,126.76	3,970.57	0.28	-0.06	0.023
50.00	-18.33	-1.04	0.00	-69.84	0.00	69.84	4,377.60	1,034.08	3,963.59	3,812.78	0.32	-0.06	0.023
52.79	-17.93	-1.03	0.00	-66.94	0.00	66.94	3,632.02	888.02	3,410.01	3,174.03	0.36	-0.07	0.026
55.00	-17.03	-1.02	0.00	-64.65	0.00	64.65	3,596.86	875.90	3,317.57	3,100.03	0.40	-0.07	0.026
60.00	-16.16	-1.00	0.00	-59.56	0.00	59.56	3,515.84	848.48	3,113.10	2,934.48	0.47	-0.08	0.025
65.00	-15.32	-0.98	0.00	-54.55	0.00	54.55	3,432.77	821.05	2,915.14	2,771.69	0.56	-0.09	0.024
70.00	-14.49	-0.96	0.00	-49.65	0.00	49.65	3,347.66	793.63	2,723.68	2,611.84	0.66	-0.10	0.023
75.00	-13.69	-0.93	0.00	-44.86	0.00	44.86	3,243.59	766.20	2,538.72	2,442.34	0.76	-0.10	0.023
80.00	-12.91	-0.91	0.00	-40.19	0.00	40.19	3,127.49	738.78	2,360.26	2,269.78	0.88	-0.11	0.022
85.00	-12.15	-0.88	0.00	-35.65	0.00	35.65	3,011.40	711.35	2,188.31	2,103.54	1.00	-0.12	0.021
90.00	-11.43	-0.85	0.00	-31.27	0.00	31.27	2,895.30	683.93	2,022.86	1,943.62	1.13	-0.13	0.020
94.95	-11.41	-0.85	0.00	-27.07	0.00	27.07	2,780.28	656.76	1,865.37	1,791.43	1.26	-0.14	0.019
95.00	-10.44	-0.80	0.00	-27.03	0.00	27.03	2,779.20	656.50	1,863.91	1,790.03	1.27	-0.14	0.019
99.54	-10.39	-0.80	0.00	-23.40	0.00	23.40	1,711.73	429.78	1,198.10	1,086.74	1.40	-0.14	0.028
100.00	-9.86	-0.77	0.00	-23.03	0.00	23.03	1,707.20	428.09	1,188.67	1,079.56	1.41	-0.14	0.027
105.00	-9.35	-0.74	0.00	-19.18	0.00	19.18	1,657.18	409.81	1,089.32	1,002.81	1.57	-0.15	0.025
110.00	-8.86	-0.71	0.00	-15.46	0.00	15.46	1,605.11	391.52	994.30	927.61	1.74	-0.16	0.022
115.00	-6.08	-0.53	0.00	-11.89	0.00	11.89	1,551.00	373.24	903.62	854.11	1.91	-0.17	0.018
120.00	-5.63	-0.50	0.00	-9.23	0.00	9.23	1,494.85	354.96	817.27	782.50	2.10	-0.18	0.016
125.00	-5.61	-0.50	0.00	-6.73	0.00	6.73	1,425.26	336.68	735.26	707.26	2.29	-0.19	0.013
125.17	-5.37	-0.48	0.00	-6.64	0.00	6.64	1,422.68	336.07	732.60	704.69	2.30	-0.19	0.013
127.00	-5.10	-0.46	0.00	-5.76	0.00	5.76	1,394.30	329.36	703.67	676.72	2.37	-0.19	0.012
128.83	-5.01	-0.45	0.00	-4.92	0.00	4.92	975.56	246.56	525.75	473.84	2.44	-0.19	0.016
130.00	-4.03	-0.37	0.00	-4.39	0.00	4.39	967.13	243.36	512.20	463.60	2.49	-0.19	0.014
135.00	-2.73	-0.26	0.00	-2.52	0.00	2.52	929.74	229.65	456.11	420.37	2.69	-0.20	0.009
140.00	-2.47	-0.24	0.00	-1.20	0.00	1.20	890.31	215.94	403.28	378.30	2.90	-0.20	0.006
145.00	-0.12	-0.01	0.00	-0.01	0.00	0.01	848.83	202.23	353.69	337.57	3.11	-0.20	0.000
145.50	0.00	0.00	0.00	0.00	0.00	0.00	844.57	200.86	348.91	333.57	3.14	-0.20	0.000
149.00	0.00	0.00	0.00	0.00	0.00	0.00	809.65	191.26	316.37	304.35	3.28	-0.20	0.000

Site Number: 370641

Code: ANSI/TIA-222-H

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Site Name: Beacon Falls CT, CT

Engineering Number: 13668730_C3_01

4/29/2021 3:57:14 PM

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	18.52	0.00	44.08	0.00	0.00	1852.54	99.54	0.33
0.9D + 1.0W	18.51	0.00	33.06	0.00	0.00	1837.57	99.54	0.33
1.2D + 1.0Di + 1.0Wi	5.18	0.00	55.78	0.00	0.00	502.98	99.54	0.10
1.2D + 1.0Ev + 1.0Eh	1.10	0.00	43.79	0.00	0.00	125.80	99.54	0.03
0.9D - 1.0Ev + 1.0Eh	1.10	0.00	30.22	0.00	0.00	124.56	99.54	0.03
1.0D + 1.0W	4.28	0.00	36.75	0.00	0.00	426.32	99.54	0.08

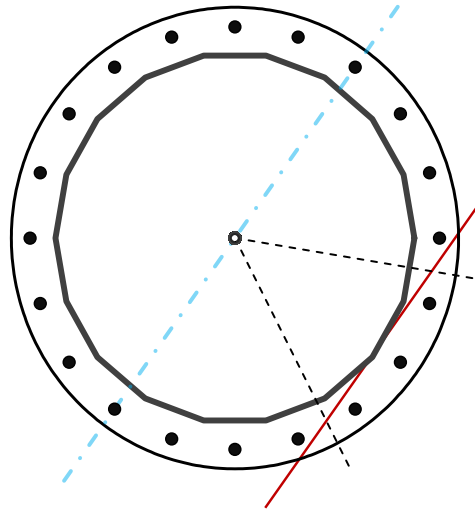
Base Plate & Anchor Rod Analysis

Pole Dimensions		
Number of Sides	18	-
Diameter	56	in
Thickness	0.4375	in
Orientation Offset	0	°

Base Reactions		
Moment, Mu	1852.5	k-ft
Axial, Pu	44.1	k
Shear, Vu	18.5	k
Neutral Axis	234	°

Report Capacities		
Component	Capacity	Result
Base Plate	17%	Pass
Anchor Rods	30%	Pass
Dwyidag	-	-

Base Plate		
Shape	Round	-
Diameter, ϕ	71	in
Thickness	2 1/2	in
Grade	A572-60	
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	3	in
Applied Moment, Mu	477.2	k
Bending Stress, ϕMn	2767.5	k



Original Anchor Rods		
Arrangement	Radial	-
Quantity	20	-
Diameter, ϕ	2 1/4	in
Bolt Circle	65	in
Grade	A615-75	
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Spacing	10.2	in
Orientation Offset	0	°
Applied Force, Pu	73.2	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	18.5	1852.5	1.00
Anchor Rod Forces	18.5	1852.5	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	75.9806	4.2211	0.2704		29325.69
Bolt	3.9761	3.2477	0.8393	4.5	31859.49
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	Round	-
Diameter, D	71	in
Thickness, t	2.5	in
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	75	ksi
Base Plate Chord	43.646	in
Detail Type	d	-
Detail Factor	0.50	-
Clear Distance	3	-

Anchor Rods		
Anchor Rod Quantity, N	20	-
Rod Diameter, d	2.25	in
Bolt Circle, BC	65	in
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Applied Axial, Pu	73.2	k
Applied Shear, Vu	0.5	k
Compressive Capacity, φPn	243.6	k
Tensile Capacity, φRnt	0.300	OK
Interaction Capacity	0.304	OK

External Base Plate		
Chord Length AA	37.500	in
Additional AA	5.000	in
Section Modulus, Z	66.406	in ³
Applied Moment, Mu	477.2	k-ft
Bending Capacity, φMn	3585.9	k-ft
Capacity, Mu/φMn	0.133	OK
Chord Length AB	36.170	in
Additional AB	5.000	in
Section Modulus, Z	64.329	in ³
Applied Moment, Mu	385.1	k-ft
Bending Capacity, φMn	3473.8	k-ft
Capacity, Mu/φMn	0.111	OK
Bend Line Length	32.800	in
Additional Bend Line	0.000	in
Section Modulus, Z	51.250	in ³
Applied Moment, Mu	477.2	k-ft
Bending Capacity, φMn	2767.5	k-ft
Capacity, Mu/φMn	0.172	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, φMn	0.0	k-ft
Capacity, Mu/φMn		



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Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10073432
Maser Consulting Connecticut Project #: 21777533A

June 24, 2021

Site Information

Site ID: 470974-VZW / BEACON FALLS 2 CT-Town Monopole
Site Name: BEACON FALLS 2 CT-Town Monopole
Carrier Name: Verizon Wireless
Address: 401 Lopus Road
Beacon Falls, Connecticut 06403
New Haven County
Latitude: 41.43276833°
Longitude: -73.07031527°

Structure Information

Tower Type: Monopole
Mount Type: 14.58-Ft Platform

FUZE ID # 16244162

Analysis Results

Platform: 40.7% Pass

***Contractor PMI Requirements:

Included at the end of this MA report

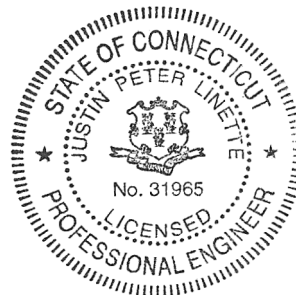
Available & Submitted via portal at <https://pmi.vzwsmart.com>

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: Frank Centone



Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS Site ID: 2560803, dated March 16, 2021
Mount Mapping Report	FDH Infrastructure Services, LLC, Site ID: 470974, dated April 10, 2021
Previous Mount Analysis Report	Maser Consulting Connecticut Project #: 21777533A, dated June 1, 2021
Mount Modification Drawings	Maser Consulting Connecticut Project #: 21777533A, dated June 24, 2021

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 118 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 : 0.994
Seismic Parameters:	S_s : 0.199 S_1 : 0.054
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
113.5	115.0	2	Samsung	MT6407-77A	Added
		4	JMA Wireless	MX06FRO660-03	Retained
		2	Raycap	RRFDC-3315-PF-48	
		2	Samsung	B2/B66A RRH-BR049	
		2	Samsung	B5/B13 RRH-BR04C	

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:
- Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - HSS (Rectangular) ASTM 500 (Gr. B-46)
 - Pipe ASTM A53 (Gr. B-35)
 - Threaded Rod F1554 (Gr. 36)
 - 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 Horizontal	20.6 %	Pass
Face Horizontal	11.0 %	Pass
Platform Crossmember	11.3 %	Pass
Corner Plate	22.4 %	Pass
Grating Support	11.4 %	Pass
Cross Arm Plate	40.7 %	Pass
Kickers	11.5 %	Pass
Mount Pipe	19.5 %	Pass
OVP Pipe	4.7 %	Pass
Support Rail	14.1 %	Pass
Support Rail Corner	28.5 %	Pass
Connection Check	19.5%	Pass

Structure Rating – (Controlling Utilization of all Components)	40.7%
---	--------------

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:

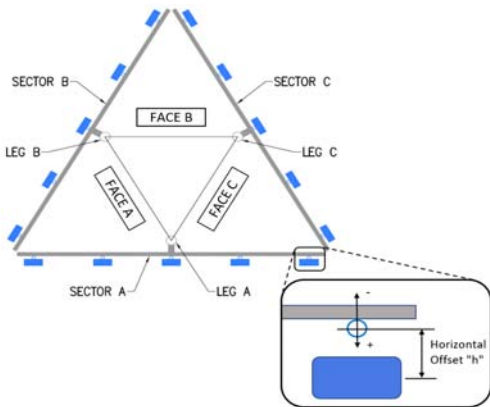
1. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
- 4. Contractor Required PMI Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption and Wind Speed Usage Letter



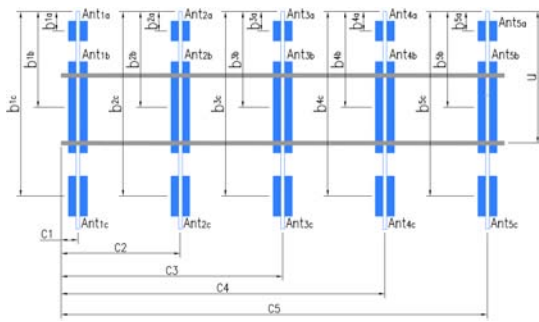
	Antenna Mount Mapping Form (PATENT PENDING)			FCC #
	Tower Owner:	ATC	Mapping Date:	
Site Name:	Beacon Falls 2 CT	Tower Type:	Monopole	
Site Number or ID:	470974	Tower Height (Ft.):		
Mapping Contractor:	FDH Infrastructure Services, LLC	Mount Elevation (Ft.):	115	

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.

Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	2.9"Ø x 3/16" x 96"	58.00	13.00	C1			
A2	2.9"Ø x 3/16" x 96"	58.00	62.00	C2			
A3	2.9"Ø x 3/16" x 96"	58.00	111.00	C3			
A4	2.9"Ø x 3/16" x 96"	58.00	160.00	C4			
A5				C5			
A6	2.4"Ø x 3/16" x 24" standoff pipe	24.00		C6			
B1	2.9"Ø x 3/16" x 96"	58.00	13.00	D1			
B2	2.9"Ø x 3/16" x 96"	58.00	62.00	D2			
B3	2.9"Ø x 3/16" x 96"	58.00	111.00	D3			
B4	2.9"Ø x 3/16" x 96"	58.00	160.00	D4			
B5				D5			
B6	2.4"Ø x 3/16" x 24" standoff pipe	24.00		D6			
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :							0.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.):							
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.):							
Please enter additional information or comments below.							
(2) 1 1/2"Ø (pic 32)							
Tower Face Width at Mount Elev. (ft.):				Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):			

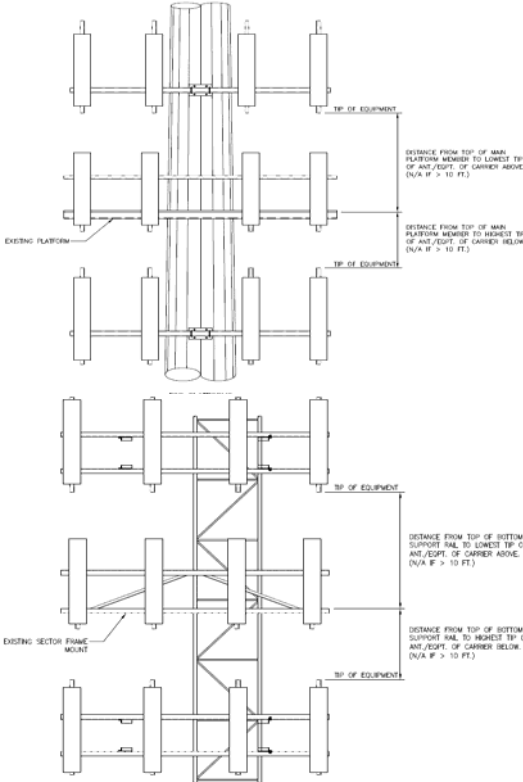


Ants. Items	Enter antenna model. If not labeled, enter "Unknown".					Mounting Locations [Units are inches and degrees]			Photos of antennas	
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b _{1a} , b _{2a} , b _{3a} , b _{1b} ,..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
Sector A										
Ant _{1a}										
Ant _{1b}										
Ant _{1c}										
Ant _{2a}	JMA MX06FRO660-03	15.00	10.50	72.00		116.5	40.00	12.00	40.00	233
Ant _{2b}	JMA MX06FRO660-03	15.00	10.50	72.00		116.5	40.00	12.00	40.00	233
Ant _{2c}										
Ant _{3a}	Samsung RFV01U-D2	16.00	10.00	15.00		118.833	12.00	-9.00	40.00	284
Ant _{3b}	Samsung RFV01U-D1	16.00	12.00	15.00		116.25	43.00	-10.00	40.00	293
Ant _{3c}										
Ant _{4a}										
Ant _{4b}										
Ant _{4c}										
Ant _{5a}										
Ant _{5b}										
Ant _{5c}										
Ant on Standoff	Raycap RRFDC-3315-F	15.00	10.00	19.00			-10.00	7.00	0.00	231
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:	60.00	Deg	Leg A:		Deg	Ant _{1a}													
Sector B:	180.00	Deg	Leg B:		Deg	Ant _{1b}													
Sector C:	300.00	Deg	Leg C:		Deg	Ant _{2a}	JMA MX06FRO660-03	15.00	10.50	72.00		116.5	40.00	12.00	180.00	243			
Sector D:		Deg	Leg D:		Deg	Ant _{2b}	JMA MX06FRO660-03	15.00	10.50	72.00		116.5	40.00	12.00	180.00	243			
Climbing Facility Information						Ant _{2c}													
Location:	Flat 1	Deg	Sector B			Ant _{3a}	Samsung RFV01U-D2	16.00	10.00	15.00		118.833	12.00	-9.00	180.00	325			
Climbing Facility	Corrosion Type:		Good condition.			Ant _{3b}	Samsung RFV01U-D1	16.00	12.00	15.00		116.25	43.00	-10.00	180.00	327			
	Access:		Climbing path was unobstructed.			Ant _{3c}													
	Condition:		Good condition.			Ant _{4a}													
						Ant _{4b}													
						Ant _{4c}													
						Ant _{5a}													
						Ant _{5b}													
						Ant _{5c}													
						Ant on Standoff	Raycap RRFDC-3315-f	15.00	10.00	19.00			-10.00	7.00	120.00	240			
						Ant on Standoff													
						Ant on Tower													
						Ant on Tower													
						Sector C													
						Ant _{1a}													
						Ant _{1b}													
						Ant _{1c}													
						Ant _{2a}													
						Ant _{2b}													
						Ant _{2c}													
						Ant _{3a}													
						Ant _{3b}													
						Ant _{3c}													
						Ant _{4a}													
						Ant _{4b}													
						Ant _{4c}													
						Ant _{5a}													
						Ant _{5b}													
						Ant _{5c}													
						Ant on Standoff													
						Ant on Standoff													
						Ant on Tower													
						Ant on Tower													
						Sector D													
						Ant _{1a}													
						Ant _{1b}													
						Ant _{1c}													
						Ant _{2a}													
						Ant _{2b}													
						Ant _{2c}													
						Ant _{3a}													
						Ant _{3b}													
						Ant _{3c}													
						Ant _{4a}													
						Ant _{4b}													
						Ant _{4c}													
						Ant _{5a}													
						Ant _{5b}													
						Ant _{5c}													
						Ant on Standoff													
						Ant on Standoff													
						Ant on Tower													
						Ant on Tower													



Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #

1		
2		
3		
4		
5		
6		
7		
8		

Mapping Notes

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

Standard Conditions

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

Antenna Mount Mapping Form (PATENT PENDING)

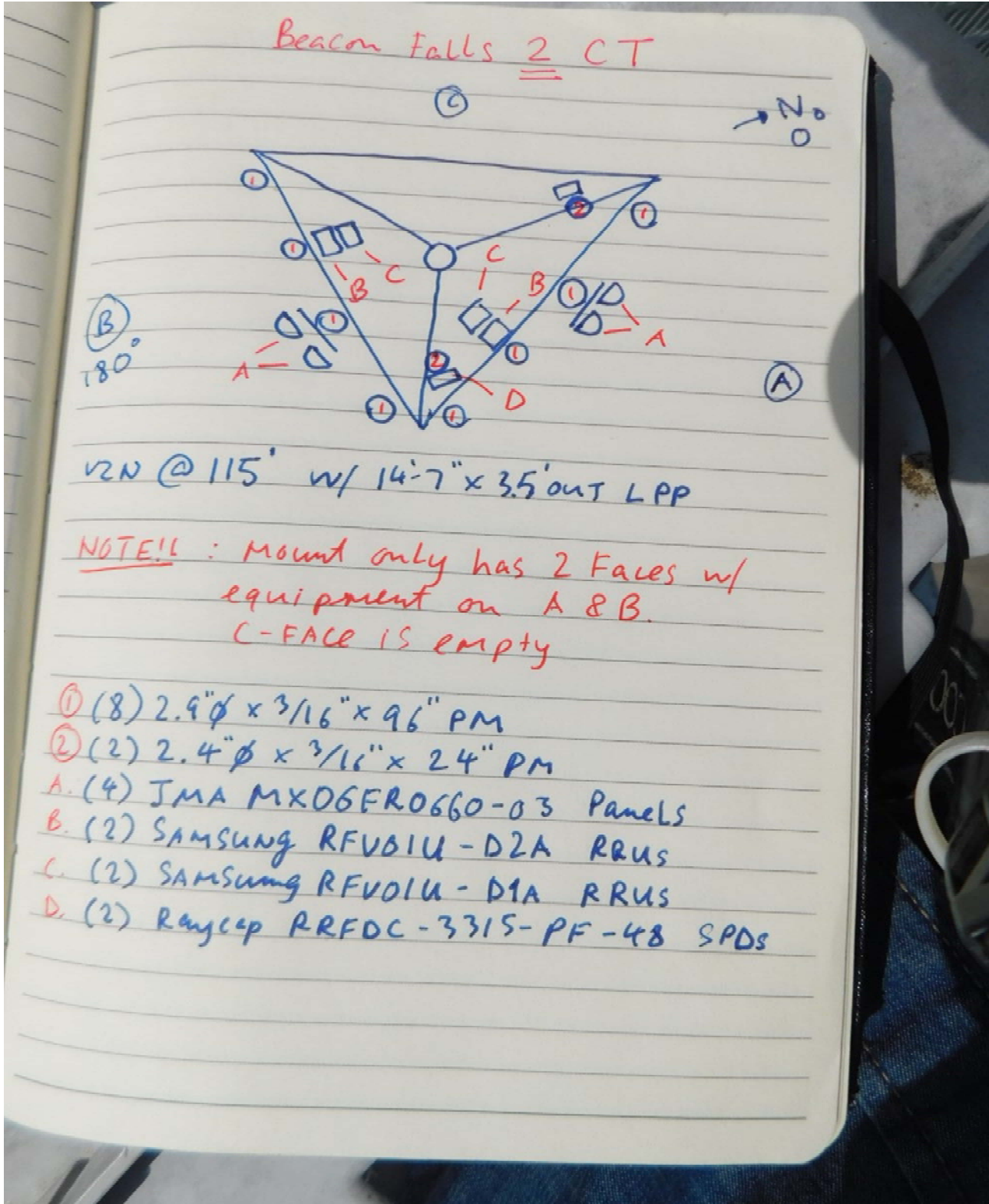
FCC #



Tower Owner:	ATC	Mapping Date:	
Site Name:	Beacon Falls 2 CT	Tower Type:	Monopole
Site Number or ID:	470974	Tower Height (FT):	
Mapping Contractor:	FDH Infrastructure Services, LLC	Mount Elevation (FT):	115

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Please Insert Sketches of the Antenna Mount

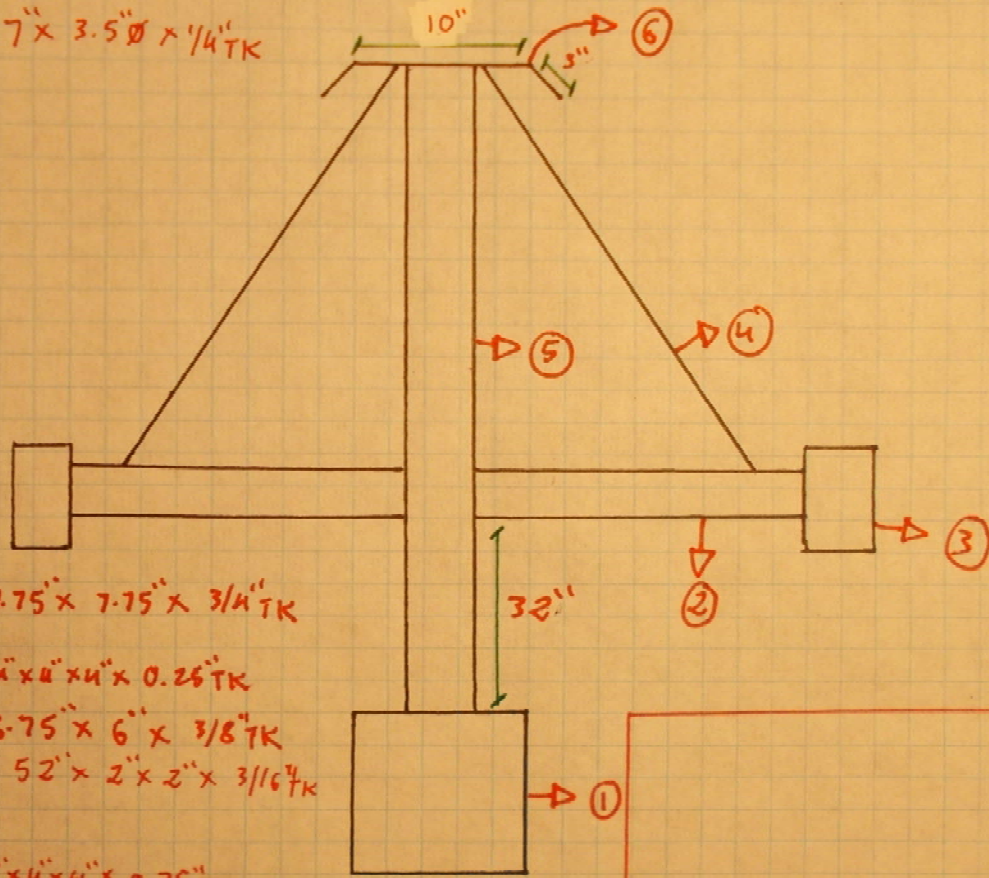


Beacon Falls 2 CT

Top view

No Kicker
No Handrail

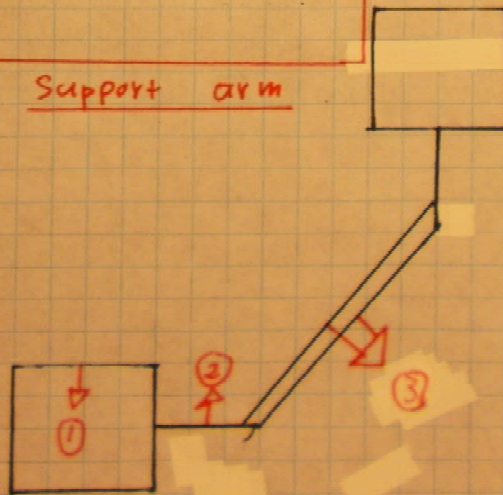
Footrails: 14'-7" x 3.5" Ø x 1/4" TK

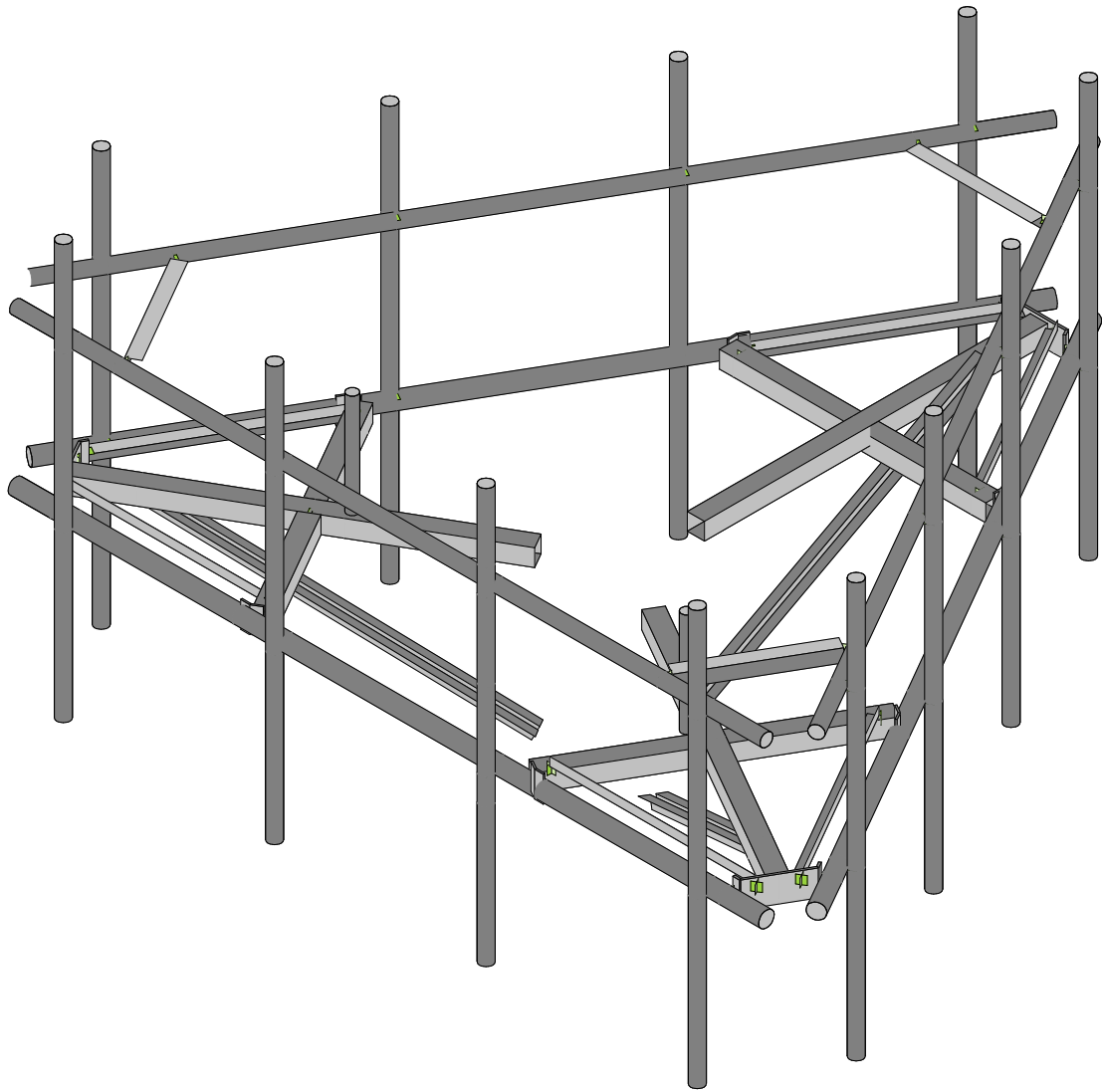
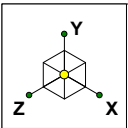


- ① plate: 7.75" x 7.75" x 3/4" TK
- ② Square: 28.5" x 4" x 4" x 4" x 4" x 0.26" TK
- ③ plate: 8.75" x 6" x 3/8" TK
- ④ L-shape: 52" x 2" x 2" x 3/16" TK
- ⑤ Square: 77" x 4" x 4" x 4" x 4" x 0.25" TK
- ⑥ plate: 16" x 6" x 1/2" TK

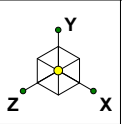
Support arm

- ① plate: 8" x 8" x 1/2" TK
- ② plate: 8" x 4" x 1/2" TK
- ③ (2) L-shape: 7" x 2.5" x 2.5" x 3/16" TK

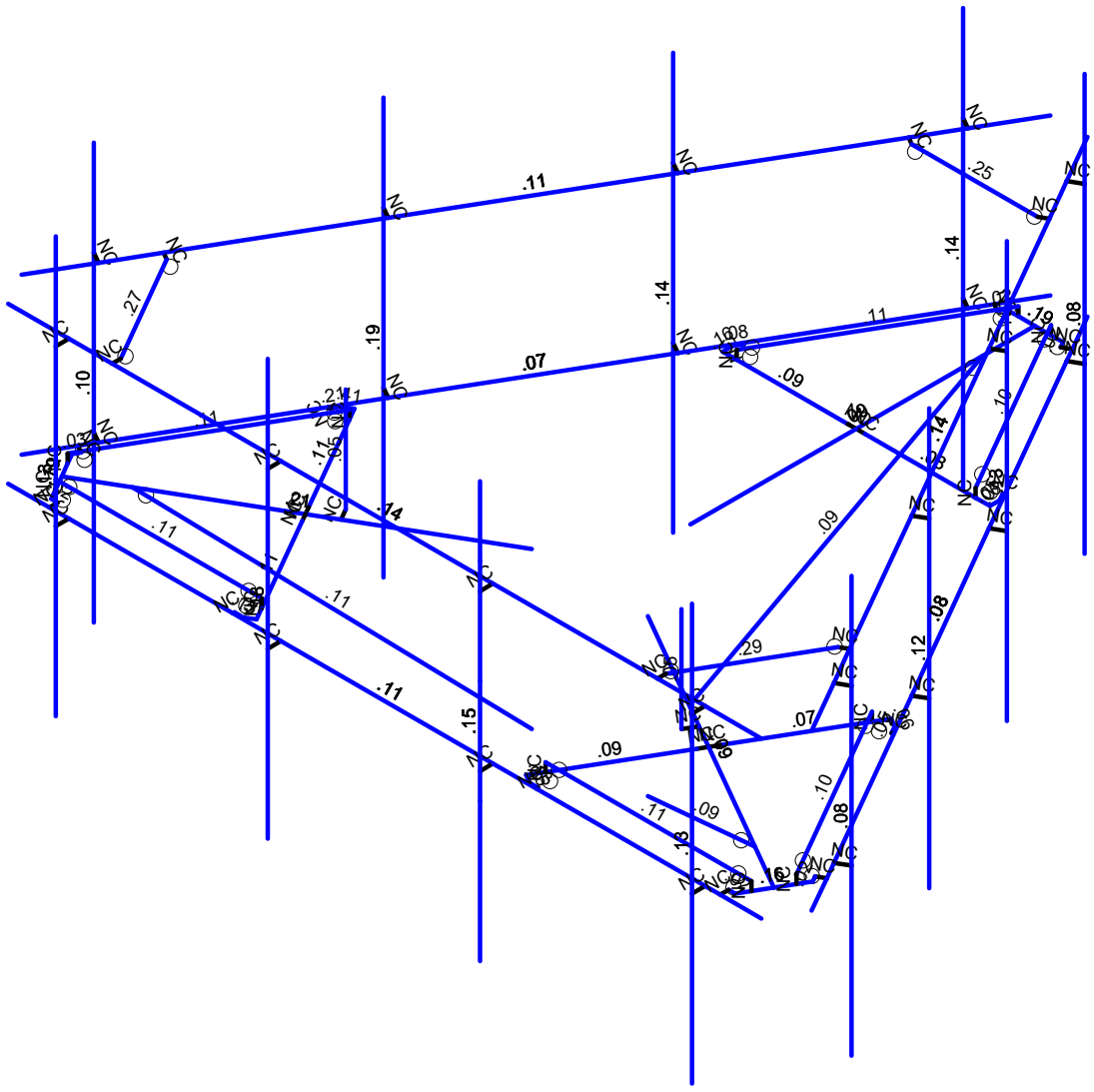




Maser Consulting	470974-VZW	SK - 1
FAC		June 22, 2021 at 7:49 PM
16244162		MOD_470974-VZW_MT_LO_H.r3d

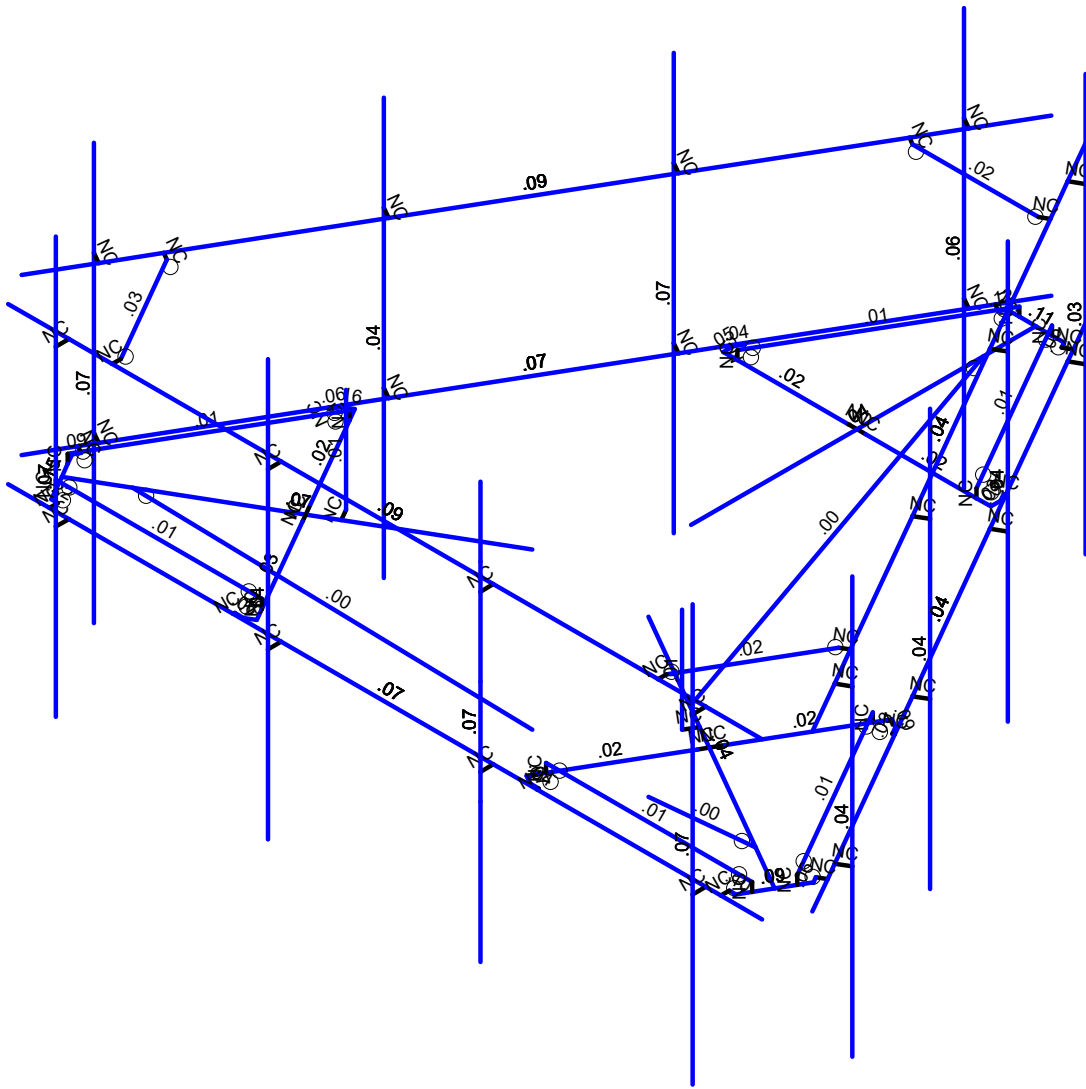
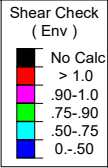
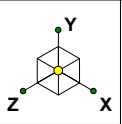


Code Check (Env)	
Black	No Calc
Red	> 1.0
Magenta	.90-1.0
Green	.75-.90
Cyan	.50-.75
Blue	0-.50



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

Maser Consulting	470974-VZW	SK - 2
FAC		June 22, 2021 at 7:49 PM
16244162		MOD_470974-VZW_MT_LO_H.r3d



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

Maser Consulting	470974-VZW	SK - 3
FAC		June 22, 2021 at 7:49 PM
16244162		MOD_470974-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					54		
2	Antenna Di	None					54		
3	Antenna Wo (0 Deg)	None					54		
4	Antenna Wo (30 Deg)	None					54		
5	Antenna Wo (60 Deg)	None					54		
6	Antenna Wo (90 Deg)	None					54		
7	Antenna Wo (120 Deg)	None					54		
8	Antenna Wo (150 Deg)	None					54		
9	Antenna Wo (180 Deg)	None					54		
10	Antenna Wo (210 Deg)	None					54		
11	Antenna Wo (240 Deg)	None					54		
12	Antenna Wo (270 Deg)	None					54		
13	Antenna Wo (300 Deg)	None					54		
14	Antenna Wo (330 Deg)	None					54		
15	Antenna Wi (0 Deg)	None					54		
16	Antenna Wi (30 Deg)	None					54		
17	Antenna Wi (60 Deg)	None					54		
18	Antenna Wi (90 Deg)	None					54		
19	Antenna Wi (120 Deg)	None					54		
20	Antenna Wi (150 Deg)	None					54		
21	Antenna Wi (180 Deg)	None					54		
22	Antenna Wi (210 Deg)	None					54		
23	Antenna Wi (240 Deg)	None					54		
24	Antenna Wi (270 Deg)	None					54		
25	Antenna Wi (300 Deg)	None					54		
26	Antenna Wi (330 Deg)	None					54		
27	Antenna Wm (0 Deg)	None					54		
28	Antenna Wm (30 Deg)	None					54		
29	Antenna Wm (60 Deg)	None					54		
30	Antenna Wm (90 Deg)	None					54		
31	Antenna Wm (120 Deg)	None					54		
32	Antenna Wm (150 Deg)	None					54		
33	Antenna Wm (180 Deg)	None					54		
34	Antenna Wm (210 Deg)	None					54		
35	Antenna Wm (240 Deg)	None					54		
36	Antenna Wm (270 Deg)	None					54		
37	Antenna Wm (300 Deg)	None					54		
38	Antenna Wm (330 Deg)	None					54		
39	Structure D	None		-1					3
40	Structure Di	None						62	3
41	Structure Wo (0 Deg)	None						124	
42	Structure Wo (30 Deg)	None						124	
43	Structure Wo (60 Deg)	None						124	
44	Structure Wo (90 Deg)	None						124	
45	Structure Wo (120 D...	None						124	
46	Structure Wo (150 D...	None						124	
47	Structure Wo (180 D...	None						124	
48	Structure Wo (210 D...	None						124	
49	Structure Wo (240 D...	None						124	
50	Structure Wo (270 D...	None						124	
51	Structure Wo (300 D...	None						124	
52	Structure Wo (330 D...	None						124	
53	Structure Wi (0 Deg)	None						124	
54	Structure Wi (30 Deg)	None						124	
55	Structure Wi (60 Deg)	None						124	
56	Structure Wi (90 Deg)	None						124	



Company : Maser Consulting
 Designer : FAC
 Job Number : 16244162
 Model Name : 470974-VZW

June 22, 2021
 7:49 PM
 Checked By: _____

Load Combinations (Continued)

Description	Sol.	PD	SR	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.
27	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	77	1.5	29	1	67	1
28	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	77	1.5	30	1	68	1
29	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	77	1.5	31	1	69	1
30	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	77	1.5	32	1	70	1
31	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	77	1.5	33	1	71	1
32	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	77	1.5	34	1	72	1
33	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	77	1.5	35	1	73	1
34	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	77	1.5	36	1	74	1
35	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	77	1.5	37	1	75	1
36	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	77	1.5	38	1	76	1
37	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	78	1.5	27	1	65	1
38	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	78	1.5	28	1	66	1
39	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	78	1.5	29	1	67	1
40	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	78	1.5	30	1	68	1
41	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	78	1.5	31	1	69	1
42	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	78	1.5	32	1	70	1
43	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	78	1.5	33	1	71	1
44	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	78	1.5	34	1	72	1
45	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	78	1.5	35	1	73	1
46	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	78	1.5	36	1	74	1
47	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	78	1.5	37	1	75	1
48	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	78	1.5	38	1	76	1
49	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	79	1.5				
50	1.2D + 1.5..	Yes	Y	1	1.2	39	1.2	80	1.5				
51	1.4D	Yes	Y	1	1.4	39	1.4						
52	Seismic M...		Y	1	1	39	1						
53	1.2D + 1.0..		Y	1	1.2	39	1.2	SX		SY	1	SZ	-1
54	1.2D + 1.0..		Y	1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866
55	1.2D + 1.0..		Y	1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5
56	1.2D + 1.0..		Y	1	1.2	39	1.2	SX	1	SY	1	SZ	
57	1.2D + 1.0..		Y	1	1.2	39	1.2	SX	.866	SY	1	SZ	.5
58	1.2D + 1.0..		Y	1	1.2	39	1.2	SX	.5	SY	1	SZ	.866
59	1.2D + 1.0..		Y	1	1.2	39	1.2	SX		SY	1	SZ	1
60	1.2D + 1.0..		Y	1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866
61	1.2D + 1.0..		Y	1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5
62	1.2D + 1.0..		Y	1	1.2	39	1.2	SX	-1	SY	1	SZ	
63	1.2D + 1.0..		Y	1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5
64	1.2D + 1.0..		Y	1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.866

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	CP	0	0	0	0	
2	N21	-1.118614	0	0.645832	0	
3	N26A	-3.881553	0	2.241015	0	
4	N29A	-6.856104	0	3.958373	0	
5	N36	-7.249996	0	4.595516	0	
6	N53A	7.249996	0	4.595516	0	
7	N49A	7.604831	0	3.980923	0	
8	N50	0.354835	0	-8.576439	0	
9	N51A	-0.354835	0	-8.576439	0	
10	N52A	-7.604831	0	3.980923	0	
11	N79A	-2.595102	0	4.46922	0	
12	N80A	-5.031241	0.166667	0.249703	0	
13	N81A	-2.731871	0.166667	4.232328	0	
14	N84A	-5.031241	0	0.249703	0	



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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
15	N85A	-2.731871	0	4.232328	0	
16	N86A	-7.01393	0.166667	3.683827	0	
17	N87A	-6.698628	0.166667	4.232325	0	
18	N88A	-7.014618	0	3.683827	0	
19	N89_1	-6.697942	0	4.232325	0	
20	N90_1	-5.168011	0	0.01281	0	
21	N91_1	-3.798223	0	2.385353	0	
22	N92_1	-3.96489	0	2.096678	0	
23	N95_1	-7.129545	0	3.484766	0	
24	N96_1	-6.58267	0	4.431981	0	
25	N112	-2.757481	0	4.56297	0	
26	N113	-5.330391	0	0.10656	0	
27	N116	-2.924148	0	4.56297	0	
28	N120	-2.924148	0	4.595516	0	
29	N120A	-6.45767	0	4.431981	0	
30	N124	-6.45767	0	4.595516	0	
31	N145	-5.413724	0	0.250898	0	
32	N147	-5.441909	0	0.234625	0	
33	N149	-7.067045	0	3.376513	0	
34	N151	-7.20867	0	3.294745	0	
35	N84B	1.118614	0	0.645832	0	
36	N85B	3.881553	0	2.241015	0	
37	N86B	6.856104	0	3.958373	0	
38	N87B	5.168009	0	0.012814	0	
39	N88B	2.73187	0.166667	4.232331	0	
40	N89A	5.031239	0.166667	0.249706	0	
41	N91A	2.73187	0	4.232331	0	
42	N92A	5.031239	0	0.249706	0	
43	N93	6.697252	0.166667	4.232328	0	
44	N94	7.014615	0.166667	3.685019	0	
45	N95A	6.697596	0	4.232924	0	
46	N96A	7.014272	0	3.684425	0	
47	N97A	2.5951	0	4.469224	0	
48	N98A	3.964888	0	2.096681	0	
49	N99	3.798221	0	2.385356	0	
50	N100	6.582668	0	4.431984	0	
51	N101	7.129543	0	3.484769	0	
52	N102	5.330389	0	0.106564	0	
53	N103	2.757479	0	4.562974	0	
54	N104	5.413722	0	0.250901	0	
55	N105	5.441907	0	0.234629	0	
56	N106	7.067043	0	3.376516	0	
57	N107	7.208669	0	3.294749	0	
58	N108	2.924146	0	4.562974	0	
59	N109	2.924146	0	4.595519	0	
60	N110	6.457668	0	4.431984	0	
61	N111	6.457668	0	4.595519	0	
62	N112A	0.	0	-1.291664	0	
63	N113A	-0.	0	-4.482031	0	
64	N114	-0.	0	-7.916747	0	
65	N115	-2.572908	0	-4.482034	0	
66	N116A	2.299372	0.166667	-4.482034	0	
67	N117	-2.299368	0.166667	-4.482034	0	
68	N119	2.299372	0	-4.482034	0	
69	N120B	-2.299368	0	-4.482034	0	
70	N121	0.316678	0.166667	-7.916155	0	
71	N122	-0.315987	0.166667	-7.917344	0	



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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
129	N129B	3.32354	2	2.207522	0	
130	N131B	-3.44854	0	1.991015	0	
131	N132A	-3.57354	0	1.774509	0	
132	N133A	-3.57354	2	1.774509	0	
133	N133B	2.083329	1.5	4.845516	0	
134	N134A	2.083329	3.5	4.845516	0	
135	N135A	2.083329	-0.5	4.845516	0	
136	N136A	0.896502	0	-7.638244	0	
137	N137A	2.938169	0	-4.101974	0	
138	N138A	4.979835	0	-0.565704	0	
139	N139A	7.021502	0	2.970567	0	
140	N140	1.113008	0	-7.763244	0	
141	N141	3.154675	0	-4.226974	0	
142	N142	5.196342	0	-0.690704	0	
143	N143	7.238008	0	2.845567	0	
144	N144	1.113008	4.833333	-7.763244	0	
145	N145A	3.154675	4.833333	-4.226974	0	
146	N146	5.196342	4.833333	-0.690704	0	
147	N147A	7.238008	4.833333	2.845567	0	
148	N148	1.113008	-3.166667	-7.763244	0	
149	N149A	3.154675	-3.166667	-4.226974	0	
150	N150	5.196342	-3.166667	-0.690704	0	
151	N151A	7.238008	-3.166667	2.845567	0	
152	N152	-7.249996	3	4.595516	0	
153	N153	7.249996	3	4.595516	0	
154	N154	6.166663	3	4.595516	0	
155	N155	2.083329	3	4.595516	0	
156	N156	-2.000004	3	4.595516	0	
157	N157	-6.083337	3	4.595516	0	
158	N158	6.166663	3	4.845516	0	
159	N159	2.083329	3	4.845516	0	
160	N160	-2.000004	3	4.845516	0	
161	N161	-6.083337	3	4.845516	0	
162	N162	-5.250004	3	4.595516	0	
163	N163	-5.250004	3	4.428849	0	
164	N164	5.250004	3	4.595516	0	
165	N165	5.250004	3	4.428849	0	
166	N166	7.604831	3	3.980923	0	
167	N167	0.354835	3	-8.576439	0	
168	N168	0.896502	3	-7.638244	0	
169	N169	2.938169	3	-4.101974	0	
170	N170	4.979835	3	-0.565704	0	
171	N171	7.021502	3	2.970567	0	
172	N172	1.113008	3	-7.763244	0	
173	N173	3.154675	3	-4.226974	0	
174	N174	5.196342	3	-0.690704	0	
175	N175	7.238008	3	2.845567	0	
176	N176	6.604835	3	2.248879	0	
177	N177	6.460498	3	2.332212	0	
178	N178	1.354831	3	-6.844395	0	
179	N179	1.210494	3	-6.761061	0	
180	N180	-0.354835	3	-8.576439	0	
181	N181	-7.604831	3	3.980923	0	
182	N182	-7.063165	3	3.042729	0	
183	N183	-5.021498	3	-0.493542	0	
184	N184	-2.979831	3	-4.029812	0	
185	N185	-0.938165	3	-7.566082	0	



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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
74	M74A	N101A	N97B			RIGID	None	None	RIGID	Typical
75	M75A	N100A	N96			RIGID	None	None	RIGID	Typical
76	M76A	N99B	N95B			RIGID	None	None	RIGID	Typical
77	MP4A	N106A	N110A			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical
78	MP3A	N105A	N109A			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical
79	MP2A	N104A	N108A			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical
80	MP1A	N103A	N107A			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical
81	M81A	N111A	N112B			RIGID	None	None	RIGID	Typical
82	M83A	N123A	N119A			RIGID	None	None	RIGID	Typical
83	M84A	N122A	N118			RIGID	None	None	RIGID	Typical
84	M85A	N121A	N117A			RIGID	None	None	RIGID	Typical
85	M86B	N120C	N116B			RIGID	None	None	RIGID	Typical
86	MP4B	N127A	N131A			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical
87	MP3B	N126A	N130A			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical
88	MP2B	N125A	N129A			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical
89	MP1B	N124B	N128A			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical
90	OVP2	N129B	N112B			Mount Pipe_1	Column	Pipe	A53 Gr.B	Typical
91	M91A	N131B	N132A			RIGID	None	None	RIGID	Typical
92	OVP1	N133A	N132A			Mount Pipe_1	Column	Pipe	A53 Gr.B	Typical
93	M93B	N143	N139A			RIGID	None	None	RIGID	Typical
94	M94	N142	N138A			RIGID	None	None	RIGID	Typical
95	M95	N141	N137A			RIGID	None	None	RIGID	Typical
96	M96	N140	N136A			RIGID	None	None	RIGID	Typical
97	MP4C	N147A	N151A			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical
98	MP3C	N146	N150			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical
99	MP2C	N145A	N149A			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical
100	MP1C	N144	N148			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical
101	M101	N153	N152			Support Rail	Beam	Pipe	A53 Gr.B	Typical
102	M102	N161	N157			RIGID	None	None	RIGID	Typical
103	M103	N160	N156			RIGID	None	None	RIGID	Typical
104	M104	N159	N155			RIGID	None	None	RIGID	Typical
105	M105	N158	N154			RIGID	None	None	RIGID	Typical
106	M106	N162	N163			RIGID	None	None	RIGID	Typical
107	M107	N164	N165			RIGID	None	None	RIGID	Typical
108	M108	N167	N166			Support Rail	Beam	Pipe	A53 Gr.B	Typical
109	M109	N175	N171			RIGID	None	None	RIGID	Typical
110	M110	N174	N170			RIGID	None	None	RIGID	Typical
111	M111	N173	N169			RIGID	None	None	RIGID	Typical
112	M112	N172	N168			RIGID	None	None	RIGID	Typical
113	M113	N176	N177			RIGID	None	None	RIGID	Typical
114	M114	N178	N179			RIGID	None	None	RIGID	Typical
115	M115	N181	N180			Support Rail	Beam	Pipe	A53 Gr.B	Typical
116	M116	N189	N185			RIGID	None	None	RIGID	Typical
117	M117	N188	N184			RIGID	None	None	RIGID	Typical
118	M118	N187	N183			RIGID	None	None	RIGID	Typical
119	M119	N186	N182			RIGID	None	None	RIGID	Typical
120	M120	N190	N191			RIGID	None	None	RIGID	Typical
121	M121	N192	N193			RIGID	None	None	RIGID	Typical
122	M122	N163	N193		90	Support Rail C...	Beam	Single Angle	A36 Gr.36	Typical
123	M123	N191	N179		90	Support Rail C...	Beam	Single Angle	A36 Gr.36	Typical
124	M124	N177	N165		90	Support Rail C...	Beam	Single Angle	A36 Gr.36	Typical



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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
58	M108	Support Rail	14.5			Lbyy						Lateral
59	M115	Support Rail	14.5			Lbyy						Lateral
60	M122	Support Rail...	2.421			Lbyy						Lateral
61	M123	Support Rail...	2.421			Lbyy						Lateral
62	M124	Support Rail...	2.421			Lbyy						Lateral

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP4A	Y	-43.55	2.33
2	MP4A	My	-.033	2.33
3	MP4A	Mz	0	2.33
4	MP4A	Y	-43.55	4.33
5	MP4A	My	-.033	4.33
6	MP4A	Mz	0	4.33
7	MP4B	Y	-43.55	2.33
8	MP4B	My	-.033	2.33
9	MP4B	Mz	0	2.33
10	MP4B	Y	-43.55	4.33
11	MP4B	My	-.033	4.33
12	MP4B	Mz	0	4.33
13	MP2A	Y	-23	1.33
14	MP2A	My	-.017	1.33
15	MP2A	Mz	0	1.33
16	MP2A	Y	-23	5.33
17	MP2A	My	-.017	5.33
18	MP2A	Mz	0	5.33
19	MP2B	Y	-23	1.33
20	MP2B	My	.013	1.33
21	MP2B	Mz	-.011	1.33
22	MP2B	Y	-23	5.33
23	MP2B	My	.013	5.33
24	MP2B	Mz	-.011	5.33
25	MP2A	Y	-23	1.33
26	MP2A	My	-.017	1.33
27	MP2A	Mz	0	1.33
28	MP2A	Y	-23	5.33
29	MP2A	My	-.017	5.33
30	MP2A	Mz	0	5.33
31	MP2B	Y	-23	1.33
32	MP2B	My	.013	1.33
33	MP2B	Mz	-.011	1.33
34	MP2B	Y	-23	5.33
35	MP2B	My	.013	5.33
36	MP2B	Mz	-.011	5.33
37	OVP1	Y	-26.9	1
38	OVP1	My	-.01	1
39	OVP1	Mz	.009	1
40	MP3A	Y	-84.4	3.58
41	MP3A	My	.032	3.58
42	MP3A	Mz	-.027	3.58
43	MP3B	Y	-84.4	3.58
44	MP3B	My	.032	3.58
45	MP3B	Mz	-.027	3.58
46	MP3A	Y	-70.3	1
47	MP3A	My	.027	1



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
48	MP3A	Mz	-.023	1
49	MP3B	Y	-70.3	1
50	MP3B	My	.027	1
51	MP3B	Mz	-.023	1
52	OVP2	Y	-26.9	1
53	OVP2	My	-.01	1
54	OVP2	Mz	.009	1

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP4A	Y	-34.841	2.33
2	MP4A	My	-.026	2.33
3	MP4A	Mz	0	2.33
4	MP4A	Y	-34.841	4.33
5	MP4A	My	-.026	4.33
6	MP4A	Mz	0	4.33
7	MP4B	Y	-34.841	2.33
8	MP4B	My	-.026	2.33
9	MP4B	Mz	0	2.33
10	MP4B	Y	-34.841	4.33
11	MP4B	My	-.026	4.33
12	MP4B	Mz	0	4.33
13	MP2A	Y	-80.726	1.33
14	MP2A	My	-.061	1.33
15	MP2A	Mz	0	1.33
16	MP2A	Y	-80.726	5.33
17	MP2A	My	-.061	5.33
18	MP2A	Mz	0	5.33
19	MP2B	Y	-80.726	1.33
20	MP2B	My	.046	1.33
21	MP2B	Mz	-.039	1.33
22	MP2B	Y	-80.726	5.33
23	MP2B	My	.046	5.33
24	MP2B	Mz	-.039	5.33
25	MP2A	Y	-80.726	1.33
26	MP2A	My	-.061	1.33
27	MP2A	Mz	0	1.33
28	MP2A	Y	-80.726	5.33
29	MP2A	My	-.061	5.33
30	MP2A	Mz	0	5.33
31	MP2B	Y	-80.726	1.33
32	MP2B	My	.046	1.33
33	MP2B	Mz	-.039	1.33
34	MP2B	Y	-80.726	5.33
35	MP2B	My	.046	5.33
36	MP2B	Mz	-.039	5.33
37	OVP1	Y	-54.085	1
38	OVP1	My	-.021	1
39	OVP1	Mz	.017	1
40	MP3A	Y	-43.912	3.58
41	MP3A	My	.017	3.58
42	MP3A	Mz	-.014	3.58
43	MP3B	Y	-43.912	3.58
44	MP3B	My	.017	3.58
45	MP3B	Mz	-.014	3.58
46	MP3A	Y	-39.484	1



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
47	MP3A	My	.015	1
48	MP3A	Mz	-.013	1
49	MP3B	Y	-39.484	1
50	MP3B	My	.015	1
51	MP3B	Mz	-.013	1
52	OVP2	Y	-54.085	1
53	OVP2	My	-.021	1
54	OVP2	Mz	.017	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP4A	X	0	2.33
2	MP4A	Z	-72.957	2.33
3	MP4A	Mx	0	2.33
4	MP4A	X	0	4.33
5	MP4A	Z	-72.957	4.33
6	MP4A	Mx	0	4.33
7	MP4B	X	0	2.33
8	MP4B	Z	-72.957	2.33
9	MP4B	Mx	0	2.33
10	MP4B	X	0	4.33
11	MP4B	Z	-72.957	4.33
12	MP4B	Mx	0	4.33
13	MP2A	X	0	1.33
14	MP2A	Z	-153.209	1.33
15	MP2A	Mx	0	1.33
16	MP2A	X	0	5.33
17	MP2A	Z	-153.209	5.33
18	MP2A	Mx	0	5.33
19	MP2B	X	0	1.33
20	MP2B	Z	-136.969	1.33
21	MP2B	Mx	.066	1.33
22	MP2B	X	0	5.33
23	MP2B	Z	-136.969	5.33
24	MP2B	Mx	.066	5.33
25	MP2A	X	0	1.33
26	MP2A	Z	-153.209	1.33
27	MP2A	Mx	0	1.33
28	MP2A	X	0	5.33
29	MP2A	Z	-153.209	5.33
30	MP2A	Mx	0	5.33
31	MP2B	X	0	1.33
32	MP2B	Z	-136.969	1.33
33	MP2B	Mx	.066	1.33
34	MP2B	X	0	5.33
35	MP2B	Z	-136.969	5.33
36	MP2B	Mx	.066	5.33
37	OVP1	X	0	1
38	OVP1	Z	-66.37	1
39	OVP1	Mx	-.021	1
40	MP3A	X	0	3.58
41	MP3A	Z	-50.102	3.58
42	MP3A	Mx	.016	3.58
43	MP3B	X	0	3.58
44	MP3B	Z	-50.102	3.58
45	MP3B	Mx	.016	3.58



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

	Member Label	Direction	Magnitude[lb.-ft]	Location[ft.-%]
46	MP3A	X	0	1
47	MP3A	Z	-47.056	1
48	MP3A	Mx	.015	1
49	MP3B	X	0	1
50	MP3B	Z	-47.056	1
51	MP3B	Mx	.015	1
52	OVP2	X	0	1
53	OVP2	Z	-66.37	1
54	OVP2	Mx	-.021	1

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

	Member Label	Direction	Magnitude[lb.-ft]	Location[ft.-%]
1	MP4A	X	30.929	2.33
2	MP4A	Z	-53.571	2.33
3	MP4A	Mx	-.023	2.33
4	MP4A	X	30.929	4.33
5	MP4A	Z	-53.571	4.33
6	MP4A	Mx	-.023	4.33
7	MP4B	X	30.929	2.33
8	MP4B	Z	-53.571	2.33
9	MP4B	Mx	-.023	2.33
10	MP4B	X	30.929	4.33
11	MP4B	Z	-53.571	4.33
12	MP4B	Mx	-.023	4.33
13	MP2A	X	71.691	1.33
14	MP2A	Z	-124.173	1.33
15	MP2A	Mx	-.054	1.33
16	MP2A	X	71.691	5.33
17	MP2A	Z	-124.173	5.33
18	MP2A	Mx	-.054	5.33
19	MP2B	X	59.251	1.33
20	MP2B	Z	-102.626	1.33
21	MP2B	Mx	.084	1.33
22	MP2B	X	59.251	5.33
23	MP2B	Z	-102.626	5.33
24	MP2B	Mx	.084	5.33
25	MP2A	X	71.691	1.33
26	MP2A	Z	-124.173	1.33
27	MP2A	Mx	-.054	1.33
28	MP2A	X	71.691	5.33
29	MP2A	Z	-124.173	5.33
30	MP2A	Mx	-.054	5.33
31	MP2B	X	59.251	1.33
32	MP2B	Z	-102.626	1.33
33	MP2B	Mx	.084	1.33
34	MP2B	X	59.251	5.33
35	MP2B	Z	-102.626	5.33
36	MP2B	Mx	.084	5.33
37	OVP1	X	26.793	1
38	OVP1	Z	-46.406	1
39	OVP1	Mx	-.025	1
40	MP3A	X	20.529	3.58
41	MP3A	Z	-35.558	3.58
42	MP3A	Mx	.019	3.58
43	MP3B	X	20.529	3.58
44	MP3B	Z	-35.558	3.58



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

	Member Label	Direction	Magnitude[lb.-ft]	Location[ft.-%]
45	MP3B	Mx	.019	3.58
46	MP3A	X	17.274	1
47	MP3A	Z	-29.919	1
48	MP3A	Mx	.016	1
49	MP3B	X	17.274	1
50	MP3B	Z	-29.919	1
51	MP3B	Mx	.016	1
52	OVP2	X	26.793	1
53	OVP2	Z	-46.406	1
54	OVP2	Mx	-.025	1

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

	Member Label	Direction	Magnitude[lb.-ft]	Location[ft.-%]
1	MP4A	X	34.347	2.33
2	MP4A	Z	-19.83	2.33
3	MP4A	Mx	-.026	2.33
4	MP4A	X	34.347	4.33
5	MP4A	Z	-19.83	4.33
6	MP4A	Mx	-.026	4.33
7	MP4B	X	34.347	2.33
8	MP4B	Z	-19.83	2.33
9	MP4B	Mx	-.026	2.33
10	MP4B	X	34.347	4.33
11	MP4B	Z	-19.83	4.33
12	MP4B	Mx	-.026	4.33
13	MP2A	X	107.154	1.33
14	MP2A	Z	-61.865	1.33
15	MP2A	Mx	-.08	1.33
16	MP2A	X	107.154	5.33
17	MP2A	Z	-61.865	5.33
18	MP2A	Mx	-.08	5.33
19	MP2B	X	99.671	1.33
20	MP2B	Z	-57.545	1.33
21	MP2B	Mx	.085	1.33
22	MP2B	X	99.671	5.33
23	MP2B	Z	-57.545	5.33
24	MP2B	Mx	.085	5.33
25	MP2A	X	107.154	1.33
26	MP2A	Z	-61.865	1.33
27	MP2A	Mx	-.08	1.33
28	MP2A	X	107.154	5.33
29	MP2A	Z	-61.865	5.33
30	MP2A	Mx	-.08	5.33
31	MP2B	X	99.671	1.33
32	MP2B	Z	-57.545	1.33
33	MP2B	Mx	.085	1.33
34	MP2B	X	99.671	5.33
35	MP2B	Z	-57.545	5.33
36	MP2B	Mx	.085	5.33
37	OVP1	X	44.36	1
38	OVP1	Z	-25.611	1
39	OVP1	Mx	-.025	1
40	MP3A	X	34.11	3.58
41	MP3A	Z	-19.694	3.58
42	MP3A	Mx	.019	3.58
43	MP3B	X	34.11	3.58



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
44	MP3B	Z	-19.694	3.58
45	MP3B	Mx	.019	3.58
46	MP3A	X	27.917	1
47	MP3A	Z	-16.118	1
48	MP3A	Mx	.016	1
49	MP3B	X	27.917	1
50	MP3B	Z	-16.118	1
51	MP3B	Mx	.016	1
52	OVP2	X	44.36	1
53	OVP2	Z	-25.611	1
54	OVP2	Mx	-.025	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP4A	X	28.562	2.33
2	MP4A	Z	0	2.33
3	MP4A	Mx	-.021	2.33
4	MP4A	X	28.562	4.33
5	MP4A	Z	0	4.33
6	MP4A	Mx	-.021	4.33
7	MP4B	X	28.562	2.33
8	MP4B	Z	0	2.33
9	MP4B	Mx	-.021	2.33
10	MP4B	X	28.562	4.33
11	MP4B	Z	0	4.33
12	MP4B	Mx	-.021	4.33
13	MP2A	X	113.905	1.33
14	MP2A	Z	0	1.33
15	MP2A	Mx	-.085	1.33
16	MP2A	X	113.905	5.33
17	MP2A	Z	0	5.33
18	MP2A	Mx	-.085	5.33
19	MP2B	X	130.144	1.33
20	MP2B	Z	0	1.33
21	MP2B	Mx	.075	1.33
22	MP2B	X	130.144	5.33
23	MP2B	Z	0	5.33
24	MP2B	Mx	.075	5.33
25	MP2A	X	113.905	1.33
26	MP2A	Z	0	1.33
27	MP2A	Mx	-.085	1.33
28	MP2A	X	113.905	5.33
29	MP2A	Z	0	5.33
30	MP2A	Mx	-.085	5.33
31	MP2B	X	130.144	1.33
32	MP2B	Z	0	1.33
33	MP2B	Mx	.075	1.33
34	MP2B	X	130.144	5.33
35	MP2B	Z	0	5.33
36	MP2B	Mx	.075	5.33
37	OVP1	X	61.645	1
38	OVP1	Z	0	1
39	OVP1	Mx	-.024	1
40	MP3A	X	46.76	3.58
41	MP3A	Z	0	3.58
42	MP3A	Mx	.018	3.58



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
43	MP3B	X	46.76	3.58
44	MP3B	Z	0	3.58
45	MP3B	Mx	.018	3.58
46	MP3A	X	42.433	1
47	MP3A	Z	0	1
48	MP3A	Mx	.016	1
49	MP3B	X	42.433	1
50	MP3B	Z	0	1
51	MP3B	Mx	.016	1
52	OVP2	X	61.645	1
53	OVP2	Z	0	1
54	OVP2	Mx	-.024	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP4A	X	34.347	2.33
2	MP4A	Z	19.83	2.33
3	MP4A	Mx	-.026	2.33
4	MP4A	X	34.347	4.33
5	MP4A	Z	19.83	4.33
6	MP4A	Mx	-.026	4.33
7	MP4B	X	34.347	2.33
8	MP4B	Z	19.83	2.33
9	MP4B	Mx	-.026	2.33
10	MP4B	X	34.347	4.33
11	MP4B	Z	19.83	4.33
12	MP4B	Mx	-.026	4.33
13	MP2A	X	107.154	1.33
14	MP2A	Z	61.865	1.33
15	MP2A	Mx	-.08	1.33
16	MP2A	X	107.154	5.33
17	MP2A	Z	61.865	5.33
18	MP2A	Mx	-.08	5.33
19	MP2B	X	128.701	1.33
20	MP2B	Z	74.306	1.33
21	MP2B	Mx	.038	1.33
22	MP2B	X	128.701	5.33
23	MP2B	Z	74.306	5.33
24	MP2B	Mx	.038	5.33
25	MP2A	X	107.154	1.33
26	MP2A	Z	61.865	1.33
27	MP2A	Mx	-.08	1.33
28	MP2A	X	107.154	5.33
29	MP2A	Z	61.865	5.33
30	MP2A	Mx	-.08	5.33
31	MP2B	X	128.701	1.33
32	MP2B	Z	74.306	1.33
33	MP2B	Mx	.038	1.33
34	MP2B	X	128.701	5.33
35	MP2B	Z	74.306	5.33
36	MP2B	Mx	.038	5.33
37	OVP1	X	64.459	1
38	OVP1	Z	37.215	1
39	OVP1	Mx	-.013	1
40	MP3A	X	48.327	3.58
41	MP3A	Z	27.902	3.58



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
42	MP3A	Mx	.01	3.58
43	MP3B	X	48.327	3.58
44	MP3B	Z	27.902	3.58
45	MP3B	Mx	.01	3.58
46	MP3A	X	47.58	1
47	MP3A	Z	27.47	1
48	MP3A	Mx	.009	1
49	MP3B	X	47.58	1
50	MP3B	Z	27.47	1
51	MP3B	Mx	.009	1
52	OVP2	X	64.459	1
53	OVP2	Z	37.215	1
54	OVP2	Mx	-.013	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP4A	X	30.929	2.33
2	MP4A	Z	53.571	2.33
3	MP4A	Mx	-.023	2.33
4	MP4A	X	30.929	4.33
5	MP4A	Z	53.571	4.33
6	MP4A	Mx	-.023	4.33
7	MP4B	X	30.929	2.33
8	MP4B	Z	53.571	2.33
9	MP4B	Mx	-.023	2.33
10	MP4B	X	30.929	4.33
11	MP4B	Z	53.571	4.33
12	MP4B	Mx	-.023	4.33
13	MP2A	X	71.691	1.33
14	MP2A	Z	124.173	1.33
15	MP2A	Mx	-.054	1.33
16	MP2A	X	71.691	5.33
17	MP2A	Z	124.173	5.33
18	MP2A	Mx	-.054	5.33
19	MP2B	X	76.012	1.33
20	MP2B	Z	131.656	1.33
21	MP2B	Mx	-.02	1.33
22	MP2B	X	76.012	5.33
23	MP2B	Z	131.656	5.33
24	MP2B	Mx	-.02	5.33
25	MP2A	X	71.691	1.33
26	MP2A	Z	124.173	1.33
27	MP2A	Mx	-.054	1.33
28	MP2A	X	71.691	5.33
29	MP2A	Z	124.173	5.33
30	MP2A	Mx	-.054	5.33
31	MP2B	X	76.012	1.33
32	MP2B	Z	131.656	1.33
33	MP2B	Mx	-.02	1.33
34	MP2B	X	76.012	5.33
35	MP2B	Z	131.656	5.33
36	MP2B	Mx	-.02	5.33
37	OVP1	X	38.396	1
38	OVP1	Z	66.505	1
39	OVP1	Mx	.007	1
40	MP3A	X	28.737	3.58



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft, %]
41	MP3A	Z	49.774	3.58
42	MP3A	Mx	-0.005	3.58
43	MP3B	X	28.737	3.58
44	MP3B	Z	49.774	3.58
45	MP3B	Mx	-0.005	3.58
46	MP3A	X	28.626	1
47	MP3A	Z	49.582	1
48	MP3A	Mx	-0.005	1
49	MP3B	X	28.626	1
50	MP3B	Z	49.582	1
51	MP3B	Mx	-0.005	1
52	OVP2	X	38.396	1
53	OVP2	Z	66.505	1
54	OVP2	Mx	.007	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft, %]
1	MP4A	X	0	2.33
2	MP4A	Z	72.957	2.33
3	MP4A	Mx	0	2.33
4	MP4A	X	0	4.33
5	MP4A	Z	72.957	4.33
6	MP4A	Mx	0	4.33
7	MP4B	X	0	2.33
8	MP4B	Z	72.957	2.33
9	MP4B	Mx	0	2.33
10	MP4B	X	0	4.33
11	MP4B	Z	72.957	4.33
12	MP4B	Mx	0	4.33
13	MP2A	X	0	1.33
14	MP2A	Z	153.209	1.33
15	MP2A	Mx	0	1.33
16	MP2A	X	0	5.33
17	MP2A	Z	153.209	5.33
18	MP2A	Mx	0	5.33
19	MP2B	X	0	1.33
20	MP2B	Z	136.969	1.33
21	MP2B	Mx	-0.066	1.33
22	MP2B	X	0	5.33
23	MP2B	Z	136.969	5.33
24	MP2B	Mx	-0.066	5.33
25	MP2A	X	0	1.33
26	MP2A	Z	153.209	1.33
27	MP2A	Mx	0	1.33
28	MP2A	X	0	5.33
29	MP2A	Z	153.209	5.33
30	MP2A	Mx	0	5.33
31	MP2B	X	0	1.33
32	MP2B	Z	136.969	1.33
33	MP2B	Mx	-0.066	1.33
34	MP2B	X	0	5.33
35	MP2B	Z	136.969	5.33
36	MP2B	Mx	-0.066	5.33
37	OVP1	X	0	1
38	OVP1	Z	66.37	1
39	OVP1	Mx	.021	1



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

	Member Label	Direction	Magnitude[lb.-ft]	Location[ft,%]
40	MP3A	X	0	3.58
41	MP3A	Z	50.102	3.58
42	MP3A	Mx	-.016	3.58
43	MP3B	X	0	3.58
44	MP3B	Z	50.102	3.58
45	MP3B	Mx	-.016	3.58
46	MP3A	X	0	1
47	MP3A	Z	47.056	1
48	MP3A	Mx	-.015	1
49	MP3B	X	0	1
50	MP3B	Z	47.056	1
51	MP3B	Mx	-.015	1
52	OVP2	X	0	1
53	OVP2	Z	66.37	1
54	OVP2	Mx	.021	1

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

	Member Label	Direction	Magnitude[lb.-ft]	Location[ft,%]
1	MP4A	X	-30.929	2.33
2	MP4A	Z	53.571	2.33
3	MP4A	Mx	.023	2.33
4	MP4A	X	-30.929	4.33
5	MP4A	Z	53.571	4.33
6	MP4A	Mx	.023	4.33
7	MP4B	X	-30.929	2.33
8	MP4B	Z	53.571	2.33
9	MP4B	Mx	.023	2.33
10	MP4B	X	-30.929	4.33
11	MP4B	Z	53.571	4.33
12	MP4B	Mx	.023	4.33
13	MP2A	X	-71.691	1.33
14	MP2A	Z	124.173	1.33
15	MP2A	Mx	.054	1.33
16	MP2A	X	-71.691	5.33
17	MP2A	Z	124.173	5.33
18	MP2A	Mx	.054	5.33
19	MP2B	X	-59.251	1.33
20	MP2B	Z	102.626	1.33
21	MP2B	Mx	-.084	1.33
22	MP2B	X	-59.251	5.33
23	MP2B	Z	102.626	5.33
24	MP2B	Mx	-.084	5.33
25	MP2A	X	-71.691	1.33
26	MP2A	Z	124.173	1.33
27	MP2A	Mx	.054	1.33
28	MP2A	X	-71.691	5.33
29	MP2A	Z	124.173	5.33
30	MP2A	Mx	.054	5.33
31	MP2B	X	-59.251	1.33
32	MP2B	Z	102.626	1.33
33	MP2B	Mx	-.084	1.33
34	MP2B	X	-59.251	5.33
35	MP2B	Z	102.626	5.33
36	MP2B	Mx	-.084	5.33
37	OVP1	X	-26.793	1
38	OVP1	Z	46.406	1



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

	Member Label	Direction	Magnitude[lb.,lb-ft]	Location[ft.,%]
39	OVP1	Mx	.025	1
40	MP3A	X	-20.529	3.58
41	MP3A	Z	35.558	3.58
42	MP3A	Mx	-.019	3.58
43	MP3B	X	-20.529	3.58
44	MP3B	Z	35.558	3.58
45	MP3B	Mx	-.019	3.58
46	MP3A	X	-17.274	1
47	MP3A	Z	29.919	1
48	MP3A	Mx	-.016	1
49	MP3B	X	-17.274	1
50	MP3B	Z	29.919	1
51	MP3B	Mx	-.016	1
52	OVP2	X	-26.793	1
53	OVP2	Z	46.406	1
54	OVP2	Mx	.025	1

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

	Member Label	Direction	Magnitude[lb.,lb-ft]	Location[ft.,%]
1	MP4A	X	-34.347	2.33
2	MP4A	Z	19.83	2.33
3	MP4A	Mx	.026	2.33
4	MP4A	X	-34.347	4.33
5	MP4A	Z	19.83	4.33
6	MP4A	Mx	.026	4.33
7	MP4B	X	-34.347	2.33
8	MP4B	Z	19.83	2.33
9	MP4B	Mx	.026	2.33
10	MP4B	X	-34.347	4.33
11	MP4B	Z	19.83	4.33
12	MP4B	Mx	.026	4.33
13	MP2A	X	-107.154	1.33
14	MP2A	Z	61.865	1.33
15	MP2A	Mx	.08	1.33
16	MP2A	X	-107.154	5.33
17	MP2A	Z	61.865	5.33
18	MP2A	Mx	.08	5.33
19	MP2B	X	-99.671	1.33
20	MP2B	Z	57.545	1.33
21	MP2B	Mx	-.085	1.33
22	MP2B	X	-99.671	5.33
23	MP2B	Z	57.545	5.33
24	MP2B	Mx	-.085	5.33
25	MP2A	X	-107.154	1.33
26	MP2A	Z	61.865	1.33
27	MP2A	Mx	.08	1.33
28	MP2A	X	-107.154	5.33
29	MP2A	Z	61.865	5.33
30	MP2A	Mx	.08	5.33
31	MP2B	X	-99.671	1.33
32	MP2B	Z	57.545	1.33
33	MP2B	Mx	-.085	1.33
34	MP2B	X	-99.671	5.33
35	MP2B	Z	57.545	5.33
36	MP2B	Mx	-.085	5.33
37	OVP1	X	-44.36	1



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
38	OVP1	Z	25.611	1
39	OVP1	Mx	.025	1
40	MP3A	X	-34.11	3.58
41	MP3A	Z	19.694	3.58
42	MP3A	Mx	-.019	3.58
43	MP3B	X	-34.11	3.58
44	MP3B	Z	19.694	3.58
45	MP3B	Mx	-.019	3.58
46	MP3A	X	-27.917	1
47	MP3A	Z	16.118	1
48	MP3A	Mx	-.016	1
49	MP3B	X	-27.917	1
50	MP3B	Z	16.118	1
51	MP3B	Mx	-.016	1
52	OVP2	X	-44.36	1
53	OVP2	Z	25.611	1
54	OVP2	Mx	.025	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP4A	X	-28.562	2.33
2	MP4A	Z	0	2.33
3	MP4A	Mx	.021	2.33
4	MP4A	X	-28.562	4.33
5	MP4A	Z	0	4.33
6	MP4A	Mx	.021	4.33
7	MP4B	X	-28.562	2.33
8	MP4B	Z	0	2.33
9	MP4B	Mx	.021	2.33
10	MP4B	X	-28.562	4.33
11	MP4B	Z	0	4.33
12	MP4B	Mx	.021	4.33
13	MP2A	X	-113.905	1.33
14	MP2A	Z	0	1.33
15	MP2A	Mx	.085	1.33
16	MP2A	X	-113.905	5.33
17	MP2A	Z	0	5.33
18	MP2A	Mx	.085	5.33
19	MP2B	X	-130.144	1.33
20	MP2B	Z	0	1.33
21	MP2B	Mx	-.075	1.33
22	MP2B	X	-130.144	5.33
23	MP2B	Z	0	5.33
24	MP2B	Mx	-.075	5.33
25	MP2A	X	-113.905	1.33
26	MP2A	Z	0	1.33
27	MP2A	Mx	.085	1.33
28	MP2A	X	-113.905	5.33
29	MP2A	Z	0	5.33
30	MP2A	Mx	.085	5.33
31	MP2B	X	-130.144	1.33
32	MP2B	Z	0	1.33
33	MP2B	Mx	-.075	1.33
34	MP2B	X	-130.144	5.33
35	MP2B	Z	0	5.33
36	MP2B	Mx	-.075	5.33



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft,%]
37	OVP1	X	-61.645	1
38	OVP1	Z	0	1
39	OVP1	Mx	.024	1
40	MP3A	X	-46.76	3.58
41	MP3A	Z	0	3.58
42	MP3A	Mx	-.018	3.58
43	MP3B	X	-46.76	3.58
44	MP3B	Z	0	3.58
45	MP3B	Mx	-.018	3.58
46	MP3A	X	-42.433	1
47	MP3A	Z	0	1
48	MP3A	Mx	-.016	1
49	MP3B	X	-42.433	1
50	MP3B	Z	0	1
51	MP3B	Mx	-.016	1
52	OVP2	X	-61.645	1
53	OVP2	Z	0	1
54	OVP2	Mx	.024	1

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft,%]
1	MP4A	X	-34.347	2.33
2	MP4A	Z	-19.83	2.33
3	MP4A	Mx	.026	2.33
4	MP4A	X	-34.347	4.33
5	MP4A	Z	-19.83	4.33
6	MP4A	Mx	.026	4.33
7	MP4B	X	-34.347	2.33
8	MP4B	Z	-19.83	2.33
9	MP4B	Mx	.026	2.33
10	MP4B	X	-34.347	4.33
11	MP4B	Z	-19.83	4.33
12	MP4B	Mx	.026	4.33
13	MP2A	X	-107.154	1.33
14	MP2A	Z	-61.865	1.33
15	MP2A	Mx	.08	1.33
16	MP2A	X	-107.154	5.33
17	MP2A	Z	-61.865	5.33
18	MP2A	Mx	.08	5.33
19	MP2B	X	-128.701	1.33
20	MP2B	Z	-74.306	1.33
21	MP2B	Mx	-.038	1.33
22	MP2B	X	-128.701	5.33
23	MP2B	Z	-74.306	5.33
24	MP2B	Mx	-.038	5.33
25	MP2A	X	-107.154	1.33
26	MP2A	Z	-61.865	1.33
27	MP2A	Mx	.08	1.33
28	MP2A	X	-107.154	5.33
29	MP2A	Z	-61.865	5.33
30	MP2A	Mx	.08	5.33
31	MP2B	X	-128.701	1.33
32	MP2B	Z	-74.306	1.33
33	MP2B	Mx	-.038	1.33
34	MP2B	X	-128.701	5.33
35	MP2B	Z	-74.306	5.33



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

	Member Label	Direction	Magnitude[lb.-ft]	Location[ft.-%]
36	MP2B	Mx	-.038	5.33
37	OVP1	X	-64.459	1
38	OVP1	Z	-37.215	1
39	OVP1	Mx	.013	1
40	MP3A	X	-48.327	3.58
41	MP3A	Z	-27.902	3.58
42	MP3A	Mx	-.01	3.58
43	MP3B	X	-48.327	3.58
44	MP3B	Z	-27.902	3.58
45	MP3B	Mx	-.01	3.58
46	MP3A	X	-47.58	1
47	MP3A	Z	-27.47	1
48	MP3A	Mx	-.009	1
49	MP3B	X	-47.58	1
50	MP3B	Z	-27.47	1
51	MP3B	Mx	-.009	1
52	OVP2	X	-64.459	1
53	OVP2	Z	-37.215	1
54	OVP2	Mx	.013	1

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

	Member Label	Direction	Magnitude[lb.-ft]	Location[ft.-%]
1	MP4A	X	-30.929	2.33
2	MP4A	Z	-53.571	2.33
3	MP4A	Mx	.023	2.33
4	MP4A	X	-30.929	4.33
5	MP4A	Z	-53.571	4.33
6	MP4A	Mx	.023	4.33
7	MP4B	X	-30.929	2.33
8	MP4B	Z	-53.571	2.33
9	MP4B	Mx	.023	2.33
10	MP4B	X	-30.929	4.33
11	MP4B	Z	-53.571	4.33
12	MP4B	Mx	.023	4.33
13	MP2A	X	-71.691	1.33
14	MP2A	Z	-124.173	1.33
15	MP2A	Mx	.054	1.33
16	MP2A	X	-71.691	5.33
17	MP2A	Z	-124.173	5.33
18	MP2A	Mx	.054	5.33
19	MP2B	X	-76.012	1.33
20	MP2B	Z	-131.656	1.33
21	MP2B	Mx	.02	1.33
22	MP2B	X	-76.012	5.33
23	MP2B	Z	-131.656	5.33
24	MP2B	Mx	.02	5.33
25	MP2A	X	-71.691	1.33
26	MP2A	Z	-124.173	1.33
27	MP2A	Mx	.054	1.33
28	MP2A	X	-71.691	5.33
29	MP2A	Z	-124.173	5.33
30	MP2A	Mx	.054	5.33
31	MP2B	X	-76.012	1.33
32	MP2B	Z	-131.656	1.33
33	MP2B	Mx	.02	1.33
34	MP2B	X	-76.012	5.33



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
35	MP2B	Z	-131.656	5.33
36	MP2B	Mx	.02	5.33
37	OVP1	X	-38.396	1
38	OVP1	Z	-66.505	1
39	OVP1	Mx	-.007	1
40	MP3A	X	-28.737	3.58
41	MP3A	Z	-49.774	3.58
42	MP3A	Mx	.005	3.58
43	MP3B	X	-28.737	3.58
44	MP3B	Z	-49.774	3.58
45	MP3B	Mx	.005	3.58
46	MP3A	X	-28.626	1
47	MP3A	Z	-49.582	1
48	MP3A	Mx	.005	1
49	MP3B	X	-28.626	1
50	MP3B	Z	-49.582	1
51	MP3B	Mx	.005	1
52	OVP2	X	-38.396	1
53	OVP2	Z	-66.505	1
54	OVP2	Mx	-.007	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP4A	X	0	2.33
2	MP4A	Z	-14.764	2.33
3	MP4A	Mx	0	2.33
4	MP4A	X	0	4.33
5	MP4A	Z	-14.764	4.33
6	MP4A	Mx	0	4.33
7	MP4B	X	0	2.33
8	MP4B	Z	-14.764	2.33
9	MP4B	Mx	0	2.33
10	MP4B	X	0	4.33
11	MP4B	Z	-14.764	4.33
12	MP4B	Mx	0	4.33
13	MP2A	X	0	1.33
14	MP2A	Z	-29.946	1.33
15	MP2A	Mx	0	1.33
16	MP2A	X	0	5.33
17	MP2A	Z	-29.946	5.33
18	MP2A	Mx	0	5.33
19	MP2B	X	0	1.33
20	MP2B	Z	-26.93	1.33
21	MP2B	Mx	.013	1.33
22	MP2B	X	0	5.33
23	MP2B	Z	-26.93	5.33
24	MP2B	Mx	.013	5.33
25	MP2A	X	0	1.33
26	MP2A	Z	-29.946	1.33
27	MP2A	Mx	0	1.33
28	MP2A	X	0	5.33
29	MP2A	Z	-29.946	5.33
30	MP2A	Mx	0	5.33
31	MP2B	X	0	1.33
32	MP2B	Z	-26.93	1.33
33	MP2B	Mx	.013	1.33



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

	Member Label	Direction	Magnitude[lb.-ft]	Location[ft, %]
34	MP2B	X	0	5.33
35	MP2B	Z	-26.93	5.33
36	MP2B	Mx	.013	5.33
37	OVP1	X	0	1
38	OVP1	Z	-14.046	1
39	OVP1	Mx	-.005	1
40	MP3A	X	0	3.58
41	MP3A	Z	-10.864	3.58
42	MP3A	Mx	.003	3.58
43	MP3B	X	0	3.58
44	MP3B	Z	-10.864	3.58
45	MP3B	Mx	.003	3.58
46	MP3A	X	0	1
47	MP3A	Z	-10.268	1
48	MP3A	Mx	.003	1
49	MP3B	X	0	1
50	MP3B	Z	-10.268	1
51	MP3B	Mx	.003	1
52	OVP2	X	0	1
53	OVP2	Z	-14.046	1
54	OVP2	Mx	-.005	1

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

	Member Label	Direction	Magnitude[lb.-ft]	Location[ft, %]
1	MP4A	X	6.321	2.33
2	MP4A	Z	-10.949	2.33
3	MP4A	Mx	-.005	2.33
4	MP4A	X	6.321	4.33
5	MP4A	Z	-10.949	4.33
6	MP4A	Mx	-.005	4.33
7	MP4B	X	6.321	2.33
8	MP4B	Z	-10.949	2.33
9	MP4B	Mx	-.005	2.33
10	MP4B	X	6.321	4.33
11	MP4B	Z	-10.949	4.33
12	MP4B	Mx	-.005	4.33
13	MP2A	X	14.06	1.33
14	MP2A	Z	-24.353	1.33
15	MP2A	Mx	-.011	1.33
16	MP2A	X	14.06	5.33
17	MP2A	Z	-24.353	5.33
18	MP2A	Mx	-.011	5.33
19	MP2B	X	11.75	1.33
20	MP2B	Z	-20.352	1.33
21	MP2B	Mx	.017	1.33
22	MP2B	X	11.75	5.33
23	MP2B	Z	-20.352	5.33
24	MP2B	Mx	.017	5.33
25	MP2A	X	14.06	1.33
26	MP2A	Z	-24.353	1.33
27	MP2A	Mx	-.011	1.33
28	MP2A	X	14.06	5.33
29	MP2A	Z	-24.353	5.33
30	MP2A	Mx	-.011	5.33
31	MP2B	X	11.75	1.33
32	MP2B	Z	-20.352	1.33



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
33	MP2B	Mx	.017	1.33
34	MP2B	X	11.75	5.33
35	MP2B	Z	-20.352	5.33
36	MP2B	Mx	.017	5.33
37	OVP1	X	5.798	1
38	OVP1	Z	-10.042	1
39	OVP1	Mx	-.005	1
40	MP3A	X	4.541	3.58
41	MP3A	Z	-7.866	3.58
42	MP3A	Mx	.004	3.58
43	MP3B	X	4.541	3.58
44	MP3B	Z	-7.866	3.58
45	MP3B	Mx	.004	3.58
46	MP3A	X	3.905	1
47	MP3A	Z	-6.764	1
48	MP3A	Mx	.004	1
49	MP3B	X	3.905	1
50	MP3B	Z	-6.764	1
51	MP3B	Mx	.004	1
52	OVP2	X	5.798	1
53	OVP2	Z	-10.042	1
54	OVP2	Mx	-.005	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP4A	X	7.274	2.33
2	MP4A	Z	-4.2	2.33
3	MP4A	Mx	-.005	2.33
4	MP4A	X	7.274	4.33
5	MP4A	Z	-4.2	4.33
6	MP4A	Mx	-.005	4.33
7	MP4B	X	7.274	2.33
8	MP4B	Z	-4.2	2.33
9	MP4B	Mx	-.005	2.33
10	MP4B	X	7.274	4.33
11	MP4B	Z	-4.2	4.33
12	MP4B	Mx	-.005	4.33
13	MP2A	X	21.193	1.33
14	MP2A	Z	-12.236	1.33
15	MP2A	Mx	-.016	1.33
16	MP2A	X	21.193	5.33
17	MP2A	Z	-12.236	5.33
18	MP2A	Mx	-.016	5.33
19	MP2B	X	19.803	1.33
20	MP2B	Z	-11.433	1.33
21	MP2B	Mx	.017	1.33
22	MP2B	X	19.803	5.33
23	MP2B	Z	-11.433	5.33
24	MP2B	Mx	.017	5.33
25	MP2A	X	21.193	1.33
26	MP2A	Z	-12.236	1.33
27	MP2A	Mx	-.016	1.33
28	MP2A	X	21.193	5.33
29	MP2A	Z	-12.236	5.33
30	MP2A	Mx	-.016	5.33
31	MP2B	X	19.803	1.33



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
32	MP2B	Z	-11.433	1.33
33	MP2B	Mx	.017	1.33
34	MP2B	X	19.803	5.33
35	MP2B	Z	-11.433	5.33
36	MP2B	Mx	.017	5.33
37	OVP1	X	9.649	1
38	OVP1	Z	-5.571	1
39	OVP1	Mx	-.005	1
40	MP3A	X	7.581	3.58
41	MP3A	Z	-4.377	3.58
42	MP3A	Mx	.004	3.58
43	MP3B	X	7.581	3.58
44	MP3B	Z	-4.377	3.58
45	MP3B	Mx	.004	3.58
46	MP3A	X	6.371	1
47	MP3A	Z	-3.678	1
48	MP3A	Mx	.004	1
49	MP3B	X	6.371	1
50	MP3B	Z	-3.678	1
51	MP3B	Mx	.004	1
52	OVP2	X	9.649	1
53	OVP2	Z	-5.571	1
54	OVP2	Mx	-.005	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP4A	X	6.278	2.33
2	MP4A	Z	0	2.33
3	MP4A	Mx	-.005	2.33
4	MP4A	X	6.278	4.33
5	MP4A	Z	0	4.33
6	MP4A	Mx	-.005	4.33
7	MP4B	X	6.278	2.33
8	MP4B	Z	0	2.33
9	MP4B	Mx	-.005	2.33
10	MP4B	X	6.278	4.33
11	MP4B	Z	0	4.33
12	MP4B	Mx	-.005	4.33
13	MP2A	X	22.646	1.33
14	MP2A	Z	0	1.33
15	MP2A	Mx	-.017	1.33
16	MP2A	X	22.646	5.33
17	MP2A	Z	0	5.33
18	MP2A	Mx	-.017	5.33
19	MP2B	X	25.662	1.33
20	MP2B	Z	0	1.33
21	MP2B	Mx	.015	1.33
22	MP2B	X	25.662	5.33
23	MP2B	Z	0	5.33
24	MP2B	Mx	.015	5.33
25	MP2A	X	22.646	1.33
26	MP2A	Z	0	1.33
27	MP2A	Mx	-.017	1.33
28	MP2A	X	22.646	5.33
29	MP2A	Z	0	5.33
30	MP2A	Mx	-.017	5.33



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
31	MP2B	X	25.662	1.33
32	MP2B	Z	0	1.33
33	MP2B	Mx	.015	1.33
34	MP2B	X	25.662	5.33
35	MP2B	Z	0	5.33
36	MP2B	Mx	.015	5.33
37	OVP1	X	13.14	1
38	OVP1	Z	0	1
39	OVP1	Mx	-.005	1
40	MP3A	X	10.205	3.58
41	MP3A	Z	0	3.58
42	MP3A	Mx	.004	3.58
43	MP3B	X	10.205	3.58
44	MP3B	Z	0	3.58
45	MP3B	Mx	.004	3.58
46	MP3A	X	9.36	1
47	MP3A	Z	0	1
48	MP3A	Mx	.004	1
49	MP3B	X	9.36	1
50	MP3B	Z	0	1
51	MP3B	Mx	.004	1
52	OVP2	X	13.14	1
53	OVP2	Z	0	1
54	OVP2	Mx	-.005	1

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft. %]
1	MP4A	X	7.274	2.33
2	MP4A	Z	4.2	2.33
3	MP4A	Mx	-.005	2.33
4	MP4A	X	7.274	4.33
5	MP4A	Z	4.2	4.33
6	MP4A	Mx	-.005	4.33
7	MP4B	X	7.274	2.33
8	MP4B	Z	4.2	2.33
9	MP4B	Mx	-.005	2.33
10	MP4B	X	7.274	4.33
11	MP4B	Z	4.2	4.33
12	MP4B	Mx	-.005	4.33
13	MP2A	X	21.193	1.33
14	MP2A	Z	12.236	1.33
15	MP2A	Mx	-.016	1.33
16	MP2A	X	21.193	5.33
17	MP2A	Z	12.236	5.33
18	MP2A	Mx	-.016	5.33
19	MP2B	X	25.194	1.33
20	MP2B	Z	14.546	1.33
21	MP2B	Mx	.007	1.33
22	MP2B	X	25.194	5.33
23	MP2B	Z	14.546	5.33
24	MP2B	Mx	.007	5.33
25	MP2A	X	21.193	1.33
26	MP2A	Z	12.236	1.33
27	MP2A	Mx	-.016	1.33
28	MP2A	X	21.193	5.33
29	MP2A	Z	12.236	5.33



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft,%]
30	MP2A	Mx	-.016	5.33
31	MP2B	X	25.194	1.33
32	MP2B	Z	14.546	1.33
33	MP2B	Mx	.007	1.33
34	MP2B	X	25.194	5.33
35	MP2B	Z	14.546	5.33
36	MP2B	Mx	.007	5.33
37	OVP1	X	13.503	1
38	OVP1	Z	7.796	1
39	OVP1	Mx	-.003	1
40	MP3A	X	10.38	3.58
41	MP3A	Z	5.993	3.58
42	MP3A	Mx	.002	3.58
43	MP3B	X	10.38	3.58
44	MP3B	Z	5.993	3.58
45	MP3B	Mx	.002	3.58
46	MP3A	X	10.235	1
47	MP3A	Z	5.909	1
48	MP3A	Mx	.002	1
49	MP3B	X	10.235	1
50	MP3B	Z	5.909	1
51	MP3B	Mx	.002	1
52	OVP2	X	13.503	1
53	OVP2	Z	7.796	1
54	OVP2	Mx	-.003	1

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft,%]
1	MP4A	X	6.321	2.33
2	MP4A	Z	10.949	2.33
3	MP4A	Mx	-.005	2.33
4	MP4A	X	6.321	4.33
5	MP4A	Z	10.949	4.33
6	MP4A	Mx	-.005	4.33
7	MP4B	X	6.321	2.33
8	MP4B	Z	10.949	2.33
9	MP4B	Mx	-.005	2.33
10	MP4B	X	6.321	4.33
11	MP4B	Z	10.949	4.33
12	MP4B	Mx	-.005	4.33
13	MP2A	X	14.06	1.33
14	MP2A	Z	24.353	1.33
15	MP2A	Mx	-.011	1.33
16	MP2A	X	14.06	5.33
17	MP2A	Z	24.353	5.33
18	MP2A	Mx	-.011	5.33
19	MP2B	X	14.863	1.33
20	MP2B	Z	25.743	1.33
21	MP2B	Mx	-.004	1.33
22	MP2B	X	14.863	5.33
23	MP2B	Z	25.743	5.33
24	MP2B	Mx	-.004	5.33
25	MP2A	X	14.06	1.33
26	MP2A	Z	24.353	1.33
27	MP2A	Mx	-.011	1.33
28	MP2A	X	14.06	5.33



Company : Maser Consulting
 Designer : FAC
 Job Number : 16244162
 Model Name : 470974-VZW

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
29	MP2A	Z	24.353	5.33
30	MP2A	Mx	-.011	5.33
31	MP2B	X	14.863	1.33
32	MP2B	Z	25.743	1.33
33	MP2B	Mx	-.004	1.33
34	MP2B	X	14.863	5.33
35	MP2B	Z	25.743	5.33
36	MP2B	Mx	-.004	5.33
37	OVP1	X	8.022	1
38	OVP1	Z	13.895	1
39	OVP1	Mx	.001	1
40	MP3A	X	6.158	3.58
41	MP3A	Z	10.665	3.58
42	MP3A	Mx	-.001	3.58
43	MP3B	X	6.158	3.58
44	MP3B	Z	10.665	3.58
45	MP3B	Mx	-.001	3.58
46	MP3A	X	6.136	1
47	MP3A	Z	10.628	1
48	MP3A	Mx	-.001	1
49	MP3B	X	6.136	1
50	MP3B	Z	10.628	1
51	MP3B	Mx	-.001	1
52	OVP2	X	8.022	1
53	OVP2	Z	13.895	1
54	OVP2	Mx	.001	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP4A	X	0	2.33
2	MP4A	Z	14.764	2.33
3	MP4A	Mx	0	2.33
4	MP4A	X	0	4.33
5	MP4A	Z	14.764	4.33
6	MP4A	Mx	0	4.33
7	MP4B	X	0	2.33
8	MP4B	Z	14.764	2.33
9	MP4B	Mx	0	2.33
10	MP4B	X	0	4.33
11	MP4B	Z	14.764	4.33
12	MP4B	Mx	0	4.33
13	MP2A	X	0	1.33
14	MP2A	Z	29.946	1.33
15	MP2A	Mx	0	1.33
16	MP2A	X	0	5.33
17	MP2A	Z	29.946	5.33
18	MP2A	Mx	0	5.33
19	MP2B	X	0	1.33
20	MP2B	Z	26.93	1.33
21	MP2B	Mx	-.013	1.33
22	MP2B	X	0	5.33
23	MP2B	Z	26.93	5.33
24	MP2B	Mx	-.013	5.33
25	MP2A	X	0	1.33
26	MP2A	Z	29.946	1.33
27	MP2A	Mx	0	1.33



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
28	MP2A	X	0	5.33
29	MP2A	Z	29.946	5.33
30	MP2A	Mx	0	5.33
31	MP2B	X	0	1.33
32	MP2B	Z	26.93	1.33
33	MP2B	Mx	-.013	1.33
34	MP2B	X	0	5.33
35	MP2B	Z	26.93	5.33
36	MP2B	Mx	-.013	5.33
37	OVP1	X	0	1
38	OVP1	Z	14.046	1
39	OVP1	Mx	.005	1
40	MP3A	X	0	3.58
41	MP3A	Z	10.864	3.58
42	MP3A	Mx	-.003	3.58
43	MP3B	X	0	3.58
44	MP3B	Z	10.864	3.58
45	MP3B	Mx	-.003	3.58
46	MP3A	X	0	1
47	MP3A	Z	10.268	1
48	MP3A	Mx	-.003	1
49	MP3B	X	0	1
50	MP3B	Z	10.268	1
51	MP3B	Mx	-.003	1
52	OVP2	X	0	1
53	OVP2	Z	14.046	1
54	OVP2	Mx	.005	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP4A	X	-6.321	2.33
2	MP4A	Z	10.949	2.33
3	MP4A	Mx	.005	2.33
4	MP4A	X	-6.321	4.33
5	MP4A	Z	10.949	4.33
6	MP4A	Mx	.005	4.33
7	MP4B	X	-6.321	2.33
8	MP4B	Z	10.949	2.33
9	MP4B	Mx	.005	2.33
10	MP4B	X	-6.321	4.33
11	MP4B	Z	10.949	4.33
12	MP4B	Mx	.005	4.33
13	MP2A	X	-14.06	1.33
14	MP2A	Z	24.353	1.33
15	MP2A	Mx	.011	1.33
16	MP2A	X	-14.06	5.33
17	MP2A	Z	24.353	5.33
18	MP2A	Mx	.011	5.33
19	MP2B	X	-11.75	1.33
20	MP2B	Z	20.352	1.33
21	MP2B	Mx	-.017	1.33
22	MP2B	X	-11.75	5.33
23	MP2B	Z	20.352	5.33
24	MP2B	Mx	-.017	5.33
25	MP2A	X	-14.06	1.33
26	MP2A	Z	24.353	1.33



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
27	MP2A	Mx	.011	1.33
28	MP2A	X	-14.06	5.33
29	MP2A	Z	24.353	5.33
30	MP2A	Mx	.011	5.33
31	MP2B	X	-11.75	1.33
32	MP2B	Z	20.352	1.33
33	MP2B	Mx	-.017	1.33
34	MP2B	X	-11.75	5.33
35	MP2B	Z	20.352	5.33
36	MP2B	Mx	-.017	5.33
37	OVP1	X	-5.798	1
38	OVP1	Z	10.042	1
39	OVP1	Mx	.005	1
40	MP3A	X	-4.541	3.58
41	MP3A	Z	7.866	3.58
42	MP3A	Mx	-.004	3.58
43	MP3B	X	-4.541	3.58
44	MP3B	Z	7.866	3.58
45	MP3B	Mx	-.004	3.58
46	MP3A	X	-3.905	1
47	MP3A	Z	6.764	1
48	MP3A	Mx	-.004	1
49	MP3B	X	-3.905	1
50	MP3B	Z	6.764	1
51	MP3B	Mx	-.004	1
52	OVP2	X	-5.798	1
53	OVP2	Z	10.042	1
54	OVP2	Mx	.005	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP4A	X	-7.274	2.33
2	MP4A	Z	4.2	2.33
3	MP4A	Mx	.005	2.33
4	MP4A	X	-7.274	4.33
5	MP4A	Z	4.2	4.33
6	MP4A	Mx	.005	4.33
7	MP4B	X	-7.274	2.33
8	MP4B	Z	4.2	2.33
9	MP4B	Mx	.005	2.33
10	MP4B	X	-7.274	4.33
11	MP4B	Z	4.2	4.33
12	MP4B	Mx	.005	4.33
13	MP2A	X	-21.193	1.33
14	MP2A	Z	12.236	1.33
15	MP2A	Mx	.016	1.33
16	MP2A	X	-21.193	5.33
17	MP2A	Z	12.236	5.33
18	MP2A	Mx	.016	5.33
19	MP2B	X	-19.803	1.33
20	MP2B	Z	11.433	1.33
21	MP2B	Mx	-.017	1.33
22	MP2B	X	-19.803	5.33
23	MP2B	Z	11.433	5.33
24	MP2B	Mx	-.017	5.33
25	MP2A	X	-21.193	1.33



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft.-%]
26	MP2A	Z	12.236	1.33
27	MP2A	Mx	.016	1.33
28	MP2A	X	-21.193	5.33
29	MP2A	Z	12.236	5.33
30	MP2A	Mx	.016	5.33
31	MP2B	X	-19.803	1.33
32	MP2B	Z	11.433	1.33
33	MP2B	Mx	-.017	1.33
34	MP2B	X	-19.803	5.33
35	MP2B	Z	11.433	5.33
36	MP2B	Mx	-.017	5.33
37	OVP1	X	-9.649	1
38	OVP1	Z	5.571	1
39	OVP1	Mx	.005	1
40	MP3A	X	-7.581	3.58
41	MP3A	Z	4.377	3.58
42	MP3A	Mx	-.004	3.58
43	MP3B	X	-7.581	3.58
44	MP3B	Z	4.377	3.58
45	MP3B	Mx	-.004	3.58
46	MP3A	X	-6.371	1
47	MP3A	Z	3.678	1
48	MP3A	Mx	-.004	1
49	MP3B	X	-6.371	1
50	MP3B	Z	3.678	1
51	MP3B	Mx	-.004	1
52	OVP2	X	-9.649	1
53	OVP2	Z	5.571	1
54	OVP2	Mx	.005	1

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft.-%]
1	MP4A	X	-6.278	2.33
2	MP4A	Z	0	2.33
3	MP4A	Mx	.005	2.33
4	MP4A	X	-6.278	4.33
5	MP4A	Z	0	4.33
6	MP4A	Mx	.005	4.33
7	MP4B	X	-6.278	2.33
8	MP4B	Z	0	2.33
9	MP4B	Mx	.005	2.33
10	MP4B	X	-6.278	4.33
11	MP4B	Z	0	4.33
12	MP4B	Mx	.005	4.33
13	MP2A	X	-22.646	1.33
14	MP2A	Z	0	1.33
15	MP2A	Mx	.017	1.33
16	MP2A	X	-22.646	5.33
17	MP2A	Z	0	5.33
18	MP2A	Mx	.017	5.33
19	MP2B	X	-25.662	1.33
20	MP2B	Z	0	1.33
21	MP2B	Mx	-.015	1.33
22	MP2B	X	-25.662	5.33
23	MP2B	Z	0	5.33
24	MP2B	Mx	-.015	5.33



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
25	MP2A	X	-22.646	1.33
26	MP2A	Z	0	1.33
27	MP2A	Mx	.017	1.33
28	MP2A	X	-22.646	5.33
29	MP2A	Z	0	5.33
30	MP2A	Mx	.017	5.33
31	MP2B	X	-25.662	1.33
32	MP2B	Z	0	1.33
33	MP2B	Mx	-.015	1.33
34	MP2B	X	-25.662	5.33
35	MP2B	Z	0	5.33
36	MP2B	Mx	-.015	5.33
37	OVP1	X	-13.14	1
38	OVP1	Z	0	1
39	OVP1	Mx	.005	1
40	MP3A	X	-10.205	3.58
41	MP3A	Z	0	3.58
42	MP3A	Mx	-.004	3.58
43	MP3B	X	-10.205	3.58
44	MP3B	Z	0	3.58
45	MP3B	Mx	-.004	3.58
46	MP3A	X	-9.36	1
47	MP3A	Z	0	1
48	MP3A	Mx	-.004	1
49	MP3B	X	-9.36	1
50	MP3B	Z	0	1
51	MP3B	Mx	-.004	1
52	OVP2	X	-13.14	1
53	OVP2	Z	0	1
54	OVP2	Mx	.005	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP4A	X	-7.274	2.33
2	MP4A	Z	-4.2	2.33
3	MP4A	Mx	.005	2.33
4	MP4A	X	-7.274	4.33
5	MP4A	Z	-4.2	4.33
6	MP4A	Mx	.005	4.33
7	MP4B	X	-7.274	2.33
8	MP4B	Z	-4.2	2.33
9	MP4B	Mx	.005	2.33
10	MP4B	X	-7.274	4.33
11	MP4B	Z	-4.2	4.33
12	MP4B	Mx	.005	4.33
13	MP2A	X	-21.193	1.33
14	MP2A	Z	-12.236	1.33
15	MP2A	Mx	.016	1.33
16	MP2A	X	-21.193	5.33
17	MP2A	Z	-12.236	5.33
18	MP2A	Mx	.016	5.33
19	MP2B	X	-25.194	1.33
20	MP2B	Z	-14.546	1.33
21	MP2B	Mx	-.007	1.33
22	MP2B	X	-25.194	5.33
23	MP2B	Z	-14.546	5.33



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
24	MP2B	Mx	-.007	5.33
25	MP2A	X	-21.193	1.33
26	MP2A	Z	-12.236	1.33
27	MP2A	Mx	.016	1.33
28	MP2A	X	-21.193	5.33
29	MP2A	Z	-12.236	5.33
30	MP2A	Mx	.016	5.33
31	MP2B	X	-25.194	1.33
32	MP2B	Z	-14.546	1.33
33	MP2B	Mx	-.007	1.33
34	MP2B	X	-25.194	5.33
35	MP2B	Z	-14.546	5.33
36	MP2B	Mx	-.007	5.33
37	OVP1	X	-13.503	1
38	OVP1	Z	-7.796	1
39	OVP1	Mx	.003	1
40	MP3A	X	-10.38	3.58
41	MP3A	Z	-5.993	3.58
42	MP3A	Mx	-.002	3.58
43	MP3B	X	-10.38	3.58
44	MP3B	Z	-5.993	3.58
45	MP3B	Mx	-.002	3.58
46	MP3A	X	-10.235	1
47	MP3A	Z	-5.909	1
48	MP3A	Mx	-.002	1
49	MP3B	X	-10.235	1
50	MP3B	Z	-5.909	1
51	MP3B	Mx	-.002	1
52	OVP2	X	-13.503	1
53	OVP2	Z	-7.796	1
54	OVP2	Mx	.003	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP4A	X	-6.321	2.33
2	MP4A	Z	-10.949	2.33
3	MP4A	Mx	.005	2.33
4	MP4A	X	-6.321	4.33
5	MP4A	Z	-10.949	4.33
6	MP4A	Mx	.005	4.33
7	MP4B	X	-6.321	2.33
8	MP4B	Z	-10.949	2.33
9	MP4B	Mx	.005	2.33
10	MP4B	X	-6.321	4.33
11	MP4B	Z	-10.949	4.33
12	MP4B	Mx	.005	4.33
13	MP2A	X	-14.06	1.33
14	MP2A	Z	-24.353	1.33
15	MP2A	Mx	.011	1.33
16	MP2A	X	-14.06	5.33
17	MP2A	Z	-24.353	5.33
18	MP2A	Mx	.011	5.33
19	MP2B	X	-14.863	1.33
20	MP2B	Z	-25.743	1.33
21	MP2B	Mx	.004	1.33
22	MP2B	X	-14.863	5.33



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
23	MP2B	Z	-25.743	5.33
24	MP2B	Mx	.004	5.33
25	MP2A	X	-14.06	1.33
26	MP2A	Z	-24.353	1.33
27	MP2A	Mx	.011	1.33
28	MP2A	X	-14.06	5.33
29	MP2A	Z	-24.353	5.33
30	MP2A	Mx	.011	5.33
31	MP2B	X	-14.863	1.33
32	MP2B	Z	-25.743	1.33
33	MP2B	Mx	.004	1.33
34	MP2B	X	-14.863	5.33
35	MP2B	Z	-25.743	5.33
36	MP2B	Mx	.004	5.33
37	OVP1	X	-8.022	1
38	OVP1	Z	-13.895	1
39	OVP1	Mx	-.001	1
40	MP3A	X	-6.158	3.58
41	MP3A	Z	-10.665	3.58
42	MP3A	Mx	.001	3.58
43	MP3B	X	-6.158	3.58
44	MP3B	Z	-10.665	3.58
45	MP3B	Mx	.001	3.58
46	MP3A	X	-6.136	1
47	MP3A	Z	-10.628	1
48	MP3A	Mx	.001	1
49	MP3B	X	-6.136	1
50	MP3B	Z	-10.628	1
51	MP3B	Mx	.001	1
52	OVP2	X	-8.022	1
53	OVP2	Z	-13.895	1
54	OVP2	Mx	-.001	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP4A	X	0	2.33
2	MP4A	Z	-4.716	2.33
3	MP4A	Mx	0	2.33
4	MP4A	X	0	4.33
5	MP4A	Z	-4.716	4.33
6	MP4A	Mx	0	4.33
7	MP4B	X	0	2.33
8	MP4B	Z	-4.716	2.33
9	MP4B	Mx	0	2.33
10	MP4B	X	0	4.33
11	MP4B	Z	-4.716	4.33
12	MP4B	Mx	0	4.33
13	MP2A	X	0	1.33
14	MP2A	Z	-9.903	1.33
15	MP2A	Mx	0	1.33
16	MP2A	X	0	5.33
17	MP2A	Z	-9.903	5.33
18	MP2A	Mx	0	5.33
19	MP2B	X	0	1.33
20	MP2B	Z	-8.853	1.33
21	MP2B	Mx	.004	1.33



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
22	MP2B	X	0	5.33
23	MP2B	Z	-8.853	5.33
24	MP2B	Mx	.004	5.33
25	MP2A	X	0	1.33
26	MP2A	Z	-9.903	1.33
27	MP2A	Mx	0	1.33
28	MP2A	X	0	5.33
29	MP2A	Z	-9.903	5.33
30	MP2A	Mx	0	5.33
31	MP2B	X	0	1.33
32	MP2B	Z	-8.853	1.33
33	MP2B	Mx	.004	1.33
34	MP2B	X	0	5.33
35	MP2B	Z	-8.853	5.33
36	MP2B	Mx	.004	5.33
37	OVP1	X	0	1
38	OVP1	Z	-4.29	1
39	OVP1	Mx	-.001	1
40	MP3A	X	0	3.58
41	MP3A	Z	-3.238	3.58
42	MP3A	Mx	.001	3.58
43	MP3B	X	0	3.58
44	MP3B	Z	-3.238	3.58
45	MP3B	Mx	.001	3.58
46	MP3A	X	0	1
47	MP3A	Z	-3.042	1
48	MP3A	Mx	.000978	1
49	MP3B	X	0	1
50	MP3B	Z	-3.042	1
51	MP3B	Mx	.000978	1
52	OVP2	X	0	1
53	OVP2	Z	-4.29	1
54	OVP2	Mx	-.001	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP4A	X	1.999	2.33
2	MP4A	Z	-3.463	2.33
3	MP4A	Mx	-.001	2.33
4	MP4A	X	1.999	4.33
5	MP4A	Z	-3.463	4.33
6	MP4A	Mx	-.001	4.33
7	MP4B	X	1.999	2.33
8	MP4B	Z	-3.463	2.33
9	MP4B	Mx	-.001	2.33
10	MP4B	X	1.999	4.33
11	MP4B	Z	-3.463	4.33
12	MP4B	Mx	-.001	4.33
13	MP2A	X	4.634	1.33
14	MP2A	Z	-8.026	1.33
15	MP2A	Mx	-.003	1.33
16	MP2A	X	4.634	5.33
17	MP2A	Z	-8.026	5.33
18	MP2A	Mx	-.003	5.33
19	MP2B	X	3.83	1.33
20	MP2B	Z	-6.633	1.33



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft.-%]
21	MP2B	Mx	.005	1.33
22	MP2B	X	3.83	5.33
23	MP2B	Z	-6.633	5.33
24	MP2B	Mx	.005	5.33
25	MP2A	X	4.634	1.33
26	MP2A	Z	-8.026	1.33
27	MP2A	Mx	-.003	1.33
28	MP2A	X	4.634	5.33
29	MP2A	Z	-8.026	5.33
30	MP2A	Mx	-.003	5.33
31	MP2B	X	3.83	1.33
32	MP2B	Z	-6.633	1.33
33	MP2B	Mx	.005	1.33
34	MP2B	X	3.83	5.33
35	MP2B	Z	-6.633	5.33
36	MP2B	Mx	.005	5.33
37	OVP1	X	1.732	1
38	OVP1	Z	-3	1
39	OVP1	Mx	-.002	1
40	MP3A	X	1.327	3.58
41	MP3A	Z	-2.298	3.58
42	MP3A	Mx	.001	3.58
43	MP3B	X	1.327	3.58
44	MP3B	Z	-2.298	3.58
45	MP3B	Mx	.001	3.58
46	MP3A	X	1.117	1
47	MP3A	Z	-1.934	1
48	MP3A	Mx	.001	1
49	MP3B	X	1.117	1
50	MP3B	Z	-1.934	1
51	MP3B	Mx	.001	1
52	OVP2	X	1.732	1
53	OVP2	Z	-3	1
54	OVP2	Mx	-.002	1

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft.-%]
1	MP4A	X	2.22	2.33
2	MP4A	Z	-1.282	2.33
3	MP4A	Mx	-.002	2.33
4	MP4A	X	2.22	4.33
5	MP4A	Z	-1.282	4.33
6	MP4A	Mx	-.002	4.33
7	MP4B	X	2.22	2.33
8	MP4B	Z	-1.282	2.33
9	MP4B	Mx	-.002	2.33
10	MP4B	X	2.22	4.33
11	MP4B	Z	-1.282	4.33
12	MP4B	Mx	-.002	4.33
13	MP2A	X	6.926	1.33
14	MP2A	Z	-3.999	1.33
15	MP2A	Mx	-.005	1.33
16	MP2A	X	6.926	5.33
17	MP2A	Z	-3.999	5.33
18	MP2A	Mx	-.005	5.33
19	MP2B	X	6.442	1.33



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft,%]
20	MP2B	Z	-3.72	1.33
21	MP2B	Mx	.005	1.33
22	MP2B	X	6.442	5.33
23	MP2B	Z	-3.72	5.33
24	MP2B	Mx	.005	5.33
25	MP2A	X	6.926	1.33
26	MP2A	Z	-3.999	1.33
27	MP2A	Mx	-.005	1.33
28	MP2A	X	6.926	5.33
29	MP2A	Z	-3.999	5.33
30	MP2A	Mx	-.005	5.33
31	MP2B	X	6.442	1.33
32	MP2B	Z	-3.72	1.33
33	MP2B	Mx	.005	1.33
34	MP2B	X	6.442	5.33
35	MP2B	Z	-3.72	5.33
36	MP2B	Mx	.005	5.33
37	OVP1	X	2.867	1
38	OVP1	Z	-1.655	1
39	OVP1	Mx	-.002	1
40	MP3A	X	2.205	3.58
41	MP3A	Z	-1.273	3.58
42	MP3A	Mx	.001	3.58
43	MP3B	X	2.205	3.58
44	MP3B	Z	-1.273	3.58
45	MP3B	Mx	.001	3.58
46	MP3A	X	1.804	1
47	MP3A	Z	-1.042	1
48	MP3A	Mx	.001	1
49	MP3B	X	1.804	1
50	MP3B	Z	-1.042	1
51	MP3B	Mx	.001	1
52	OVP2	X	2.867	1
53	OVP2	Z	-1.655	1
54	OVP2	Mx	-.002	1

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[ft,%]
1	MP4A	X	1.846	2.33
2	MP4A	Z	0	2.33
3	MP4A	Mx	-.001	2.33
4	MP4A	X	1.846	4.33
5	MP4A	Z	0	4.33
6	MP4A	Mx	-.001	4.33
7	MP4B	X	1.846	2.33
8	MP4B	Z	0	2.33
9	MP4B	Mx	-.001	2.33
10	MP4B	X	1.846	4.33
11	MP4B	Z	0	4.33
12	MP4B	Mx	-.001	4.33
13	MP2A	X	7.362	1.33
14	MP2A	Z	0	1.33
15	MP2A	Mx	-.006	1.33
16	MP2A	X	7.362	5.33
17	MP2A	Z	0	5.33
18	MP2A	Mx	-.006	5.33



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
19	MP2B	X	8.412	1.33
20	MP2B	Z	0	1.33
21	MP2B	Mx	.005	1.33
22	MP2B	X	8.412	5.33
23	MP2B	Z	0	5.33
24	MP2B	Mx	.005	5.33
25	MP2A	X	7.362	1.33
26	MP2A	Z	0	1.33
27	MP2A	Mx	-.006	1.33
28	MP2A	X	7.362	5.33
29	MP2A	Z	0	5.33
30	MP2A	Mx	-.006	5.33
31	MP2B	X	8.412	1.33
32	MP2B	Z	0	1.33
33	MP2B	Mx	.005	1.33
34	MP2B	X	8.412	5.33
35	MP2B	Z	0	5.33
36	MP2B	Mx	.005	5.33
37	OVP1	X	3.985	1
38	OVP1	Z	0	1
39	OVP1	Mx	-.002	1
40	MP3A	X	3.022	3.58
41	MP3A	Z	0	3.58
42	MP3A	Mx	.001	3.58
43	MP3B	X	3.022	3.58
44	MP3B	Z	0	3.58
45	MP3B	Mx	.001	3.58
46	MP3A	X	2.743	1
47	MP3A	Z	0	1
48	MP3A	Mx	.001	1
49	MP3B	X	2.743	1
50	MP3B	Z	0	1
51	MP3B	Mx	.001	1
52	OVP2	X	3.985	1
53	OVP2	Z	0	1
54	OVP2	Mx	-.002	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP4A	X	2.22	2.33
2	MP4A	Z	1.282	2.33
3	MP4A	Mx	-.002	2.33
4	MP4A	X	2.22	4.33
5	MP4A	Z	1.282	4.33
6	MP4A	Mx	-.002	4.33
7	MP4B	X	2.22	2.33
8	MP4B	Z	1.282	2.33
9	MP4B	Mx	-.002	2.33
10	MP4B	X	2.22	4.33
11	MP4B	Z	1.282	4.33
12	MP4B	Mx	-.002	4.33
13	MP2A	X	6.926	1.33
14	MP2A	Z	3.999	1.33
15	MP2A	Mx	-.005	1.33
16	MP2A	X	6.926	5.33
17	MP2A	Z	3.999	5.33



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
18	MP2A	Mx	-.005	5.33
19	MP2B	X	8.319	1.33
20	MP2B	Z	4.803	1.33
21	MP2B	Mx	.002	1.33
22	MP2B	X	8.319	5.33
23	MP2B	Z	4.803	5.33
24	MP2B	Mx	.002	5.33
25	MP2A	X	6.926	1.33
26	MP2A	Z	3.999	1.33
27	MP2A	Mx	-.005	1.33
28	MP2A	X	6.926	5.33
29	MP2A	Z	3.999	5.33
30	MP2A	Mx	-.005	5.33
31	MP2B	X	8.319	1.33
32	MP2B	Z	4.803	1.33
33	MP2B	Mx	.002	1.33
34	MP2B	X	8.319	5.33
35	MP2B	Z	4.803	5.33
36	MP2B	Mx	.002	5.33
37	OVP1	X	4.166	1
38	OVP1	Z	2.405	1
39	OVP1	Mx	-.000823	1
40	MP3A	X	3.124	3.58
41	MP3A	Z	1.803	3.58
42	MP3A	Mx	.000617	3.58
43	MP3B	X	3.124	3.58
44	MP3B	Z	1.803	3.58
45	MP3B	Mx	.000617	3.58
46	MP3A	X	3.075	1
47	MP3A	Z	1.776	1
48	MP3A	Mx	.000607	1
49	MP3B	X	3.075	1
50	MP3B	Z	1.776	1
51	MP3B	Mx	.000607	1
52	OVP2	X	4.166	1
53	OVP2	Z	2.405	1
54	OVP2	Mx	-.000823	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP4A	X	1.999	2.33
2	MP4A	Z	3.463	2.33
3	MP4A	Mx	-.001	2.33
4	MP4A	X	1.999	4.33
5	MP4A	Z	3.463	4.33
6	MP4A	Mx	-.001	4.33
7	MP4B	X	1.999	2.33
8	MP4B	Z	3.463	2.33
9	MP4B	Mx	-.001	2.33
10	MP4B	X	1.999	4.33
11	MP4B	Z	3.463	4.33
12	MP4B	Mx	-.001	4.33
13	MP2A	X	4.634	1.33
14	MP2A	Z	8.026	1.33
15	MP2A	Mx	-.003	1.33
16	MP2A	X	4.634	5.33



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft, %]
17	MP2A	Z	8.026	5.33
18	MP2A	Mx	-0.003	5.33
19	MP2B	X	4.913	1.33
20	MP2B	Z	8.51	1.33
21	MP2B	Mx	-0.001	1.33
22	MP2B	X	4.913	5.33
23	MP2B	Z	8.51	5.33
24	MP2B	Mx	-0.001	5.33
25	MP2A	X	4.634	1.33
26	MP2A	Z	8.026	1.33
27	MP2A	Mx	-0.003	1.33
28	MP2A	X	4.634	5.33
29	MP2A	Z	8.026	5.33
30	MP2A	Mx	-0.003	5.33
31	MP2B	X	4.913	1.33
32	MP2B	Z	8.51	1.33
33	MP2B	Mx	-0.001	1.33
34	MP2B	X	4.913	5.33
35	MP2B	Z	8.51	5.33
36	MP2B	Mx	-0.001	5.33
37	OVP1	X	2.482	1
38	OVP1	Z	4.299	1
39	OVP1	Mx	.000431	1
40	MP3A	X	1.857	3.58
41	MP3A	Z	3.217	3.58
42	MP3A	Mx	-.000323	3.58
43	MP3B	X	1.857	3.58
44	MP3B	Z	3.217	3.58
45	MP3B	Mx	-.000323	3.58
46	MP3A	X	1.85	1
47	MP3A	Z	3.205	1
48	MP3A	Mx	-.000321	1
49	MP3B	X	1.85	1
50	MP3B	Z	3.205	1
51	MP3B	Mx	-.000321	1
52	OVP2	X	2.482	1
53	OVP2	Z	4.299	1
54	OVP2	Mx	.000431	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft, %]
1	MP4A	X	0	2.33
2	MP4A	Z	4.716	2.33
3	MP4A	Mx	0	2.33
4	MP4A	X	0	4.33
5	MP4A	Z	4.716	4.33
6	MP4A	Mx	0	4.33
7	MP4B	X	0	2.33
8	MP4B	Z	4.716	2.33
9	MP4B	Mx	0	2.33
10	MP4B	X	0	4.33
11	MP4B	Z	4.716	4.33
12	MP4B	Mx	0	4.33
13	MP2A	X	0	1.33
14	MP2A	Z	9.903	1.33
15	MP2A	Mx	0	1.33



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

	Member Label	Direction	Magnitude[lb.-ft]	Location[ft.-%]
16	MP2A	X	0	5.33
17	MP2A	Z	9.903	5.33
18	MP2A	Mx	0	5.33
19	MP2B	X	0	1.33
20	MP2B	Z	8.853	1.33
21	MP2B	Mx	-.004	1.33
22	MP2B	X	0	5.33
23	MP2B	Z	8.853	5.33
24	MP2B	Mx	-.004	5.33
25	MP2A	X	0	1.33
26	MP2A	Z	9.903	1.33
27	MP2A	Mx	0	1.33
28	MP2A	X	0	5.33
29	MP2A	Z	9.903	5.33
30	MP2A	Mx	0	5.33
31	MP2B	X	0	1.33
32	MP2B	Z	8.853	1.33
33	MP2B	Mx	-.004	1.33
34	MP2B	X	0	5.33
35	MP2B	Z	8.853	5.33
36	MP2B	Mx	-.004	5.33
37	OVP1	X	0	1
38	OVP1	Z	4.29	1
39	OVP1	Mx	.001	1
40	MP3A	X	0	3.58
41	MP3A	Z	3.238	3.58
42	MP3A	Mx	-.001	3.58
43	MP3B	X	0	3.58
44	MP3B	Z	3.238	3.58
45	MP3B	Mx	-.001	3.58
46	MP3A	X	0	1
47	MP3A	Z	3.042	1
48	MP3A	Mx	-.000978	1
49	MP3B	X	0	1
50	MP3B	Z	3.042	1
51	MP3B	Mx	-.000978	1
52	OVP2	X	0	1
53	OVP2	Z	4.29	1
54	OVP2	Mx	.001	1

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

	Member Label	Direction	Magnitude[lb.-ft]	Location[ft.-%]
1	MP4A	X	-1.999	2.33
2	MP4A	Z	3.463	2.33
3	MP4A	Mx	.001	2.33
4	MP4A	X	-1.999	4.33
5	MP4A	Z	3.463	4.33
6	MP4A	Mx	.001	4.33
7	MP4B	X	-1.999	2.33
8	MP4B	Z	3.463	2.33
9	MP4B	Mx	.001	2.33
10	MP4B	X	-1.999	4.33
11	MP4B	Z	3.463	4.33
12	MP4B	Mx	.001	4.33
13	MP2A	X	-4.634	1.33
14	MP2A	Z	8.026	1.33



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

	Member Label	Direction	Magnitude[lb.-ft]	Location[ft.-%]
15	MP2A	Mx	.003	1.33
16	MP2A	X	-4.634	5.33
17	MP2A	Z	8.026	5.33
18	MP2A	Mx	.003	5.33
19	MP2B	X	-3.83	1.33
20	MP2B	Z	6.633	1.33
21	MP2B	Mx	-.005	1.33
22	MP2B	X	-3.83	5.33
23	MP2B	Z	6.633	5.33
24	MP2B	Mx	-.005	5.33
25	MP2A	X	-4.634	1.33
26	MP2A	Z	8.026	1.33
27	MP2A	Mx	.003	1.33
28	MP2A	X	-4.634	5.33
29	MP2A	Z	8.026	5.33
30	MP2A	Mx	.003	5.33
31	MP2B	X	-3.83	1.33
32	MP2B	Z	6.633	1.33
33	MP2B	Mx	-.005	1.33
34	MP2B	X	-3.83	5.33
35	MP2B	Z	6.633	5.33
36	MP2B	Mx	-.005	5.33
37	OVP1	X	-1.732	1
38	OVP1	Z	3	1
39	OVP1	Mx	.002	1
40	MP3A	X	-1.327	3.58
41	MP3A	Z	2.298	3.58
42	MP3A	Mx	-.001	3.58
43	MP3B	X	-1.327	3.58
44	MP3B	Z	2.298	3.58
45	MP3B	Mx	-.001	3.58
46	MP3A	X	-1.117	1
47	MP3A	Z	1.934	1
48	MP3A	Mx	-.001	1
49	MP3B	X	-1.117	1
50	MP3B	Z	1.934	1
51	MP3B	Mx	-.001	1
52	OVP2	X	-1.732	1
53	OVP2	Z	3	1
54	OVP2	Mx	.002	1

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

	Member Label	Direction	Magnitude[lb.-ft]	Location[ft.-%]
1	MP4A	X	-2.22	2.33
2	MP4A	Z	1.282	2.33
3	MP4A	Mx	.002	2.33
4	MP4A	X	-2.22	4.33
5	MP4A	Z	1.282	4.33
6	MP4A	Mx	.002	4.33
7	MP4B	X	-2.22	2.33
8	MP4B	Z	1.282	2.33
9	MP4B	Mx	.002	2.33
10	MP4B	X	-2.22	4.33
11	MP4B	Z	1.282	4.33
12	MP4B	Mx	.002	4.33
13	MP2A	X	-6.926	1.33



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
14	MP2A	Z	3.999	1.33
15	MP2A	Mx	.005	1.33
16	MP2A	X	-6.926	5.33
17	MP2A	Z	3.999	5.33
18	MP2A	Mx	.005	5.33
19	MP2B	X	-6.442	1.33
20	MP2B	Z	3.72	1.33
21	MP2B	Mx	-.005	1.33
22	MP2B	X	-6.442	5.33
23	MP2B	Z	3.72	5.33
24	MP2B	Mx	-.005	5.33
25	MP2A	X	-6.926	1.33
26	MP2A	Z	3.999	1.33
27	MP2A	Mx	.005	1.33
28	MP2A	X	-6.926	5.33
29	MP2A	Z	3.999	5.33
30	MP2A	Mx	.005	5.33
31	MP2B	X	-6.442	1.33
32	MP2B	Z	3.72	1.33
33	MP2B	Mx	-.005	1.33
34	MP2B	X	-6.442	5.33
35	MP2B	Z	3.72	5.33
36	MP2B	Mx	-.005	5.33
37	OVP1	X	-2.867	1
38	OVP1	Z	1.655	1
39	OVP1	Mx	.002	1
40	MP3A	X	-2.205	3.58
41	MP3A	Z	1.273	3.58
42	MP3A	Mx	-.001	3.58
43	MP3B	X	-2.205	3.58
44	MP3B	Z	1.273	3.58
45	MP3B	Mx	-.001	3.58
46	MP3A	X	-1.804	1
47	MP3A	Z	1.042	1
48	MP3A	Mx	-.001	1
49	MP3B	X	-1.804	1
50	MP3B	Z	1.042	1
51	MP3B	Mx	-.001	1
52	OVP2	X	-2.867	1
53	OVP2	Z	1.655	1
54	OVP2	Mx	.002	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP4A	X	-1.846	2.33
2	MP4A	Z	0	2.33
3	MP4A	Mx	.001	2.33
4	MP4A	X	-1.846	4.33
5	MP4A	Z	0	4.33
6	MP4A	Mx	.001	4.33
7	MP4B	X	-1.846	2.33
8	MP4B	Z	0	2.33
9	MP4B	Mx	.001	2.33
10	MP4B	X	-1.846	4.33
11	MP4B	Z	0	4.33
12	MP4B	Mx	.001	4.33

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft, %]
13	MP2A	X	-7.362	1.33
14	MP2A	Z	0	1.33
15	MP2A	Mx	.006	1.33
16	MP2A	X	-7.362	5.33
17	MP2A	Z	0	5.33
18	MP2A	Mx	.006	5.33
19	MP2B	X	-8.412	1.33
20	MP2B	Z	0	1.33
21	MP2B	Mx	-.005	1.33
22	MP2B	X	-8.412	5.33
23	MP2B	Z	0	5.33
24	MP2B	Mx	-.005	5.33
25	MP2A	X	-7.362	1.33
26	MP2A	Z	0	1.33
27	MP2A	Mx	.006	1.33
28	MP2A	X	-7.362	5.33
29	MP2A	Z	0	5.33
30	MP2A	Mx	.006	5.33
31	MP2B	X	-8.412	1.33
32	MP2B	Z	0	1.33
33	MP2B	Mx	-.005	1.33
34	MP2B	X	-8.412	5.33
35	MP2B	Z	0	5.33
36	MP2B	Mx	-.005	5.33
37	OVP1	X	-3.985	1
38	OVP1	Z	0	1
39	OVP1	Mx	.002	1
40	MP3A	X	-3.022	3.58
41	MP3A	Z	0	3.58
42	MP3A	Mx	-.001	3.58
43	MP3B	X	-3.022	3.58
44	MP3B	Z	0	3.58
45	MP3B	Mx	-.001	3.58
46	MP3A	X	-2.743	1
47	MP3A	Z	0	1
48	MP3A	Mx	-.001	1
49	MP3B	X	-2.743	1
50	MP3B	Z	0	1
51	MP3B	Mx	-.001	1
52	OVP2	X	-3.985	1
53	OVP2	Z	0	1
54	OVP2	Mx	.002	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft, %]
1	MP4A	X	-2.22	2.33
2	MP4A	Z	-1.282	2.33
3	MP4A	Mx	.002	2.33
4	MP4A	X	-2.22	4.33
5	MP4A	Z	-1.282	4.33
6	MP4A	Mx	.002	4.33
7	MP4B	X	-2.22	2.33
8	MP4B	Z	-1.282	2.33
9	MP4B	Mx	.002	2.33
10	MP4B	X	-2.22	4.33
11	MP4B	Z	-1.282	4.33



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
12	MP4B	Mx	.002	4.33
13	MP2A	X	-6.926	1.33
14	MP2A	Z	-3.999	1.33
15	MP2A	Mx	.005	1.33
16	MP2A	X	-6.926	5.33
17	MP2A	Z	-3.999	5.33
18	MP2A	Mx	.005	5.33
19	MP2B	X	-8.319	1.33
20	MP2B	Z	-4.803	1.33
21	MP2B	Mx	-.002	1.33
22	MP2B	X	-8.319	5.33
23	MP2B	Z	-4.803	5.33
24	MP2B	Mx	-.002	5.33
25	MP2A	X	-6.926	1.33
26	MP2A	Z	-3.999	1.33
27	MP2A	Mx	.005	1.33
28	MP2A	X	-6.926	5.33
29	MP2A	Z	-3.999	5.33
30	MP2A	Mx	.005	5.33
31	MP2B	X	-8.319	1.33
32	MP2B	Z	-4.803	1.33
33	MP2B	Mx	-.002	1.33
34	MP2B	X	-8.319	5.33
35	MP2B	Z	-4.803	5.33
36	MP2B	Mx	-.002	5.33
37	OVP1	X	-4.166	1
38	OVP1	Z	-2.405	1
39	OVP1	Mx	.000823	1
40	MP3A	X	-3.124	3.58
41	MP3A	Z	-1.803	3.58
42	MP3A	Mx	-.000617	3.58
43	MP3B	X	-3.124	3.58
44	MP3B	Z	-1.803	3.58
45	MP3B	Mx	-.000617	3.58
46	MP3A	X	-3.075	1
47	MP3A	Z	-1.776	1
48	MP3A	Mx	-.000607	1
49	MP3B	X	-3.075	1
50	MP3B	Z	-1.776	1
51	MP3B	Mx	-.000607	1
52	OVP2	X	-4.166	1
53	OVP2	Z	-2.405	1
54	OVP2	Mx	.000823	1

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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	MP4A	X	-1.999	2.33
2	MP4A	Z	-3.463	2.33
3	MP4A	Mx	.001	2.33
4	MP4A	X	-1.999	4.33
5	MP4A	Z	-3.463	4.33
6	MP4A	Mx	.001	4.33
7	MP4B	X	-1.999	2.33
8	MP4B	Z	-3.463	2.33
9	MP4B	Mx	.001	2.33
10	MP4B	X	-1.999	4.33



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

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft, %]
11	MP4B	Z	-3.463	4.33
12	MP4B	Mx	.001	4.33
13	MP2A	X	-4.634	1.33
14	MP2A	Z	-8.026	1.33
15	MP2A	Mx	.003	1.33
16	MP2A	X	-4.634	5.33
17	MP2A	Z	-8.026	5.33
18	MP2A	Mx	.003	5.33
19	MP2B	X	-4.913	1.33
20	MP2B	Z	-8.51	1.33
21	MP2B	Mx	.001	1.33
22	MP2B	X	-4.913	5.33
23	MP2B	Z	-8.51	5.33
24	MP2B	Mx	.001	5.33
25	MP2A	X	-4.634	1.33
26	MP2A	Z	-8.026	1.33
27	MP2A	Mx	.003	1.33
28	MP2A	X	-4.634	5.33
29	MP2A	Z	-8.026	5.33
30	MP2A	Mx	.003	5.33
31	MP2B	X	-4.913	1.33
32	MP2B	Z	-8.51	1.33
33	MP2B	Mx	.001	1.33
34	MP2B	X	-4.913	5.33
35	MP2B	Z	-8.51	5.33
36	MP2B	Mx	.001	5.33
37	OVP1	X	-2.482	1
38	OVP1	Z	-4.299	1
39	OVP1	Mx	-.000431	1
40	MP3A	X	-1.857	3.58
41	MP3A	Z	-3.217	3.58
42	MP3A	Mx	.000323	3.58
43	MP3B	X	-1.857	3.58
44	MP3B	Z	-3.217	3.58
45	MP3B	Mx	.000323	3.58
46	MP3A	X	-1.85	1
47	MP3A	Z	-3.205	1
48	MP3A	Mx	.000321	1
49	MP3B	X	-1.85	1
50	MP3B	Z	-3.205	1
51	MP3B	Mx	.000321	1
52	OVP2	X	-2.482	1
53	OVP2	Z	-4.299	1
54	OVP2	Mx	-.000431	1

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft, %]
1	M20	Y	-500	%64

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft, %]
1	M20	Y	-500	%93

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft, %]
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Member Point Loads (BLC 79 : Lv1) (Continued)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	M20	Y	-250	%50

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[ft,%]
1	M20	Y	-250	%100

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M13	Y	-9.384	-9.384	0	%100
2	M20	Y	-6.402	-6.402	0	%100
3	M32	Y	-6.402	-6.402	0	%100
4	M33A	Y	-6.402	-6.402	0	%100
5	M41A	Y	-9.384	-9.384	0	%100
6	M42 1	Y	-9.384	-9.384	0	%100
7	M43A 1	Y	-9.887	-9.887	0	%100
8	M46A	Y	-5.474	-5.474	0	%100
9	M47	Y	-5.474	-5.474	0	%100
10	M64	Y	-9.875	-9.875	0	%100
11	M65	Y	-9.875	-9.875	0	%100
12	M71	Y	-9.887	-9.887	0	%100
13	M86	Y	-9.875	-9.875	0	%100
14	M87	Y	-9.875	-9.875	0	%100
15	M90	Y	-9.887	-9.887	0	%100
16	M50A	Y	-9.384	-9.384	0	%100
17	M51A	Y	-9.384	-9.384	0	%100
18	M52	Y	-9.384	-9.384	0	%100
19	M53A	Y	-9.887	-9.887	0	%100
20	M56	Y	-5.474	-5.474	0	%100
21	M57	Y	-5.474	-5.474	0	%100
22	M62	Y	-9.875	-9.875	0	%100
23	M63	Y	-9.875	-9.875	0	%100
24	M65A	Y	-9.887	-9.887	0	%100
25	M67	Y	-9.875	-9.875	0	%100
26	M68A	Y	-9.875	-9.875	0	%100
27	M70	Y	-9.887	-9.887	0	%100
28	M72A	Y	-9.384	-9.384	0	%100
29	M73	Y	-9.384	-9.384	0	%100
30	M74	Y	-9.384	-9.384	0	%100
31	M75	Y	-9.887	-9.887	0	%100
32	M78	Y	-5.474	-5.474	0	%100
33	M79	Y	-5.474	-5.474	0	%100
34	M84	Y	-9.875	-9.875	0	%100
35	M85	Y	-9.875	-9.875	0	%100
36	M87A	Y	-9.887	-9.887	0	%100
37	M89A	Y	-9.875	-9.875	0	%100
38	M90A	Y	-9.875	-9.875	0	%100
39	M92	Y	-9.887	-9.887	0	%100
40	M71B	Y	-8.476	-8.476	0	%100
41	M72B	Y	-8.476	-8.476	0	%100
42	M73A	Y	-8.476	-8.476	0	%100
43	MP4A	Y	-5.538	-5.538	0	%100
44	MP3A	Y	-5.538	-5.538	0	%100
45	MP2A	Y	-5.538	-5.538	0	%100
46	MP1A	Y	-5.538	-5.538	0	%100
47	MP4B	Y	-5.538	-5.538	0	%100



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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, %]
48	MP3B	Y	-5.538	-5.538	0	%100
49	MP2B	Y	-5.538	-5.538	0	%100
50	MP1B	Y	-5.538	-5.538	0	%100
51	OVP2	Y	-4.847	-4.847	0	%100
52	OVP1	Y	-4.847	-4.847	0	%100
53	MP4C	Y	-5.538	-5.538	0	%100
54	MP3C	Y	-5.538	-5.538	0	%100
55	MP2C	Y	-5.538	-5.538	0	%100
56	MP1C	Y	-5.538	-5.538	0	%100
57	M101	Y	-5.538	-5.538	0	%100
58	M108	Y	-5.538	-5.538	0	%100
59	M115	Y	-5.538	-5.538	0	%100
60	M122	Y	-7.429	-7.429	0	%100
61	M123	Y	-7.429	-7.429	0	%100
62	M124	Y	-7.429	-7.429	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	M13	X	0	0	0	%100
2	M13	Z	-8.928	-8.928	0	%100
3	M20	X	0	0	0	%100
4	M20	Z	-10.866	-10.866	0	%100
5	M32	X	0	0	0	%100
6	M32	Z	-2.716	-2.716	0	%100
7	M33A	X	0	0	0	%100
8	M33A	Z	-2.716	-2.716	0	%100
9	M41A	X	0	0	0	%100
10	M41A	Z	-2.339	-2.339	0	%100
11	M42_1	X	0	0	0	%100
12	M42_1	Z	-2.339	-2.339	0	%100
13	M43A_1	X	0	0	0	%100
14	M43A_1	Z	-4.657	-4.657	0	%100
15	M46A	X	0	0	0	%100
16	M46A	Z	-2.535	-2.535	0	%100
17	M47	X	0	0	0	%100
18	M47	Z	-10.142	-10.142	0	%100
19	M64	X	0	0	0	%100
20	M64	Z	-14.057	-14.057	0	%100
21	M65	X	0	0	0	%100
22	M65	Z	-18.972	-18.972	0	%100
23	M71	X	0	0	0	%100
24	M71	Z	-19.662	-19.662	0	%100
25	M86	X	0	0	0	%100
26	M86	Z	-14.057	-14.057	0	%100
27	M87	X	0	0	0	%100
28	M87	Z	-4.743	-4.743	0	%100
29	M90	X	0	0	0	%100
30	M90	Z	-4.916	-4.916	0	%100
31	M50A	X	0	0	0	%100
32	M50A	Z	-8.928	-8.928	0	%100
33	M51A	X	0	0	0	%100
34	M51A	Z	-2.339	-2.339	0	%100
35	M52	X	0	0	0	%100
36	M52	Z	-2.339	-2.339	0	%100
37	M53A	X	0	0	0	%100
38	M53A	Z	-4.657	-4.657	0	%100



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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, %]
39	M56	X	0	0	0	%100
40	M56	Z	-10.14	-10.14	0	%100
41	M57	X	0	0	0	%100
42	M57	Z	-2.535	-2.535	0	%100
43	M62	X	0	0	0	%100
44	M62	Z	-14.057	-14.057	0	%100
45	M63	X	0	0	0	%100
46	M63	Z	-4.743	-4.743	0	%100
47	M65A	X	0	0	0	%100
48	M65A	Z	-4.916	-4.916	0	%100
49	M67	X	0	0	0	%100
50	M67	Z	-14.057	-14.057	0	%100
51	M68A	X	0	0	0	%100
52	M68A	Z	-18.972	-18.972	0	%100
53	M70	X	0	0	0	%100
54	M70	Z	-19.662	-19.662	0	%100
55	M72A	X	0	0	0	%100
56	M72A	Z	0	0	0	%100
57	M73	X	0	0	0	%100
58	M73	Z	-9.358	-9.358	0	%100
59	M74	X	0	0	0	%100
60	M74	Z	-9.358	-9.358	0	%100
61	M75	X	0	0	0	%100
62	M75	Z	-18.627	-18.627	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	-2.535	-2.535	0	%100
65	M79	X	0	0	0	%100
66	M79	Z	-2.535	-2.535	0	%100
67	M84	X	0	0	0	%100
68	M84	Z	0	0	0	%100
69	M85	X	0	0	0	%100
70	M85	Z	-4.743	-4.743	0	%100
71	M87A	X	0	0	0	%100
72	M87A	Z	-4.916	-4.916	0	%100
73	M89A	X	0	0	0	%100
74	M89A	Z	0	0	0	%100
75	M90A	X	0	0	0	%100
76	M90A	Z	-4.743	-4.743	0	%100
77	M92	X	0	0	0	%100
78	M92	Z	-4.916	-4.916	0	%100
79	M71B	X	0	0	0	%100
80	M71B	Z	-10.902	-10.902	0	%100
81	M72B	X	0	0	0	%100
82	M72B	Z	-4.803	-4.803	0	%100
83	M73A	X	0	0	0	%100
84	M73A	Z	-10.902	-10.902	0	%100
85	MP4A	X	0	0	0	%100
86	MP4A	Z	-8.926	-8.926	0	%100
87	MP3A	X	0	0	0	%100
88	MP3A	Z	-8.926	-8.926	0	%100
89	MP2A	X	0	0	0	%100
90	MP2A	Z	-8.926	-8.926	0	%100
91	MP1A	X	0	0	0	%100
92	MP1A	Z	-8.926	-8.926	0	%100
93	MP4B	X	0	0	0	%100
94	MP4B	Z	-8.926	-8.926	0	%100
95	MP3B	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.%]
96	MP3B	Z	-8.926	-8.926	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	-8.926	-8.926	0	%100
99	MP1B	X	0	0	0	%100
100	MP1B	Z	-8.926	-8.926	0	%100
101	OVP2	X	0	0	0	%100
102	OVP2	Z	-5.34	-5.34	0	%100
103	OVP1	X	0	0	0	%100
104	OVP1	Z	-5.34	-5.34	0	%100
105	MP4C	X	0	0	0	%100
106	MP4C	Z	-8.926	-8.926	0	%100
107	MP3C	X	0	0	0	%100
108	MP3C	Z	-8.926	-8.926	0	%100
109	MP2C	X	0	0	0	%100
110	MP2C	Z	-8.926	-8.926	0	%100
111	MP1C	X	0	0	0	%100
112	MP1C	Z	-8.926	-8.926	0	%100
113	M101	X	0	0	0	%100
114	M101	Z	-8.926	-8.926	0	%100
115	M108	X	0	0	0	%100
116	M108	Z	-2.231	-2.231	0	%100
117	M115	X	0	0	0	%100
118	M115	Z	-2.231	-2.231	0	%100
119	M122	X	0	0	0	%100
120	M122	Z	-2.89	-2.89	0	%100
121	M123	X	0	0	0	%100
122	M123	Z	-11.56	-11.56	0	%100
123	M124	X	0	0	0	%100
124	M124	Z	-2.89	-2.89	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	M13	X	1.488	1.488	0	%100
2	M13	Z	-2.577	-2.577	0	%100
3	M20	X	4.075	4.075	0	%100
4	M20	Z	-7.058	-7.058	0	%100
5	M32	X	4.075	4.075	0	%100
6	M32	Z	-7.058	-7.058	0	%100
7	M33A	X	0	0	0	%100
8	M33A	Z	0	0	0	%100
9	M41A	X	3.509	3.509	0	%100
10	M41A	Z	-6.078	-6.078	0	%100
11	M42_1	X	3.509	3.509	0	%100
12	M42_1	Z	-6.078	-6.078	0	%100
13	M43A_1	X	6.985	6.985	0	%100
14	M43A_1	Z	-12.099	-12.099	0	%100
15	M46A	X	0	0	0	%100
16	M46A	Z	0	0	0	%100
17	M47	X	3.803	3.803	0	%100
18	M47	Z	-6.587	-6.587	0	%100
19	M64	X	2.343	2.343	0	%100
20	M64	Z	-4.058	-4.058	0	%100
21	M65	X	7.115	7.115	0	%100
22	M65	Z	-12.323	-12.323	0	%100
23	M71	X	7.373	7.373	0	%100
24	M71	Z	-12.771	-12.771	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
25	M86	X	2.343	2.343	0 %100
26	M86	Z	-4.058	-4.058	0 %100
27	M87	X	0	0	0 %100
28	M87	Z	0	0	0 %100
29	M90	X	0	0	0 %100
30	M90	Z	0	0	0 %100
31	M50A	X	5.952	5.952	0 %100
32	M50A	Z	-10.309	-10.309	0 %100
33	M51A	X	0	0	0 %100
34	M51A	Z	0	0	0 %100
35	M52	X	0	0	0 %100
36	M52	Z	0	0	0 %100
37	M53A	X	0	0	0 %100
38	M53A	Z	0	0	0 %100
39	M56	X	3.803	3.803	0 %100
40	M56	Z	-6.586	-6.586	0 %100
41	M57	X	3.803	3.803	0 %100
42	M57	Z	-6.587	-6.587	0 %100
43	M62	X	9.371	9.371	0 %100
44	M62	Z	-16.231	-16.231	0 %100
45	M63	X	7.115	7.115	0 %100
46	M63	Z	-12.323	-12.323	0 %100
47	M65A	X	7.373	7.373	0 %100
48	M65A	Z	-12.771	-12.771	0 %100
49	M67	X	9.371	9.371	0 %100
50	M67	Z	-16.231	-16.231	0 %100
51	M68A	X	7.115	7.115	0 %100
52	M68A	Z	-12.323	-12.323	0 %100
53	M70	X	7.373	7.373	0 %100
54	M70	Z	-12.771	-12.771	0 %100
55	M72A	X	1.488	1.488	0 %100
56	M72A	Z	-2.577	-2.577	0 %100
57	M73	X	3.509	3.509	0 %100
58	M73	Z	-6.078	-6.078	0 %100
59	M74	X	3.509	3.509	0 %100
60	M74	Z	-6.078	-6.078	0 %100
61	M75	X	6.985	6.985	0 %100
62	M75	Z	-12.099	-12.099	0 %100
63	M78	X	3.803	3.803	0 %100
64	M78	Z	-6.586	-6.586	0 %100
65	M79	X	0	0	0 %100
66	M79	Z	0	0	0 %100
67	M84	X	2.343	2.343	0 %100
68	M84	Z	-4.058	-4.058	0 %100
69	M85	X	0	0	0 %100
70	M85	Z	0	0	0 %100
71	M87A	X	0	0	0 %100
72	M87A	Z	0	0	0 %100
73	M89A	X	2.343	2.343	0 %100
74	M89A	Z	-4.058	-4.058	0 %100
75	M90A	X	7.115	7.115	0 %100
76	M90A	Z	-12.323	-12.323	0 %100
77	M92	X	7.373	7.373	0 %100
78	M92	Z	-12.771	-12.771	0 %100
79	M71B	X	3.418	3.418	0 %100
80	M71B	Z	-5.92	-5.92	0 %100
81	M72B	X	3.418	3.418	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
82	M72B	Z	-5.92	-5.92	0	%100
83	M73A	X	6.468	6.468	0	%100
84	M73A	Z	-11.203	-11.203	0	%100
85	MP4A	X	4.463	4.463	0	%100
86	MP4A	Z	-7.73	-7.73	0	%100
87	MP3A	X	4.463	4.463	0	%100
88	MP3A	Z	-7.73	-7.73	0	%100
89	MP2A	X	4.463	4.463	0	%100
90	MP2A	Z	-7.73	-7.73	0	%100
91	MP1A	X	4.463	4.463	0	%100
92	MP1A	Z	-7.73	-7.73	0	%100
93	MP4B	X	4.463	4.463	0	%100
94	MP4B	Z	-7.73	-7.73	0	%100
95	MP3B	X	4.463	4.463	0	%100
96	MP3B	Z	-7.73	-7.73	0	%100
97	MP2B	X	4.463	4.463	0	%100
98	MP2B	Z	-7.73	-7.73	0	%100
99	MP1B	X	4.463	4.463	0	%100
100	MP1B	Z	-7.73	-7.73	0	%100
101	OVP2	X	2.67	2.67	0	%100
102	OVP2	Z	-4.624	-4.624	0	%100
103	OVP1	X	2.67	2.67	0	%100
104	OVP1	Z	-4.624	-4.624	0	%100
105	MP4C	X	4.463	4.463	0	%100
106	MP4C	Z	-7.73	-7.73	0	%100
107	MP3C	X	4.463	4.463	0	%100
108	MP3C	Z	-7.73	-7.73	0	%100
109	MP2C	X	4.463	4.463	0	%100
110	MP2C	Z	-7.73	-7.73	0	%100
111	MP1C	X	4.463	4.463	0	%100
112	MP1C	Z	-7.73	-7.73	0	%100
113	M101	X	3.347	3.347	0	%100
114	M101	Z	-5.797	-5.797	0	%100
115	M108	X	3.347	3.347	0	%100
116	M108	Z	-5.797	-5.797	0	%100
117	M115	X	0	0	0	%100
118	M115	Z	0	0	0	%100
119	M122	X	4.335	4.335	0	%100
120	M122	Z	-7.509	-7.509	0	%100
121	M123	X	4.335	4.335	0	%100
122	M123	Z	-7.509	-7.509	0	%100
123	M124	X	0	0	0	%100
124	M124	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M13	X	0	0	0	%100
2	M13	Z	0	0	0	%100
3	M20	X	2.353	2.353	0	%100
4	M20	Z	-1.358	-1.358	0	%100
5	M32	X	9.41	9.41	0	%100
6	M32	Z	-5.433	-5.433	0	%100
7	M33A	X	2.353	2.353	0	%100
8	M33A	Z	-1.358	-1.358	0	%100
9	M41A	X	8.104	8.104	0	%100
10	M41A	Z	-4.679	-4.679	0	%100



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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, %]
11	M42 1	X	8.104	8.104	0 %100
12	M42 1	Z	-4.679	-4.679	0 %100
13	M43A 1	X	16.132	16.132	0 %100
14	M43A 1	Z	-9.314	-9.314	0 %100
15	M46A	X	2.195	2.195	0 %100
16	M46A	Z	-1.268	-1.268	0 %100
17	M47	X	2.196	2.196	0 %100
18	M47	Z	-1.268	-1.268	0 %100
19	M64	X	0	0	0 %100
20	M64	Z	0	0	0 %100
21	M65	X	4.108	4.108	0 %100
22	M65	Z	-2.372	-2.372	0 %100
23	M71	X	4.257	4.257	0 %100
24	M71	Z	-2.458	-2.458	0 %100
25	M86	X	0	0	0 %100
26	M86	Z	0	0	0 %100
27	M87	X	4.108	4.108	0 %100
28	M87	Z	-2.372	-2.372	0 %100
29	M90	X	4.257	4.257	0 %100
30	M90	Z	-2.458	-2.458	0 %100
31	M50A	X	7.732	7.732	0 %100
32	M50A	Z	-4.464	-4.464	0 %100
33	M51A	X	2.026	2.026	0 %100
34	M51A	Z	-1.17	-1.17	0 %100
35	M52	X	2.026	2.026	0 %100
36	M52	Z	-1.17	-1.17	0 %100
37	M53A	X	4.033	4.033	0 %100
38	M53A	Z	-2.328	-2.328	0 %100
39	M56	X	2.195	2.195	0 %100
40	M56	Z	-1.268	-1.268	0 %100
41	M57	X	8.783	8.783	0 %100
42	M57	Z	-5.071	-5.071	0 %100
43	M62	X	12.173	12.173	0 %100
44	M62	Z	-7.028	-7.028	0 %100
45	M63	X	16.43	16.43	0 %100
46	M63	Z	-9.486	-9.486	0 %100
47	M65A	X	17.028	17.028	0 %100
48	M65A	Z	-9.831	-9.831	0 %100
49	M67	X	12.173	12.173	0 %100
50	M67	Z	-7.028	-7.028	0 %100
51	M68A	X	4.108	4.108	0 %100
52	M68A	Z	-2.372	-2.372	0 %100
53	M70	X	4.257	4.257	0 %100
54	M70	Z	-2.458	-2.458	0 %100
55	M72A	X	7.732	7.732	0 %100
56	M72A	Z	-4.464	-4.464	0 %100
57	M73	X	2.026	2.026	0 %100
58	M73	Z	-1.17	-1.17	0 %100
59	M74	X	2.026	2.026	0 %100
60	M74	Z	-1.17	-1.17	0 %100
61	M75	X	4.033	4.033	0 %100
62	M75	Z	-2.328	-2.328	0 %100
63	M78	X	8.782	8.782	0 %100
64	M78	Z	-5.07	-5.07	0 %100
65	M79	X	2.196	2.196	0 %100
66	M79	Z	-1.268	-1.268	0 %100
67	M84	X	12.173	12.173	0 %100



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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, %]
68	M84	Z	-7.028	-7.028	0 %100
69	M85	X	4.108	4.108	0 %100
70	M85	Z	-2.372	-2.372	0 %100
71	M87A	X	4.257	4.257	0 %100
72	M87A	Z	-2.458	-2.458	0 %100
73	M89A	X	12.173	12.173	0 %100
74	M89A	Z	-7.028	-7.028	0 %100
75	M90A	X	16.43	16.43	0 %100
76	M90A	Z	-9.486	-9.486	0 %100
77	M92	X	17.028	17.028	0 %100
78	M92	Z	-9.831	-9.831	0 %100
79	M71B	X	4.159	4.159	0 %100
80	M71B	Z	-2.401	-2.401	0 %100
81	M72B	X	9.442	9.442	0 %100
82	M72B	Z	-5.451	-5.451	0 %100
83	M73A	X	9.442	9.442	0 %100
84	M73A	Z	-5.451	-5.451	0 %100
85	MP4A	X	7.73	7.73	0 %100
86	MP4A	Z	-4.463	-4.463	0 %100
87	MP3A	X	7.73	7.73	0 %100
88	MP3A	Z	-4.463	-4.463	0 %100
89	MP2A	X	7.73	7.73	0 %100
90	MP2A	Z	-4.463	-4.463	0 %100
91	MP1A	X	7.73	7.73	0 %100
92	MP1A	Z	-4.463	-4.463	0 %100
93	MP4B	X	7.73	7.73	0 %100
94	MP4B	Z	-4.463	-4.463	0 %100
95	MP3B	X	7.73	7.73	0 %100
96	MP3B	Z	-4.463	-4.463	0 %100
97	MP2B	X	7.73	7.73	0 %100
98	MP2B	Z	-4.463	-4.463	0 %100
99	MP1B	X	7.73	7.73	0 %100
100	MP1B	Z	-4.463	-4.463	0 %100
101	OVP2	X	4.624	4.624	0 %100
102	OVP2	Z	-2.67	-2.67	0 %100
103	OVP1	X	4.624	4.624	0 %100
104	OVP1	Z	-2.67	-2.67	0 %100
105	MP4C	X	7.73	7.73	0 %100
106	MP4C	Z	-4.463	-4.463	0 %100
107	MP3C	X	7.73	7.73	0 %100
108	MP3C	Z	-4.463	-4.463	0 %100
109	MP2C	X	7.73	7.73	0 %100
110	MP2C	Z	-4.463	-4.463	0 %100
111	MP1C	X	7.73	7.73	0 %100
112	MP1C	Z	-4.463	-4.463	0 %100
113	M101	X	1.932	1.932	0 %100
114	M101	Z	-1.116	-1.116	0 %100
115	M108	X	7.73	7.73	0 %100
116	M108	Z	-4.463	-4.463	0 %100
117	M115	X	1.932	1.932	0 %100
118	M115	Z	-1.116	-1.116	0 %100
119	M122	X	10.011	10.011	0 %100
120	M122	Z	-5.78	-5.78	0 %100
121	M123	X	2.503	2.503	0 %100
122	M123	Z	-1.445	-1.445	0 %100
123	M124	X	2.503	2.503	0 %100
124	M124	Z	-1.445	-1.445	0 %100



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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	M13	X	2.976	2.976	0 %100
2	M13	Z	0	0	0 %100
3	M20	X	0	0	0 %100
4	M20	Z	0	0	0 %100
5	M32	X	8.149	8.149	0 %100
6	M32	Z	0	0	0 %100
7	M33A	X	8.149	8.149	0 %100
8	M33A	Z	0	0	0 %100
9	M41A	X	7.018	7.018	0 %100
10	M41A	Z	0	0	0 %100
11	M42 1	X	7.018	7.018	0 %100
12	M42 1	Z	0	0	0 %100
13	M43A 1	X	13.97	13.97	0 %100
14	M43A 1	Z	0	0	0 %100
15	M46A	X	7.605	7.605	0 %100
16	M46A	Z	0	0	0 %100
17	M47	X	0	0	0 %100
18	M47	Z	0	0	0 %100
19	M64	X	4.686	4.686	0 %100
20	M64	Z	0	0	0 %100
21	M65	X	0	0	0 %100
22	M65	Z	0	0	0 %100
23	M71	X	0	0	0 %100
24	M71	Z	0	0	0 %100
25	M86	X	4.686	4.686	0 %100
26	M86	Z	0	0	0 %100
27	M87	X	14.229	14.229	0 %100
28	M87	Z	0	0	0 %100
29	M90	X	14.747	14.747	0 %100
30	M90	Z	0	0	0 %100
31	M50A	X	2.976	2.976	0 %100
32	M50A	Z	0	0	0 %100
33	M51A	X	7.018	7.018	0 %100
34	M51A	Z	0	0	0 %100
35	M52	X	7.018	7.018	0 %100
36	M52	Z	0	0	0 %100
37	M53A	X	13.97	13.97	0 %100
38	M53A	Z	0	0	0 %100
39	M56	X	0	0	0 %100
40	M56	Z	0	0	0 %100
41	M57	X	7.606	7.606	0 %100
42	M57	Z	0	0	0 %100
43	M62	X	4.686	4.686	0 %100
44	M62	Z	0	0	0 %100
45	M63	X	14.229	14.229	0 %100
46	M63	Z	0	0	0 %100
47	M65A	X	14.747	14.747	0 %100
48	M65A	Z	0	0	0 %100
49	M67	X	4.686	4.686	0 %100
50	M67	Z	0	0	0 %100
51	M68A	X	0	0	0 %100
52	M68A	Z	0	0	0 %100
53	M70	X	0	0	0 %100
54	M70	Z	0	0	0 %100
55	M72A	X	11.904	11.904	0 %100
56	M72A	Z	0	0	0 %100
57	M73	X	0	0	0 %100



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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	M73	Z	0	0	0	%100
59	M74	X	0	0	0	%100
60	M74	Z	0	0	0	%100
61	M75	X	0	0	0	%100
62	M75	Z	0	0	0	%100
63	M78	X	7.605	7.605	0	%100
64	M78	Z	0	0	0	%100
65	M79	X	7.606	7.606	0	%100
66	M79	Z	0	0	0	%100
67	M84	X	18.742	18.742	0	%100
68	M84	Z	0	0	0	%100
69	M85	X	14.229	14.229	0	%100
70	M85	Z	0	0	0	%100
71	M87A	X	14.747	14.747	0	%100
72	M87A	Z	0	0	0	%100
73	M89A	X	18.742	18.742	0	%100
74	M89A	Z	0	0	0	%100
75	M90A	X	14.229	14.229	0	%100
76	M90A	Z	0	0	0	%100
77	M92	X	14.747	14.747	0	%100
78	M92	Z	0	0	0	%100
79	M71B	X	6.836	6.836	0	%100
80	M71B	Z	0	0	0	%100
81	M72B	X	12.936	12.936	0	%100
82	M72B	Z	0	0	0	%100
83	M73A	X	6.836	6.836	0	%100
84	M73A	Z	0	0	0	%100
85	MP4A	X	8.926	8.926	0	%100
86	MP4A	Z	0	0	0	%100
87	MP3A	X	8.926	8.926	0	%100
88	MP3A	Z	0	0	0	%100
89	MP2A	X	8.926	8.926	0	%100
90	MP2A	Z	0	0	0	%100
91	MP1A	X	8.926	8.926	0	%100
92	MP1A	Z	0	0	0	%100
93	MP4B	X	8.926	8.926	0	%100
94	MP4B	Z	0	0	0	%100
95	MP3B	X	8.926	8.926	0	%100
96	MP3B	Z	0	0	0	%100
97	MP2B	X	8.926	8.926	0	%100
98	MP2B	Z	0	0	0	%100
99	MP1B	X	8.926	8.926	0	%100
100	MP1B	Z	0	0	0	%100
101	OVP2	X	5.34	5.34	0	%100
102	OVP2	Z	0	0	0	%100
103	OVP1	X	5.34	5.34	0	%100
104	OVP1	Z	0	0	0	%100
105	MP4C	X	8.926	8.926	0	%100
106	MP4C	Z	0	0	0	%100
107	MP3C	X	8.926	8.926	0	%100
108	MP3C	Z	0	0	0	%100
109	MP2C	X	8.926	8.926	0	%100
110	MP2C	Z	0	0	0	%100
111	MP1C	X	8.926	8.926	0	%100
112	MP1C	Z	0	0	0	%100
113	M101	X	0	0	0	%100
114	M101	Z	0	0	0	%100



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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, %]
115	M108	X	6.694	6.694	0	%100
116	M108	Z	0	0	0	%100
117	M115	X	6.694	6.694	0	%100
118	M115	Z	0	0	0	%100
119	M122	X	8.67	8.67	0	%100
120	M122	Z	0	0	0	%100
121	M123	X	0	0	0	%100
122	M123	Z	0	0	0	%100
123	M124	X	8.67	8.67	0	%100
124	M124	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M13	X	7.732	7.732	0	%100
2	M13	Z	4.464	4.464	0	%100
3	M20	X	2.353	2.353	0	%100
4	M20	Z	1.358	1.358	0	%100
5	M32	X	2.353	2.353	0	%100
6	M32	Z	1.358	1.358	0	%100
7	M33A	X	9.41	9.41	0	%100
8	M33A	Z	5.433	5.433	0	%100
9	M41A	X	2.026	2.026	0	%100
10	M41A	Z	1.17	1.17	0	%100
11	M42_1	X	2.026	2.026	0	%100
12	M42_1	Z	1.17	1.17	0	%100
13	M43A_1	X	4.033	4.033	0	%100
14	M43A_1	Z	2.328	2.328	0	%100
15	M46A	X	8.782	8.782	0	%100
16	M46A	Z	5.07	5.07	0	%100
17	M47	X	2.196	2.196	0	%100
18	M47	Z	1.268	1.268	0	%100
19	M64	X	12.173	12.173	0	%100
20	M64	Z	7.028	7.028	0	%100
21	M65	X	4.108	4.108	0	%100
22	M65	Z	2.372	2.372	0	%100
23	M71	X	4.257	4.257	0	%100
24	M71	Z	2.458	2.458	0	%100
25	M86	X	12.173	12.173	0	%100
26	M86	Z	7.028	7.028	0	%100
27	M87	X	16.43	16.43	0	%100
28	M87	Z	9.486	9.486	0	%100
29	M90	X	17.028	17.028	0	%100
30	M90	Z	9.831	9.831	0	%100
31	M50A	X	0	0	0	%100
32	M50A	Z	0	0	0	%100
33	M51A	X	8.104	8.104	0	%100
34	M51A	Z	4.679	4.679	0	%100
35	M52	X	8.104	8.104	0	%100
36	M52	Z	4.679	4.679	0	%100
37	M53A	X	16.132	16.132	0	%100
38	M53A	Z	9.314	9.314	0	%100
39	M56	X	2.195	2.195	0	%100
40	M56	Z	1.268	1.268	0	%100
41	M57	X	2.196	2.196	0	%100
42	M57	Z	1.268	1.268	0	%100
43	M62	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
44	M62	Z	0	0	%100
45	M63	X	4.108	4.108	%100
46	M63	Z	2.372	2.372	%100
47	M65A	X	4.257	4.257	%100
48	M65A	Z	2.458	2.458	%100
49	M67	X	0	0	%100
50	M67	Z	0	0	%100
51	M68A	X	4.108	4.108	%100
52	M68A	Z	2.372	2.372	%100
53	M70	X	4.257	4.257	%100
54	M70	Z	2.458	2.458	%100
55	M72A	X	7.732	7.732	%100
56	M72A	Z	4.464	4.464	%100
57	M73	X	2.026	2.026	%100
58	M73	Z	1.17	1.17	%100
59	M74	X	2.026	2.026	%100
60	M74	Z	1.17	1.17	%100
61	M75	X	4.033	4.033	%100
62	M75	Z	2.328	2.328	%100
63	M78	X	2.195	2.195	%100
64	M78	Z	1.268	1.268	%100
65	M79	X	8.783	8.783	%100
66	M79	Z	5.071	5.071	%100
67	M84	X	12.173	12.173	%100
68	M84	Z	7.028	7.028	%100
69	M85	X	16.43	16.43	%100
70	M85	Z	9.486	9.486	%100
71	M87A	X	17.028	17.028	%100
72	M87A	Z	9.831	9.831	%100
73	M89A	X	12.173	12.173	%100
74	M89A	Z	7.028	7.028	%100
75	M90A	X	4.108	4.108	%100
76	M90A	Z	2.372	2.372	%100
77	M92	X	4.257	4.257	%100
78	M92	Z	2.458	2.458	%100
79	M71B	X	9.442	9.442	%100
80	M71B	Z	5.451	5.451	%100
81	M72B	X	9.442	9.442	%100
82	M72B	Z	5.451	5.451	%100
83	M73A	X	4.159	4.159	%100
84	M73A	Z	2.401	2.401	%100
85	MP4A	X	7.73	7.73	%100
86	MP4A	Z	4.463	4.463	%100
87	MP3A	X	7.73	7.73	%100
88	MP3A	Z	4.463	4.463	%100
89	MP2A	X	7.73	7.73	%100
90	MP2A	Z	4.463	4.463	%100
91	MP1A	X	7.73	7.73	%100
92	MP1A	Z	4.463	4.463	%100
93	MP4B	X	7.73	7.73	%100
94	MP4B	Z	4.463	4.463	%100
95	MP3B	X	7.73	7.73	%100
96	MP3B	Z	4.463	4.463	%100
97	MP2B	X	7.73	7.73	%100
98	MP2B	Z	4.463	4.463	%100
99	MP1B	X	7.73	7.73	%100
100	MP1B	Z	4.463	4.463	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
101	OVP2	X	4.624	4.624	0	%100
102	OVP2	Z	2.67	2.67	0	%100
103	OVP1	X	4.624	4.624	0	%100
104	OVP1	Z	2.67	2.67	0	%100
105	MP4C	X	7.73	7.73	0	%100
106	MP4C	Z	4.463	4.463	0	%100
107	MP3C	X	7.73	7.73	0	%100
108	MP3C	Z	4.463	4.463	0	%100
109	MP2C	X	7.73	7.73	0	%100
110	MP2C	Z	4.463	4.463	0	%100
111	MP1C	X	7.73	7.73	0	%100
112	MP1C	Z	4.463	4.463	0	%100
113	M101	X	1.932	1.932	0	%100
114	M101	Z	1.116	1.116	0	%100
115	M108	X	1.932	1.932	0	%100
116	M108	Z	1.116	1.116	0	%100
117	M115	X	7.73	7.73	0	%100
118	M115	Z	4.463	4.463	0	%100
119	M122	X	2.503	2.503	0	%100
120	M122	Z	1.445	1.445	0	%100
121	M123	X	2.503	2.503	0	%100
122	M123	Z	1.445	1.445	0	%100
123	M124	X	10.011	10.011	0	%100
124	M124	Z	5.78	5.78	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	M13	X	5.952	5.952	0	%100
2	M13	Z	10.309	10.309	0	%100
3	M20	X	4.075	4.075	0	%100
4	M20	Z	7.058	7.058	0	%100
5	M32	X	0	0	0	%100
6	M32	Z	0	0	0	%100
7	M33A	X	4.075	4.075	0	%100
8	M33A	Z	7.058	7.058	0	%100
9	M41A	X	0	0	0	%100
10	M41A	Z	0	0	0	%100
11	M42_1	X	0	0	0	%100
12	M42_1	Z	0	0	0	%100
13	M43A_1	X	0	0	0	%100
14	M43A_1	Z	0	0	0	%100
15	M46A	X	3.803	3.803	0	%100
16	M46A	Z	6.586	6.586	0	%100
17	M47	X	3.803	3.803	0	%100
18	M47	Z	6.587	6.587	0	%100
19	M64	X	9.371	9.371	0	%100
20	M64	Z	16.231	16.231	0	%100
21	M65	X	7.115	7.115	0	%100
22	M65	Z	12.323	12.323	0	%100
23	M71	X	7.373	7.373	0	%100
24	M71	Z	12.771	12.771	0	%100
25	M86	X	9.371	9.371	0	%100
26	M86	Z	16.231	16.231	0	%100
27	M87	X	7.115	7.115	0	%100
28	M87	Z	12.323	12.323	0	%100
29	M90	X	7.373	7.373	0	%100



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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,%]
30	M90	Z	12.771	12.771	0 %100
31	M50A	X	1.488	1.488	0 %100
32	M50A	Z	2.577	2.577	0 %100
33	M51A	X	3.509	3.509	0 %100
34	M51A	Z	6.078	6.078	0 %100
35	M52	X	3.509	3.509	0 %100
36	M52	Z	6.078	6.078	0 %100
37	M53A	X	6.985	6.985	0 %100
38	M53A	Z	12.099	12.099	0 %100
39	M56	X	3.803	3.803	0 %100
40	M56	Z	6.586	6.586	0 %100
41	M57	X	0	0	0 %100
42	M57	Z	0	0	0 %100
43	M62	X	2.343	2.343	0 %100
44	M62	Z	4.058	4.058	0 %100
45	M63	X	0	0	0 %100
46	M63	Z	0	0	0 %100
47	M65A	X	0	0	0 %100
48	M65A	Z	0	0	0 %100
49	M67	X	2.343	2.343	0 %100
50	M67	Z	4.058	4.058	0 %100
51	M68A	X	7.115	7.115	0 %100
52	M68A	Z	12.323	12.323	0 %100
53	M70	X	7.373	7.373	0 %100
54	M70	Z	12.771	12.771	0 %100
55	M72A	X	1.488	1.488	0 %100
56	M72A	Z	2.577	2.577	0 %100
57	M73	X	3.509	3.509	0 %100
58	M73	Z	6.078	6.078	0 %100
59	M74	X	3.509	3.509	0 %100
60	M74	Z	6.078	6.078	0 %100
61	M75	X	6.985	6.985	0 %100
62	M75	Z	12.099	12.099	0 %100
63	M78	X	0	0	0 %100
64	M78	Z	0	0	0 %100
65	M79	X	3.803	3.803	0 %100
66	M79	Z	6.587	6.587	0 %100
67	M84	X	2.343	2.343	0 %100
68	M84	Z	4.058	4.058	0 %100
69	M85	X	7.115	7.115	0 %100
70	M85	Z	12.323	12.323	0 %100
71	M87A	X	7.373	7.373	0 %100
72	M87A	Z	12.771	12.771	0 %100
73	M89A	X	2.343	2.343	0 %100
74	M89A	Z	4.058	4.058	0 %100
75	M90A	X	0	0	0 %100
76	M90A	Z	0	0	0 %100
77	M92	X	0	0	0 %100
78	M92	Z	0	0	0 %100
79	M71B	X	6.468	6.468	0 %100
80	M71B	Z	11.203	11.203	0 %100
81	M72B	X	3.418	3.418	0 %100
82	M72B	Z	5.92	5.92	0 %100
83	M73A	X	3.418	3.418	0 %100
84	M73A	Z	5.92	5.92	0 %100
85	MP4A	X	4.463	4.463	0 %100
86	MP4A	Z	7.73	7.73	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, %]
87	MP3A	X	4.463	4.463	0	%100
88	MP3A	Z	7.73	7.73	0	%100
89	MP2A	X	4.463	4.463	0	%100
90	MP2A	Z	7.73	7.73	0	%100
91	MP1A	X	4.463	4.463	0	%100
92	MP1A	Z	7.73	7.73	0	%100
93	MP4B	X	4.463	4.463	0	%100
94	MP4B	Z	7.73	7.73	0	%100
95	MP3B	X	4.463	4.463	0	%100
96	MP3B	Z	7.73	7.73	0	%100
97	MP2B	X	4.463	4.463	0	%100
98	MP2B	Z	7.73	7.73	0	%100
99	MP1B	X	4.463	4.463	0	%100
100	MP1B	Z	7.73	7.73	0	%100
101	OVP2	X	2.67	2.67	0	%100
102	OVP2	Z	4.624	4.624	0	%100
103	OVP1	X	2.67	2.67	0	%100
104	OVP1	Z	4.624	4.624	0	%100
105	MP4C	X	4.463	4.463	0	%100
106	MP4C	Z	7.73	7.73	0	%100
107	MP3C	X	4.463	4.463	0	%100
108	MP3C	Z	7.73	7.73	0	%100
109	MP2C	X	4.463	4.463	0	%100
110	MP2C	Z	7.73	7.73	0	%100
111	MP1C	X	4.463	4.463	0	%100
112	MP1C	Z	7.73	7.73	0	%100
113	M101	X	3.347	3.347	0	%100
114	M101	Z	5.797	5.797	0	%100
115	M108	X	0	0	0	%100
116	M108	Z	0	0	0	%100
117	M115	X	3.347	3.347	0	%100
118	M115	Z	5.797	5.797	0	%100
119	M122	X	0	0	0	%100
120	M122	Z	0	0	0	%100
121	M123	X	4.335	4.335	0	%100
122	M123	Z	7.509	7.509	0	%100
123	M124	X	4.335	4.335	0	%100
124	M124	Z	7.509	7.509	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	M13	X	0	0	0	%100
2	M13	Z	8.928	8.928	0	%100
3	M20	X	0	0	0	%100
4	M20	Z	10.866	10.866	0	%100
5	M32	X	0	0	0	%100
6	M32	Z	2.716	2.716	0	%100
7	M33A	X	0	0	0	%100
8	M33A	Z	2.716	2.716	0	%100
9	M41A	X	0	0	0	%100
10	M41A	Z	2.339	2.339	0	%100
11	M42_1	X	0	0	0	%100
12	M42_1	Z	2.339	2.339	0	%100
13	M43A_1	X	0	0	0	%100
14	M43A_1	Z	4.657	4.657	0	%100
15	M46A	X	0	0	0	%100



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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,%]
16	M46A	Z	2.535	2.535	0 %100
17	M47	X	0	0	0 %100
18	M47	Z	10.142	10.142	0 %100
19	M64	X	0	0	0 %100
20	M64	Z	14.057	14.057	0 %100
21	M65	X	0	0	0 %100
22	M65	Z	18.972	18.972	0 %100
23	M71	X	0	0	0 %100
24	M71	Z	19.662	19.662	0 %100
25	M86	X	0	0	0 %100
26	M86	Z	14.057	14.057	0 %100
27	M87	X	0	0	0 %100
28	M87	Z	4.743	4.743	0 %100
29	M90	X	0	0	0 %100
30	M90	Z	4.916	4.916	0 %100
31	M50A	X	0	0	0 %100
32	M50A	Z	8.928	8.928	0 %100
33	M51A	X	0	0	0 %100
34	M51A	Z	2.339	2.339	0 %100
35	M52	X	0	0	0 %100
36	M52	Z	2.339	2.339	0 %100
37	M53A	X	0	0	0 %100
38	M53A	Z	4.657	4.657	0 %100
39	M56	X	0	0	0 %100
40	M56	Z	10.14	10.14	0 %100
41	M57	X	0	0	0 %100
42	M57	Z	2.535	2.535	0 %100
43	M62	X	0	0	0 %100
44	M62	Z	14.057	14.057	0 %100
45	M63	X	0	0	0 %100
46	M63	Z	4.743	4.743	0 %100
47	M65A	X	0	0	0 %100
48	M65A	Z	4.916	4.916	0 %100
49	M67	X	0	0	0 %100
50	M67	Z	14.057	14.057	0 %100
51	M68A	X	0	0	0 %100
52	M68A	Z	18.972	18.972	0 %100
53	M70	X	0	0	0 %100
54	M70	Z	19.662	19.662	0 %100
55	M72A	X	0	0	0 %100
56	M72A	Z	0	0	0 %100
57	M73	X	0	0	0 %100
58	M73	Z	9.358	9.358	0 %100
59	M74	X	0	0	0 %100
60	M74	Z	9.358	9.358	0 %100
61	M75	X	0	0	0 %100
62	M75	Z	18.627	18.627	0 %100
63	M78	X	0	0	0 %100
64	M78	Z	2.535	2.535	0 %100
65	M79	X	0	0	0 %100
66	M79	Z	2.535	2.535	0 %100
67	M84	X	0	0	0 %100
68	M84	Z	0	0	0 %100
69	M85	X	0	0	0 %100
70	M85	Z	4.743	4.743	0 %100
71	M87A	X	0	0	0 %100
72	M87A	Z	4.916	4.916	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, %]
73	M89A	X	0	0	%100
74	M89A	Z	0	0	%100
75	M90A	X	0	0	%100
76	M90A	Z	4.743	4.743	%100
77	M92	X	0	0	%100
78	M92	Z	4.916	4.916	%100
79	M71B	X	0	0	%100
80	M71B	Z	10.902	10.902	%100
81	M72B	X	0	0	%100
82	M72B	Z	4.803	4.803	%100
83	M73A	X	0	0	%100
84	M73A	Z	10.902	10.902	%100
85	MP4A	X	0	0	%100
86	MP4A	Z	8.926	8.926	%100
87	MP3A	X	0	0	%100
88	MP3A	Z	8.926	8.926	%100
89	MP2A	X	0	0	%100
90	MP2A	Z	8.926	8.926	%100
91	MP1A	X	0	0	%100
92	MP1A	Z	8.926	8.926	%100
93	MP4B	X	0	0	%100
94	MP4B	Z	8.926	8.926	%100
95	MP3B	X	0	0	%100
96	MP3B	Z	8.926	8.926	%100
97	MP2B	X	0	0	%100
98	MP2B	Z	8.926	8.926	%100
99	MP1B	X	0	0	%100
100	MP1B	Z	8.926	8.926	%100
101	OVP2	X	0	0	%100
102	OVP2	Z	5.34	5.34	%100
103	OVP1	X	0	0	%100
104	OVP1	Z	5.34	5.34	%100
105	MP4C	X	0	0	%100
106	MP4C	Z	8.926	8.926	%100
107	MP3C	X	0	0	%100
108	MP3C	Z	8.926	8.926	%100
109	MP2C	X	0	0	%100
110	MP2C	Z	8.926	8.926	%100
111	MP1C	X	0	0	%100
112	MP1C	Z	8.926	8.926	%100
113	M101	X	0	0	%100
114	M101	Z	8.926	8.926	%100
115	M108	X	0	0	%100
116	M108	Z	2.231	2.231	%100
117	M115	X	0	0	%100
118	M115	Z	2.231	2.231	%100
119	M122	X	0	0	%100
120	M122	Z	2.89	2.89	%100
121	M123	X	0	0	%100
122	M123	Z	11.56	11.56	%100
123	M124	X	0	0	%100
124	M124	Z	2.89	2.89	%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	M13	X	-1.488	-1.488	%100



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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, %]
2	M13	Z	2.577	2.577	0 %100
3	M20	X	-4.075	-4.075	0 %100
4	M20	Z	7.058	7.058	0 %100
5	M32	X	-4.075	-4.075	0 %100
6	M32	Z	7.058	7.058	0 %100
7	M33A	X	0	0	0 %100
8	M33A	Z	0	0	0 %100
9	M41A	X	-3.509	-3.509	0 %100
10	M41A	Z	6.078	6.078	0 %100
11	M42 1	X	-3.509	-3.509	0 %100
12	M42 1	Z	6.078	6.078	0 %100
13	M43A 1	X	-6.985	-6.985	0 %100
14	M43A 1	Z	12.099	12.099	0 %100
15	M46A	X	0	0	0 %100
16	M46A	Z	0	0	0 %100
17	M47	X	-3.803	-3.803	0 %100
18	M47	Z	6.587	6.587	0 %100
19	M64	X	-2.343	-2.343	0 %100
20	M64	Z	4.058	4.058	0 %100
21	M65	X	-7.115	-7.115	0 %100
22	M65	Z	12.323	12.323	0 %100
23	M71	X	-7.373	-7.373	0 %100
24	M71	Z	12.771	12.771	0 %100
25	M86	X	-2.343	-2.343	0 %100
26	M86	Z	4.058	4.058	0 %100
27	M87	X	0	0	0 %100
28	M87	Z	0	0	0 %100
29	M90	X	0	0	0 %100
30	M90	Z	0	0	0 %100
31	M50A	X	-5.952	-5.952	0 %100
32	M50A	Z	10.309	10.309	0 %100
33	M51A	X	0	0	0 %100
34	M51A	Z	0	0	0 %100
35	M52	X	0	0	0 %100
36	M52	Z	0	0	0 %100
37	M53A	X	0	0	0 %100
38	M53A	Z	0	0	0 %100
39	M56	X	-3.803	-3.803	0 %100
40	M56	Z	6.586	6.586	0 %100
41	M57	X	-3.803	-3.803	0 %100
42	M57	Z	6.587	6.587	0 %100
43	M62	X	-9.371	-9.371	0 %100
44	M62	Z	16.231	16.231	0 %100
45	M63	X	-7.115	-7.115	0 %100
46	M63	Z	12.323	12.323	0 %100
47	M65A	X	-7.373	-7.373	0 %100
48	M65A	Z	12.771	12.771	0 %100
49	M67	X	-9.371	-9.371	0 %100
50	M67	Z	16.231	16.231	0 %100
51	M68A	X	-7.115	-7.115	0 %100
52	M68A	Z	12.323	12.323	0 %100
53	M70	X	-7.373	-7.373	0 %100
54	M70	Z	12.771	12.771	0 %100
55	M72A	X	-1.488	-1.488	0 %100
56	M72A	Z	2.577	2.577	0 %100
57	M73	X	-3.509	-3.509	0 %100
58	M73	Z	6.078	6.078	0 %100



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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, %]
59	M74	X	-3.509	-3.509	0 %100
60	M74	Z	6.078	6.078	0 %100
61	M75	X	-6.985	-6.985	0 %100
62	M75	Z	12.099	12.099	0 %100
63	M78	X	-3.803	-3.803	0 %100
64	M78	Z	6.586	6.586	0 %100
65	M79	X	0	0	0 %100
66	M79	Z	0	0	0 %100
67	M84	X	-2.343	-2.343	0 %100
68	M84	Z	4.058	4.058	0 %100
69	M85	X	0	0	0 %100
70	M85	Z	0	0	0 %100
71	M87A	X	0	0	0 %100
72	M87A	Z	0	0	0 %100
73	M89A	X	-2.343	-2.343	0 %100
74	M89A	Z	4.058	4.058	0 %100
75	M90A	X	-7.115	-7.115	0 %100
76	M90A	Z	12.323	12.323	0 %100
77	M92	X	-7.373	-7.373	0 %100
78	M92	Z	12.771	12.771	0 %100
79	M71B	X	-3.418	-3.418	0 %100
80	M71B	Z	5.92	5.92	0 %100
81	M72B	X	-3.418	-3.418	0 %100
82	M72B	Z	5.92	5.92	0 %100
83	M73A	X	-6.468	-6.468	0 %100
84	M73A	Z	11.203	11.203	0 %100
85	MP4A	X	-4.463	-4.463	0 %100
86	MP4A	Z	7.73	7.73	0 %100
87	MP3A	X	-4.463	-4.463	0 %100
88	MP3A	Z	7.73	7.73	0 %100
89	MP2A	X	-4.463	-4.463	0 %100
90	MP2A	Z	7.73	7.73	0 %100
91	MP1A	X	-4.463	-4.463	0 %100
92	MP1A	Z	7.73	7.73	0 %100
93	MP4B	X	-4.463	-4.463	0 %100
94	MP4B	Z	7.73	7.73	0 %100
95	MP3B	X	-4.463	-4.463	0 %100
96	MP3B	Z	7.73	7.73	0 %100
97	MP2B	X	-4.463	-4.463	0 %100
98	MP2B	Z	7.73	7.73	0 %100
99	MP1B	X	-4.463	-4.463	0 %100
100	MP1B	Z	7.73	7.73	0 %100
101	OVP2	X	-2.67	-2.67	0 %100
102	OVP2	Z	4.624	4.624	0 %100
103	OVP1	X	-2.67	-2.67	0 %100
104	OVP1	Z	4.624	4.624	0 %100
105	MP4C	X	-4.463	-4.463	0 %100
106	MP4C	Z	7.73	7.73	0 %100
107	MP3C	X	-4.463	-4.463	0 %100
108	MP3C	Z	7.73	7.73	0 %100
109	MP2C	X	-4.463	-4.463	0 %100
110	MP2C	Z	7.73	7.73	0 %100
111	MP1C	X	-4.463	-4.463	0 %100
112	MP1C	Z	7.73	7.73	0 %100
113	M101	X	-3.347	-3.347	0 %100
114	M101	Z	5.797	5.797	0 %100
115	M108	X	-3.347	-3.347	0 %100



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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.%]
116	M108	Z	5.797	5.797	0	%100
117	M115	X	0	0	0	%100
118	M115	Z	0	0	0	%100
119	M122	X	-4.335	-4.335	0	%100
120	M122	Z	7.509	7.509	0	%100
121	M123	X	-4.335	-4.335	0	%100
122	M123	Z	7.509	7.509	0	%100
123	M124	X	0	0	0	%100
124	M124	Z	0	0	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	M13	X	0	0	0	%100
2	M13	Z	0	0	0	%100
3	M20	X	-2.353	-2.353	0	%100
4	M20	Z	1.358	1.358	0	%100
5	M32	X	-9.41	-9.41	0	%100
6	M32	Z	5.433	5.433	0	%100
7	M33A	X	-2.353	-2.353	0	%100
8	M33A	Z	1.358	1.358	0	%100
9	M41A	X	-8.104	-8.104	0	%100
10	M41A	Z	4.679	4.679	0	%100
11	M42_1	X	-8.104	-8.104	0	%100
12	M42_1	Z	4.679	4.679	0	%100
13	M43A_1	X	-16.132	-16.132	0	%100
14	M43A_1	Z	9.314	9.314	0	%100
15	M46A	X	-2.195	-2.195	0	%100
16	M46A	Z	1.268	1.268	0	%100
17	M47	X	-2.196	-2.196	0	%100
18	M47	Z	1.268	1.268	0	%100
19	M64	X	0	0	0	%100
20	M64	Z	0	0	0	%100
21	M65	X	-4.108	-4.108	0	%100
22	M65	Z	2.372	2.372	0	%100
23	M71	X	-4.257	-4.257	0	%100
24	M71	Z	2.458	2.458	0	%100
25	M86	X	0	0	0	%100
26	M86	Z	0	0	0	%100
27	M87	X	-4.108	-4.108	0	%100
28	M87	Z	2.372	2.372	0	%100
29	M90	X	-4.257	-4.257	0	%100
30	M90	Z	2.458	2.458	0	%100
31	M50A	X	-7.732	-7.732	0	%100
32	M50A	Z	4.464	4.464	0	%100
33	M51A	X	-2.026	-2.026	0	%100
34	M51A	Z	1.17	1.17	0	%100
35	M52	X	-2.026	-2.026	0	%100
36	M52	Z	1.17	1.17	0	%100
37	M53A	X	-4.033	-4.033	0	%100
38	M53A	Z	2.328	2.328	0	%100
39	M56	X	-2.195	-2.195	0	%100
40	M56	Z	1.268	1.268	0	%100
41	M57	X	-8.783	-8.783	0	%100
42	M57	Z	5.071	5.071	0	%100
43	M62	X	-12.173	-12.173	0	%100
44	M62	Z	7.028	7.028	0	%100



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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, %]
45	M63	X	-16.43	-16.43	0 %100
46	M63	Z	9.486	9.486	0 %100
47	M65A	X	-17.028	-17.028	0 %100
48	M65A	Z	9.831	9.831	0 %100
49	M67	X	-12.173	-12.173	0 %100
50	M67	Z	7.028	7.028	0 %100
51	M68A	X	-4.108	-4.108	0 %100
52	M68A	Z	2.372	2.372	0 %100
53	M70	X	-4.257	-4.257	0 %100
54	M70	Z	2.458	2.458	0 %100
55	M72A	X	-7.732	-7.732	0 %100
56	M72A	Z	4.464	4.464	0 %100
57	M73	X	-2.026	-2.026	0 %100
58	M73	Z	1.17	1.17	0 %100
59	M74	X	-2.026	-2.026	0 %100
60	M74	Z	1.17	1.17	0 %100
61	M75	X	-4.033	-4.033	0 %100
62	M75	Z	2.328	2.328	0 %100
63	M78	X	-8.782	-8.782	0 %100
64	M78	Z	5.07	5.07	0 %100
65	M79	X	-2.196	-2.196	0 %100
66	M79	Z	1.268	1.268	0 %100
67	M84	X	-12.173	-12.173	0 %100
68	M84	Z	7.028	7.028	0 %100
69	M85	X	-4.108	-4.108	0 %100
70	M85	Z	2.372	2.372	0 %100
71	M87A	X	-4.257	-4.257	0 %100
72	M87A	Z	2.458	2.458	0 %100
73	M89A	X	-12.173	-12.173	0 %100
74	M89A	Z	7.028	7.028	0 %100
75	M90A	X	-16.43	-16.43	0 %100
76	M90A	Z	9.486	9.486	0 %100
77	M92	X	-17.028	-17.028	0 %100
78	M92	Z	9.831	9.831	0 %100
79	M71B	X	-4.159	-4.159	0 %100
80	M71B	Z	2.401	2.401	0 %100
81	M72B	X	-9.442	-9.442	0 %100
82	M72B	Z	5.451	5.451	0 %100
83	M73A	X	-9.442	-9.442	0 %100
84	M73A	Z	5.451	5.451	0 %100
85	MP4A	X	-7.73	-7.73	0 %100
86	MP4A	Z	4.463	4.463	0 %100
87	MP3A	X	-7.73	-7.73	0 %100
88	MP3A	Z	4.463	4.463	0 %100
89	MP2A	X	-7.73	-7.73	0 %100
90	MP2A	Z	4.463	4.463	0 %100
91	MP1A	X	-7.73	-7.73	0 %100
92	MP1A	Z	4.463	4.463	0 %100
93	MP4B	X	-7.73	-7.73	0 %100
94	MP4B	Z	4.463	4.463	0 %100
95	MP3B	X	-7.73	-7.73	0 %100
96	MP3B	Z	4.463	4.463	0 %100
97	MP2B	X	-7.73	-7.73	0 %100
98	MP2B	Z	4.463	4.463	0 %100
99	MP1B	X	-7.73	-7.73	0 %100
100	MP1B	Z	4.463	4.463	0 %100
101	OVP2	X	-4.624	-4.624	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, %]
102	OVP2	Z	2.67	2.67	0 %100
103	OVP1	X	-4.624	-4.624	0 %100
104	OVP1	Z	2.67	2.67	0 %100
105	MP4C	X	-7.73	-7.73	0 %100
106	MP4C	Z	4.463	4.463	0 %100
107	MP3C	X	-7.73	-7.73	0 %100
108	MP3C	Z	4.463	4.463	0 %100
109	MP2C	X	-7.73	-7.73	0 %100
110	MP2C	Z	4.463	4.463	0 %100
111	MP1C	X	-7.73	-7.73	0 %100
112	MP1C	Z	4.463	4.463	0 %100
113	M101	X	-1.932	-1.932	0 %100
114	M101	Z	1.116	1.116	0 %100
115	M108	X	-7.73	-7.73	0 %100
116	M108	Z	4.463	4.463	0 %100
117	M115	X	-1.932	-1.932	0 %100
118	M115	Z	1.116	1.116	0 %100
119	M122	X	-10.011	-10.011	0 %100
120	M122	Z	5.78	5.78	0 %100
121	M123	X	-2.503	-2.503	0 %100
122	M123	Z	1.445	1.445	0 %100
123	M124	X	-2.503	-2.503	0 %100
124	M124	Z	1.445	1.445	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	M13	X	-2.976	-2.976	0 %100
2	M13	Z	0	0	0 %100
3	M20	X	0	0	0 %100
4	M20	Z	0	0	0 %100
5	M32	X	-8.149	-8.149	0 %100
6	M32	Z	0	0	0 %100
7	M33A	X	-8.149	-8.149	0 %100
8	M33A	Z	0	0	0 %100
9	M41A	X	-7.018	-7.018	0 %100
10	M41A	Z	0	0	0 %100
11	M42_1	X	-7.018	-7.018	0 %100
12	M42_1	Z	0	0	0 %100
13	M43A_1	X	-13.97	-13.97	0 %100
14	M43A_1	Z	0	0	0 %100
15	M46A	X	-7.605	-7.605	0 %100
16	M46A	Z	0	0	0 %100
17	M47	X	0	0	0 %100
18	M47	Z	0	0	0 %100
19	M64	X	-4.686	-4.686	0 %100
20	M64	Z	0	0	0 %100
21	M65	X	0	0	0 %100
22	M65	Z	0	0	0 %100
23	M71	X	0	0	0 %100
24	M71	Z	0	0	0 %100
25	M86	X	-4.686	-4.686	0 %100
26	M86	Z	0	0	0 %100
27	M87	X	-14.229	-14.229	0 %100
28	M87	Z	0	0	0 %100
29	M90	X	-14.747	-14.747	0 %100
30	M90	Z	0	0	0 %100



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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, %]
31	M50A	X	-2.976	-2.976	0 %100
32	M50A	Z	0	0	0 %100
33	M51A	X	-7.018	-7.018	0 %100
34	M51A	Z	0	0	0 %100
35	M52	X	-7.018	-7.018	0 %100
36	M52	Z	0	0	0 %100
37	M53A	X	-13.97	-13.97	0 %100
38	M53A	Z	0	0	0 %100
39	M56	X	0	0	0 %100
40	M56	Z	0	0	0 %100
41	M57	X	-7.606	-7.606	0 %100
42	M57	Z	0	0	0 %100
43	M62	X	-4.686	-4.686	0 %100
44	M62	Z	0	0	0 %100
45	M63	X	-14.229	-14.229	0 %100
46	M63	Z	0	0	0 %100
47	M65A	X	-14.747	-14.747	0 %100
48	M65A	Z	0	0	0 %100
49	M67	X	-4.686	-4.686	0 %100
50	M67	Z	0	0	0 %100
51	M68A	X	0	0	0 %100
52	M68A	Z	0	0	0 %100
53	M70	X	0	0	0 %100
54	M70	Z	0	0	0 %100
55	M72A	X	-11.904	-11.904	0 %100
56	M72A	Z	0	0	0 %100
57	M73	X	0	0	0 %100
58	M73	Z	0	0	0 %100
59	M74	X	0	0	0 %100
60	M74	Z	0	0	0 %100
61	M75	X	0	0	0 %100
62	M75	Z	0	0	0 %100
63	M78	X	-7.605	-7.605	0 %100
64	M78	Z	0	0	0 %100
65	M79	X	-7.606	-7.606	0 %100
66	M79	Z	0	0	0 %100
67	M84	X	-18.742	-18.742	0 %100
68	M84	Z	0	0	0 %100
69	M85	X	-14.229	-14.229	0 %100
70	M85	Z	0	0	0 %100
71	M87A	X	-14.747	-14.747	0 %100
72	M87A	Z	0	0	0 %100
73	M89A	X	-18.742	-18.742	0 %100
74	M89A	Z	0	0	0 %100
75	M90A	X	-14.229	-14.229	0 %100
76	M90A	Z	0	0	0 %100
77	M92	X	-14.747	-14.747	0 %100
78	M92	Z	0	0	0 %100
79	M71B	X	-6.836	-6.836	0 %100
80	M71B	Z	0	0	0 %100
81	M72B	X	-12.936	-12.936	0 %100
82	M72B	Z	0	0	0 %100
83	M73A	X	-6.836	-6.836	0 %100
84	M73A	Z	0	0	0 %100
85	MP4A	X	-8.926	-8.926	0 %100
86	MP4A	Z	0	0	0 %100
87	MP3A	X	-8.926	-8.926	0 %100



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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, %]
88	MP3A	Z	0	0	0	%100
89	MP2A	X	-8.926	-8.926	0	%100
90	MP2A	Z	0	0	0	%100
91	MP1A	X	-8.926	-8.926	0	%100
92	MP1A	Z	0	0	0	%100
93	MP4B	X	-8.926	-8.926	0	%100
94	MP4B	Z	0	0	0	%100
95	MP3B	X	-8.926	-8.926	0	%100
96	MP3B	Z	0	0	0	%100
97	MP2B	X	-8.926	-8.926	0	%100
98	MP2B	Z	0	0	0	%100
99	MP1B	X	-8.926	-8.926	0	%100
100	MP1B	Z	0	0	0	%100
101	OVP2	X	-5.34	-5.34	0	%100
102	OVP2	Z	0	0	0	%100
103	OVP1	X	-5.34	-5.34	0	%100
104	OVP1	Z	0	0	0	%100
105	MP4C	X	-8.926	-8.926	0	%100
106	MP4C	Z	0	0	0	%100
107	MP3C	X	-8.926	-8.926	0	%100
108	MP3C	Z	0	0	0	%100
109	MP2C	X	-8.926	-8.926	0	%100
110	MP2C	Z	0	0	0	%100
111	MP1C	X	-8.926	-8.926	0	%100
112	MP1C	Z	0	0	0	%100
113	M101	X	0	0	0	%100
114	M101	Z	0	0	0	%100
115	M108	X	-6.694	-6.694	0	%100
116	M108	Z	0	0	0	%100
117	M115	X	-6.694	-6.694	0	%100
118	M115	Z	0	0	0	%100
119	M122	X	-8.67	-8.67	0	%100
120	M122	Z	0	0	0	%100
121	M123	X	0	0	0	%100
122	M123	Z	0	0	0	%100
123	M124	X	-8.67	-8.67	0	%100
124	M124	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	M13	X	-7.732	-7.732	0	%100
2	M13	Z	-4.464	-4.464	0	%100
3	M20	X	-2.353	-2.353	0	%100
4	M20	Z	-1.358	-1.358	0	%100
5	M32	X	-2.353	-2.353	0	%100
6	M32	Z	-1.358	-1.358	0	%100
7	M33A	X	-9.41	-9.41	0	%100
8	M33A	Z	-5.433	-5.433	0	%100
9	M41A	X	-2.026	-2.026	0	%100
10	M41A	Z	-1.17	-1.17	0	%100
11	M42 1	X	-2.026	-2.026	0	%100
12	M42 1	Z	-1.17	-1.17	0	%100
13	M43A 1	X	-4.033	-4.033	0	%100
14	M43A 1	Z	-2.328	-2.328	0	%100
15	M46A	X	-8.782	-8.782	0	%100
16	M46A	Z	-5.07	-5.07	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
17	M47	X	-2.196	-2.196	0 %100
18	M47	Z	-1.268	-1.268	0 %100
19	M64	X	-12.173	-12.173	0 %100
20	M64	Z	-7.028	-7.028	0 %100
21	M65	X	-4.108	-4.108	0 %100
22	M65	Z	-2.372	-2.372	0 %100
23	M71	X	-4.257	-4.257	0 %100
24	M71	Z	-2.458	-2.458	0 %100
25	M86	X	-12.173	-12.173	0 %100
26	M86	Z	-7.028	-7.028	0 %100
27	M87	X	-16.43	-16.43	0 %100
28	M87	Z	-9.486	-9.486	0 %100
29	M90	X	-17.028	-17.028	0 %100
30	M90	Z	-9.831	-9.831	0 %100
31	M50A	X	0	0	0 %100
32	M50A	Z	0	0	0 %100
33	M51A	X	-8.104	-8.104	0 %100
34	M51A	Z	-4.679	-4.679	0 %100
35	M52	X	-8.104	-8.104	0 %100
36	M52	Z	-4.679	-4.679	0 %100
37	M53A	X	-16.132	-16.132	0 %100
38	M53A	Z	-9.314	-9.314	0 %100
39	M56	X	-2.195	-2.195	0 %100
40	M56	Z	-1.268	-1.268	0 %100
41	M57	X	-2.196	-2.196	0 %100
42	M57	Z	-1.268	-1.268	0 %100
43	M62	X	0	0	0 %100
44	M62	Z	0	0	0 %100
45	M63	X	-4.108	-4.108	0 %100
46	M63	Z	-2.372	-2.372	0 %100
47	M65A	X	-4.257	-4.257	0 %100
48	M65A	Z	-2.458	-2.458	0 %100
49	M67	X	0	0	0 %100
50	M67	Z	0	0	0 %100
51	M68A	X	-4.108	-4.108	0 %100
52	M68A	Z	-2.372	-2.372	0 %100
53	M70	X	-4.257	-4.257	0 %100
54	M70	Z	-2.458	-2.458	0 %100
55	M72A	X	-7.732	-7.732	0 %100
56	M72A	Z	-4.464	-4.464	0 %100
57	M73	X	-2.026	-2.026	0 %100
58	M73	Z	-1.17	-1.17	0 %100
59	M74	X	-2.026	-2.026	0 %100
60	M74	Z	-1.17	-1.17	0 %100
61	M75	X	-4.033	-4.033	0 %100
62	M75	Z	-2.328	-2.328	0 %100
63	M78	X	-2.195	-2.195	0 %100
64	M78	Z	-1.268	-1.268	0 %100
65	M79	X	-8.783	-8.783	0 %100
66	M79	Z	-5.071	-5.071	0 %100
67	M84	X	-12.173	-12.173	0 %100
68	M84	Z	-7.028	-7.028	0 %100
69	M85	X	-16.43	-16.43	0 %100
70	M85	Z	-9.486	-9.486	0 %100
71	M87A	X	-17.028	-17.028	0 %100
72	M87A	Z	-9.831	-9.831	0 %100
73	M89A	X	-12.173	-12.173	0 %100



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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, %]
74	M89A	Z	-7.028	-7.028	0 %100
75	M90A	X	-4.108	-4.108	0 %100
76	M90A	Z	-2.372	-2.372	0 %100
77	M92	X	-4.257	-4.257	0 %100
78	M92	Z	-2.458	-2.458	0 %100
79	M71B	X	-9.442	-9.442	0 %100
80	M71B	Z	-5.451	-5.451	0 %100
81	M72B	X	-9.442	-9.442	0 %100
82	M72B	Z	-5.451	-5.451	0 %100
83	M73A	X	-4.159	-4.159	0 %100
84	M73A	Z	-2.401	-2.401	0 %100
85	MP4A	X	-7.73	-7.73	0 %100
86	MP4A	Z	-4.463	-4.463	0 %100
87	MP3A	X	-7.73	-7.73	0 %100
88	MP3A	Z	-4.463	-4.463	0 %100
89	MP2A	X	-7.73	-7.73	0 %100
90	MP2A	Z	-4.463	-4.463	0 %100
91	MP1A	X	-7.73	-7.73	0 %100
92	MP1A	Z	-4.463	-4.463	0 %100
93	MP4B	X	-7.73	-7.73	0 %100
94	MP4B	Z	-4.463	-4.463	0 %100
95	MP3B	X	-7.73	-7.73	0 %100
96	MP3B	Z	-4.463	-4.463	0 %100
97	MP2B	X	-7.73	-7.73	0 %100
98	MP2B	Z	-4.463	-4.463	0 %100
99	MP1B	X	-7.73	-7.73	0 %100
100	MP1B	Z	-4.463	-4.463	0 %100
101	OVP2	X	-4.624	-4.624	0 %100
102	OVP2	Z	-2.67	-2.67	0 %100
103	OVP1	X	-4.624	-4.624	0 %100
104	OVP1	Z	-2.67	-2.67	0 %100
105	MP4C	X	-7.73	-7.73	0 %100
106	MP4C	Z	-4.463	-4.463	0 %100
107	MP3C	X	-7.73	-7.73	0 %100
108	MP3C	Z	-4.463	-4.463	0 %100
109	MP2C	X	-7.73	-7.73	0 %100
110	MP2C	Z	-4.463	-4.463	0 %100
111	MP1C	X	-7.73	-7.73	0 %100
112	MP1C	Z	-4.463	-4.463	0 %100
113	M101	X	-1.932	-1.932	0 %100
114	M101	Z	-1.116	-1.116	0 %100
115	M108	X	-1.932	-1.932	0 %100
116	M108	Z	-1.116	-1.116	0 %100
117	M115	X	-7.73	-7.73	0 %100
118	M115	Z	-4.463	-4.463	0 %100
119	M122	X	-2.503	-2.503	0 %100
120	M122	Z	-1.445	-1.445	0 %100
121	M123	X	-2.503	-2.503	0 %100
122	M123	Z	-1.445	-1.445	0 %100
123	M124	X	-10.011	-10.011	0 %100
124	M124	Z	-5.78	-5.78	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	M13	X	-5.952	-5.952	0 %100
2	M13	Z	-10.309	-10.309	0 %100



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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, %]
3	M20	X	-4.075	-4.075	0 %100
4	M20	Z	-7.058	-7.058	0 %100
5	M32	X	0	0	0 %100
6	M32	Z	0	0	0 %100
7	M33A	X	-4.075	-4.075	0 %100
8	M33A	Z	-7.058	-7.058	0 %100
9	M41A	X	0	0	0 %100
10	M41A	Z	0	0	0 %100
11	M42 1	X	0	0	0 %100
12	M42 1	Z	0	0	0 %100
13	M43A 1	X	0	0	0 %100
14	M43A 1	Z	0	0	0 %100
15	M46A	X	-3.803	-3.803	0 %100
16	M46A	Z	-6.586	-6.586	0 %100
17	M47	X	-3.803	-3.803	0 %100
18	M47	Z	-6.587	-6.587	0 %100
19	M64	X	-9.371	-9.371	0 %100
20	M64	Z	-16.231	-16.231	0 %100
21	M65	X	-7.115	-7.115	0 %100
22	M65	Z	-12.323	-12.323	0 %100
23	M71	X	-7.373	-7.373	0 %100
24	M71	Z	-12.771	-12.771	0 %100
25	M86	X	-9.371	-9.371	0 %100
26	M86	Z	-16.231	-16.231	0 %100
27	M87	X	-7.115	-7.115	0 %100
28	M87	Z	-12.323	-12.323	0 %100
29	M90	X	-7.373	-7.373	0 %100
30	M90	Z	-12.771	-12.771	0 %100
31	M50A	X	-1.488	-1.488	0 %100
32	M50A	Z	-2.577	-2.577	0 %100
33	M51A	X	-3.509	-3.509	0 %100
34	M51A	Z	-6.078	-6.078	0 %100
35	M52	X	-3.509	-3.509	0 %100
36	M52	Z	-6.078	-6.078	0 %100
37	M53A	X	-6.985	-6.985	0 %100
38	M53A	Z	-12.099	-12.099	0 %100
39	M56	X	-3.803	-3.803	0 %100
40	M56	Z	-6.586	-6.586	0 %100
41	M57	X	0	0	0 %100
42	M57	Z	0	0	0 %100
43	M62	X	-2.343	-2.343	0 %100
44	M62	Z	-4.058	-4.058	0 %100
45	M63	X	0	0	0 %100
46	M63	Z	0	0	0 %100
47	M65A	X	0	0	0 %100
48	M65A	Z	0	0	0 %100
49	M67	X	-2.343	-2.343	0 %100
50	M67	Z	-4.058	-4.058	0 %100
51	M68A	X	-7.115	-7.115	0 %100
52	M68A	Z	-12.323	-12.323	0 %100
53	M70	X	-7.373	-7.373	0 %100
54	M70	Z	-12.771	-12.771	0 %100
55	M72A	X	-1.488	-1.488	0 %100
56	M72A	Z	-2.577	-2.577	0 %100
57	M73	X	-3.509	-3.509	0 %100
58	M73	Z	-6.078	-6.078	0 %100
59	M74	X	-3.509	-3.509	0 %100



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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,%]
60	M74	Z	-6.078	-6.078	0 %100
61	M75	X	-6.985	-6.985	0 %100
62	M75	Z	-12.099	-12.099	0 %100
63	M78	X	0	0	0 %100
64	M78	Z	0	0	0 %100
65	M79	X	-3.803	-3.803	0 %100
66	M79	Z	-6.587	-6.587	0 %100
67	M84	X	-2.343	-2.343	0 %100
68	M84	Z	-4.058	-4.058	0 %100
69	M85	X	-7.115	-7.115	0 %100
70	M85	Z	-12.323	-12.323	0 %100
71	M87A	X	-7.373	-7.373	0 %100
72	M87A	Z	-12.771	-12.771	0 %100
73	M89A	X	-2.343	-2.343	0 %100
74	M89A	Z	-4.058	-4.058	0 %100
75	M90A	X	0	0	0 %100
76	M90A	Z	0	0	0 %100
77	M92	X	0	0	0 %100
78	M92	Z	0	0	0 %100
79	M71B	X	-6.468	-6.468	0 %100
80	M71B	Z	-11.203	-11.203	0 %100
81	M72B	X	-3.418	-3.418	0 %100
82	M72B	Z	-5.92	-5.92	0 %100
83	M73A	X	-3.418	-3.418	0 %100
84	M73A	Z	-5.92	-5.92	0 %100
85	MP4A	X	-4.463	-4.463	0 %100
86	MP4A	Z	-7.73	-7.73	0 %100
87	MP3A	X	-4.463	-4.463	0 %100
88	MP3A	Z	-7.73	-7.73	0 %100
89	MP2A	X	-4.463	-4.463	0 %100
90	MP2A	Z	-7.73	-7.73	0 %100
91	MP1A	X	-4.463	-4.463	0 %100
92	MP1A	Z	-7.73	-7.73	0 %100
93	MP4B	X	-4.463	-4.463	0 %100
94	MP4B	Z	-7.73	-7.73	0 %100
95	MP3B	X	-4.463	-4.463	0 %100
96	MP3B	Z	-7.73	-7.73	0 %100
97	MP2B	X	-4.463	-4.463	0 %100
98	MP2B	Z	-7.73	-7.73	0 %100
99	MP1B	X	-4.463	-4.463	0 %100
100	MP1B	Z	-7.73	-7.73	0 %100
101	OVP2	X	-2.67	-2.67	0 %100
102	OVP2	Z	-4.624	-4.624	0 %100
103	OVP1	X	-2.67	-2.67	0 %100
104	OVP1	Z	-4.624	-4.624	0 %100
105	MP4C	X	-4.463	-4.463	0 %100
106	MP4C	Z	-7.73	-7.73	0 %100
107	MP3C	X	-4.463	-4.463	0 %100
108	MP3C	Z	-7.73	-7.73	0 %100
109	MP2C	X	-4.463	-4.463	0 %100
110	MP2C	Z	-7.73	-7.73	0 %100
111	MP1C	X	-4.463	-4.463	0 %100
112	MP1C	Z	-7.73	-7.73	0 %100
113	M101	X	-3.347	-3.347	0 %100
114	M101	Z	-5.797	-5.797	0 %100
115	M108	X	0	0	0 %100
116	M108	Z	0	0	0 %100



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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, %]
117	M115	X	-3.347	-3.347	0	%100
118	M115	Z	-5.797	-5.797	0	%100
119	M122	X	0	0	0	%100
120	M122	Z	0	0	0	%100
121	M123	X	-4.335	-4.335	0	%100
122	M123	Z	-7.509	-7.509	0	%100
123	M124	X	-4.335	-4.335	0	%100
124	M124	Z	-7.509	-7.509	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	M13	X	0	0	0	%100
2	M13	Z	-2.549	-2.549	0	%100
3	M20	X	0	0	0	%100
4	M20	Z	-3.212	-3.212	0	%100
5	M32	X	0	0	0	%100
6	M32	Z	-.803	-.803	0	%100
7	M33A	X	0	0	0	%100
8	M33A	Z	-.803	-.803	0	%100
9	M41A	X	0	0	0	%100
10	M41A	Z	-.664	-.664	0	%100
11	M42_1	X	0	0	0	%100
12	M42_1	Z	-.664	-.664	0	%100
13	M43A_1	X	0	0	0	%100
14	M43A_1	Z	-1.039	-1.039	0	%100
15	M46A	X	0	0	0	%100
16	M46A	Z	-.747	-.747	0	%100
17	M47	X	0	0	0	%100
18	M47	Z	-2.99	-2.99	0	%100
19	M64	X	0	0	0	%100
20	M64	Z	-3.076	-3.076	0	%100
21	M65	X	0	0	0	%100
22	M65	Z	-4.142	-4.142	0	%100
23	M71	X	0	0	0	%100
24	M71	Z	-4.266	-4.266	0	%100
25	M86	X	0	0	0	%100
26	M86	Z	-3.076	-3.076	0	%100
27	M87	X	0	0	0	%100
28	M87	Z	-1.036	-1.036	0	%100
29	M90	X	0	0	0	%100
30	M90	Z	-1.067	-1.067	0	%100
31	M50A	X	0	0	0	%100
32	M50A	Z	-2.549	-2.549	0	%100
33	M51A	X	0	0	0	%100
34	M51A	Z	-.664	-.664	0	%100
35	M52	X	0	0	0	%100
36	M52	Z	-.664	-.664	0	%100
37	M53A	X	0	0	0	%100
38	M53A	Z	-1.039	-1.039	0	%100
39	M56	X	0	0	0	%100
40	M56	Z	-2.989	-2.989	0	%100
41	M57	X	0	0	0	%100
42	M57	Z	-.747	-.747	0	%100
43	M62	X	0	0	0	%100
44	M62	Z	-3.076	-3.076	0	%100
45	M63	X	0	0	0	%100



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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,%]
46	M63	Z	-1.036	-1.036	0 %100
47	M65A	X	0	0	0 %100
48	M65A	Z	-1.067	-1.067	0 %100
49	M67	X	0	0	0 %100
50	M67	Z	-3.076	-3.076	0 %100
51	M68A	X	0	0	0 %100
52	M68A	Z	-4.142	-4.142	0 %100
53	M70	X	0	0	0 %100
54	M70	Z	-4.266	-4.266	0 %100
55	M72A	X	0	0	0 %100
56	M72A	Z	0	0	0 %100
57	M73	X	0	0	0 %100
58	M73	Z	-2.656	-2.656	0 %100
59	M74	X	0	0	0 %100
60	M74	Z	-2.656	-2.656	0 %100
61	M75	X	0	0	0 %100
62	M75	Z	-4.157	-4.157	0 %100
63	M78	X	0	0	0 %100
64	M78	Z	-.747	-.747	0 %100
65	M79	X	0	0	0 %100
66	M79	Z	-.747	-.747	0 %100
67	M84	X	0	0	0 %100
68	M84	Z	0	0	0 %100
69	M85	X	0	0	0 %100
70	M85	Z	-1.036	-1.036	0 %100
71	M87A	X	0	0	0 %100
72	M87A	Z	-1.067	-1.067	0 %100
73	M89A	X	0	0	0 %100
74	M89A	Z	0	0	0 %100
75	M90A	X	0	0	0 %100
76	M90A	Z	-1.036	-1.036	0 %100
77	M92	X	0	0	0 %100
78	M92	Z	-1.067	-1.067	0 %100
79	M71B	X	0	0	0 %100
80	M71B	Z	-2.973	-2.973	0 %100
81	M72B	X	0	0	0 %100
82	M72B	Z	-1.142	-1.142	0 %100
83	M73A	X	0	0	0 %100
84	M73A	Z	-2.973	-2.973	0 %100
85	MP4A	X	0	0	0 %100
86	MP4A	Z	-2.864	-2.864	0 %100
87	MP3A	X	0	0	0 %100
88	MP3A	Z	-2.864	-2.864	0 %100
89	MP2A	X	0	0	0 %100
90	MP2A	Z	-2.864	-2.864	0 %100
91	MP1A	X	0	0	0 %100
92	MP1A	Z	-2.864	-2.864	0 %100
93	MP4B	X	0	0	0 %100
94	MP4B	Z	-2.864	-2.864	0 %100
95	MP3B	X	0	0	0 %100
96	MP3B	Z	-2.864	-2.864	0 %100
97	MP2B	X	0	0	0 %100
98	MP2B	Z	-2.864	-2.864	0 %100
99	MP1B	X	0	0	0 %100
100	MP1B	Z	-2.864	-2.864	0 %100
101	OVP2	X	0	0	0 %100
102	OVP2	Z	-1.884	-1.884	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, %]
103	OVP1	X	0	0	0	%100
104	OVP1	Z	-1.884	-1.884	0	%100
105	MP4C	X	0	0	0	%100
106	MP4C	Z	-2.864	-2.864	0	%100
107	MP3C	X	0	0	0	%100
108	MP3C	Z	-2.864	-2.864	0	%100
109	MP2C	X	0	0	0	%100
110	MP2C	Z	-2.864	-2.864	0	%100
111	MP1C	X	0	0	0	%100
112	MP1C	Z	-2.864	-2.864	0	%100
113	M101	X	0	0	0	%100
114	M101	Z	-2.864	-2.864	0	%100
115	M108	X	0	0	0	%100
116	M108	Z	-.716	-.716	0	%100
117	M115	X	0	0	0	%100
118	M115	Z	-.716	-.716	0	%100
119	M122	X	0	0	0	%100
120	M122	Z	-.763	-.763	0	%100
121	M123	X	0	0	0	%100
122	M123	Z	-3.053	-3.053	0	%100
123	M124	X	0	0	0	%100
124	M124	Z	-.763	-.763	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	M13	X	.425	.425	0	%100
2	M13	Z	-.736	-.736	0	%100
3	M20	X	1.205	1.205	0	%100
4	M20	Z	-2.086	-2.086	0	%100
5	M32	X	1.205	1.205	0	%100
6	M32	Z	-2.086	-2.086	0	%100
7	M33A	X	0	0	0	%100
8	M33A	Z	0	0	0	%100
9	M41A	X	.996	.996	0	%100
10	M41A	Z	-1.725	-1.725	0	%100
11	M42 1	X	.996	.996	0	%100
12	M42 1	Z	-1.725	-1.725	0	%100
13	M43A 1	X	1.559	1.559	0	%100
14	M43A 1	Z	-2.7	-2.7	0	%100
15	M46A	X	0	0	0	%100
16	M46A	Z	0	0	0	%100
17	M47	X	1.121	1.121	0	%100
18	M47	Z	-1.942	-1.942	0	%100
19	M64	X	.513	.513	0	%100
20	M64	Z	-.888	-.888	0	%100
21	M65	X	1.553	1.553	0	%100
22	M65	Z	-2.69	-2.69	0	%100
23	M71	X	1.6	1.6	0	%100
24	M71	Z	-2.771	-2.771	0	%100
25	M86	X	.513	.513	0	%100
26	M86	Z	-.888	-.888	0	%100
27	M87	X	0	0	0	%100
28	M87	Z	0	0	0	%100
29	M90	X	0	0	0	%100
30	M90	Z	0	0	0	%100
31	M50A	X	1.699	1.699	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
32	M50A	Z	-2.943	-2.943	0 %100
33	M51A	X	0	0	0 %100
34	M51A	Z	0	0	0 %100
35	M52	X	0	0	0 %100
36	M52	Z	0	0	0 %100
37	M53A	X	0	0	0 %100
38	M53A	Z	0	0	0 %100
39	M56	X	1.121	1.121	0 %100
40	M56	Z	-1.942	-1.942	0 %100
41	M57	X	1.121	1.121	0 %100
42	M57	Z	-1.942	-1.942	0 %100
43	M62	X	2.05	2.05	0 %100
44	M62	Z	-3.551	-3.551	0 %100
45	M63	X	1.553	1.553	0 %100
46	M63	Z	-2.69	-2.69	0 %100
47	M65A	X	1.6	1.6	0 %100
48	M65A	Z	-2.771	-2.771	0 %100
49	M67	X	2.05	2.05	0 %100
50	M67	Z	-3.551	-3.551	0 %100
51	M68A	X	1.553	1.553	0 %100
52	M68A	Z	-2.69	-2.69	0 %100
53	M70	X	1.6	1.6	0 %100
54	M70	Z	-2.771	-2.771	0 %100
55	M72A	X	.425	.425	0 %100
56	M72A	Z	-.736	-.736	0 %100
57	M73	X	.996	.996	0 %100
58	M73	Z	-1.725	-1.725	0 %100
59	M74	X	.996	.996	0 %100
60	M74	Z	-1.725	-1.725	0 %100
61	M75	X	1.559	1.559	0 %100
62	M75	Z	-2.7	-2.7	0 %100
63	M78	X	1.121	1.121	0 %100
64	M78	Z	-1.942	-1.942	0 %100
65	M79	X	0	0	0 %100
66	M79	Z	0	0	0 %100
67	M84	X	.513	.513	0 %100
68	M84	Z	-.888	-.888	0 %100
69	M85	X	0	0	0 %100
70	M85	Z	0	0	0 %100
71	M87A	X	0	0	0 %100
72	M87A	Z	0	0	0 %100
73	M89A	X	.513	.513	0 %100
74	M89A	Z	-.888	-.888	0 %100
75	M90A	X	1.553	1.553	0 %100
76	M90A	Z	-2.69	-2.69	0 %100
77	M92	X	1.6	1.6	0 %100
78	M92	Z	-2.771	-2.771	0 %100
79	M71B	X	.876	.876	0 %100
80	M71B	Z	-1.517	-1.517	0 %100
81	M72B	X	.876	.876	0 %100
82	M72B	Z	-1.517	-1.517	0 %100
83	M73A	X	1.792	1.792	0 %100
84	M73A	Z	-3.104	-3.104	0 %100
85	MP4A	X	1.432	1.432	0 %100
86	MP4A	Z	-2.48	-2.48	0 %100
87	MP3A	X	1.432	1.432	0 %100
88	MP3A	Z	-2.48	-2.48	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
89	MP2A	X	1.432	1.432	0	%100
90	MP2A	Z	-2.48	-2.48	0	%100
91	MP1A	X	1.432	1.432	0	%100
92	MP1A	Z	-2.48	-2.48	0	%100
93	MP4B	X	1.432	1.432	0	%100
94	MP4B	Z	-2.48	-2.48	0	%100
95	MP3B	X	1.432	1.432	0	%100
96	MP3B	Z	-2.48	-2.48	0	%100
97	MP2B	X	1.432	1.432	0	%100
98	MP2B	Z	-2.48	-2.48	0	%100
99	MP1B	X	1.432	1.432	0	%100
100	MP1B	Z	-2.48	-2.48	0	%100
101	OVP2	X	.942	.942	0	%100
102	OVP2	Z	-1.631	-1.631	0	%100
103	OVP1	X	.942	.942	0	%100
104	OVP1	Z	-1.631	-1.631	0	%100
105	MP4C	X	1.432	1.432	0	%100
106	MP4C	Z	-2.48	-2.48	0	%100
107	MP3C	X	1.432	1.432	0	%100
108	MP3C	Z	-2.48	-2.48	0	%100
109	MP2C	X	1.432	1.432	0	%100
110	MP2C	Z	-2.48	-2.48	0	%100
111	MP1C	X	1.432	1.432	0	%100
112	MP1C	Z	-2.48	-2.48	0	%100
113	M101	X	1.074	1.074	0	%100
114	M101	Z	-1.86	-1.86	0	%100
115	M108	X	1.074	1.074	0	%100
116	M108	Z	-1.86	-1.86	0	%100
117	M115	X	0	0	0	%100
118	M115	Z	0	0	0	%100
119	M122	X	1.145	1.145	0	%100
120	M122	Z	-1.983	-1.983	0	%100
121	M123	X	1.145	1.145	0	%100
122	M123	Z	-1.983	-1.983	0	%100
123	M124	X	0	0	0	%100
124	M124	Z	0	0	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	M13	X	0	0	0	%100
2	M13	Z	0	0	0	%100
3	M20	X	.695	.695	0	%100
4	M20	Z	-.402	-.402	0	%100
5	M32	X	2.782	2.782	0	%100
6	M32	Z	-1.606	-1.606	0	%100
7	M33A	X	.695	.695	0	%100
8	M33A	Z	-.402	-.402	0	%100
9	M41A	X	2.3	2.3	0	%100
10	M41A	Z	-1.328	-1.328	0	%100
11	M42 1	X	2.3	2.3	0	%100
12	M42 1	Z	-1.328	-1.328	0	%100
13	M43A 1	X	3.6	3.6	0	%100
14	M43A 1	Z	-2.079	-2.079	0	%100
15	M46A	X	.647	.647	0	%100
16	M46A	Z	-.374	-.374	0	%100
17	M47	X	.647	.647	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, %]
18	M47	Z	-.374	-.374	0	%100
19	M64	X	0	0	0	%100
20	M64	Z	0	0	0	%100
21	M65	X	.897	.897	0	%100
22	M65	Z	-.518	-.518	0	%100
23	M71	X	.924	.924	0	%100
24	M71	Z	-.533	-.533	0	%100
25	M86	X	0	0	0	%100
26	M86	Z	0	0	0	%100
27	M87	X	.897	.897	0	%100
28	M87	Z	-.518	-.518	0	%100
29	M90	X	.924	.924	0	%100
30	M90	Z	-.533	-.533	0	%100
31	M50A	X	2.208	2.208	0	%100
32	M50A	Z	-1.275	-1.275	0	%100
33	M51A	X	.575	.575	0	%100
34	M51A	Z	-.332	-.332	0	%100
35	M52	X	.575	.575	0	%100
36	M52	Z	-.332	-.332	0	%100
37	M53A	X	.9	.9	0	%100
38	M53A	Z	-.52	-.52	0	%100
39	M56	X	.647	.647	0	%100
40	M56	Z	-.374	-.374	0	%100
41	M57	X	2.589	2.589	0	%100
42	M57	Z	-1.495	-1.495	0	%100
43	M62	X	2.664	2.664	0	%100
44	M62	Z	-1.538	-1.538	0	%100
45	M63	X	3.587	3.587	0	%100
46	M63	Z	-2.071	-2.071	0	%100
47	M65A	X	3.695	3.695	0	%100
48	M65A	Z	-2.133	-2.133	0	%100
49	M67	X	2.664	2.664	0	%100
50	M67	Z	-1.538	-1.538	0	%100
51	M68A	X	.897	.897	0	%100
52	M68A	Z	-.518	-.518	0	%100
53	M70	X	.924	.924	0	%100
54	M70	Z	-.533	-.533	0	%100
55	M72A	X	2.208	2.208	0	%100
56	M72A	Z	-1.275	-1.275	0	%100
57	M73	X	.575	.575	0	%100
58	M73	Z	-.332	-.332	0	%100
59	M74	X	.575	.575	0	%100
60	M74	Z	-.332	-.332	0	%100
61	M75	X	.9	.9	0	%100
62	M75	Z	-.52	-.52	0	%100
63	M78	X	2.589	2.589	0	%100
64	M78	Z	-1.495	-1.495	0	%100
65	M79	X	.647	.647	0	%100
66	M79	Z	-.374	-.374	0	%100
67	M84	X	2.664	2.664	0	%100
68	M84	Z	-1.538	-1.538	0	%100
69	M85	X	.897	.897	0	%100
70	M85	Z	-.518	-.518	0	%100
71	M87A	X	.924	.924	0	%100
72	M87A	Z	-.533	-.533	0	%100
73	M89A	X	2.664	2.664	0	%100
74	M89A	Z	-1.538	-1.538	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, %]
75	M90A	X	3.587	3.587	0	%100
76	M90A	Z	-2.071	-2.071	0	%100
77	M92	X	3.695	3.695	0	%100
78	M92	Z	-2.133	-2.133	0	%100
79	M71B	X	.989	.989	0	%100
80	M71B	Z	-.571	-.571	0	%100
81	M72B	X	2.575	2.575	0	%100
82	M72B	Z	-1.487	-1.487	0	%100
83	M73A	X	2.575	2.575	0	%100
84	M73A	Z	-1.487	-1.487	0	%100
85	MP4A	X	2.48	2.48	0	%100
86	MP4A	Z	-1.432	-1.432	0	%100
87	MP3A	X	2.48	2.48	0	%100
88	MP3A	Z	-1.432	-1.432	0	%100
89	MP2A	X	2.48	2.48	0	%100
90	MP2A	Z	-1.432	-1.432	0	%100
91	MP1A	X	2.48	2.48	0	%100
92	MP1A	Z	-1.432	-1.432	0	%100
93	MP4B	X	2.48	2.48	0	%100
94	MP4B	Z	-1.432	-1.432	0	%100
95	MP3B	X	2.48	2.48	0	%100
96	MP3B	Z	-1.432	-1.432	0	%100
97	MP2B	X	2.48	2.48	0	%100
98	MP2B	Z	-1.432	-1.432	0	%100
99	MP1B	X	2.48	2.48	0	%100
100	MP1B	Z	-1.432	-1.432	0	%100
101	OVP2	X	1.631	1.631	0	%100
102	OVP2	Z	-.942	-.942	0	%100
103	OVP1	X	1.631	1.631	0	%100
104	OVP1	Z	-.942	-.942	0	%100
105	MP4C	X	2.48	2.48	0	%100
106	MP4C	Z	-1.432	-1.432	0	%100
107	MP3C	X	2.48	2.48	0	%100
108	MP3C	Z	-1.432	-1.432	0	%100
109	MP2C	X	2.48	2.48	0	%100
110	MP2C	Z	-1.432	-1.432	0	%100
111	MP1C	X	2.48	2.48	0	%100
112	MP1C	Z	-1.432	-1.432	0	%100
113	M101	X	.62	.62	0	%100
114	M101	Z	-.358	-.358	0	%100
115	M108	X	2.48	2.48	0	%100
116	M108	Z	-1.432	-1.432	0	%100
117	M115	X	.62	.62	0	%100
118	M115	Z	-.358	-.358	0	%100
119	M122	X	2.644	2.644	0	%100
120	M122	Z	-1.526	-1.526	0	%100
121	M123	X	.661	.661	0	%100
122	M123	Z	-.382	-.382	0	%100
123	M124	X	.661	.661	0	%100
124	M124	Z	-.382	-.382	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	M13	X	.85	.85	0	%100
2	M13	Z	0	0	0	%100
3	M20	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
4	M20	Z	0	0	0	%100
5	M32	X	2.409	2.409	0	%100
6	M32	Z	0	0	0	%100
7	M33A	X	2.409	2.409	0	%100
8	M33A	Z	0	0	0	%100
9	M41A	X	1.992	1.992	0	%100
10	M41A	Z	0	0	0	%100
11	M42 1	X	1.992	1.992	0	%100
12	M42 1	Z	0	0	0	%100
13	M43A 1	X	3.118	3.118	0	%100
14	M43A 1	Z	0	0	0	%100
15	M46A	X	2.242	2.242	0	%100
16	M46A	Z	0	0	0	%100
17	M47	X	0	0	0	%100
18	M47	Z	0	0	0	%100
19	M64	X	1.025	1.025	0	%100
20	M64	Z	0	0	0	%100
21	M65	X	0	0	0	%100
22	M65	Z	0	0	0	%100
23	M71	X	0	0	0	%100
24	M71	Z	0	0	0	%100
25	M86	X	1.025	1.025	0	%100
26	M86	Z	0	0	0	%100
27	M87	X	3.107	3.107	0	%100
28	M87	Z	0	0	0	%100
29	M90	X	3.2	3.2	0	%100
30	M90	Z	0	0	0	%100
31	M50A	X	.85	.85	0	%100
32	M50A	Z	0	0	0	%100
33	M51A	X	1.992	1.992	0	%100
34	M51A	Z	0	0	0	%100
35	M52	X	1.992	1.992	0	%100
36	M52	Z	0	0	0	%100
37	M53A	X	3.118	3.118	0	%100
38	M53A	Z	0	0	0	%100
39	M56	X	0	0	0	%100
40	M56	Z	0	0	0	%100
41	M57	X	2.242	2.242	0	%100
42	M57	Z	0	0	0	%100
43	M62	X	1.025	1.025	0	%100
44	M62	Z	0	0	0	%100
45	M63	X	3.107	3.107	0	%100
46	M63	Z	0	0	0	%100
47	M65A	X	3.2	3.2	0	%100
48	M65A	Z	0	0	0	%100
49	M67	X	1.025	1.025	0	%100
50	M67	Z	0	0	0	%100
51	M68A	X	0	0	0	%100
52	M68A	Z	0	0	0	%100
53	M70	X	0	0	0	%100
54	M70	Z	0	0	0	%100
55	M72A	X	3.399	3.399	0	%100
56	M72A	Z	0	0	0	%100
57	M73	X	0	0	0	%100
58	M73	Z	0	0	0	%100
59	M74	X	0	0	0	%100
60	M74	Z	0	0	0	%100



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 Designer : FAC
 Job Number : 16244162
 Model Name : 470974-VZW

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
61	M75	X	0	0	0	%100
62	M75	Z	0	0	0	%100
63	M78	X	2.242	2.242	0	%100
64	M78	Z	0	0	0	%100
65	M79	X	2.242	2.242	0	%100
66	M79	Z	0	0	0	%100
67	M84	X	4.101	4.101	0	%100
68	M84	Z	0	0	0	%100
69	M85	X	3.107	3.107	0	%100
70	M85	Z	0	0	0	%100
71	M87A	X	3.2	3.2	0	%100
72	M87A	Z	0	0	0	%100
73	M89A	X	4.101	4.101	0	%100
74	M89A	Z	0	0	0	%100
75	M90A	X	3.107	3.107	0	%100
76	M90A	Z	0	0	0	%100
77	M92	X	3.2	3.2	0	%100
78	M92	Z	0	0	0	%100
79	M71B	X	1.752	1.752	0	%100
80	M71B	Z	0	0	0	%100
81	M72B	X	3.584	3.584	0	%100
82	M72B	Z	0	0	0	%100
83	M73A	X	1.752	1.752	0	%100
84	M73A	Z	0	0	0	%100
85	MP4A	X	2.864	2.864	0	%100
86	MP4A	Z	0	0	0	%100
87	MP3A	X	2.864	2.864	0	%100
88	MP3A	Z	0	0	0	%100
89	MP2A	X	2.864	2.864	0	%100
90	MP2A	Z	0	0	0	%100
91	MP1A	X	2.864	2.864	0	%100
92	MP1A	Z	0	0	0	%100
93	MP4B	X	2.864	2.864	0	%100
94	MP4B	Z	0	0	0	%100
95	MP3B	X	2.864	2.864	0	%100
96	MP3B	Z	0	0	0	%100
97	MP2B	X	2.864	2.864	0	%100
98	MP2B	Z	0	0	0	%100
99	MP1B	X	2.864	2.864	0	%100
100	MP1B	Z	0	0	0	%100
101	OVP2	X	1.884	1.884	0	%100
102	OVP2	Z	0	0	0	%100
103	OVP1	X	1.884	1.884	0	%100
104	OVP1	Z	0	0	0	%100
105	MP4C	X	2.864	2.864	0	%100
106	MP4C	Z	0	0	0	%100
107	MP3C	X	2.864	2.864	0	%100
108	MP3C	Z	0	0	0	%100
109	MP2C	X	2.864	2.864	0	%100
110	MP2C	Z	0	0	0	%100
111	MP1C	X	2.864	2.864	0	%100
112	MP1C	Z	0	0	0	%100
113	M101	X	0	0	0	%100
114	M101	Z	0	0	0	%100
115	M108	X	2.148	2.148	0	%100
116	M108	Z	0	0	0	%100
117	M115	X	2.148	2.148	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, %]
118	M115	Z	0	0	0	%100
119	M122	X	2.29	2.29	0	%100
120	M122	Z	0	0	0	%100
121	M123	X	0	0	0	%100
122	M123	Z	0	0	0	%100
123	M124	X	2.29	2.29	0	%100
124	M124	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	M13	X	2.208	2.208	0	%100
2	M13	Z	1.275	1.275	0	%100
3	M20	X	.695	.695	0	%100
4	M20	Z	.402	.402	0	%100
5	M32	X	.695	.695	0	%100
6	M32	Z	.402	.402	0	%100
7	M33A	X	2.782	2.782	0	%100
8	M33A	Z	1.606	1.606	0	%100
9	M41A	X	.575	.575	0	%100
10	M41A	Z	.332	.332	0	%100
11	M42 1	X	.575	.575	0	%100
12	M42 1	Z	.332	.332	0	%100
13	M43A 1	X	.9	.9	0	%100
14	M43A 1	Z	.52	.52	0	%100
15	M46A	X	2.589	2.589	0	%100
16	M46A	Z	1.495	1.495	0	%100
17	M47	X	.647	.647	0	%100
18	M47	Z	.374	.374	0	%100
19	M64	X	2.664	2.664	0	%100
20	M64	Z	1.538	1.538	0	%100
21	M65	X	.897	.897	0	%100
22	M65	Z	.518	.518	0	%100
23	M71	X	.924	.924	0	%100
24	M71	Z	.533	.533	0	%100
25	M86	X	2.664	2.664	0	%100
26	M86	Z	1.538	1.538	0	%100
27	M87	X	3.587	3.587	0	%100
28	M87	Z	2.071	2.071	0	%100
29	M90	X	3.695	3.695	0	%100
30	M90	Z	2.133	2.133	0	%100
31	M50A	X	0	0	0	%100
32	M50A	Z	0	0	0	%100
33	M51A	X	2.3	2.3	0	%100
34	M51A	Z	1.328	1.328	0	%100
35	M52	X	2.3	2.3	0	%100
36	M52	Z	1.328	1.328	0	%100
37	M53A	X	3.6	3.6	0	%100
38	M53A	Z	2.079	2.079	0	%100
39	M56	X	.647	.647	0	%100
40	M56	Z	.374	.374	0	%100
41	M57	X	.647	.647	0	%100
42	M57	Z	.374	.374	0	%100
43	M62	X	0	0	0	%100
44	M62	Z	0	0	0	%100
45	M63	X	.897	.897	0	%100
46	M63	Z	.518	.518	0	%100



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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, %]
47	M65A	X	.924	.924	0 %100
48	M65A	Z	.533	.533	0 %100
49	M67	X	0	0	0 %100
50	M67	Z	0	0	0 %100
51	M68A	X	.897	.897	0 %100
52	M68A	Z	.518	.518	0 %100
53	M70	X	.924	.924	0 %100
54	M70	Z	.533	.533	0 %100
55	M72A	X	2.208	2.208	0 %100
56	M72A	Z	1.275	1.275	0 %100
57	M73	X	.575	.575	0 %100
58	M73	Z	.332	.332	0 %100
59	M74	X	.575	.575	0 %100
60	M74	Z	.332	.332	0 %100
61	M75	X	.9	.9	0 %100
62	M75	Z	.52	.52	0 %100
63	M78	X	.647	.647	0 %100
64	M78	Z	.374	.374	0 %100
65	M79	X	2.589	2.589	0 %100
66	M79	Z	1.495	1.495	0 %100
67	M84	X	2.664	2.664	0 %100
68	M84	Z	1.538	1.538	0 %100
69	M85	X	3.587	3.587	0 %100
70	M85	Z	2.071	2.071	0 %100
71	M87A	X	3.695	3.695	0 %100
72	M87A	Z	2.133	2.133	0 %100
73	M89A	X	2.664	2.664	0 %100
74	M89A	Z	1.538	1.538	0 %100
75	M90A	X	.897	.897	0 %100
76	M90A	Z	.518	.518	0 %100
77	M92	X	.924	.924	0 %100
78	M92	Z	.533	.533	0 %100
79	M71B	X	2.575	2.575	0 %100
80	M71B	Z	1.487	1.487	0 %100
81	M72B	X	2.575	2.575	0 %100
82	M72B	Z	1.487	1.487	0 %100
83	M73A	X	.989	.989	0 %100
84	M73A	Z	.571	.571	0 %100
85	MP4A	X	2.48	2.48	0 %100
86	MP4A	Z	1.432	1.432	0 %100
87	MP3A	X	2.48	2.48	0 %100
88	MP3A	Z	1.432	1.432	0 %100
89	MP2A	X	2.48	2.48	0 %100
90	MP2A	Z	1.432	1.432	0 %100
91	MP1A	X	2.48	2.48	0 %100
92	MP1A	Z	1.432	1.432	0 %100
93	MP4B	X	2.48	2.48	0 %100
94	MP4B	Z	1.432	1.432	0 %100
95	MP3B	X	2.48	2.48	0 %100
96	MP3B	Z	1.432	1.432	0 %100
97	MP2B	X	2.48	2.48	0 %100
98	MP2B	Z	1.432	1.432	0 %100
99	MP1B	X	2.48	2.48	0 %100
100	MP1B	Z	1.432	1.432	0 %100
101	OVP2	X	1.631	1.631	0 %100
102	OVP2	Z	.942	.942	0 %100
103	OVP1	X	1.631	1.631	0 %100



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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, %]
104	OVP1	Z	.942	.942	0	%100
105	MP4C	X	2.48	2.48	0	%100
106	MP4C	Z	1.432	1.432	0	%100
107	MP3C	X	2.48	2.48	0	%100
108	MP3C	Z	1.432	1.432	0	%100
109	MP2C	X	2.48	2.48	0	%100
110	MP2C	Z	1.432	1.432	0	%100
111	MP1C	X	2.48	2.48	0	%100
112	MP1C	Z	1.432	1.432	0	%100
113	M101	X	.62	.62	0	%100
114	M101	Z	.358	.358	0	%100
115	M108	X	.62	.62	0	%100
116	M108	Z	.358	.358	0	%100
117	M115	X	2.48	2.48	0	%100
118	M115	Z	1.432	1.432	0	%100
119	M122	X	.661	.661	0	%100
120	M122	Z	.382	.382	0	%100
121	M123	X	.661	.661	0	%100
122	M123	Z	.382	.382	0	%100
123	M124	X	2.644	2.644	0	%100
124	M124	Z	1.526	1.526	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	M13	X	1.699	1.699	0	%100
2	M13	Z	2.943	2.943	0	%100
3	M20	X	1.205	1.205	0	%100
4	M20	Z	2.086	2.086	0	%100
5	M32	X	0	0	0	%100
6	M32	Z	0	0	0	%100
7	M33A	X	1.205	1.205	0	%100
8	M33A	Z	2.086	2.086	0	%100
9	M41A	X	0	0	0	%100
10	M41A	Z	0	0	0	%100
11	M42 1	X	0	0	0	%100
12	M42 1	Z	0	0	0	%100
13	M43A 1	X	0	0	0	%100
14	M43A 1	Z	0	0	0	%100
15	M46A	X	1.121	1.121	0	%100
16	M46A	Z	1.942	1.942	0	%100
17	M47	X	1.121	1.121	0	%100
18	M47	Z	1.942	1.942	0	%100
19	M64	X	2.05	2.05	0	%100
20	M64	Z	3.551	3.551	0	%100
21	M65	X	1.553	1.553	0	%100
22	M65	Z	2.69	2.69	0	%100
23	M71	X	1.6	1.6	0	%100
24	M71	Z	2.771	2.771	0	%100
25	M86	X	2.05	2.05	0	%100
26	M86	Z	3.551	3.551	0	%100
27	M87	X	1.553	1.553	0	%100
28	M87	Z	2.69	2.69	0	%100
29	M90	X	1.6	1.6	0	%100
30	M90	Z	2.771	2.771	0	%100
31	M50A	X	.425	.425	0	%100
32	M50A	Z	.736	.736	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, %]
33	M51A	X	.996	.996	0 %100
34	M51A	Z	1.725	1.725	0 %100
35	M52	X	.996	.996	0 %100
36	M52	Z	1.725	1.725	0 %100
37	M53A	X	1.559	1.559	0 %100
38	M53A	Z	2.7	2.7	0 %100
39	M56	X	1.121	1.121	0 %100
40	M56	Z	1.942	1.942	0 %100
41	M57	X	0	0	0 %100
42	M57	Z	0	0	0 %100
43	M62	X	.513	.513	0 %100
44	M62	Z	.888	.888	0 %100
45	M63	X	0	0	0 %100
46	M63	Z	0	0	0 %100
47	M65A	X	0	0	0 %100
48	M65A	Z	0	0	0 %100
49	M67	X	.513	.513	0 %100
50	M67	Z	.888	.888	0 %100
51	M68A	X	1.553	1.553	0 %100
52	M68A	Z	2.69	2.69	0 %100
53	M70	X	1.6	1.6	0 %100
54	M70	Z	2.771	2.771	0 %100
55	M72A	X	.425	.425	0 %100
56	M72A	Z	.736	.736	0 %100
57	M73	X	.996	.996	0 %100
58	M73	Z	1.725	1.725	0 %100
59	M74	X	.996	.996	0 %100
60	M74	Z	1.725	1.725	0 %100
61	M75	X	1.559	1.559	0 %100
62	M75	Z	2.7	2.7	0 %100
63	M78	X	0	0	0 %100
64	M78	Z	0	0	0 %100
65	M79	X	1.121	1.121	0 %100
66	M79	Z	1.942	1.942	0 %100
67	M84	X	.513	.513	0 %100
68	M84	Z	.888	.888	0 %100
69	M85	X	1.553	1.553	0 %100
70	M85	Z	2.69	2.69	0 %100
71	M87A	X	1.6	1.6	0 %100
72	M87A	Z	2.771	2.771	0 %100
73	M89A	X	.513	.513	0 %100
74	M89A	Z	.888	.888	0 %100
75	M90A	X	0	0	0 %100
76	M90A	Z	0	0	0 %100
77	M92	X	0	0	0 %100
78	M92	Z	0	0	0 %100
79	M71B	X	1.792	1.792	0 %100
80	M71B	Z	3.104	3.104	0 %100
81	M72B	X	.876	.876	0 %100
82	M72B	Z	1.517	1.517	0 %100
83	M73A	X	.876	.876	0 %100
84	M73A	Z	1.517	1.517	0 %100
85	MP4A	X	1.432	1.432	0 %100
86	MP4A	Z	2.48	2.48	0 %100
87	MP3A	X	1.432	1.432	0 %100
88	MP3A	Z	2.48	2.48	0 %100
89	MP2A	X	1.432	1.432	0 %100



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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, %]
90	MP2A	Z	2.48	2.48	0	%100
91	MP1A	X	1.432	1.432	0	%100
92	MP1A	Z	2.48	2.48	0	%100
93	MP4B	X	1.432	1.432	0	%100
94	MP4B	Z	2.48	2.48	0	%100
95	MP3B	X	1.432	1.432	0	%100
96	MP3B	Z	2.48	2.48	0	%100
97	MP2B	X	1.432	1.432	0	%100
98	MP2B	Z	2.48	2.48	0	%100
99	MP1B	X	1.432	1.432	0	%100
100	MP1B	Z	2.48	2.48	0	%100
101	OVP2	X	.942	.942	0	%100
102	OVP2	Z	1.631	1.631	0	%100
103	OVP1	X	.942	.942	0	%100
104	OVP1	Z	1.631	1.631	0	%100
105	MP4C	X	1.432	1.432	0	%100
106	MP4C	Z	2.48	2.48	0	%100
107	MP3C	X	1.432	1.432	0	%100
108	MP3C	Z	2.48	2.48	0	%100
109	MP2C	X	1.432	1.432	0	%100
110	MP2C	Z	2.48	2.48	0	%100
111	MP1C	X	1.432	1.432	0	%100
112	MP1C	Z	2.48	2.48	0	%100
113	M101	X	1.074	1.074	0	%100
114	M101	Z	1.86	1.86	0	%100
115	M108	X	0	0	0	%100
116	M108	Z	0	0	0	%100
117	M115	X	1.074	1.074	0	%100
118	M115	Z	1.86	1.86	0	%100
119	M122	X	0	0	0	%100
120	M122	Z	0	0	0	%100
121	M123	X	1.145	1.145	0	%100
122	M123	Z	1.983	1.983	0	%100
123	M124	X	1.145	1.145	0	%100
124	M124	Z	1.983	1.983	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	M13	X	0	0	0	%100
2	M13	Z	2.549	2.549	0	%100
3	M20	X	0	0	0	%100
4	M20	Z	3.212	3.212	0	%100
5	M32	X	0	0	0	%100
6	M32	Z	.803	.803	0	%100
7	M33A	X	0	0	0	%100
8	M33A	Z	.803	.803	0	%100
9	M41A	X	0	0	0	%100
10	M41A	Z	.664	.664	0	%100
11	M42_1	X	0	0	0	%100
12	M42_1	Z	.664	.664	0	%100
13	M43A_1	X	0	0	0	%100
14	M43A_1	Z	1.039	1.039	0	%100
15	M46A	X	0	0	0	%100
16	M46A	Z	.747	.747	0	%100
17	M47	X	0	0	0	%100
18	M47	Z	2.99	2.99	0	%100



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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, %]
19	M64	X	0	0	0	%100
20	M64	Z	3.076	3.076	0	%100
21	M65	X	0	0	0	%100
22	M65	Z	4.142	4.142	0	%100
23	M71	X	0	0	0	%100
24	M71	Z	4.266	4.266	0	%100
25	M86	X	0	0	0	%100
26	M86	Z	3.076	3.076	0	%100
27	M87	X	0	0	0	%100
28	M87	Z	1.036	1.036	0	%100
29	M90	X	0	0	0	%100
30	M90	Z	1.067	1.067	0	%100
31	M50A	X	0	0	0	%100
32	M50A	Z	2.549	2.549	0	%100
33	M51A	X	0	0	0	%100
34	M51A	Z	.664	.664	0	%100
35	M52	X	0	0	0	%100
36	M52	Z	.664	.664	0	%100
37	M53A	X	0	0	0	%100
38	M53A	Z	1.039	1.039	0	%100
39	M56	X	0	0	0	%100
40	M56	Z	2.989	2.989	0	%100
41	M57	X	0	0	0	%100
42	M57	Z	.747	.747	0	%100
43	M62	X	0	0	0	%100
44	M62	Z	3.076	3.076	0	%100
45	M63	X	0	0	0	%100
46	M63	Z	1.036	1.036	0	%100
47	M65A	X	0	0	0	%100
48	M65A	Z	1.067	1.067	0	%100
49	M67	X	0	0	0	%100
50	M67	Z	3.076	3.076	0	%100
51	M68A	X	0	0	0	%100
52	M68A	Z	4.142	4.142	0	%100
53	M70	X	0	0	0	%100
54	M70	Z	4.266	4.266	0	%100
55	M72A	X	0	0	0	%100
56	M72A	Z	0	0	0	%100
57	M73	X	0	0	0	%100
58	M73	Z	2.656	2.656	0	%100
59	M74	X	0	0	0	%100
60	M74	Z	2.656	2.656	0	%100
61	M75	X	0	0	0	%100
62	M75	Z	4.157	4.157	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	.747	.747	0	%100
65	M79	X	0	0	0	%100
66	M79	Z	.747	.747	0	%100
67	M84	X	0	0	0	%100
68	M84	Z	0	0	0	%100
69	M85	X	0	0	0	%100
70	M85	Z	1.036	1.036	0	%100
71	M87A	X	0	0	0	%100
72	M87A	Z	1.067	1.067	0	%100
73	M89A	X	0	0	0	%100
74	M89A	Z	0	0	0	%100
75	M90A	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, %]
76	M90A	Z	1.036	1.036	0 %100
77	M92	X	0	0	0 %100
78	M92	Z	1.067	1.067	0 %100
79	M71B	X	0	0	0 %100
80	M71B	Z	2.973	2.973	0 %100
81	M72B	X	0	0	0 %100
82	M72B	Z	1.142	1.142	0 %100
83	M73A	X	0	0	0 %100
84	M73A	Z	2.973	2.973	0 %100
85	MP4A	X	0	0	0 %100
86	MP4A	Z	2.864	2.864	0 %100
87	MP3A	X	0	0	0 %100
88	MP3A	Z	2.864	2.864	0 %100
89	MP2A	X	0	0	0 %100
90	MP2A	Z	2.864	2.864	0 %100
91	MP1A	X	0	0	0 %100
92	MP1A	Z	2.864	2.864	0 %100
93	MP4B	X	0	0	0 %100
94	MP4B	Z	2.864	2.864	0 %100
95	MP3B	X	0	0	0 %100
96	MP3B	Z	2.864	2.864	0 %100
97	MP2B	X	0	0	0 %100
98	MP2B	Z	2.864	2.864	0 %100
99	MP1B	X	0	0	0 %100
100	MP1B	Z	2.864	2.864	0 %100
101	OVP2	X	0	0	0 %100
102	OVP2	Z	1.884	1.884	0 %100
103	OVP1	X	0	0	0 %100
104	OVP1	Z	1.884	1.884	0 %100
105	MP4C	X	0	0	0 %100
106	MP4C	Z	2.864	2.864	0 %100
107	MP3C	X	0	0	0 %100
108	MP3C	Z	2.864	2.864	0 %100
109	MP2C	X	0	0	0 %100
110	MP2C	Z	2.864	2.864	0 %100
111	MP1C	X	0	0	0 %100
112	MP1C	Z	2.864	2.864	0 %100
113	M101	X	0	0	0 %100
114	M101	Z	2.864	2.864	0 %100
115	M108	X	0	0	0 %100
116	M108	Z	.716	.716	0 %100
117	M115	X	0	0	0 %100
118	M115	Z	.716	.716	0 %100
119	M122	X	0	0	0 %100
120	M122	Z	.763	.763	0 %100
121	M123	X	0	0	0 %100
122	M123	Z	3.053	3.053	0 %100
123	M124	X	0	0	0 %100
124	M124	Z	.763	.763	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	M13	X	-.425	-.425	0 %100
2	M13	Z	.736	.736	0 %100
3	M20	X	-1.205	-1.205	0 %100
4	M20	Z	2.086	2.086	0 %100



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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, %]
5	M32	X	-1.205	-1.205	0 %100
6	M32	Z	2.086	2.086	0 %100
7	M33A	X	0	0	0 %100
8	M33A	Z	0	0	0 %100
9	M41A	X	-.996	-.996	0 %100
10	M41A	Z	1.725	1.725	0 %100
11	M42 1	X	-.996	-.996	0 %100
12	M42 1	Z	1.725	1.725	0 %100
13	M43A 1	X	-1.559	-1.559	0 %100
14	M43A 1	Z	2.7	2.7	0 %100
15	M46A	X	0	0	0 %100
16	M46A	Z	0	0	0 %100
17	M47	X	-1.121	-1.121	0 %100
18	M47	Z	1.942	1.942	0 %100
19	M64	X	-.513	-.513	0 %100
20	M64	Z	.888	.888	0 %100
21	M65	X	-1.553	-1.553	0 %100
22	M65	Z	2.69	2.69	0 %100
23	M71	X	-1.6	-1.6	0 %100
24	M71	Z	2.771	2.771	0 %100
25	M86	X	-.513	-.513	0 %100
26	M86	Z	.888	.888	0 %100
27	M87	X	0	0	0 %100
28	M87	Z	0	0	0 %100
29	M90	X	0	0	0 %100
30	M90	Z	0	0	0 %100
31	M50A	X	-1.699	-1.699	0 %100
32	M50A	Z	2.943	2.943	0 %100
33	M51A	X	0	0	0 %100
34	M51A	Z	0	0	0 %100
35	M52	X	0	0	0 %100
36	M52	Z	0	0	0 %100
37	M53A	X	0	0	0 %100
38	M53A	Z	0	0	0 %100
39	M56	X	-1.121	-1.121	0 %100
40	M56	Z	1.942	1.942	0 %100
41	M57	X	-1.121	-1.121	0 %100
42	M57	Z	1.942	1.942	0 %100
43	M62	X	-2.05	-2.05	0 %100
44	M62	Z	3.551	3.551	0 %100
45	M63	X	-1.553	-1.553	0 %100
46	M63	Z	2.69	2.69	0 %100
47	M65A	X	-1.6	-1.6	0 %100
48	M65A	Z	2.771	2.771	0 %100
49	M67	X	-2.05	-2.05	0 %100
50	M67	Z	3.551	3.551	0 %100
51	M68A	X	-1.553	-1.553	0 %100
52	M68A	Z	2.69	2.69	0 %100
53	M70	X	-1.6	-1.6	0 %100
54	M70	Z	2.771	2.771	0 %100
55	M72A	X	-.425	-.425	0 %100
56	M72A	Z	.736	.736	0 %100
57	M73	X	-.996	-.996	0 %100
58	M73	Z	1.725	1.725	0 %100
59	M74	X	-.996	-.996	0 %100
60	M74	Z	1.725	1.725	0 %100
61	M75	X	-1.559	-1.559	0 %100



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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, %]
62	M75	Z	2.7	2.7	0 %100
63	M78	X	-1.121	-1.121	0 %100
64	M78	Z	1.942	1.942	0 %100
65	M79	X	0	0	0 %100
66	M79	Z	0	0	0 %100
67	M84	X	-.513	-.513	0 %100
68	M84	Z	.888	.888	0 %100
69	M85	X	0	0	0 %100
70	M85	Z	0	0	0 %100
71	M87A	X	0	0	0 %100
72	M87A	Z	0	0	0 %100
73	M89A	X	-.513	-.513	0 %100
74	M89A	Z	.888	.888	0 %100
75	M90A	X	-1.553	-1.553	0 %100
76	M90A	Z	2.69	2.69	0 %100
77	M92	X	-1.6	-1.6	0 %100
78	M92	Z	2.771	2.771	0 %100
79	M71B	X	-.876	-.876	0 %100
80	M71B	Z	1.517	1.517	0 %100
81	M72B	X	-.876	-.876	0 %100
82	M72B	Z	1.517	1.517	0 %100
83	M73A	X	-1.792	-1.792	0 %100
84	M73A	Z	3.104	3.104	0 %100
85	MP4A	X	-1.432	-1.432	0 %100
86	MP4A	Z	2.48	2.48	0 %100
87	MP3A	X	-1.432	-1.432	0 %100
88	MP3A	Z	2.48	2.48	0 %100
89	MP2A	X	-1.432	-1.432	0 %100
90	MP2A	Z	2.48	2.48	0 %100
91	MP1A	X	-1.432	-1.432	0 %100
92	MP1A	Z	2.48	2.48	0 %100
93	MP4B	X	-1.432	-1.432	0 %100
94	MP4B	Z	2.48	2.48	0 %100
95	MP3B	X	-1.432	-1.432	0 %100
96	MP3B	Z	2.48	2.48	0 %100
97	MP2B	X	-1.432	-1.432	0 %100
98	MP2B	Z	2.48	2.48	0 %100
99	MP1B	X	-1.432	-1.432	0 %100
100	MP1B	Z	2.48	2.48	0 %100
101	OVP2	X	-.942	-.942	0 %100
102	OVP2	Z	1.631	1.631	0 %100
103	OVP1	X	-.942	-.942	0 %100
104	OVP1	Z	1.631	1.631	0 %100
105	MP4C	X	-1.432	-1.432	0 %100
106	MP4C	Z	2.48	2.48	0 %100
107	MP3C	X	-1.432	-1.432	0 %100
108	MP3C	Z	2.48	2.48	0 %100
109	MP2C	X	-1.432	-1.432	0 %100
110	MP2C	Z	2.48	2.48	0 %100
111	MP1C	X	-1.432	-1.432	0 %100
112	MP1C	Z	2.48	2.48	0 %100
113	M101	X	-1.074	-1.074	0 %100
114	M101	Z	1.86	1.86	0 %100
115	M108	X	-1.074	-1.074	0 %100
116	M108	Z	1.86	1.86	0 %100
117	M115	X	0	0	0 %100
118	M115	Z	0	0	0 %100



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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, %]
119	M122	X	-1.145	-1.145	0	%100
120	M122	Z	1.983	1.983	0	%100
121	M123	X	-1.145	-1.145	0	%100
122	M123	Z	1.983	1.983	0	%100
123	M124	X	0	0	0	%100
124	M124	Z	0	0	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	M13	X	0	0	0	%100
2	M13	Z	0	0	0	%100
3	M20	X	-.695	-.695	0	%100
4	M20	Z	.402	.402	0	%100
5	M32	X	-2.782	-2.782	0	%100
6	M32	Z	1.606	1.606	0	%100
7	M33A	X	-.695	-.695	0	%100
8	M33A	Z	.402	.402	0	%100
9	M41A	X	-2.3	-2.3	0	%100
10	M41A	Z	1.328	1.328	0	%100
11	M42 1	X	-2.3	-2.3	0	%100
12	M42 1	Z	1.328	1.328	0	%100
13	M43A 1	X	-3.6	-3.6	0	%100
14	M43A 1	Z	2.079	2.079	0	%100
15	M46A	X	-.647	-.647	0	%100
16	M46A	Z	.374	.374	0	%100
17	M47	X	-.647	-.647	0	%100
18	M47	Z	.374	.374	0	%100
19	M64	X	0	0	0	%100
20	M64	Z	0	0	0	%100
21	M65	X	-.897	-.897	0	%100
22	M65	Z	.518	.518	0	%100
23	M71	X	-.924	-.924	0	%100
24	M71	Z	.533	.533	0	%100
25	M86	X	0	0	0	%100
26	M86	Z	0	0	0	%100
27	M87	X	-.897	-.897	0	%100
28	M87	Z	.518	.518	0	%100
29	M90	X	-.924	-.924	0	%100
30	M90	Z	.533	.533	0	%100
31	M50A	X	-2.208	-2.208	0	%100
32	M50A	Z	1.275	1.275	0	%100
33	M51A	X	-.575	-.575	0	%100
34	M51A	Z	.332	.332	0	%100
35	M52	X	-.575	-.575	0	%100
36	M52	Z	.332	.332	0	%100
37	M53A	X	-.9	-.9	0	%100
38	M53A	Z	.52	.52	0	%100
39	M56	X	-.647	-.647	0	%100
40	M56	Z	.374	.374	0	%100
41	M57	X	-2.589	-2.589	0	%100
42	M57	Z	1.495	1.495	0	%100
43	M62	X	-2.664	-2.664	0	%100
44	M62	Z	1.538	1.538	0	%100
45	M63	X	-3.587	-3.587	0	%100
46	M63	Z	2.071	2.071	0	%100
47	M65A	X	-3.695	-3.695	0	%100



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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,%]
48	M65A	Z	2.133	2.133	0 %100
49	M67	X	-2.664	-2.664	0 %100
50	M67	Z	1.538	1.538	0 %100
51	M68A	X	-.897	-.897	0 %100
52	M68A	Z	.518	.518	0 %100
53	M70	X	-.924	-.924	0 %100
54	M70	Z	.533	.533	0 %100
55	M72A	X	-2.208	-2.208	0 %100
56	M72A	Z	1.275	1.275	0 %100
57	M73	X	-.575	-.575	0 %100
58	M73	Z	.332	.332	0 %100
59	M74	X	-.575	-.575	0 %100
60	M74	Z	.332	.332	0 %100
61	M75	X	-.9	-.9	0 %100
62	M75	Z	.52	.52	0 %100
63	M78	X	-2.589	-2.589	0 %100
64	M78	Z	1.495	1.495	0 %100
65	M79	X	-.647	-.647	0 %100
66	M79	Z	.374	.374	0 %100
67	M84	X	-2.664	-2.664	0 %100
68	M84	Z	1.538	1.538	0 %100
69	M85	X	-.897	-.897	0 %100
70	M85	Z	.518	.518	0 %100
71	M87A	X	-.924	-.924	0 %100
72	M87A	Z	.533	.533	0 %100
73	M89A	X	-2.664	-2.664	0 %100
74	M89A	Z	1.538	1.538	0 %100
75	M90A	X	-3.587	-3.587	0 %100
76	M90A	Z	2.071	2.071	0 %100
77	M92	X	-3.695	-3.695	0 %100
78	M92	Z	2.133	2.133	0 %100
79	M71B	X	-.989	-.989	0 %100
80	M71B	Z	.571	.571	0 %100
81	M72B	X	-2.575	-2.575	0 %100
82	M72B	Z	1.487	1.487	0 %100
83	M73A	X	-2.575	-2.575	0 %100
84	M73A	Z	1.487	1.487	0 %100
85	MP4A	X	-2.48	-2.48	0 %100
86	MP4A	Z	1.432	1.432	0 %100
87	MP3A	X	-2.48	-2.48	0 %100
88	MP3A	Z	1.432	1.432	0 %100
89	MP2A	X	-2.48	-2.48	0 %100
90	MP2A	Z	1.432	1.432	0 %100
91	MP1A	X	-2.48	-2.48	0 %100
92	MP1A	Z	1.432	1.432	0 %100
93	MP4B	X	-2.48	-2.48	0 %100
94	MP4B	Z	1.432	1.432	0 %100
95	MP3B	X	-2.48	-2.48	0 %100
96	MP3B	Z	1.432	1.432	0 %100
97	MP2B	X	-2.48	-2.48	0 %100
98	MP2B	Z	1.432	1.432	0 %100
99	MP1B	X	-2.48	-2.48	0 %100
100	MP1B	Z	1.432	1.432	0 %100
101	OVP2	X	-1.631	-1.631	0 %100
102	OVP2	Z	.942	.942	0 %100
103	OVP1	X	-1.631	-1.631	0 %100
104	OVP1	Z	.942	.942	0 %100



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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, %]
105	MP4C	X	-2.48	-2.48	0	%100
106	MP4C	Z	1.432	1.432	0	%100
107	MP3C	X	-2.48	-2.48	0	%100
108	MP3C	Z	1.432	1.432	0	%100
109	MP2C	X	-2.48	-2.48	0	%100
110	MP2C	Z	1.432	1.432	0	%100
111	MP1C	X	-2.48	-2.48	0	%100
112	MP1C	Z	1.432	1.432	0	%100
113	M101	X	-.62	-.62	0	%100
114	M101	Z	.358	.358	0	%100
115	M108	X	-2.48	-2.48	0	%100
116	M108	Z	1.432	1.432	0	%100
117	M115	X	-.62	-.62	0	%100
118	M115	Z	.358	.358	0	%100
119	M122	X	-2.644	-2.644	0	%100
120	M122	Z	1.526	1.526	0	%100
121	M123	X	-.661	-.661	0	%100
122	M123	Z	.382	.382	0	%100
123	M124	X	-.661	-.661	0	%100
124	M124	Z	.382	.382	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	M13	X	-.85	-.85	0	%100
2	M13	Z	0	0	0	%100
3	M20	X	0	0	0	%100
4	M20	Z	0	0	0	%100
5	M32	X	-2.409	-2.409	0	%100
6	M32	Z	0	0	0	%100
7	M33A	X	-2.409	-2.409	0	%100
8	M33A	Z	0	0	0	%100
9	M41A	X	-1.992	-1.992	0	%100
10	M41A	Z	0	0	0	%100
11	M42_1	X	-1.992	-1.992	0	%100
12	M42_1	Z	0	0	0	%100
13	M43A_1	X	-3.118	-3.118	0	%100
14	M43A_1	Z	0	0	0	%100
15	M46A	X	-2.242	-2.242	0	%100
16	M46A	Z	0	0	0	%100
17	M47	X	0	0	0	%100
18	M47	Z	0	0	0	%100
19	M64	X	-1.025	-1.025	0	%100
20	M64	Z	0	0	0	%100
21	M65	X	0	0	0	%100
22	M65	Z	0	0	0	%100
23	M71	X	0	0	0	%100
24	M71	Z	0	0	0	%100
25	M86	X	-1.025	-1.025	0	%100
26	M86	Z	0	0	0	%100
27	M87	X	-3.107	-3.107	0	%100
28	M87	Z	0	0	0	%100
29	M90	X	-3.2	-3.2	0	%100
30	M90	Z	0	0	0	%100
31	M50A	X	-.85	-.85	0	%100
32	M50A	Z	0	0	0	%100
33	M51A	X	-1.992	-1.992	0	%100



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 Model Name : 470974-VZW

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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,%]	
34	M51A	Z	0	0	0	%100
35	M52	X	-1.992	-1.992	0	%100
36	M52	Z	0	0	0	%100
37	M53A	X	-3.118	-3.118	0	%100
38	M53A	Z	0	0	0	%100
39	M56	X	0	0	0	%100
40	M56	Z	0	0	0	%100
41	M57	X	-2.242	-2.242	0	%100
42	M57	Z	0	0	0	%100
43	M62	X	-1.025	-1.025	0	%100
44	M62	Z	0	0	0	%100
45	M63	X	-3.107	-3.107	0	%100
46	M63	Z	0	0	0	%100
47	M65A	X	-3.2	-3.2	0	%100
48	M65A	Z	0	0	0	%100
49	M67	X	-1.025	-1.025	0	%100
50	M67	Z	0	0	0	%100
51	M68A	X	0	0	0	%100
52	M68A	Z	0	0	0	%100
53	M70	X	0	0	0	%100
54	M70	Z	0	0	0	%100
55	M72A	X	-3.399	-3.399	0	%100
56	M72A	Z	0	0	0	%100
57	M73	X	0	0	0	%100
58	M73	Z	0	0	0	%100
59	M74	X	0	0	0	%100
60	M74	Z	0	0	0	%100
61	M75	X	0	0	0	%100
62	M75	Z	0	0	0	%100
63	M78	X	-2.242	-2.242	0	%100
64	M78	Z	0	0	0	%100
65	M79	X	-2.242	-2.242	0	%100
66	M79	Z	0	0	0	%100
67	M84	X	-4.101	-4.101	0	%100
68	M84	Z	0	0	0	%100
69	M85	X	-3.107	-3.107	0	%100
70	M85	Z	0	0	0	%100
71	M87A	X	-3.2	-3.2	0	%100
72	M87A	Z	0	0	0	%100
73	M89A	X	-4.101	-4.101	0	%100
74	M89A	Z	0	0	0	%100
75	M90A	X	-3.107	-3.107	0	%100
76	M90A	Z	0	0	0	%100
77	M92	X	-3.2	-3.2	0	%100
78	M92	Z	0	0	0	%100
79	M71B	X	-1.752	-1.752	0	%100
80	M71B	Z	0	0	0	%100
81	M72B	X	-3.584	-3.584	0	%100
82	M72B	Z	0	0	0	%100
83	M73A	X	-1.752	-1.752	0	%100
84	M73A	Z	0	0	0	%100
85	MP4A	X	-2.864	-2.864	0	%100
86	MP4A	Z	0	0	0	%100
87	MP3A	X	-2.864	-2.864	0	%100
88	MP3A	Z	0	0	0	%100
89	MP2A	X	-2.864	-2.864	0	%100
90	MP2A	Z	0	0	0	%100



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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, %]
91	MP1A	X	-2.864	-2.864	0	%100
92	MP1A	Z	0	0	0	%100
93	MP4B	X	-2.864	-2.864	0	%100
94	MP4B	Z	0	0	0	%100
95	MP3B	X	-2.864	-2.864	0	%100
96	MP3B	Z	0	0	0	%100
97	MP2B	X	-2.864	-2.864	0	%100
98	MP2B	Z	0	0	0	%100
99	MP1B	X	-2.864	-2.864	0	%100
100	MP1B	Z	0	0	0	%100
101	OVP2	X	-1.884	-1.884	0	%100
102	OVP2	Z	0	0	0	%100
103	OVP1	X	-1.884	-1.884	0	%100
104	OVP1	Z	0	0	0	%100
105	MP4C	X	-2.864	-2.864	0	%100
106	MP4C	Z	0	0	0	%100
107	MP3C	X	-2.864	-2.864	0	%100
108	MP3C	Z	0	0	0	%100
109	MP2C	X	-2.864	-2.864	0	%100
110	MP2C	Z	0	0	0	%100
111	MP1C	X	-2.864	-2.864	0	%100
112	MP1C	Z	0	0	0	%100
113	M101	X	0	0	0	%100
114	M101	Z	0	0	0	%100
115	M108	X	-2.148	-2.148	0	%100
116	M108	Z	0	0	0	%100
117	M115	X	-2.148	-2.148	0	%100
118	M115	Z	0	0	0	%100
119	M122	X	-2.29	-2.29	0	%100
120	M122	Z	0	0	0	%100
121	M123	X	0	0	0	%100
122	M123	Z	0	0	0	%100
123	M124	X	-2.29	-2.29	0	%100
124	M124	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	M13	X	-2.208	-2.208	0	%100
2	M13	Z	-1.275	-1.275	0	%100
3	M20	X	-.695	-.695	0	%100
4	M20	Z	-.402	-.402	0	%100
5	M32	X	-.695	-.695	0	%100
6	M32	Z	-.402	-.402	0	%100
7	M33A	X	-2.782	-2.782	0	%100
8	M33A	Z	-1.606	-1.606	0	%100
9	M41A	X	-.575	-.575	0	%100
10	M41A	Z	-.332	-.332	0	%100
11	M42_1	X	-.575	-.575	0	%100
12	M42_1	Z	-.332	-.332	0	%100
13	M43A_1	X	-.9	-.9	0	%100
14	M43A_1	Z	-.52	-.52	0	%100
15	M46A	X	-2.589	-2.589	0	%100
16	M46A	Z	-1.495	-1.495	0	%100
17	M47	X	-.647	-.647	0	%100
18	M47	Z	-.374	-.374	0	%100
19	M64	X	-2.664	-2.664	0	%100



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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,%]
20	M64	Z	-1.538	-1.538	0 %100
21	M65	X	-.897	-.897	0 %100
22	M65	Z	-.518	-.518	0 %100
23	M71	X	-.924	-.924	0 %100
24	M71	Z	-.533	-.533	0 %100
25	M86	X	-2.664	-2.664	0 %100
26	M86	Z	-1.538	-1.538	0 %100
27	M87	X	-3.587	-3.587	0 %100
28	M87	Z	-2.071	-2.071	0 %100
29	M90	X	-3.695	-3.695	0 %100
30	M90	Z	-2.133	-2.133	0 %100
31	M50A	X	0	0	0 %100
32	M50A	Z	0	0	0 %100
33	M51A	X	-2.3	-2.3	0 %100
34	M51A	Z	-1.328	-1.328	0 %100
35	M52	X	-2.3	-2.3	0 %100
36	M52	Z	-1.328	-1.328	0 %100
37	M53A	X	-3.6	-3.6	0 %100
38	M53A	Z	-2.079	-2.079	0 %100
39	M56	X	-.647	-.647	0 %100
40	M56	Z	-.374	-.374	0 %100
41	M57	X	-.647	-.647	0 %100
42	M57	Z	-.374	-.374	0 %100
43	M62	X	0	0	0 %100
44	M62	Z	0	0	0 %100
45	M63	X	-.897	-.897	0 %100
46	M63	Z	-.518	-.518	0 %100
47	M65A	X	-.924	-.924	0 %100
48	M65A	Z	-.533	-.533	0 %100
49	M67	X	0	0	0 %100
50	M67	Z	0	0	0 %100
51	M68A	X	-.897	-.897	0 %100
52	M68A	Z	-.518	-.518	0 %100
53	M70	X	-.924	-.924	0 %100
54	M70	Z	-.533	-.533	0 %100
55	M72A	X	-2.208	-2.208	0 %100
56	M72A	Z	-1.275	-1.275	0 %100
57	M73	X	-.575	-.575	0 %100
58	M73	Z	-.332	-.332	0 %100
59	M74	X	-.575	-.575	0 %100
60	M74	Z	-.332	-.332	0 %100
61	M75	X	-.9	-.9	0 %100
62	M75	Z	-.52	-.52	0 %100
63	M78	X	-.647	-.647	0 %100
64	M78	Z	-.374	-.374	0 %100
65	M79	X	-2.589	-2.589	0 %100
66	M79	Z	-1.495	-1.495	0 %100
67	M84	X	-2.664	-2.664	0 %100
68	M84	Z	-1.538	-1.538	0 %100
69	M85	X	-3.587	-3.587	0 %100
70	M85	Z	-2.071	-2.071	0 %100
71	M87A	X	-3.695	-3.695	0 %100
72	M87A	Z	-2.133	-2.133	0 %100
73	M89A	X	-2.664	-2.664	0 %100
74	M89A	Z	-1.538	-1.538	0 %100
75	M90A	X	-.897	-.897	0 %100
76	M90A	Z	-.518	-.518	0 %100



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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, %]
77	M92	X	- .924	- .924	0	%100
78	M92	Z	- .533	- .533	0	%100
79	M71B	X	-2.575	-2.575	0	%100
80	M71B	Z	-1.487	-1.487	0	%100
81	M72B	X	-2.575	-2.575	0	%100
82	M72B	Z	-1.487	-1.487	0	%100
83	M73A	X	- .989	- .989	0	%100
84	M73A	Z	- .571	- .571	0	%100
85	MP4A	X	-2.48	-2.48	0	%100
86	MP4A	Z	-1.432	-1.432	0	%100
87	MP3A	X	-2.48	-2.48	0	%100
88	MP3A	Z	-1.432	-1.432	0	%100
89	MP2A	X	-2.48	-2.48	0	%100
90	MP2A	Z	-1.432	-1.432	0	%100
91	MP1A	X	-2.48	-2.48	0	%100
92	MP1A	Z	-1.432	-1.432	0	%100
93	MP4B	X	-2.48	-2.48	0	%100
94	MP4B	Z	-1.432	-1.432	0	%100
95	MP3B	X	-2.48	-2.48	0	%100
96	MP3B	Z	-1.432	-1.432	0	%100
97	MP2B	X	-2.48	-2.48	0	%100
98	MP2B	Z	-1.432	-1.432	0	%100
99	MP1B	X	-2.48	-2.48	0	%100
100	MP1B	Z	-1.432	-1.432	0	%100
101	OVP2	X	-1.631	-1.631	0	%100
102	OVP2	Z	- .942	- .942	0	%100
103	OVP1	X	-1.631	-1.631	0	%100
104	OVP1	Z	- .942	- .942	0	%100
105	MP4C	X	-2.48	-2.48	0	%100
106	MP4C	Z	-1.432	-1.432	0	%100
107	MP3C	X	-2.48	-2.48	0	%100
108	MP3C	Z	-1.432	-1.432	0	%100
109	MP2C	X	-2.48	-2.48	0	%100
110	MP2C	Z	-1.432	-1.432	0	%100
111	MP1C	X	-2.48	-2.48	0	%100
112	MP1C	Z	-1.432	-1.432	0	%100
113	M101	X	- .62	- .62	0	%100
114	M101	Z	- .358	- .358	0	%100
115	M108	X	- .62	- .62	0	%100
116	M108	Z	- .358	- .358	0	%100
117	M115	X	-2.48	-2.48	0	%100
118	M115	Z	-1.432	-1.432	0	%100
119	M122	X	- .661	- .661	0	%100
120	M122	Z	- .382	- .382	0	%100
121	M123	X	- .661	- .661	0	%100
122	M123	Z	- .382	- .382	0	%100
123	M124	X	-2.644	-2.644	0	%100
124	M124	Z	-1.526	-1.526	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	M13	X	-1.699	-1.699	0	%100
2	M13	Z	-2.943	-2.943	0	%100
3	M20	X	-1.205	-1.205	0	%100
4	M20	Z	-2.086	-2.086	0	%100
5	M32	X	0	0	0	%100



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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,%]	
6	M32	Z	0	0	0	%100
7	M33A	X	-1.205	-1.205	0	%100
8	M33A	Z	-2.086	-2.086	0	%100
9	M41A	X	0	0	0	%100
10	M41A	Z	0	0	0	%100
11	M42 1	X	0	0	0	%100
12	M42 1	Z	0	0	0	%100
13	M43A 1	X	0	0	0	%100
14	M43A 1	Z	0	0	0	%100
15	M46A	X	-1.121	-1.121	0	%100
16	M46A	Z	-1.942	-1.942	0	%100
17	M47	X	-1.121	-1.121	0	%100
18	M47	Z	-1.942	-1.942	0	%100
19	M64	X	-2.05	-2.05	0	%100
20	M64	Z	-3.551	-3.551	0	%100
21	M65	X	-1.553	-1.553	0	%100
22	M65	Z	-2.69	-2.69	0	%100
23	M71	X	-1.6	-1.6	0	%100
24	M71	Z	-2.771	-2.771	0	%100
25	M86	X	-2.05	-2.05	0	%100
26	M86	Z	-3.551	-3.551	0	%100
27	M87	X	-1.553	-1.553	0	%100
28	M87	Z	-2.69	-2.69	0	%100
29	M90	X	-1.6	-1.6	0	%100
30	M90	Z	-2.771	-2.771	0	%100
31	M50A	X	-.425	-.425	0	%100
32	M50A	Z	-.736	-.736	0	%100
33	M51A	X	-.996	-.996	0	%100
34	M51A	Z	-1.725	-1.725	0	%100
35	M52	X	-.996	-.996	0	%100
36	M52	Z	-1.725	-1.725	0	%100
37	M53A	X	-1.559	-1.559	0	%100
38	M53A	Z	-2.7	-2.7	0	%100
39	M56	X	-1.121	-1.121	0	%100
40	M56	Z	-1.942	-1.942	0	%100
41	M57	X	0	0	0	%100
42	M57	Z	0	0	0	%100
43	M62	X	-.513	-.513	0	%100
44	M62	Z	-.888	-.888	0	%100
45	M63	X	0	0	0	%100
46	M63	Z	0	0	0	%100
47	M65A	X	0	0	0	%100
48	M65A	Z	0	0	0	%100
49	M67	X	-.513	-.513	0	%100
50	M67	Z	-.888	-.888	0	%100
51	M68A	X	-1.553	-1.553	0	%100
52	M68A	Z	-2.69	-2.69	0	%100
53	M70	X	-1.6	-1.6	0	%100
54	M70	Z	-2.771	-2.771	0	%100
55	M72A	X	-.425	-.425	0	%100
56	M72A	Z	-.736	-.736	0	%100
57	M73	X	-.996	-.996	0	%100
58	M73	Z	-1.725	-1.725	0	%100
59	M74	X	-.996	-.996	0	%100
60	M74	Z	-1.725	-1.725	0	%100
61	M75	X	-1.559	-1.559	0	%100
62	M75	Z	-2.7	-2.7	0	%100



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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.%]
120	M122	Z	0	0	0	%100
121	M123	X	-1.145	-1.145	0	%100
122	M123	Z	-1.983	-1.983	0	%100
123	M124	X	-1.145	-1.145	0	%100
124	M124	Z	-1.983	-1.983	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	M13	X	0	0	0	%100
2	M13	Z	-.577	-.577	0	%100
3	M20	X	0	0	0	%100
4	M20	Z	-.702	-.702	0	%100
5	M32	X	0	0	0	%100
6	M32	Z	-.176	-.176	0	%100
7	M33A	X	0	0	0	%100
8	M33A	Z	-.176	-.176	0	%100
9	M41A	X	0	0	0	%100
10	M41A	Z	-.151	-.151	0	%100
11	M42_1	X	0	0	0	%100
12	M42_1	Z	-.151	-.151	0	%100
13	M43A_1	X	0	0	0	%100
14	M43A_1	Z	-.301	-.301	0	%100
15	M46A	X	0	0	0	%100
16	M46A	Z	-.164	-.164	0	%100
17	M47	X	0	0	0	%100
18	M47	Z	-.656	-.656	0	%100
19	M64	X	0	0	0	%100
20	M64	Z	-.909	-.909	0	%100
21	M65	X	0	0	0	%100
22	M65	Z	-1.226	-1.226	0	%100
23	M71	X	0	0	0	%100
24	M71	Z	-1.271	-1.271	0	%100
25	M86	X	0	0	0	%100
26	M86	Z	-.909	-.909	0	%100
27	M87	X	0	0	0	%100
28	M87	Z	-.307	-.307	0	%100
29	M90	X	0	0	0	%100
30	M90	Z	-.318	-.318	0	%100
31	M50A	X	0	0	0	%100
32	M50A	Z	-.577	-.577	0	%100
33	M51A	X	0	0	0	%100
34	M51A	Z	-.151	-.151	0	%100
35	M52	X	0	0	0	%100
36	M52	Z	-.151	-.151	0	%100
37	M53A	X	0	0	0	%100
38	M53A	Z	-.301	-.301	0	%100
39	M56	X	0	0	0	%100
40	M56	Z	-.655	-.655	0	%100
41	M57	X	0	0	0	%100
42	M57	Z	-.164	-.164	0	%100
43	M62	X	0	0	0	%100
44	M62	Z	-.909	-.909	0	%100
45	M63	X	0	0	0	%100
46	M63	Z	-.307	-.307	0	%100
47	M65A	X	0	0	0	%100
48	M65A	Z	-.318	-.318	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,%]	
49	M67	X	0	0	0	%100
50	M67	Z	-0.909	-0.909	0	%100
51	M68A	X	0	0	0	%100
52	M68A	Z	-1.226	-1.226	0	%100
53	M70	X	0	0	0	%100
54	M70	Z	-1.271	-1.271	0	%100
55	M72A	X	0	0	0	%100
56	M72A	Z	0	0	0	%100
57	M73	X	0	0	0	%100
58	M73	Z	-0.605	-0.605	0	%100
59	M74	X	0	0	0	%100
60	M74	Z	-0.605	-0.605	0	%100
61	M75	X	0	0	0	%100
62	M75	Z	-1.204	-1.204	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	-0.164	-0.164	0	%100
65	M79	X	0	0	0	%100
66	M79	Z	-0.164	-0.164	0	%100
67	M84	X	0	0	0	%100
68	M84	Z	0	0	0	%100
69	M85	X	0	0	0	%100
70	M85	Z	-0.307	-0.307	0	%100
71	M87A	X	0	0	0	%100
72	M87A	Z	-0.318	-0.318	0	%100
73	M89A	X	0	0	0	%100
74	M89A	Z	0	0	0	%100
75	M90A	X	0	0	0	%100
76	M90A	Z	-0.307	-0.307	0	%100
77	M92	X	0	0	0	%100
78	M92	Z	-0.318	-0.318	0	%100
79	M71B	X	0	0	0	%100
80	M71B	Z	-0.705	-0.705	0	%100
81	M72B	X	0	0	0	%100
82	M72B	Z	-0.31	-0.31	0	%100
83	M73A	X	0	0	0	%100
84	M73A	Z	-0.705	-0.705	0	%100
85	MP4A	X	0	0	0	%100
86	MP4A	Z	-0.577	-0.577	0	%100
87	MP3A	X	0	0	0	%100
88	MP3A	Z	-0.577	-0.577	0	%100
89	MP2A	X	0	0	0	%100
90	MP2A	Z	-0.577	-0.577	0	%100
91	MP1A	X	0	0	0	%100
92	MP1A	Z	-0.577	-0.577	0	%100
93	MP4B	X	0	0	0	%100
94	MP4B	Z	-0.577	-0.577	0	%100
95	MP3B	X	0	0	0	%100
96	MP3B	Z	-0.577	-0.577	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	-0.577	-0.577	0	%100
99	MP1B	X	0	0	0	%100
100	MP1B	Z	-0.577	-0.577	0	%100
101	OVP2	X	0	0	0	%100
102	OVP2	Z	-0.345	-0.345	0	%100
103	OVP1	X	0	0	0	%100
104	OVP1	Z	-0.345	-0.345	0	%100
105	MP4C	X	0	0	0	%100



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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, %]
106	MP4C	Z	-.577	-.577	0	%100
107	MP3C	X	0	0	0	%100
108	MP3C	Z	-.577	-.577	0	%100
109	MP2C	X	0	0	0	%100
110	MP2C	Z	-.577	-.577	0	%100
111	MP1C	X	0	0	0	%100
112	MP1C	Z	-.577	-.577	0	%100
113	M101	X	0	0	0	%100
114	M101	Z	-.577	-.577	0	%100
115	M108	X	0	0	0	%100
116	M108	Z	-.144	-.144	0	%100
117	M115	X	0	0	0	%100
118	M115	Z	-.144	-.144	0	%100
119	M122	X	0	0	0	%100
120	M122	Z	-.187	-.187	0	%100
121	M123	X	0	0	0	%100
122	M123	Z	-.747	-.747	0	%100
123	M124	X	0	0	0	%100
124	M124	Z	-.187	-.187	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	M13	X	.096	.096	0	%100
2	M13	Z	-.167	-.167	0	%100
3	M20	X	.263	.263	0	%100
4	M20	Z	-.456	-.456	0	%100
5	M32	X	.263	.263	0	%100
6	M32	Z	-.456	-.456	0	%100
7	M33A	X	0	0	0	%100
8	M33A	Z	0	0	0	%100
9	M41A	X	.227	.227	0	%100
10	M41A	Z	-.393	-.393	0	%100
11	M42_1	X	.227	.227	0	%100
12	M42_1	Z	-.393	-.393	0	%100
13	M43A_1	X	.452	.452	0	%100
14	M43A_1	Z	-.782	-.782	0	%100
15	M46A	X	0	0	0	%100
16	M46A	Z	0	0	0	%100
17	M47	X	.246	.246	0	%100
18	M47	Z	-.426	-.426	0	%100
19	M64	X	.151	.151	0	%100
20	M64	Z	-.262	-.262	0	%100
21	M65	X	.46	.46	0	%100
22	M65	Z	-.797	-.797	0	%100
23	M71	X	.477	.477	0	%100
24	M71	Z	-.825	-.825	0	%100
25	M86	X	.151	.151	0	%100
26	M86	Z	-.262	-.262	0	%100
27	M87	X	0	0	0	%100
28	M87	Z	0	0	0	%100
29	M90	X	0	0	0	%100
30	M90	Z	0	0	0	%100
31	M50A	X	.385	.385	0	%100
32	M50A	Z	-.666	-.666	0	%100
33	M51A	X	0	0	0	%100
34	M51A	Z	0	0	0	%100



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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, %]	
35	M52	X	0	0	0	%100
36	M52	Z	0	0	0	%100
37	M53A	X	0	0	0	%100
38	M53A	Z	0	0	0	%100
39	M56	X	.246	.246	0	%100
40	M56	Z	-.426	-.426	0	%100
41	M57	X	.246	.246	0	%100
42	M57	Z	-.426	-.426	0	%100
43	M62	X	.606	.606	0	%100
44	M62	Z	-1.049	-1.049	0	%100
45	M63	X	.46	.46	0	%100
46	M63	Z	-.797	-.797	0	%100
47	M65A	X	.477	.477	0	%100
48	M65A	Z	-.825	-.825	0	%100
49	M67	X	.606	.606	0	%100
50	M67	Z	-1.049	-1.049	0	%100
51	M68A	X	.46	.46	0	%100
52	M68A	Z	-.797	-.797	0	%100
53	M70	X	.477	.477	0	%100
54	M70	Z	-.825	-.825	0	%100
55	M72A	X	.096	.096	0	%100
56	M72A	Z	-.167	-.167	0	%100
57	M73	X	.227	.227	0	%100
58	M73	Z	-.393	-.393	0	%100
59	M74	X	.227	.227	0	%100
60	M74	Z	-.393	-.393	0	%100
61	M75	X	.452	.452	0	%100
62	M75	Z	-.782	-.782	0	%100
63	M78	X	.246	.246	0	%100
64	M78	Z	-.426	-.426	0	%100
65	M79	X	0	0	0	%100
66	M79	Z	0	0	0	%100
67	M84	X	.151	.151	0	%100
68	M84	Z	-.262	-.262	0	%100
69	M85	X	0	0	0	%100
70	M85	Z	0	0	0	%100
71	M87A	X	0	0	0	%100
72	M87A	Z	0	0	0	%100
73	M89A	X	.151	.151	0	%100
74	M89A	Z	-.262	-.262	0	%100
75	M90A	X	.46	.46	0	%100
76	M90A	Z	-.797	-.797	0	%100
77	M92	X	.477	.477	0	%100
78	M92	Z	-.825	-.825	0	%100
79	M71B	X	.221	.221	0	%100
80	M71B	Z	-.383	-.383	0	%100
81	M72B	X	.221	.221	0	%100
82	M72B	Z	-.383	-.383	0	%100
83	M73A	X	.418	.418	0	%100
84	M73A	Z	-.724	-.724	0	%100
85	MP4A	X	.288	.288	0	%100
86	MP4A	Z	-.5	-.5	0	%100
87	MP3A	X	.288	.288	0	%100
88	MP3A	Z	-.5	-.5	0	%100
89	MP2A	X	.288	.288	0	%100
90	MP2A	Z	-.5	-.5	0	%100
91	MP1A	X	.288	.288	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, %]
92	MP1A	Z	-.5	-.5	0	%100
93	MP4B	X	.288	.288	0	%100
94	MP4B	Z	-.5	-.5	0	%100
95	MP3B	X	.288	.288	0	%100
96	MP3B	Z	-.5	-.5	0	%100
97	MP2B	X	.288	.288	0	%100
98	MP2B	Z	-.5	-.5	0	%100
99	MP1B	X	.288	.288	0	%100
100	MP1B	Z	-.5	-.5	0	%100
101	OVP2	X	.173	.173	0	%100
102	OVP2	Z	-.299	-.299	0	%100
103	OVP1	X	.173	.173	0	%100
104	OVP1	Z	-.299	-.299	0	%100
105	MP4C	X	.288	.288	0	%100
106	MP4C	Z	-.5	-.5	0	%100
107	MP3C	X	.288	.288	0	%100
108	MP3C	Z	-.5	-.5	0	%100
109	MP2C	X	.288	.288	0	%100
110	MP2C	Z	-.5	-.5	0	%100
111	MP1C	X	.288	.288	0	%100
112	MP1C	Z	-.5	-.5	0	%100
113	M101	X	.216	.216	0	%100
114	M101	Z	-.375	-.375	0	%100
115	M108	X	.216	.216	0	%100
116	M108	Z	-.375	-.375	0	%100
117	M115	X	0	0	0	%100
118	M115	Z	0	0	0	%100
119	M122	X	.28	.28	0	%100
120	M122	Z	-.485	-.485	0	%100
121	M123	X	.28	.28	0	%100
122	M123	Z	-.485	-.485	0	%100
123	M124	X	0	0	0	%100
124	M124	Z	0	0	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	M13	X	0	0	0	%100
2	M13	Z	0	0	0	%100
3	M20	X	.152	.152	0	%100
4	M20	Z	-.088	-.088	0	%100
5	M32	X	.608	.608	0	%100
6	M32	Z	-.351	-.351	0	%100
7	M33A	X	.152	.152	0	%100
8	M33A	Z	-.088	-.088	0	%100
9	M41A	X	.524	.524	0	%100
10	M41A	Z	-.302	-.302	0	%100
11	M42_1	X	.524	.524	0	%100
12	M42_1	Z	-.302	-.302	0	%100
13	M43A_1	X	1.043	1.043	0	%100
14	M43A_1	Z	-.602	-.602	0	%100
15	M46A	X	.142	.142	0	%100
16	M46A	Z	-.082	-.082	0	%100
17	M47	X	.142	.142	0	%100
18	M47	Z	-.082	-.082	0	%100
19	M64	X	0	0	0	%100
20	M64	Z	0	0	0	%100



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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, %]
21	M65	X	.266	.266	0 %100
22	M65	Z	-.153	-.153	0 %100
23	M71	X	.275	.275	0 %100
24	M71	Z	-.159	-.159	0 %100
25	M86	X	0	0	0 %100
26	M86	Z	0	0	0 %100
27	M87	X	.266	.266	0 %100
28	M87	Z	-.153	-.153	0 %100
29	M90	X	.275	.275	0 %100
30	M90	Z	-.159	-.159	0 %100
31	M50A	X	.5	.5	0 %100
32	M50A	Z	-.289	-.289	0 %100
33	M51A	X	.131	.131	0 %100
34	M51A	Z	-.076	-.076	0 %100
35	M52	X	.131	.131	0 %100
36	M52	Z	-.076	-.076	0 %100
37	M53A	X	.261	.261	0 %100
38	M53A	Z	-.15	-.15	0 %100
39	M56	X	.142	.142	0 %100
40	M56	Z	-.082	-.082	0 %100
41	M57	X	.568	.568	0 %100
42	M57	Z	-.328	-.328	0 %100
43	M62	X	.787	.787	0 %100
44	M62	Z	-.454	-.454	0 %100
45	M63	X	1.062	1.062	0 %100
46	M63	Z	-.613	-.613	0 %100
47	M65A	X	1.101	1.101	0 %100
48	M65A	Z	-.635	-.635	0 %100
49	M67	X	.787	.787	0 %100
50	M67	Z	-.454	-.454	0 %100
51	M68A	X	.266	.266	0 %100
52	M68A	Z	-.153	-.153	0 %100
53	M70	X	.275	.275	0 %100
54	M70	Z	-.159	-.159	0 %100
55	M72A	X	.5	.5	0 %100
56	M72A	Z	-.289	-.289	0 %100
57	M73	X	.131	.131	0 %100
58	M73	Z	-.076	-.076	0 %100
59	M74	X	.131	.131	0 %100
60	M74	Z	-.076	-.076	0 %100
61	M75	X	.261	.261	0 %100
62	M75	Z	-.15	-.15	0 %100
63	M78	X	.568	.568	0 %100
64	M78	Z	-.328	-.328	0 %100
65	M79	X	.142	.142	0 %100
66	M79	Z	-.082	-.082	0 %100
67	M84	X	.787	.787	0 %100
68	M84	Z	-.454	-.454	0 %100
69	M85	X	.266	.266	0 %100
70	M85	Z	-.153	-.153	0 %100
71	M87A	X	.275	.275	0 %100
72	M87A	Z	-.159	-.159	0 %100
73	M89A	X	.787	.787	0 %100
74	M89A	Z	-.454	-.454	0 %100
75	M90A	X	1.062	1.062	0 %100
76	M90A	Z	-.613	-.613	0 %100
77	M92	X	1.101	1.101	0 %100



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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, %]
78	M92	Z	-.635	-.635	0	%100
79	M71B	X	.269	.269	0	%100
80	M71B	Z	-.155	-.155	0	%100
81	M72B	X	.61	.61	0	%100
82	M72B	Z	-.352	-.352	0	%100
83	M73A	X	.61	.61	0	%100
84	M73A	Z	-.352	-.352	0	%100
85	MP4A	X	.5	.5	0	%100
86	MP4A	Z	-.288	-.288	0	%100
87	MP3A	X	.5	.5	0	%100
88	MP3A	Z	-.288	-.288	0	%100
89	MP2A	X	.5	.5	0	%100
90	MP2A	Z	-.288	-.288	0	%100
91	MP1A	X	.5	.5	0	%100
92	MP1A	Z	-.288	-.288	0	%100
93	MP4B	X	.5	.5	0	%100
94	MP4B	Z	-.288	-.288	0	%100
95	MP3B	X	.5	.5	0	%100
96	MP3B	Z	-.288	-.288	0	%100
97	MP2B	X	.5	.5	0	%100
98	MP2B	Z	-.288	-.288	0	%100
99	MP1B	X	.5	.5	0	%100
100	MP1B	Z	-.288	-.288	0	%100
101	OVP2	X	.299	.299	0	%100
102	OVP2	Z	-.173	-.173	0	%100
103	OVP1	X	.299	.299	0	%100
104	OVP1	Z	-.173	-.173	0	%100
105	MP4C	X	.5	.5	0	%100
106	MP4C	Z	-.288	-.288	0	%100
107	MP3C	X	.5	.5	0	%100
108	MP3C	Z	-.288	-.288	0	%100
109	MP2C	X	.5	.5	0	%100
110	MP2C	Z	-.288	-.288	0	%100
111	MP1C	X	.5	.5	0	%100
112	MP1C	Z	-.288	-.288	0	%100
113	M101	X	.125	.125	0	%100
114	M101	Z	-.072	-.072	0	%100
115	M108	X	.5	.5	0	%100
116	M108	Z	-.288	-.288	0	%100
117	M115	X	.125	.125	0	%100
118	M115	Z	-.072	-.072	0	%100
119	M122	X	.647	.647	0	%100
120	M122	Z	-.374	-.374	0	%100
121	M123	X	.162	.162	0	%100
122	M123	Z	-.093	-.093	0	%100
123	M124	X	.162	.162	0	%100
124	M124	Z	-.093	-.093	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M13	X	.192	.192	0	%100
2	M13	Z	0	0	0	%100
3	M20	X	0	0	0	%100
4	M20	Z	0	0	0	%100
5	M32	X	.527	.527	0	%100
6	M32	Z	0	0	0	%100



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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, %]
7	M33A	X	.527	.527	0 %100
8	M33A	Z	0	0	0 %100
9	M41A	X	.454	.454	0 %100
10	M41A	Z	0	0	0 %100
11	M42 1	X	.454	.454	0 %100
12	M42 1	Z	0	0	0 %100
13	M43A 1	X	.903	.903	0 %100
14	M43A 1	Z	0	0	0 %100
15	M46A	X	.492	.492	0 %100
16	M46A	Z	0	0	0 %100
17	M47	X	0	0	0 %100
18	M47	Z	0	0	0 %100
19	M64	X	.303	.303	0 %100
20	M64	Z	0	0	0 %100
21	M65	X	0	0	0 %100
22	M65	Z	0	0	0 %100
23	M71	X	0	0	0 %100
24	M71	Z	0	0	0 %100
25	M86	X	.303	.303	0 %100
26	M86	Z	0	0	0 %100
27	M87	X	.92	.92	0 %100
28	M87	Z	0	0	0 %100
29	M90	X	.953	.953	0 %100
30	M90	Z	0	0	0 %100
31	M50A	X	.192	.192	0 %100
32	M50A	Z	0	0	0 %100
33	M51A	X	.454	.454	0 %100
34	M51A	Z	0	0	0 %100
35	M52	X	.454	.454	0 %100
36	M52	Z	0	0	0 %100
37	M53A	X	.903	.903	0 %100
38	M53A	Z	0	0	0 %100
39	M56	X	0	0	0 %100
40	M56	Z	0	0	0 %100
41	M57	X	.492	.492	0 %100
42	M57	Z	0	0	0 %100
43	M62	X	.303	.303	0 %100
44	M62	Z	0	0	0 %100
45	M63	X	.92	.92	0 %100
46	M63	Z	0	0	0 %100
47	M65A	X	.953	.953	0 %100
48	M65A	Z	0	0	0 %100
49	M67	X	.303	.303	0 %100
50	M67	Z	0	0	0 %100
51	M68A	X	0	0	0 %100
52	M68A	Z	0	0	0 %100
53	M70	X	0	0	0 %100
54	M70	Z	0	0	0 %100
55	M72A	X	.769	.769	0 %100
56	M72A	Z	0	0	0 %100
57	M73	X	0	0	0 %100
58	M73	Z	0	0	0 %100
59	M74	X	0	0	0 %100
60	M74	Z	0	0	0 %100
61	M75	X	0	0	0 %100
62	M75	Z	0	0	0 %100
63	M78	X	.492	.492	0 %100



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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,%]	
64	M78	Z	0	0	0	%100
65	M79	X	.492	.492	0	%100
66	M79	Z	0	0	0	%100
67	M84	X	1.211	1.211	0	%100
68	M84	Z	0	0	0	%100
69	M85	X	.92	.92	0	%100
70	M85	Z	0	0	0	%100
71	M87A	X	.953	.953	0	%100
72	M87A	Z	0	0	0	%100
73	M89A	X	1.211	1.211	0	%100
74	M89A	Z	0	0	0	%100
75	M90A	X	.92	.92	0	%100
76	M90A	Z	0	0	0	%100
77	M92	X	.953	.953	0	%100
78	M92	Z	0	0	0	%100
79	M71B	X	.442	.442	0	%100
80	M71B	Z	0	0	0	%100
81	M72B	X	.836	.836	0	%100
82	M72B	Z	0	0	0	%100
83	M73A	X	.442	.442	0	%100
84	M73A	Z	0	0	0	%100
85	MP4A	X	.577	.577	0	%100
86	MP4A	Z	0	0	0	%100
87	MP3A	X	.577	.577	0	%100
88	MP3A	Z	0	0	0	%100
89	MP2A	X	.577	.577	0	%100
90	MP2A	Z	0	0	0	%100
91	MP1A	X	.577	.577	0	%100
92	MP1A	Z	0	0	0	%100
93	MP4B	X	.577	.577	0	%100
94	MP4B	Z	0	0	0	%100
95	MP3B	X	.577	.577	0	%100
96	MP3B	Z	0	0	0	%100
97	MP2B	X	.577	.577	0	%100
98	MP2B	Z	0	0	0	%100
99	MP1B	X	.577	.577	0	%100
100	MP1B	Z	0	0	0	%100
101	OVP2	X	.345	.345	0	%100
102	OVP2	Z	0	0	0	%100
103	OVP1	X	.345	.345	0	%100
104	OVP1	Z	0	0	0	%100
105	MP4C	X	.577	.577	0	%100
106	MP4C	Z	0	0	0	%100
107	MP3C	X	.577	.577	0	%100
108	MP3C	Z	0	0	0	%100
109	MP2C	X	.577	.577	0	%100
110	MP2C	Z	0	0	0	%100
111	MP1C	X	.577	.577	0	%100
112	MP1C	Z	0	0	0	%100
113	M101	X	0	0	0	%100
114	M101	Z	0	0	0	%100
115	M108	X	.433	.433	0	%100
116	M108	Z	0	0	0	%100
117	M115	X	.433	.433	0	%100
118	M115	Z	0	0	0	%100
119	M122	X	.56	.56	0	%100
120	M122	Z	0	0	0	%100



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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, %]
121	M123	X	0	0	0	%100
122	M123	Z	0	0	0	%100
123	M124	X	.56	.56	0	%100
124	M124	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M13	X	.5	.5	0	%100
2	M13	Z	.289	.289	0	%100
3	M20	X	.152	.152	0	%100
4	M20	Z	.088	.088	0	%100
5	M32	X	.152	.152	0	%100
6	M32	Z	.088	.088	0	%100
7	M33A	X	.608	.608	0	%100
8	M33A	Z	.351	.351	0	%100
9	M41A	X	.131	.131	0	%100
10	M41A	Z	.076	.076	0	%100
11	M42_1	X	.131	.131	0	%100
12	M42_1	Z	.076	.076	0	%100
13	M43A_1	X	.261	.261	0	%100
14	M43A_1	Z	.15	.15	0	%100
15	M46A	X	.568	.568	0	%100
16	M46A	Z	.328	.328	0	%100
17	M47	X	.142	.142	0	%100
18	M47	Z	.082	.082	0	%100
19	M64	X	.787	.787	0	%100
20	M64	Z	.454	.454	0	%100
21	M65	X	.266	.266	0	%100
22	M65	Z	.153	.153	0	%100
23	M71	X	.275	.275	0	%100
24	M71	Z	.159	.159	0	%100
25	M86	X	.787	.787	0	%100
26	M86	Z	.454	.454	0	%100
27	M87	X	1.062	1.062	0	%100
28	M87	Z	.613	.613	0	%100
29	M90	X	1.101	1.101	0	%100
30	M90	Z	.635	.635	0	%100
31	M50A	X	0	0	0	%100
32	M50A	Z	0	0	0	%100
33	M51A	X	.524	.524	0	%100
34	M51A	Z	.302	.302	0	%100
35	M52	X	.524	.524	0	%100
36	M52	Z	.302	.302	0	%100
37	M53A	X	1.043	1.043	0	%100
38	M53A	Z	.602	.602	0	%100
39	M56	X	.142	.142	0	%100
40	M56	Z	.082	.082	0	%100
41	M57	X	.142	.142	0	%100
42	M57	Z	.082	.082	0	%100
43	M62	X	0	0	0	%100
44	M62	Z	0	0	0	%100
45	M63	X	.266	.266	0	%100
46	M63	Z	.153	.153	0	%100
47	M65A	X	.275	.275	0	%100
48	M65A	Z	.159	.159	0	%100
49	M67	X	0	0	0	%100



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 Model Name : 470974-VZW

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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,%]	
50	M67	Z	0	0	0	%100
51	M68A	X	.266	.266	0	%100
52	M68A	Z	.153	.153	0	%100
53	M70	X	.275	.275	0	%100
54	M70	Z	.159	.159	0	%100
55	M72A	X	.5	.5	0	%100
56	M72A	Z	.289	.289	0	%100
57	M73	X	.131	.131	0	%100
58	M73	Z	.076	.076	0	%100
59	M74	X	.131	.131	0	%100
60	M74	Z	.076	.076	0	%100
61	M75	X	.261	.261	0	%100
62	M75	Z	.15	.15	0	%100
63	M78	X	.142	.142	0	%100
64	M78	Z	.082	.082	0	%100
65	M79	X	.568	.568	0	%100
66	M79	Z	.328	.328	0	%100
67	M84	X	.787	.787	0	%100
68	M84	Z	.454	.454	0	%100
69	M85	X	1.062	1.062	0	%100
70	M85	Z	.613	.613	0	%100
71	M87A	X	1.101	1.101	0	%100
72	M87A	Z	.635	.635	0	%100
73	M89A	X	.787	.787	0	%100
74	M89A	Z	.454	.454	0	%100
75	M90A	X	.266	.266	0	%100
76	M90A	Z	.153	.153	0	%100
77	M92	X	.275	.275	0	%100
78	M92	Z	.159	.159	0	%100
79	M71B	X	.61	.61	0	%100
80	M71B	Z	.352	.352	0	%100
81	M72B	X	.61	.61	0	%100
82	M72B	Z	.352	.352	0	%100
83	M73A	X	.269	.269	0	%100
84	M73A	Z	.155	.155	0	%100
85	MP4A	X	.5	.5	0	%100
86	MP4A	Z	.288	.288	0	%100
87	MP3A	X	.5	.5	0	%100
88	MP3A	Z	.288	.288	0	%100
89	MP2A	X	.5	.5	0	%100
90	MP2A	Z	.288	.288	0	%100
91	MP1A	X	.5	.5	0	%100
92	MP1A	Z	.288	.288	0	%100
93	MP4B	X	.5	.5	0	%100
94	MP4B	Z	.288	.288	0	%100
95	MP3B	X	.5	.5	0	%100
96	MP3B	Z	.288	.288	0	%100
97	MP2B	X	.5	.5	0	%100
98	MP2B	Z	.288	.288	0	%100
99	MP1B	X	.5	.5	0	%100
100	MP1B	Z	.288	.288	0	%100
101	OVP2	X	.299	.299	0	%100
102	OVP2	Z	.173	.173	0	%100
103	OVP1	X	.299	.299	0	%100
104	OVP1	Z	.173	.173	0	%100
105	MP4C	X	.5	.5	0	%100
106	MP4C	Z	.288	.288	0	%100



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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, %]
107	MP3C	X	.5	.5	0	%100
108	MP3C	Z	.288	.288	0	%100
109	MP2C	X	.5	.5	0	%100
110	MP2C	Z	.288	.288	0	%100
111	MP1C	X	.5	.5	0	%100
112	MP1C	Z	.288	.288	0	%100
113	M101	X	.125	.125	0	%100
114	M101	Z	.072	.072	0	%100
115	M108	X	.125	.125	0	%100
116	M108	Z	.072	.072	0	%100
117	M115	X	.5	.5	0	%100
118	M115	Z	.288	.288	0	%100
119	M122	X	.162	.162	0	%100
120	M122	Z	.093	.093	0	%100
121	M123	X	.162	.162	0	%100
122	M123	Z	.093	.093	0	%100
123	M124	X	.647	.647	0	%100
124	M124	Z	.374	.374	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	M13	X	.385	.385	0	%100
2	M13	Z	.666	.666	0	%100
3	M20	X	.263	.263	0	%100
4	M20	Z	.456	.456	0	%100
5	M32	X	0	0	0	%100
6	M32	Z	0	0	0	%100
7	M33A	X	.263	.263	0	%100
8	M33A	Z	.456	.456	0	%100
9	M41A	X	0	0	0	%100
10	M41A	Z	0	0	0	%100
11	M42_1	X	0	0	0	%100
12	M42_1	Z	0	0	0	%100
13	M43A_1	X	0	0	0	%100
14	M43A_1	Z	0	0	0	%100
15	M46A	X	.246	.246	0	%100
16	M46A	Z	.426	.426	0	%100
17	M47	X	.246	.246	0	%100
18	M47	Z	.426	.426	0	%100
19	M64	X	.606	.606	0	%100
20	M64	Z	1.049	1.049	0	%100
21	M65	X	.46	.46	0	%100
22	M65	Z	.797	.797	0	%100
23	M71	X	.477	.477	0	%100
24	M71	Z	.825	.825	0	%100
25	M86	X	.606	.606	0	%100
26	M86	Z	1.049	1.049	0	%100
27	M87	X	.46	.46	0	%100
28	M87	Z	.797	.797	0	%100
29	M90	X	.477	.477	0	%100
30	M90	Z	.825	.825	0	%100
31	M50A	X	.096	.096	0	%100
32	M50A	Z	.167	.167	0	%100
33	M51A	X	.227	.227	0	%100
34	M51A	Z	.393	.393	0	%100
35	M52	X	.227	.227	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,%]
36	M52	Z	.393	.393	0 %100
37	M53A	X	.452	.452	0 %100
38	M53A	Z	.782	.782	0 %100
39	M56	X	.246	.246	0 %100
40	M56	Z	.426	.426	0 %100
41	M57	X	0	0	0 %100
42	M57	Z	0	0	0 %100
43	M62	X	.151	.151	0 %100
44	M62	Z	.262	.262	0 %100
45	M63	X	0	0	0 %100
46	M63	Z	0	0	0 %100
47	M65A	X	0	0	0 %100
48	M65A	Z	0	0	0 %100
49	M67	X	.151	.151	0 %100
50	M67	Z	.262	.262	0 %100
51	M68A	X	.46	.46	0 %100
52	M68A	Z	.797	.797	0 %100
53	M70	X	.477	.477	0 %100
54	M70	Z	.825	.825	0 %100
55	M72A	X	.096	.096	0 %100
56	M72A	Z	.167	.167	0 %100
57	M73	X	.227	.227	0 %100
58	M73	Z	.393	.393	0 %100
59	M74	X	.227	.227	0 %100
60	M74	Z	.393	.393	0 %100
61	M75	X	.452	.452	0 %100
62	M75	Z	.782	.782	0 %100
63	M78	X	0	0	0 %100
64	M78	Z	0	0	0 %100
65	M79	X	.246	.246	0 %100
66	M79	Z	.426	.426	0 %100
67	M84	X	.151	.151	0 %100
68	M84	Z	.262	.262	0 %100
69	M85	X	.46	.46	0 %100
70	M85	Z	.797	.797	0 %100
71	M87A	X	.477	.477	0 %100
72	M87A	Z	.825	.825	0 %100
73	M89A	X	.151	.151	0 %100
74	M89A	Z	.262	.262	0 %100
75	M90A	X	0	0	0 %100
76	M90A	Z	0	0	0 %100
77	M92	X	0	0	0 %100
78	M92	Z	0	0	0 %100
79	M71B	X	.418	.418	0 %100
80	M71B	Z	.724	.724	0 %100
81	M72B	X	.221	.221	0 %100
82	M72B	Z	.383	.383	0 %100
83	M73A	X	.221	.221	0 %100
84	M73A	Z	.383	.383	0 %100
85	MP4A	X	.288	.288	0 %100
86	MP4A	Z	.5	.5	0 %100
87	MP3A	X	.288	.288	0 %100
88	MP3A	Z	.5	.5	0 %100
89	MP2A	X	.288	.288	0 %100
90	MP2A	Z	.5	.5	0 %100
91	MP1A	X	.288	.288	0 %100
92	MP1A	Z	.5	.5	0 %100



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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, %]
93	MP4B	X	.288	.288	0	%100
94	MP4B	Z	.5	.5	0	%100
95	MP3B	X	.288	.288	0	%100
96	MP3B	Z	.5	.5	0	%100
97	MP2B	X	.288	.288	0	%100
98	MP2B	Z	.5	.5	0	%100
99	MP1B	X	.288	.288	0	%100
100	MP1B	Z	.5	.5	0	%100
101	OVP2	X	.173	.173	0	%100
102	OVP2	Z	.299	.299	0	%100
103	OVP1	X	.173	.173	0	%100
104	OVP1	Z	.299	.299	0	%100
105	MP4C	X	.288	.288	0	%100
106	MP4C	Z	.5	.5	0	%100
107	MP3C	X	.288	.288	0	%100
108	MP3C	Z	.5	.5	0	%100
109	MP2C	X	.288	.288	0	%100
110	MP2C	Z	.5	.5	0	%100
111	MP1C	X	.288	.288	0	%100
112	MP1C	Z	.5	.5	0	%100
113	M101	X	.216	.216	0	%100
114	M101	Z	.375	.375	0	%100
115	M108	X	0	0	0	%100
116	M108	Z	0	0	0	%100
117	M115	X	.216	.216	0	%100
118	M115	Z	.375	.375	0	%100
119	M122	X	0	0	0	%100
120	M122	Z	0	0	0	%100
121	M123	X	.28	.28	0	%100
122	M123	Z	.485	.485	0	%100
123	M124	X	.28	.28	0	%100
124	M124	Z	.485	.485	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	M13	X	0	0	0	%100
2	M13	Z	.577	.577	0	%100
3	M20	X	0	0	0	%100
4	M20	Z	.702	.702	0	%100
5	M32	X	0	0	0	%100
6	M32	Z	.176	.176	0	%100
7	M33A	X	0	0	0	%100
8	M33A	Z	.176	.176	0	%100
9	M41A	X	0	0	0	%100
10	M41A	Z	.151	.151	0	%100
11	M42 1	X	0	0	0	%100
12	M42 1	Z	.151	.151	0	%100
13	M43A 1	X	0	0	0	%100
14	M43A 1	Z	.301	.301	0	%100
15	M46A	X	0	0	0	%100
16	M46A	Z	.164	.164	0	%100
17	M47	X	0	0	0	%100
18	M47	Z	.656	.656	0	%100
19	M64	X	0	0	0	%100
20	M64	Z	.909	.909	0	%100
21	M65	X	0	0	0	%100



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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,%]
22	M65	Z	1.226	1.226	0 %100
23	M71	X	0	0	0 %100
24	M71	Z	1.271	1.271	0 %100
25	M86	X	0	0	0 %100
26	M86	Z	.909	.909	0 %100
27	M87	X	0	0	0 %100
28	M87	Z	.307	.307	0 %100
29	M90	X	0	0	0 %100
30	M90	Z	.318	.318	0 %100
31	M50A	X	0	0	0 %100
32	M50A	Z	.577	.577	0 %100
33	M51A	X	0	0	0 %100
34	M51A	Z	.151	.151	0 %100
35	M52	X	0	0	0 %100
36	M52	Z	.151	.151	0 %100
37	M53A	X	0	0	0 %100
38	M53A	Z	.301	.301	0 %100
39	M56	X	0	0	0 %100
40	M56	Z	.655	.655	0 %100
41	M57	X	0	0	0 %100
42	M57	Z	.164	.164	0 %100
43	M62	X	0	0	0 %100
44	M62	Z	.909	.909	0 %100
45	M63	X	0	0	0 %100
46	M63	Z	.307	.307	0 %100
47	M65A	X	0	0	0 %100
48	M65A	Z	.318	.318	0 %100
49	M67	X	0	0	0 %100
50	M67	Z	.909	.909	0 %100
51	M68A	X	0	0	0 %100
52	M68A	Z	1.226	1.226	0 %100
53	M70	X	0	0	0 %100
54	M70	Z	1.271	1.271	0 %100
55	M72A	X	0	0	0 %100
56	M72A	Z	0	0	0 %100
57	M73	X	0	0	0 %100
58	M73	Z	.605	.605	0 %100
59	M74	X	0	0	0 %100
60	M74	Z	.605	.605	0 %100
61	M75	X	0	0	0 %100
62	M75	Z	1.204	1.204	0 %100
63	M78	X	0	0	0 %100
64	M78	Z	.164	.164	0 %100
65	M79	X	0	0	0 %100
66	M79	Z	.164	.164	0 %100
67	M84	X	0	0	0 %100
68	M84	Z	0	0	0 %100
69	M85	X	0	0	0 %100
70	M85	Z	.307	.307	0 %100
71	M87A	X	0	0	0 %100
72	M87A	Z	.318	.318	0 %100
73	M89A	X	0	0	0 %100
74	M89A	Z	0	0	0 %100
75	M90A	X	0	0	0 %100
76	M90A	Z	.307	.307	0 %100
77	M92	X	0	0	0 %100
78	M92	Z	.318	.318	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, %]
79	M71B	X	0	0	0	%100
80	M71B	Z	.705	.705	0	%100
81	M72B	X	0	0	0	%100
82	M72B	Z	.31	.31	0	%100
83	M73A	X	0	0	0	%100
84	M73A	Z	.705	.705	0	%100
85	MP4A	X	0	0	0	%100
86	MP4A	Z	.577	.577	0	%100
87	MP3A	X	0	0	0	%100
88	MP3A	Z	.577	.577	0	%100
89	MP2A	X	0	0	0	%100
90	MP2A	Z	.577	.577	0	%100
91	MP1A	X	0	0	0	%100
92	MP1A	Z	.577	.577	0	%100
93	MP4B	X	0	0	0	%100
94	MP4B	Z	.577	.577	0	%100
95	MP3B	X	0	0	0	%100
96	MP3B	Z	.577	.577	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	.577	.577	0	%100
99	MP1B	X	0	0	0	%100
100	MP1B	Z	.577	.577	0	%100
101	OVP2	X	0	0	0	%100
102	OVP2	Z	.345	.345	0	%100
103	OVP1	X	0	0	0	%100
104	OVP1	Z	.345	.345	0	%100
105	MP4C	X	0	0	0	%100
106	MP4C	Z	.577	.577	0	%100
107	MP3C	X	0	0	0	%100
108	MP3C	Z	.577	.577	0	%100
109	MP2C	X	0	0	0	%100
110	MP2C	Z	.577	.577	0	%100
111	MP1C	X	0	0	0	%100
112	MP1C	Z	.577	.577	0	%100
113	M101	X	0	0	0	%100
114	M101	Z	.577	.577	0	%100
115	M108	X	0	0	0	%100
116	M108	Z	.144	.144	0	%100
117	M115	X	0	0	0	%100
118	M115	Z	.144	.144	0	%100
119	M122	X	0	0	0	%100
120	M122	Z	.187	.187	0	%100
121	M123	X	0	0	0	%100
122	M123	Z	.747	.747	0	%100
123	M124	X	0	0	0	%100
124	M124	Z	.187	.187	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	M13	X	-.096	-.096	0	%100
2	M13	Z	.167	.167	0	%100
3	M20	X	-.263	-.263	0	%100
4	M20	Z	.456	.456	0	%100
5	M32	X	-.263	-.263	0	%100
6	M32	Z	.456	.456	0	%100
7	M33A	X	0	0	0	%100



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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,%]	
8	M33A	Z	0	0	0	%100
9	M41A	X	-.227	-.227	0	%100
10	M41A	Z	.393	.393	0	%100
11	M42 1	X	-.227	-.227	0	%100
12	M42 1	Z	.393	.393	0	%100
13	M43A 1	X	-.452	-.452	0	%100
14	M43A 1	Z	.782	.782	0	%100
15	M46A	X	0	0	0	%100
16	M46A	Z	0	0	0	%100
17	M47	X	-.246	-.246	0	%100
18	M47	Z	.426	.426	0	%100
19	M64	X	-.151	-.151	0	%100
20	M64	Z	.262	.262	0	%100
21	M65	X	-.46	-.46	0	%100
22	M65	Z	.797	.797	0	%100
23	M71	X	-.477	-.477	0	%100
24	M71	Z	.825	.825	0	%100
25	M86	X	-.151	-.151	0	%100
26	M86	Z	.262	.262	0	%100
27	M87	X	0	0	0	%100
28	M87	Z	0	0	0	%100
29	M90	X	0	0	0	%100
30	M90	Z	0	0	0	%100
31	M50A	X	-.385	-.385	0	%100
32	M50A	Z	.666	.666	0	%100
33	M51A	X	0	0	0	%100
34	M51A	Z	0	0	0	%100
35	M52	X	0	0	0	%100
36	M52	Z	0	0	0	%100
37	M53A	X	0	0	0	%100
38	M53A	Z	0	0	0	%100
39	M56	X	-.246	-.246	0	%100
40	M56	Z	.426	.426	0	%100
41	M57	X	-.246	-.246	0	%100
42	M57	Z	.426	.426	0	%100
43	M62	X	-.606	-.606	0	%100
44	M62	Z	1.049	1.049	0	%100
45	M63	X	-.46	-.46	0	%100
46	M63	Z	.797	.797	0	%100
47	M65A	X	-.477	-.477	0	%100
48	M65A	Z	.825	.825	0	%100
49	M67	X	-.606	-.606	0	%100
50	M67	Z	1.049	1.049	0	%100
51	M68A	X	-.46	-.46	0	%100
52	M68A	Z	.797	.797	0	%100
53	M70	X	-.477	-.477	0	%100
54	M70	Z	.825	.825	0	%100
55	M72A	X	-.096	-.096	0	%100
56	M72A	Z	.167	.167	0	%100
57	M73	X	-.227	-.227	0	%100
58	M73	Z	.393	.393	0	%100
59	M74	X	-.227	-.227	0	%100
60	M74	Z	.393	.393	0	%100
61	M75	X	-.452	-.452	0	%100
62	M75	Z	.782	.782	0	%100
63	M78	X	-.246	-.246	0	%100
64	M78	Z	.426	.426	0	%100



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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, %]	
65	M79	X	0	0	0	%100
66	M79	Z	0	0	0	%100
67	M84	X	-.151	-.151	0	%100
68	M84	Z	.262	.262	0	%100
69	M85	X	0	0	0	%100
70	M85	Z	0	0	0	%100
71	M87A	X	0	0	0	%100
72	M87A	Z	0	0	0	%100
73	M89A	X	-.151	-.151	0	%100
74	M89A	Z	.262	.262	0	%100
75	M90A	X	-.46	-.46	0	%100
76	M90A	Z	.797	.797	0	%100
77	M92	X	-.477	-.477	0	%100
78	M92	Z	.825	.825	0	%100
79	M71B	X	-.221	-.221	0	%100
80	M71B	Z	.383	.383	0	%100
81	M72B	X	-.221	-.221	0	%100
82	M72B	Z	.383	.383	0	%100
83	M73A	X	-.418	-.418	0	%100
84	M73A	Z	.724	.724	0	%100
85	MP4A	X	-.288	-.288	0	%100
86	MP4A	Z	.5	.5	0	%100
87	MP3A	X	-.288	-.288	0	%100
88	MP3A	Z	.5	.5	0	%100
89	MP2A	X	-.288	-.288	0	%100
90	MP2A	Z	.5	.5	0	%100
91	MP1A	X	-.288	-.288	0	%100
92	MP1A	Z	.5	.5	0	%100
93	MP4B	X	-.288	-.288	0	%100
94	MP4B	Z	.5	.5	0	%100
95	MP3B	X	-.288	-.288	0	%100
96	MP3B	Z	.5	.5	0	%100
97	MP2B	X	-.288	-.288	0	%100
98	MP2B	Z	.5	.5	0	%100
99	MP1B	X	-.288	-.288	0	%100
100	MP1B	Z	.5	.5	0	%100
101	OVP2	X	-.173	-.173	0	%100
102	OVP2	Z	.299	.299	0	%100
103	OVP1	X	-.173	-.173	0	%100
104	OVP1	Z	.299	.299	0	%100
105	MP4C	X	-.288	-.288	0	%100
106	MP4C	Z	.5	.5	0	%100
107	MP3C	X	-.288	-.288	0	%100
108	MP3C	Z	.5	.5	0	%100
109	MP2C	X	-.288	-.288	0	%100
110	MP2C	Z	.5	.5	0	%100
111	MP1C	X	-.288	-.288	0	%100
112	MP1C	Z	.5	.5	0	%100
113	M101	X	-.216	-.216	0	%100
114	M101	Z	.375	.375	0	%100
115	M108	X	-.216	-.216	0	%100
116	M108	Z	.375	.375	0	%100
117	M115	X	0	0	0	%100
118	M115	Z	0	0	0	%100
119	M122	X	-.28	-.28	0	%100
120	M122	Z	.485	.485	0	%100
121	M123	X	-.28	-.28	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, %]
122	M123	Z	.485	.485	0	%100
123	M124	X	0	0	0	%100
124	M124	Z	0	0	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	M13	X	0	0	0	%100
2	M13	Z	0	0	0	%100
3	M20	X	-.152	-.152	0	%100
4	M20	Z	.088	.088	0	%100
5	M32	X	-.608	-.608	0	%100
6	M32	Z	.351	.351	0	%100
7	M33A	X	-.152	-.152	0	%100
8	M33A	Z	.088	.088	0	%100
9	M41A	X	-.524	-.524	0	%100
10	M41A	Z	.302	.302	0	%100
11	M42_1	X	-.524	-.524	0	%100
12	M42_1	Z	.302	.302	0	%100
13	M43A_1	X	-1.043	-1.043	0	%100
14	M43A_1	Z	.602	.602	0	%100
15	M46A	X	-.142	-.142	0	%100
16	M46A	Z	.082	.082	0	%100
17	M47	X	-.142	-.142	0	%100
18	M47	Z	.082	.082	0	%100
19	M64	X	0	0	0	%100
20	M64	Z	0	0	0	%100
21	M65	X	-.266	-.266	0	%100
22	M65	Z	.153	.153	0	%100
23	M71	X	-.275	-.275	0	%100
24	M71	Z	.159	.159	0	%100
25	M86	X	0	0	0	%100
26	M86	Z	0	0	0	%100
27	M87	X	-.266	-.266	0	%100
28	M87	Z	.153	.153	0	%100
29	M90	X	-.275	-.275	0	%100
30	M90	Z	.159	.159	0	%100
31	M50A	X	-.5	-.5	0	%100
32	M50A	Z	.289	.289	0	%100
33	M51A	X	-.131	-.131	0	%100
34	M51A	Z	.076	.076	0	%100
35	M52	X	-.131	-.131	0	%100
36	M52	Z	.076	.076	0	%100
37	M53A	X	-.261	-.261	0	%100
38	M53A	Z	.15	.15	0	%100
39	M56	X	-.142	-.142	0	%100
40	M56	Z	.082	.082	0	%100
41	M57	X	-.568	-.568	0	%100
42	M57	Z	.328	.328	0	%100
43	M62	X	-.787	-.787	0	%100
44	M62	Z	.454	.454	0	%100
45	M63	X	-1.062	-1.062	0	%100
46	M63	Z	.613	.613	0	%100
47	M65A	X	-1.101	-1.101	0	%100
48	M65A	Z	.635	.635	0	%100
49	M67	X	-.787	-.787	0	%100
50	M67	Z	.454	.454	0	%100



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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, %]
51	M68A	X	-.266	-.266	0 %100
52	M68A	Z	.153	.153	0 %100
53	M70	X	-.275	-.275	0 %100
54	M70	Z	.159	.159	0 %100
55	M72A	X	-.5	-.5	0 %100
56	M72A	Z	.289	.289	0 %100
57	M73	X	-.131	-.131	0 %100
58	M73	Z	.076	.076	0 %100
59	M74	X	-.131	-.131	0 %100
60	M74	Z	.076	.076	0 %100
61	M75	X	-.261	-.261	0 %100
62	M75	Z	.15	.15	0 %100
63	M78	X	-.568	-.568	0 %100
64	M78	Z	.328	.328	0 %100
65	M79	X	-.142	-.142	0 %100
66	M79	Z	.082	.082	0 %100
67	M84	X	-.787	-.787	0 %100
68	M84	Z	.454	.454	0 %100
69	M85	X	-.266	-.266	0 %100
70	M85	Z	.153	.153	0 %100
71	M87A	X	-.275	-.275	0 %100
72	M87A	Z	.159	.159	0 %100
73	M89A	X	-.787	-.787	0 %100
74	M89A	Z	.454	.454	0 %100
75	M90A	X	-1.062	-1.062	0 %100
76	M90A	Z	.613	.613	0 %100
77	M92	X	-1.101	-1.101	0 %100
78	M92	Z	.635	.635	0 %100
79	M71B	X	-.269	-.269	0 %100
80	M71B	Z	.155	.155	0 %100
81	M72B	X	-.61	-.61	0 %100
82	M72B	Z	.352	.352	0 %100
83	M73A	X	-.61	-.61	0 %100
84	M73A	Z	.352	.352	0 %100
85	MP4A	X	-.5	-.5	0 %100
86	MP4A	Z	.288	.288	0 %100
87	MP3A	X	-.5	-.5	0 %100
88	MP3A	Z	.288	.288	0 %100
89	MP2A	X	-.5	-.5	0 %100
90	MP2A	Z	.288	.288	0 %100
91	MP1A	X	-.5	-.5	0 %100
92	MP1A	Z	.288	.288	0 %100
93	MP4B	X	-.5	-.5	0 %100
94	MP4B	Z	.288	.288	0 %100
95	MP3B	X	-.5	-.5	0 %100
96	MP3B	Z	.288	.288	0 %100
97	MP2B	X	-.5	-.5	0 %100
98	MP2B	Z	.288	.288	0 %100
99	MP1B	X	-.5	-.5	0 %100
100	MP1B	Z	.288	.288	0 %100
101	OVP2	X	-.299	-.299	0 %100
102	OVP2	Z	.173	.173	0 %100
103	OVP1	X	-.299	-.299	0 %100
104	OVP1	Z	.173	.173	0 %100
105	MP4C	X	-.5	-.5	0 %100
106	MP4C	Z	.288	.288	0 %100
107	MP3C	X	-.5	-.5	0 %100



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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, %]
108	MP3C	Z	.288	.288	0	%100
109	MP2C	X	-.5	-.5	0	%100
110	MP2C	Z	.288	.288	0	%100
111	MP1C	X	-.5	-.5	0	%100
112	MP1C	Z	.288	.288	0	%100
113	M101	X	-.125	-.125	0	%100
114	M101	Z	.072	.072	0	%100
115	M108	X	-.5	-.5	0	%100
116	M108	Z	.288	.288	0	%100
117	M115	X	-.125	-.125	0	%100
118	M115	Z	.072	.072	0	%100
119	M122	X	-.647	-.647	0	%100
120	M122	Z	.374	.374	0	%100
121	M123	X	-.162	-.162	0	%100
122	M123	Z	.093	.093	0	%100
123	M124	X	-.162	-.162	0	%100
124	M124	Z	.093	.093	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	M13	X	-.192	-.192	0	%100
2	M13	Z	0	0	0	%100
3	M20	X	0	0	0	%100
4	M20	Z	0	0	0	%100
5	M32	X	-.527	-.527	0	%100
6	M32	Z	0	0	0	%100
7	M33A	X	-.527	-.527	0	%100
8	M33A	Z	0	0	0	%100
9	M41A	X	-.454	-.454	0	%100
10	M41A	Z	0	0	0	%100
11	M42 1	X	-.454	-.454	0	%100
12	M42 1	Z	0	0	0	%100
13	M43A 1	X	-.903	-.903	0	%100
14	M43A 1	Z	0	0	0	%100
15	M46A	X	-.492	-.492	0	%100
16	M46A	Z	0	0	0	%100
17	M47	X	0	0	0	%100
18	M47	Z	0	0	0	%100
19	M64	X	-.303	-.303	0	%100
20	M64	Z	0	0	0	%100
21	M65	X	0	0	0	%100
22	M65	Z	0	0	0	%100
23	M71	X	0	0	0	%100
24	M71	Z	0	0	0	%100
25	M86	X	-.303	-.303	0	%100
26	M86	Z	0	0	0	%100
27	M87	X	-.92	-.92	0	%100
28	M87	Z	0	0	0	%100
29	M90	X	-.953	-.953	0	%100
30	M90	Z	0	0	0	%100
31	M50A	X	-.192	-.192	0	%100
32	M50A	Z	0	0	0	%100
33	M51A	X	-.454	-.454	0	%100
34	M51A	Z	0	0	0	%100
35	M52	X	-.454	-.454	0	%100
36	M52	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
37	M53A	X	-903	-903	0 %100
38	M53A	Z	0	0	0 %100
39	M56	X	0	0	0 %100
40	M56	Z	0	0	0 %100
41	M57	X	-492	-492	0 %100
42	M57	Z	0	0	0 %100
43	M62	X	-303	-303	0 %100
44	M62	Z	0	0	0 %100
45	M63	X	-92	-92	0 %100
46	M63	Z	0	0	0 %100
47	M65A	X	-953	-953	0 %100
48	M65A	Z	0	0	0 %100
49	M67	X	-303	-303	0 %100
50	M67	Z	0	0	0 %100
51	M68A	X	0	0	0 %100
52	M68A	Z	0	0	0 %100
53	M70	X	0	0	0 %100
54	M70	Z	0	0	0 %100
55	M72A	X	-769	-769	0 %100
56	M72A	Z	0	0	0 %100
57	M73	X	0	0	0 %100
58	M73	Z	0	0	0 %100
59	M74	X	0	0	0 %100
60	M74	Z	0	0	0 %100
61	M75	X	0	0	0 %100
62	M75	Z	0	0	0 %100
63	M78	X	-492	-492	0 %100
64	M78	Z	0	0	0 %100
65	M79	X	-492	-492	0 %100
66	M79	Z	0	0	0 %100
67	M84	X	-1.211	-1.211	0 %100
68	M84	Z	0	0	0 %100
69	M85	X	-92	-92	0 %100
70	M85	Z	0	0	0 %100
71	M87A	X	-953	-953	0 %100
72	M87A	Z	0	0	0 %100
73	M89A	X	-1.211	-1.211	0 %100
74	M89A	Z	0	0	0 %100
75	M90A	X	-92	-92	0 %100
76	M90A	Z	0	0	0 %100
77	M92	X	-953	-953	0 %100
78	M92	Z	0	0	0 %100
79	M71B	X	-442	-442	0 %100
80	M71B	Z	0	0	0 %100
81	M72B	X	-836	-836	0 %100
82	M72B	Z	0	0	0 %100
83	M73A	X	-442	-442	0 %100
84	M73A	Z	0	0	0 %100
85	MP4A	X	-577	-577	0 %100
86	MP4A	Z	0	0	0 %100
87	MP3A	X	-577	-577	0 %100
88	MP3A	Z	0	0	0 %100
89	MP2A	X	-577	-577	0 %100
90	MP2A	Z	0	0	0 %100
91	MP1A	X	-577	-577	0 %100
92	MP1A	Z	0	0	0 %100
93	MP4B	X	-577	-577	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
94	MP4B	Z	0	0	0	%100
95	MP3B	X	-.577	-.577	0	%100
96	MP3B	Z	0	0	0	%100
97	MP2B	X	-.577	-.577	0	%100
98	MP2B	Z	0	0	0	%100
99	MP1B	X	-.577	-.577	0	%100
100	MP1B	Z	0	0	0	%100
101	OVP2	X	-.345	-.345	0	%100
102	OVP2	Z	0	0	0	%100
103	OVP1	X	-.345	-.345	0	%100
104	OVP1	Z	0	0	0	%100
105	MP4C	X	-.577	-.577	0	%100
106	MP4C	Z	0	0	0	%100
107	MP3C	X	-.577	-.577	0	%100
108	MP3C	Z	0	0	0	%100
109	MP2C	X	-.577	-.577	0	%100
110	MP2C	Z	0	0	0	%100
111	MP1C	X	-.577	-.577	0	%100
112	MP1C	Z	0	0	0	%100
113	M101	X	0	0	0	%100
114	M101	Z	0	0	0	%100
115	M108	X	-.433	-.433	0	%100
116	M108	Z	0	0	0	%100
117	M115	X	-.433	-.433	0	%100
118	M115	Z	0	0	0	%100
119	M122	X	-.56	-.56	0	%100
120	M122	Z	0	0	0	%100
121	M123	X	0	0	0	%100
122	M123	Z	0	0	0	%100
123	M124	X	-.56	-.56	0	%100
124	M124	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	M13	X	-.5	-.5	0	%100
2	M13	Z	-.289	-.289	0	%100
3	M20	X	-.152	-.152	0	%100
4	M20	Z	-.088	-.088	0	%100
5	M32	X	-.152	-.152	0	%100
6	M32	Z	-.088	-.088	0	%100
7	M33A	X	-.608	-.608	0	%100
8	M33A	Z	-.351	-.351	0	%100
9	M41A	X	-.131	-.131	0	%100
10	M41A	Z	-.076	-.076	0	%100
11	M42 1	X	-.131	-.131	0	%100
12	M42 1	Z	-.076	-.076	0	%100
13	M43A 1	X	-.261	-.261	0	%100
14	M43A 1	Z	-.15	-.15	0	%100
15	M46A	X	-.568	-.568	0	%100
16	M46A	Z	-.328	-.328	0	%100
17	M47	X	-.142	-.142	0	%100
18	M47	Z	-.082	-.082	0	%100
19	M64	X	-.787	-.787	0	%100
20	M64	Z	-.454	-.454	0	%100
21	M65	X	-.266	-.266	0	%100
22	M65	Z	-.153	-.153	0	%100



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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, %]
23	M71	X	-.275	-.275	0 %100
24	M71	Z	-.159	-.159	0 %100
25	M86	X	-.787	-.787	0 %100
26	M86	Z	-.454	-.454	0 %100
27	M87	X	-1.062	-1.062	0 %100
28	M87	Z	-.613	-.613	0 %100
29	M90	X	-1.101	-1.101	0 %100
30	M90	Z	-.635	-.635	0 %100
31	M50A	X	0	0	0 %100
32	M50A	Z	0	0	0 %100
33	M51A	X	-.524	-.524	0 %100
34	M51A	Z	-.302	-.302	0 %100
35	M52	X	-.524	-.524	0 %100
36	M52	Z	-.302	-.302	0 %100
37	M53A	X	-1.043	-1.043	0 %100
38	M53A	Z	-.602	-.602	0 %100
39	M56	X	-.142	-.142	0 %100
40	M56	Z	-.082	-.082	0 %100
41	M57	X	-.142	-.142	0 %100
42	M57	Z	-.082	-.082	0 %100
43	M62	X	0	0	0 %100
44	M62	Z	0	0	0 %100
45	M63	X	-.266	-.266	0 %100
46	M63	Z	-.153	-.153	0 %100
47	M65A	X	-.275	-.275	0 %100
48	M65A	Z	-.159	-.159	0 %100
49	M67	X	0	0	0 %100
50	M67	Z	0	0	0 %100
51	M68A	X	-.266	-.266	0 %100
52	M68A	Z	-.153	-.153	0 %100
53	M70	X	-.275	-.275	0 %100
54	M70	Z	-.159	-.159	0 %100
55	M72A	X	-.5	-.5	0 %100
56	M72A	Z	-.289	-.289	0 %100
57	M73	X	-.131	-.131	0 %100
58	M73	Z	-.076	-.076	0 %100
59	M74	X	-.131	-.131	0 %100
60	M74	Z	-.076	-.076	0 %100
61	M75	X	-.261	-.261	0 %100
62	M75	Z	-.15	-.15	0 %100
63	M78	X	-.142	-.142	0 %100
64	M78	Z	-.082	-.082	0 %100
65	M79	X	-.568	-.568	0 %100
66	M79	Z	-.328	-.328	0 %100
67	M84	X	-.787	-.787	0 %100
68	M84	Z	-.454	-.454	0 %100
69	M85	X	-1.062	-1.062	0 %100
70	M85	Z	-.613	-.613	0 %100
71	M87A	X	-1.101	-1.101	0 %100
72	M87A	Z	-.635	-.635	0 %100
73	M89A	X	-.787	-.787	0 %100
74	M89A	Z	-.454	-.454	0 %100
75	M90A	X	-.266	-.266	0 %100
76	M90A	Z	-.153	-.153	0 %100
77	M92	X	-.275	-.275	0 %100
78	M92	Z	-.159	-.159	0 %100
79	M71B	X	-.61	-.61	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, %]
80	M71B	Z	-.352	-.352	0	%100
81	M72B	X	-.61	-.61	0	%100
82	M72B	Z	-.352	-.352	0	%100
83	M73A	X	-.269	-.269	0	%100
84	M73A	Z	-.155	-.155	0	%100
85	MP4A	X	-.5	-.5	0	%100
86	MP4A	Z	-.288	-.288	0	%100
87	MP3A	X	-.5	-.5	0	%100
88	MP3A	Z	-.288	-.288	0	%100
89	MP2A	X	-.5	-.5	0	%100
90	MP2A	Z	-.288	-.288	0	%100
91	MP1A	X	-.5	-.5	0	%100
92	MP1A	Z	-.288	-.288	0	%100
93	MP4B	X	-.5	-.5	0	%100
94	MP4B	Z	-.288	-.288	0	%100
95	MP3B	X	-.5	-.5	0	%100
96	MP3B	Z	-.288	-.288	0	%100
97	MP2B	X	-.5	-.5	0	%100
98	MP2B	Z	-.288	-.288	0	%100
99	MP1B	X	-.5	-.5	0	%100
100	MP1B	Z	-.288	-.288	0	%100
101	OVP2	X	-.299	-.299	0	%100
102	OVP2	Z	-.173	-.173	0	%100
103	OVP1	X	-.299	-.299	0	%100
104	OVP1	Z	-.173	-.173	0	%100
105	MP4C	X	-.5	-.5	0	%100
106	MP4C	Z	-.288	-.288	0	%100
107	MP3C	X	-.5	-.5	0	%100
108	MP3C	Z	-.288	-.288	0	%100
109	MP2C	X	-.5	-.5	0	%100
110	MP2C	Z	-.288	-.288	0	%100
111	MP1C	X	-.5	-.5	0	%100
112	MP1C	Z	-.288	-.288	0	%100
113	M101	X	-.125	-.125	0	%100
114	M101	Z	-.072	-.072	0	%100
115	M108	X	-.125	-.125	0	%100
116	M108	Z	-.072	-.072	0	%100
117	M115	X	-.5	-.5	0	%100
118	M115	Z	-.288	-.288	0	%100
119	M122	X	-.162	-.162	0	%100
120	M122	Z	-.093	-.093	0	%100
121	M123	X	-.162	-.162	0	%100
122	M123	Z	-.093	-.093	0	%100
123	M124	X	-.647	-.647	0	%100
124	M124	Z	-.374	-.374	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	M13	X	-.385	-.385	0	%100
2	M13	Z	-.666	-.666	0	%100
3	M20	X	-.263	-.263	0	%100
4	M20	Z	-.456	-.456	0	%100
5	M32	X	0	0	0	%100
6	M32	Z	0	0	0	%100
7	M33A	X	-.263	-.263	0	%100
8	M33A	Z	-.456	-.456	0	%100



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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, %]
9	M41A	X	0	0	0	%100
10	M41A	Z	0	0	0	%100
11	M42 1	X	0	0	0	%100
12	M42 1	Z	0	0	0	%100
13	M43A 1	X	0	0	0	%100
14	M43A 1	Z	0	0	0	%100
15	M46A	X	-.246	-.246	0	%100
16	M46A	Z	-.426	-.426	0	%100
17	M47	X	-.246	-.246	0	%100
18	M47	Z	-.426	-.426	0	%100
19	M64	X	-.606	-.606	0	%100
20	M64	Z	-1.049	-1.049	0	%100
21	M65	X	-.46	-.46	0	%100
22	M65	Z	-.797	-.797	0	%100
23	M71	X	-.477	-.477	0	%100
24	M71	Z	-.825	-.825	0	%100
25	M86	X	-.606	-.606	0	%100
26	M86	Z	-1.049	-1.049	0	%100
27	M87	X	-.46	-.46	0	%100
28	M87	Z	-.797	-.797	0	%100
29	M90	X	-.477	-.477	0	%100
30	M90	Z	-.825	-.825	0	%100
31	M50A	X	-.096	-.096	0	%100
32	M50A	Z	-.167	-.167	0	%100
33	M51A	X	-.227	-.227	0	%100
34	M51A	Z	-.393	-.393	0	%100
35	M52	X	-.227	-.227	0	%100
36	M52	Z	-.393	-.393	0	%100
37	M53A	X	-.452	-.452	0	%100
38	M53A	Z	-.782	-.782	0	%100
39	M56	X	-.246	-.246	0	%100
40	M56	Z	-.426	-.426	0	%100
41	M57	X	0	0	0	%100
42	M57	Z	0	0	0	%100
43	M62	X	-.151	-.151	0	%100
44	M62	Z	-.262	-.262	0	%100
45	M63	X	0	0	0	%100
46	M63	Z	0	0	0	%100
47	M65A	X	0	0	0	%100
48	M65A	Z	0	0	0	%100
49	M67	X	-.151	-.151	0	%100
50	M67	Z	-.262	-.262	0	%100
51	M68A	X	-.46	-.46	0	%100
52	M68A	Z	-.797	-.797	0	%100
53	M70	X	-.477	-.477	0	%100
54	M70	Z	-.825	-.825	0	%100
55	M72A	X	-.096	-.096	0	%100
56	M72A	Z	-.167	-.167	0	%100
57	M73	X	-.227	-.227	0	%100
58	M73	Z	-.393	-.393	0	%100
59	M74	X	-.227	-.227	0	%100
60	M74	Z	-.393	-.393	0	%100
61	M75	X	-.452	-.452	0	%100
62	M75	Z	-.782	-.782	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	0	0	0	%100
65	M79	X	-.246	-.246	0	%100



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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,%]
66	M79	Z	-.426	-.426	0 %100
67	M84	X	-.151	-.151	0 %100
68	M84	Z	-.262	-.262	0 %100
69	M85	X	-.46	-.46	0 %100
70	M85	Z	-.797	-.797	0 %100
71	M87A	X	-.477	-.477	0 %100
72	M87A	Z	-.825	-.825	0 %100
73	M89A	X	-.151	-.151	0 %100
74	M89A	Z	-.262	-.262	0 %100
75	M90A	X	0	0	0 %100
76	M90A	Z	0	0	0 %100
77	M92	X	0	0	0 %100
78	M92	Z	0	0	0 %100
79	M71B	X	-.418	-.418	0 %100
80	M71B	Z	-.724	-.724	0 %100
81	M72B	X	-.221	-.221	0 %100
82	M72B	Z	-.383	-.383	0 %100
83	M73A	X	-.221	-.221	0 %100
84	M73A	Z	-.383	-.383	0 %100
85	MP4A	X	-.288	-.288	0 %100
86	MP4A	Z	-.5	-.5	0 %100
87	MP3A	X	-.288	-.288	0 %100
88	MP3A	Z	-.5	-.5	0 %100
89	MP2A	X	-.288	-.288	0 %100
90	MP2A	Z	-.5	-.5	0 %100
91	MP1A	X	-.288	-.288	0 %100
92	MP1A	Z	-.5	-.5	0 %100
93	MP4B	X	-.288	-.288	0 %100
94	MP4B	Z	-.5	-.5	0 %100
95	MP3B	X	-.288	-.288	0 %100
96	MP3B	Z	-.5	-.5	0 %100
97	MP2B	X	-.288	-.288	0 %100
98	MP2B	Z	-.5	-.5	0 %100
99	MP1B	X	-.288	-.288	0 %100
100	MP1B	Z	-.5	-.5	0 %100
101	OVP2	X	-.173	-.173	0 %100
102	OVP2	Z	-.299	-.299	0 %100
103	OVP1	X	-.173	-.173	0 %100
104	OVP1	Z	-.299	-.299	0 %100
105	MP4C	X	-.288	-.288	0 %100
106	MP4C	Z	-.5	-.5	0 %100
107	MP3C	X	-.288	-.288	0 %100
108	MP3C	Z	-.5	-.5	0 %100
109	MP2C	X	-.288	-.288	0 %100
110	MP2C	Z	-.5	-.5	0 %100
111	MP1C	X	-.288	-.288	0 %100
112	MP1C	Z	-.5	-.5	0 %100
113	M101	X	-.216	-.216	0 %100
114	M101	Z	-.375	-.375	0 %100
115	M108	X	0	0	0 %100
116	M108	Z	0	0	0 %100
117	M115	X	-.216	-.216	0 %100
118	M115	Z	-.375	-.375	0 %100
119	M122	X	0	0	0 %100
120	M122	Z	0	0	0 %100
121	M123	X	-.28	-.28	0 %100
122	M123	Z	-.485	-.485	0 %100



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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, %]
123	M124	X	-28	-28	0	%100
124	M124	Z	-485	-485	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	M46A	Y	-2.356	-4.541	0	.793
2	M46A	Y	-4.541	-6.018	.793	1.586
3	M46A	Y	-6.018	-7.77	1.586	2.379
4	M46A	Y	-7.77	-7.475	2.379	3.172
5	M46A	Y	-7.475	-4.145	3.172	3.965
6	M47	Y	-4.166	-7.563	0	.793
7	M47	Y	-7.563	-7.938	.793	1.587
8	M47	Y	-7.938	-6.372	1.587	2.38
9	M47	Y	-6.372	-4.807	2.38	3.173
10	M47	Y	-4.807	-2.16	3.173	3.967
11	M56	Y	-2.356	-4.541	0	.793
12	M56	Y	-4.541	-6.018	.793	1.586
13	M56	Y	-6.018	-7.77	1.586	2.379
14	M56	Y	-7.77	-7.475	2.379	3.172
15	M56	Y	-7.475	-4.145	3.172	3.965
16	M57	Y	-4.166	-7.563	0	.793
17	M57	Y	-7.563	-7.938	.793	1.587
18	M57	Y	-7.938	-6.372	1.587	2.38
19	M57	Y	-6.372	-4.807	2.38	3.173
20	M57	Y	-4.807	-2.16	3.173	3.967
21	M78	Y	-2.356	-4.541	0	.793
22	M78	Y	-4.541	-6.018	.793	1.586
23	M78	Y	-6.018	-7.77	1.586	2.379
24	M78	Y	-7.77	-7.475	2.379	3.172
25	M78	Y	-7.475	-4.145	3.172	3.965
26	M79	Y	-4.166	-7.563	0	.793
27	M79	Y	-7.563	-7.938	.793	1.587
28	M79	Y	-7.938	-6.372	1.587	2.38
29	M79	Y	-6.372	-4.807	2.38	3.173
30	M79	Y	-4.807	-2.16	3.173	3.967

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	M46A	Y	-4.506	-8.687	0	.793
2	M46A	Y	-8.687	-11.511	.793	1.586
3	M46A	Y	-11.511	-14.864	1.586	2.379
4	M46A	Y	-14.864	-14.298	2.379	3.172
5	M46A	Y	-14.298	-7.928	3.172	3.965
6	M47	Y	-7.969	-14.467	0	.793
7	M47	Y	-14.467	-15.184	.793	1.587
8	M47	Y	-15.184	-12.19	1.587	2.38
9	M47	Y	-12.19	-9.195	2.38	3.173
10	M47	Y	-9.195	-4.132	3.173	3.967
11	M56	Y	-4.506	-8.687	0	.793
12	M56	Y	-8.687	-11.511	.793	1.586
13	M56	Y	-11.511	-14.864	1.586	2.379
14	M56	Y	-14.864	-14.298	2.379	3.172
15	M56	Y	-14.298	-7.928	3.172	3.965
16	M57	Y	-7.969	-14.467	0	.793
17	M57	Y	-14.467	-15.184	.793	1.587
18	M57	Y	-15.184	-12.19	1.587	2.38



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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.%]
19	M57	Y	-12.19	-9.195	2.38	3.173
20	M57	Y	-9.195	-4.132	3.173	3.967
21	M78	Y	-4.506	-8.687	0	.793
22	M78	Y	-8.687	-11.511	.793	1.586
23	M78	Y	-11.511	-14.864	1.586	2.379
24	M78	Y	-14.864	-14.298	2.379	3.172
25	M78	Y	-14.298	-7.928	3.172	3.965
26	M79	Y	-7.969	-14.467	0	.793
27	M79	Y	-14.467	-15.184	.793	1.587
28	M79	Y	-15.184	-12.19	1.587	2.38
29	M79	Y	-12.19	-9.195	2.38	3.173
30	M79	Y	-9.195	-4.132	3.173	3.967

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N87A	N86A	N80A	N81A	Y	Two Way	-.005
2	N88B	N89A	N94	N93	Y	Two Way	-.005
3	N117	N122	N121	N116A	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N87A	N86A	N80A	N81A	Y	Two Way	-.01
2	N88B	N89A	N94	N93	Y	Two Way	-.01
3	N117	N122	N121	N116A	Y	Two Way	-.01

Envelope Joint Reactions

Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC	
1	N21	max	3486.618	9	765.889	15	685.713	1	-279.212	7	2633.417	12	-345.638	46
2		min	-772.212	3	303.619	50	-2249.495	7	-979.949	25	-2628.907	6	-1123.241	16
3	N84B	max	1093.663	11	531.958	23	655.19	12	-289.861	7	999.169	8	569.05	23
4		min	-2953.899	5	190.634	5	-1716.452	6	-778.566	13	-1015.268	2	224.748	5
5	N112A	max	430.852	10	430.719	19	3601.483	1	733.861	19	859.746	12	-110.765	10
6		min	-438.034	4	146.906	25	-1003.076	7	255.275	25	-851.918	6	-384.757	16
7	N92	max	-845.311	3	1914.041	21	1746.392	21	0	51	0	51	0	51
8		min	-3024.966	21	535.815	3	488.135	3	0	1	0	1	0	1
9	N93A	max	2263.783	17	1445.663	17	1306.384	17	0	51	0	51	0	51
10		min	338.173	11	223.63	11	195.646	11	0	1	0	1	0	1
11	N94A	max	41.037	10	1543.97	13	-600.31	7	0	51	0	51	0	51
12		min	-41.037	4	335.416	7	-2798.196	13	0	1	0	1	0	1
13	Totals:	max	3276.861	10	6293.37	14	3664.324	1						
14		min	-3276.86	4	3165.469	8	-3664.325	7						

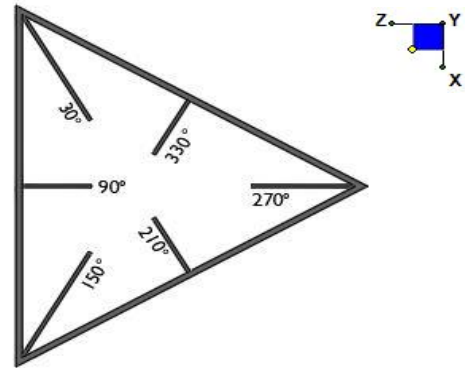
Envelope AISC 15th(360-16): LRFD Steel Code Checks

Member	Shape	Code Check	Loc[ft]	LC	Shear ...Loc[ft]	Dir	LC	phi*Pnc ...phi*Pnt [...phi*Mn y...phi*Mn z...Cb	Eqn	
1	M13	HSS4X4X4	.206	0	12	.070	5.659	y 47	116105...139518 16180.516180.51...	H1-1b
2	M20	PIPE 3.0	.110	9.365	35	.074	4.38	7	21266.0... 65205 5748.755748.752...	H1-1b
3	M32	PIPE 3.0	.076	4.38	6	.035	5.286	12	21266.0... 65205 5748.755748.753...	H1-1b
4	M33A	PIPE 3.0	.072	9.365	1	.069	4.38	11	21266.0... 65205 5748.755748.753...	H1-1b
5	M41A	HSS4X4X4	.113	2.406	22	.025	.251	z 10	136177...139518 16180.516180.51...	H1-1b
6	M42_1	HSS4X4X4	.108	0	20	.026	2.156	z 8	136177...139518 16180.516180.51...	H1-1b
7	M43A 1	PL1/2x6	.193	.547	3	.152	.547	y 38	62895.0... 97200 1012.5 12150 1...	H1-1b
8	M46A	L2x2x3	.106	3.965	9	.011	0	y 14	10640.6...23392.8557.7171088.3991...	H2-1

I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N21	30
N84B	150
N112A	270



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:

Bolt Quantity per Reaction:

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

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

Bolt Type:

Bolt Diameter (in):

Required Tensile Strength (kips):

Required Shear Strength (kips):

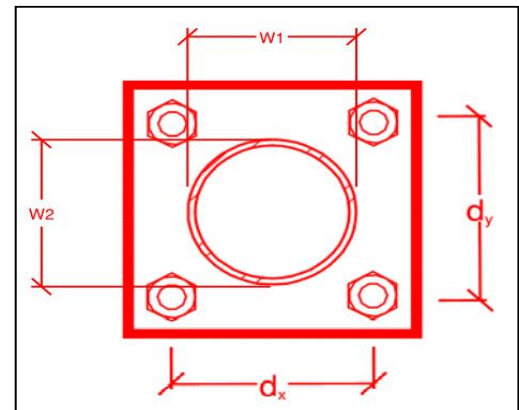
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
4
5.5
5.5
A325N
0.625
13.4
3.0
20.7
12.4
16.2%*
6.0%



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

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:

Plate Width (in):

Plate Height (in):

W1 (in):

W2 (in):

Fy (ksi, plate):

t_{plate} (in):

Weld Size (1/16 in):

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

Required Weld Strength (kip/in):

Plate Bending Capacity:

Weld Capacity:

Rect
8
8
4
4
36
0.75
6
8.35
1.63
16.2%
19.5%

Max Plate Bending Strengths

$M_{u_{xx}}$ (kip-in):	1.1
$\Phi \cdot M_{n_{xx}}$ (kip-in):	36.5
$M_{u_{yy}}$ (kip-in):	4.8
$\Phi \cdot M_{n_{yy}}$ (kip-in):	36.5

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 to Install safety climb wire clip on existing mount collar such that the existing safety climb wire does not contact the existing mount members.

Response:

Schedule A – Photo & Document File Structure

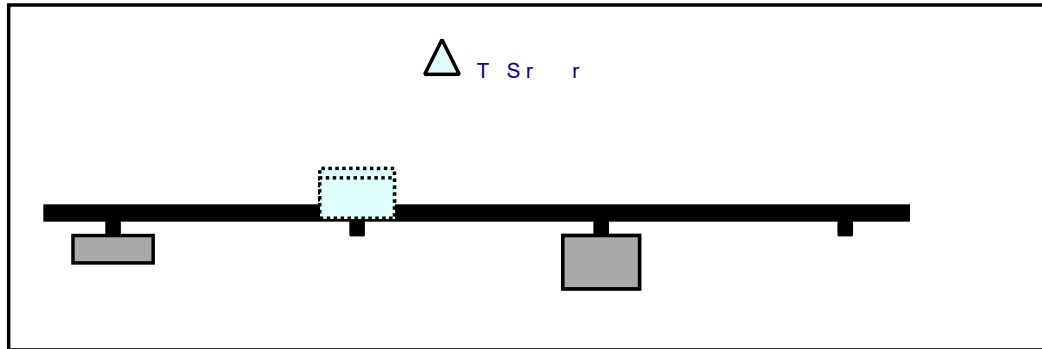
-  VzW Site Number / Name
 -  Base & “During Installation” Photos
 -  Pre-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Post-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Photos of climbing facility and safety climb – If Present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

S r B
 Sr r T M
 M E .

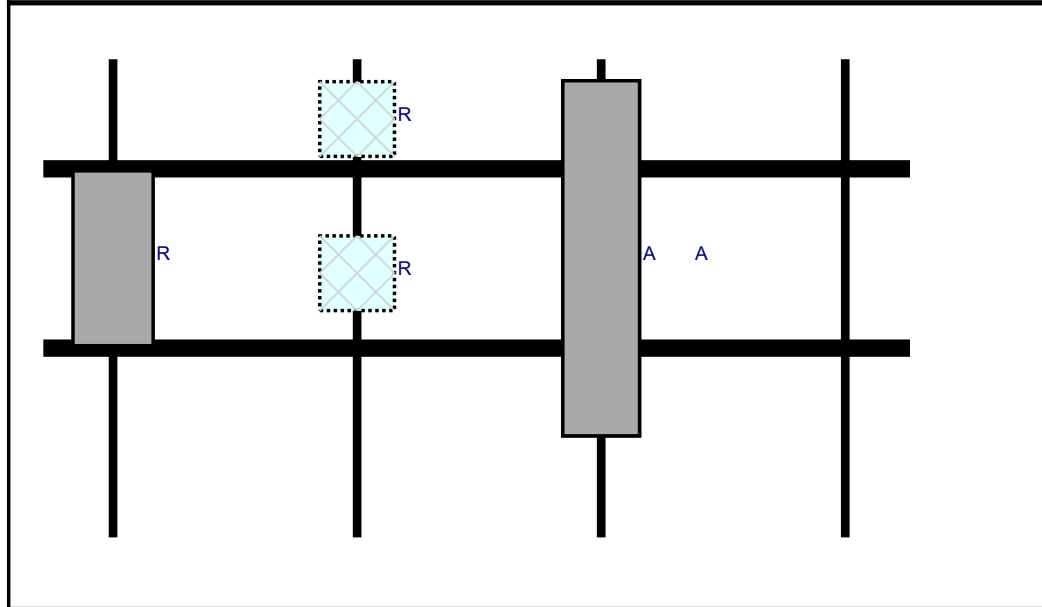


P

Plan View



Front View
 L Sr r



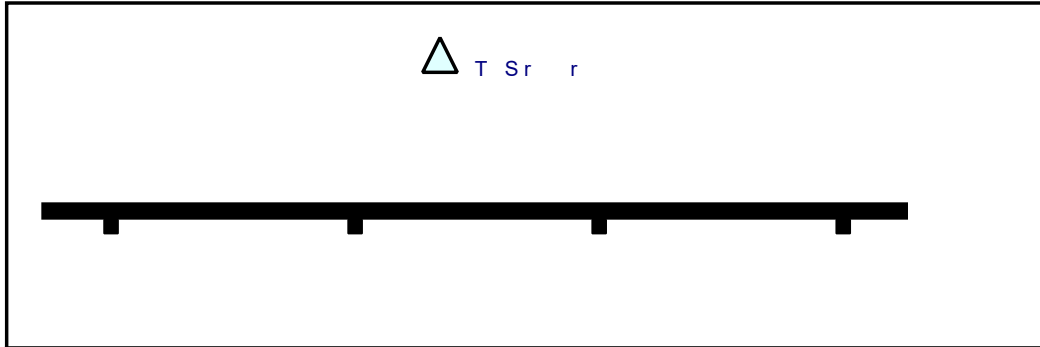
	d	D	P	P	A	.A	A			
R M d		r L.		P	P	r T.	O	S		d
A M RO	.	.			r	.		R		d
A M RO	.	.			r	.		R		d
R B B ARR BR R D A					B	d	.	R		d
R B B RR BR R D A					B	d	.	R		d
R MT A	.	.			r	.		Add		d

S r C
S r T M
M E .

P

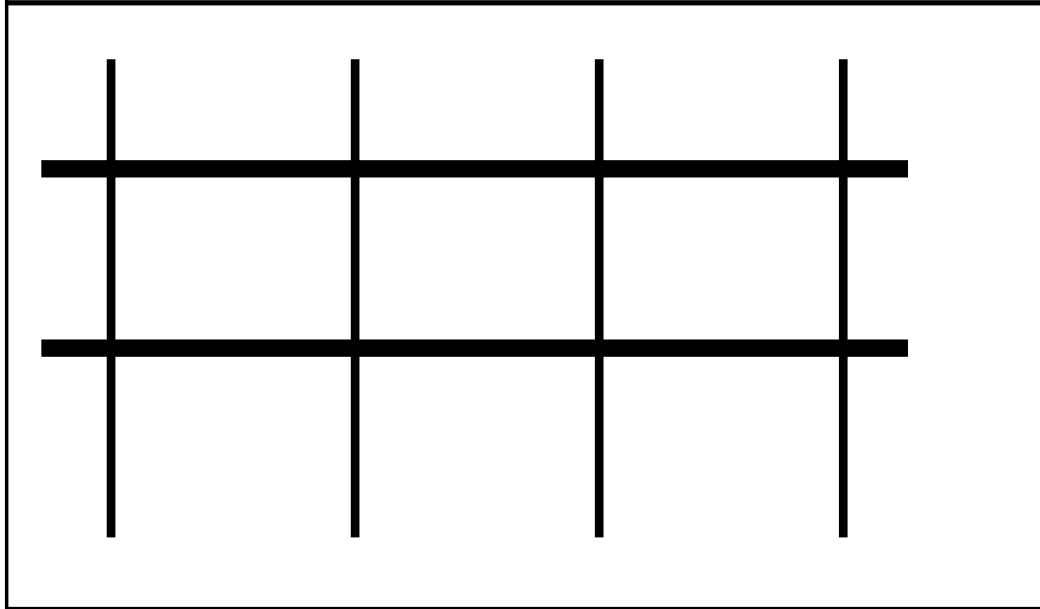


Plan View



Front View

L S r r



d D P P A .A A
r L. P P r T. O S d

R M d

Subject: *TIA-222-H Usage*

Site Information

<i>Site ID:</i>	<i>470974-VZW / BEACON FALLS 2 CT-Town Monopole</i>
<i>Site Name:</i>	<i>BEACON FALLS 2 CT-Town Monopole</i>
<i>Carrier Name:</i>	<i>Verizon Wireless</i>
<i>Address:</i>	<i>401 Lopus Road Beacon Falls, Connecticut 06403 New Haven County</i>
<i>Latitude:</i>	<i>41.43276833°</i>
<i>Longitude:</i>	<i>-73.07031527°</i>

Structure Information

<i>Tower Type:</i>	<i>Monopole</i>
<i>Mount Type:</i>	<i>14.58-Ft Platform</i>

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,

Justin Linette, PE
Sr. 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 14.58' PLATFORM**

**SITE NAME: BEACON FALLS 2 CT - TOWN MONOPOLE
SITE NUMBER: 470974**

**401 LOPUS ROAD
BEACON FALLS, CT 06403
NEW HAVEN COUNTY**

PROJECT INFORMATION	
SITE INFORMATION	
LATITUDE:	41.43276833° N
LONGITUDE:	73.07031527° W
JURISDICTION:	NEW HAVEN 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 CONNECTICUT
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

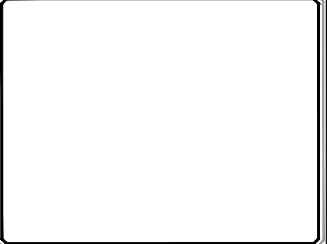
CONTRACTOR PMI REQUIREMENTS	
PMI LOCATION:	HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #:	10073432
VZW LOCATION CODE (PSLC):	470974
FUZE ID:	16244162
PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT	

REFERENCED DOCUMENTS	
FAILING MOUNT ANALYSIS REPORT	
SMART TOOL PROJECT #:	10050573
MASER CONSULTING CONNECTICUT PROJECT #:	21777533A
ANALYSIS DATE:	6/1/2021

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SCALE:	AS SHOWN	JOB NUMBER:	21777533A	
REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	6/24/2021	ISSUED FOR CONSTRUCTION	JBA	JPL

Justin Perlinette
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: 31965
MASER CONSULTING CONNECTICUT
C.T. C.O.A. #: JPC000131
Digitally signed by Justin Perlinette
Date: 2021.06.24 15:37:04'00'

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**BEACON FALLS 2 CT - TOWN MONOPOLE
470974**
**401 LOPUS ROAD
BEACON FALLS, CT 06403
NEW HAVEN 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

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BILL OF MATERIALS

VZWSMART KITS				
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
12	VZWSMART	VZWSMART-MSK1	CROSSOVER PLATE	
4		VZWSMART-MSK2	CROSSOVER PLATE	
3		VZWSMART-PLK3	SUPPORT RAIL CORNER BRACKET	

OTHER REQUIRED PARTS				
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
3	-	-	174" LONG, P2.5 STD	GALVANIZED
3	-	-	36" LONG, L3x3x1/4	GALVANIZED, CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2
4	-	-	96" LONG, P2.5 STD	GALVANIZED

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

VZWSMART KITS - APPROVED VENDORS	
COMMSCOPE	
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT 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	WIRELESSSALES@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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SCALE: AS SHOWN JOB NUMBER: 21777533A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	6/24/2021	ISSUED FOR CONSTRUCTION	JRA	JPL




Justin Linette
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: 31965
MASER CONSULTING CONNECTICUT
C.T. C.O.A. #: JPC0000131

Digitally signed by Justin P. Linette
Date: 2021.06.24 15:37:04-04'00'

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SITE NAME:
BEACON FALLS 2 CT - TOWN MONOPOLE
470974
401 LOPUS ROAD
BEACON FALLS, CT 06403
NEW HAVEN COUNTY



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

SHEET TITLE:
BILL OF MATERIALS

SHEET NUMBER:
S-1

GENERAL NOTES

- THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
- CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. 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.
- IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
- ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND 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.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
- WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY 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.
- 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.
- 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.
- CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
- DO NOT SCALE DRAWINGS.
- DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
- 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.
- THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

DESIGN LOADS

- WIND LOADS
- BASIC WIND SPEED (3 SECOND GUST), V = 118 MPH
 - EXPOSURE CATEGORY B
 - TOPOGRAPHIC CATEGORY I
 - MEAN BASE ELEVATION (AMSL) = 161.88'

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

- SEISMIC LOADS
- SEISMIC DESIGN CATEGORY B
 - SHORT TERM MCER GROUND MOTION, S_s = .199
 - LONG TERM MCER GROUND MOTION, S_l = .054

STRUCTURAL STEEL

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

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

- 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.
- PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 - SUBMIT SHOP DRAWINGS TO PETER.ALBANO@COLLIERSENGINEERING.COM
 - PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING CONNECTICUT PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
- DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL NEW STEEL SHALL BE HOT 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.
- ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
- WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
- FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
- 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.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.

- 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.
- 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).
- 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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REV	DATE	DESCRIPTION	DRAWN BY / CHECKED BY
0	6/24/2021	ISSUED FOR CONSTRUCTION	JBA / JPL

Justin Linette
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: 31965
MASER CONSULTING CONNECTICUT
C.T. C.O.A. #: JPC 0000131

Digitally signed by Justin P. Linette
Date: 2021.06.24 15:37:00 -04'00'

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MT. LAUREL OFFICE
2000 Highlands Drive
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Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE:
MODIFICATION NOTES

SHEET NUMBER:
S-2

10011317700002177133A-Consulting Rev. 6/20/21 - 1: Empress@Home #10011317700002177133A

MODIFICATION INSPECTION NOTES

MI CHECKLIST	
CONSTRUCTION/ INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY EOR)	REPORT ITEM
PRE-CONSTRUCTION	
X	MI CHECKLIST DRAWING
X	EOB 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 (EOB).

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:

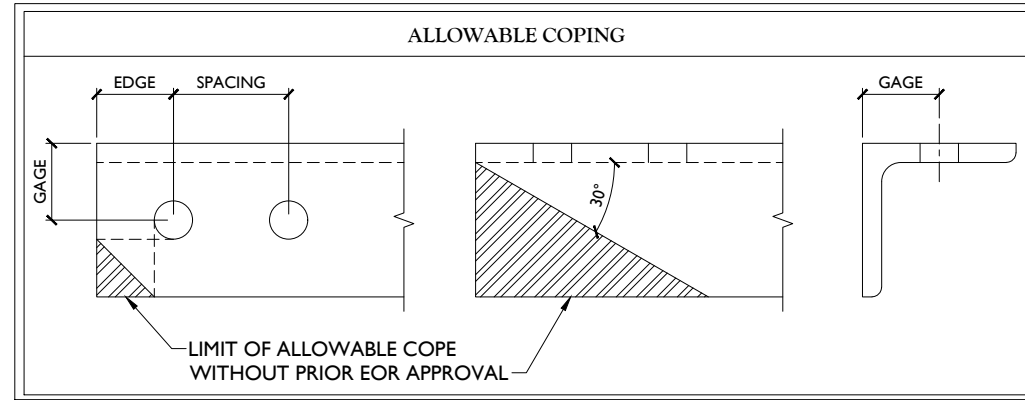
- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.

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:

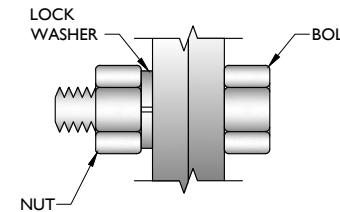
- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
 - RAW MATERIALS
 - PHOTOS OF ALL CRITICAL DETAILS
 - FOUNDATION MODIFICATIONS
 - WELD PREPARATION
 - BOLT INSTALLATION
 - FINAL INSTALLED CONDITION
 - SURFACE COATING REPAIR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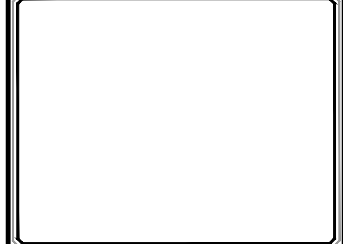
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MODIFICATION NOTES

SHEET NUMBER:
S-3



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Justin Linette
JUSTIN LINETTE
REGISTERED PROFESSIONAL ENGINEER
CONNECTIONS LICENSE NUMBER: 31965
MASER CONSULTING CONNECTICUT
C.T. C.O.A. #: JPC000031
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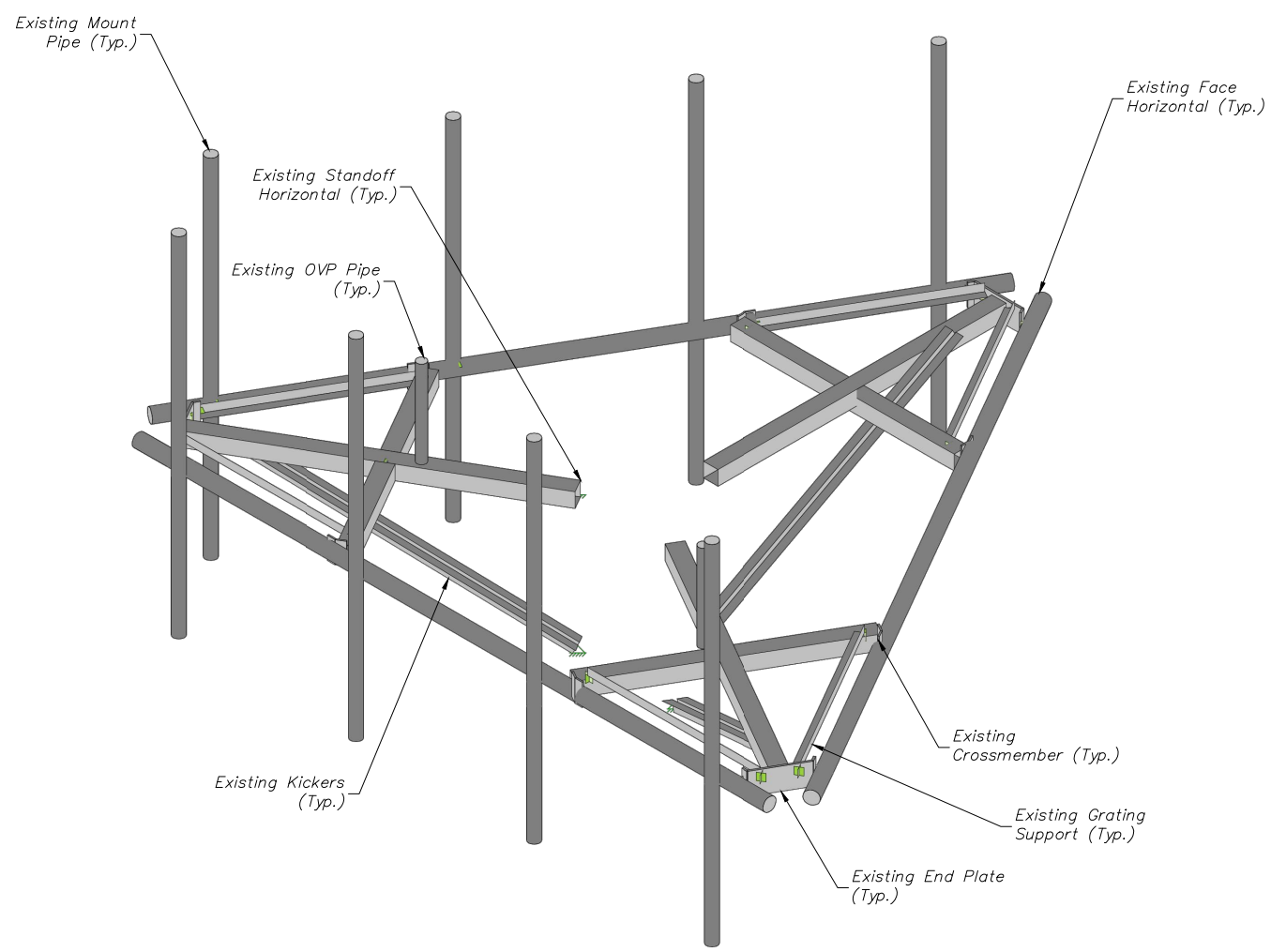
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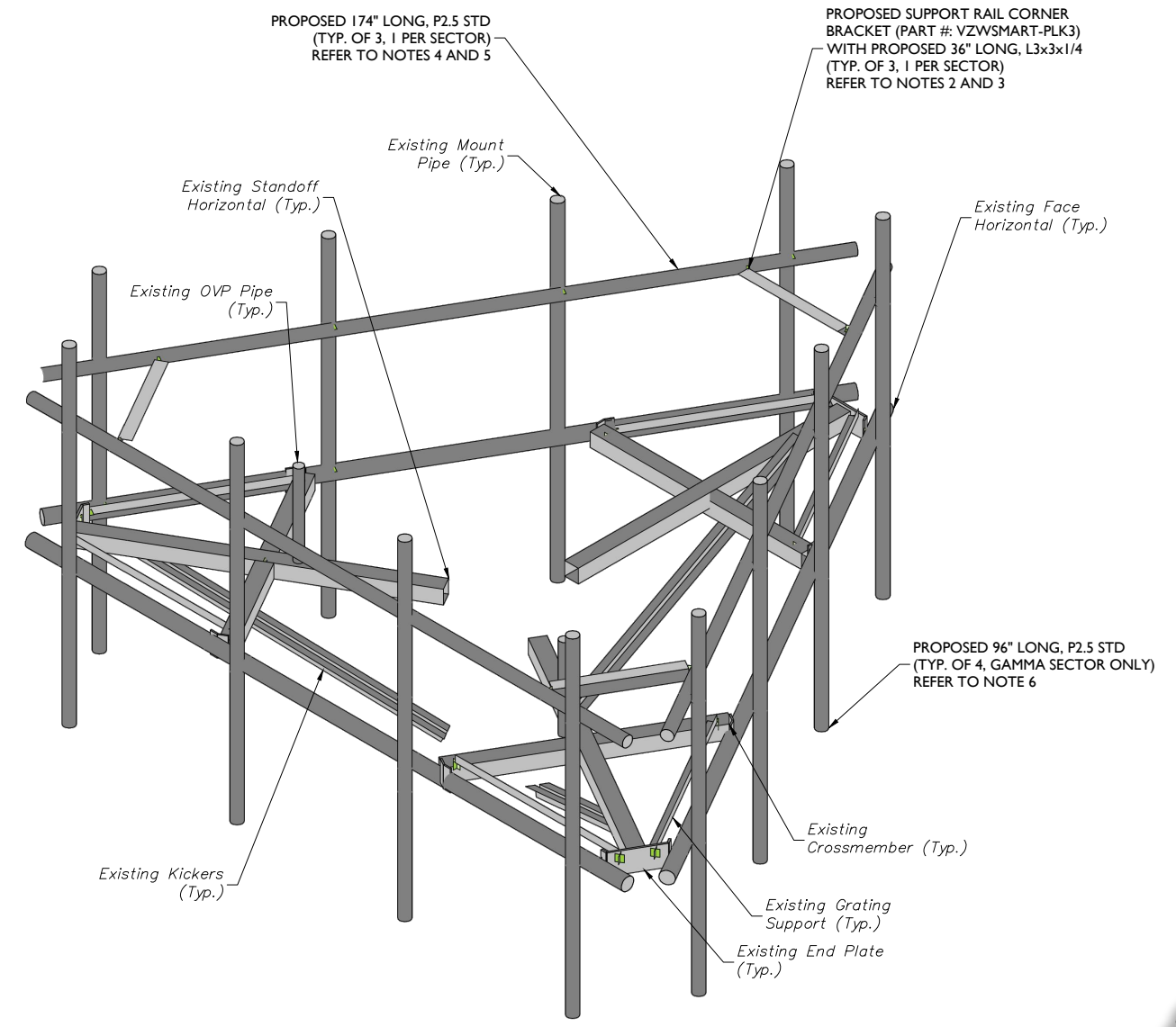
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SHEET TITLE:
MODIFICATION DETAILS

SHEET NUMBER:
S-4



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



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

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. CONTRACTOR SHALL CONNECT PROPOSED L3x3x1/4 ANGLES TO CORNER BRACKETS USING THE PROVIDED (8) 5/8" DIA. BOLTS, (4) BOLTS PER CONNECTION.
4. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
5. CONNECT NEW HORIZONTAL TO ALL VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).
6. CONNECT NEW MOUNT PIPE TO EXISTING HORIZONTAL WITH CROSSOVER PLATES (PART #: VZWSMART-MSK2).

STRUCTURAL NOTES:

1. PER THE MOUNT MAPPING COMPLETED BY FDH INFRASTRUCTURE SERVICES, LLC ON 4/10/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (113'-6") ARE IN GOOD CONDITION. MASER CONSULTING CONNECTICUT DOES NOT WARRANT THIS INFORMATION.
2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.



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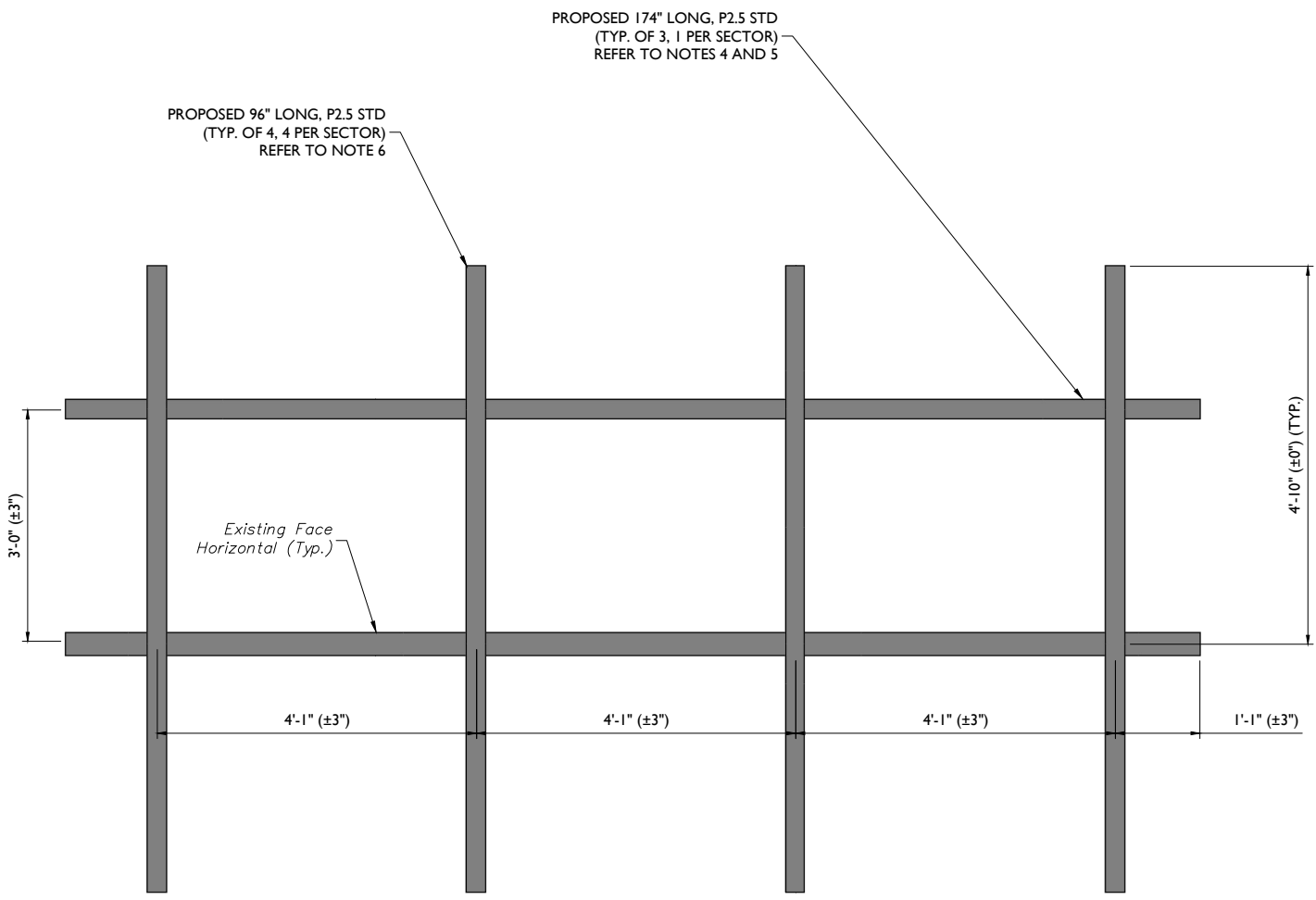
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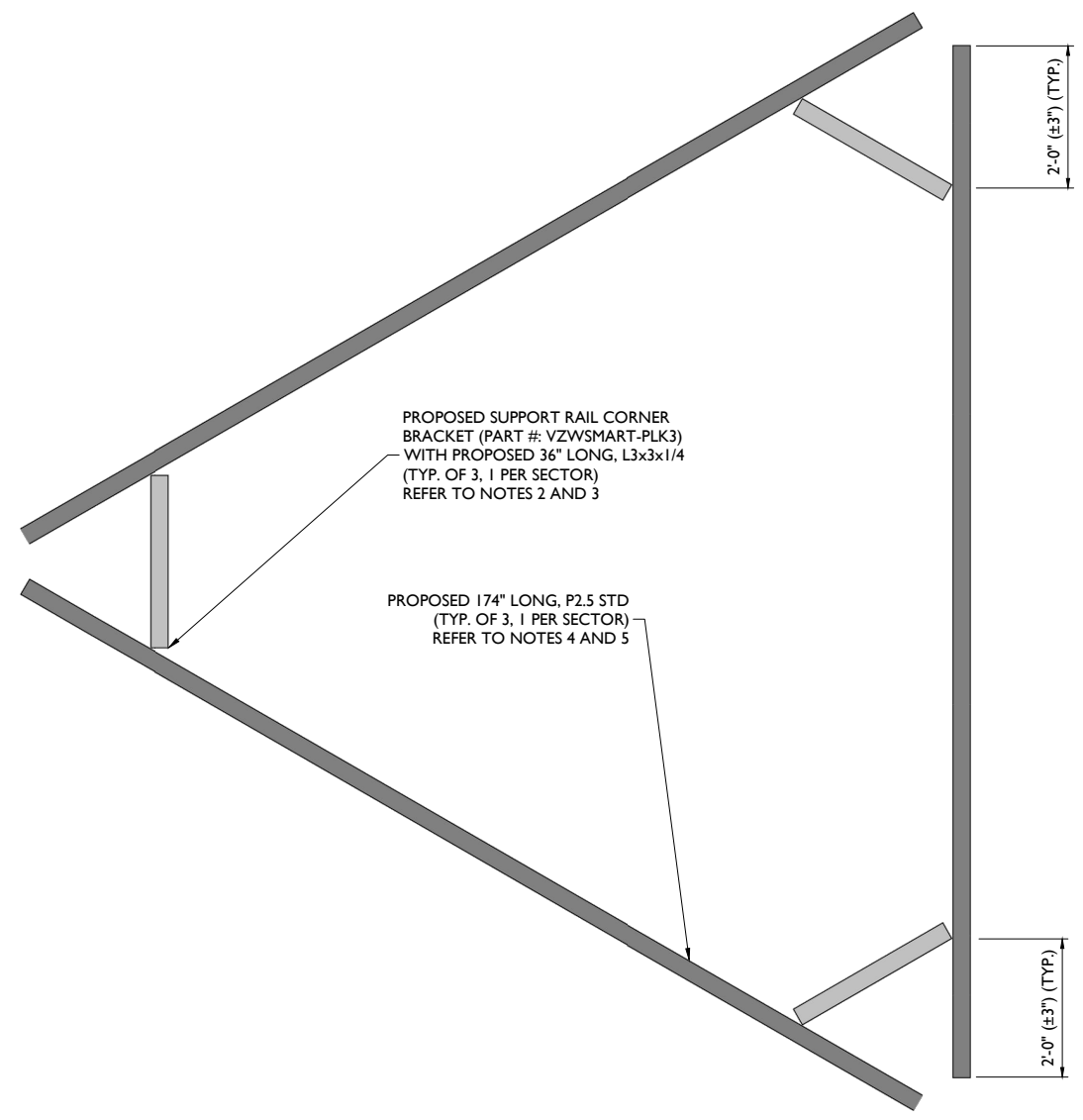
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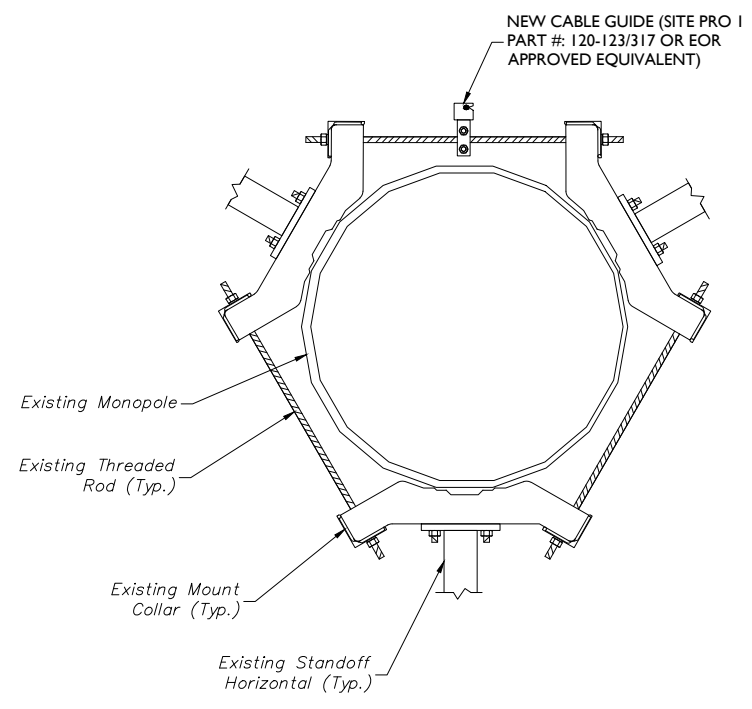
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1 PROPOSED FRONT ELEVATION (GAMMA SECTOR)
SCALE : N.T.S.



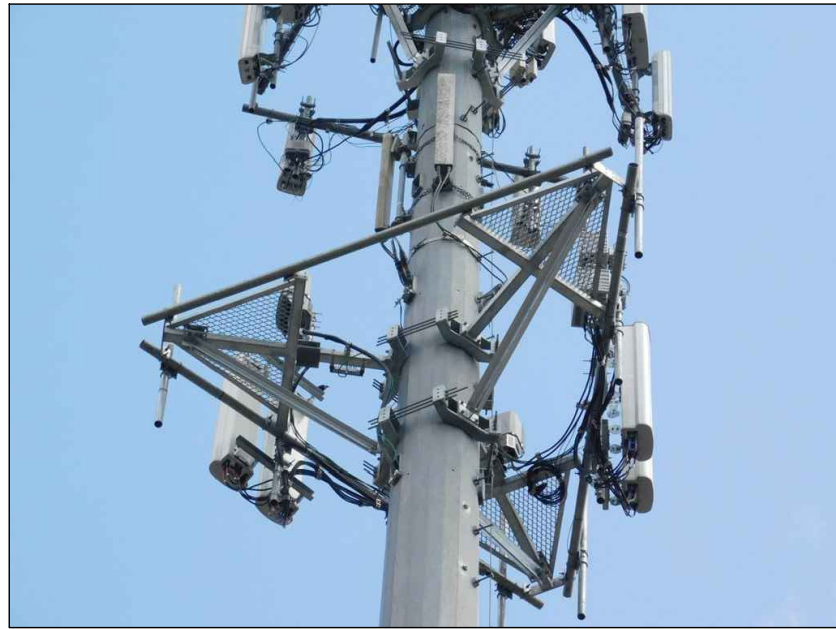
2 PROPOSED PLAN VIEW - SUPPORT RAIL
SCALE : N.T.S.



3 PROPOSED CABLE GUIDE THREADED ROD ATTACHMENT - PLAN VIEW
SCALE : N.T.S.

MODIFICATION NOTES:

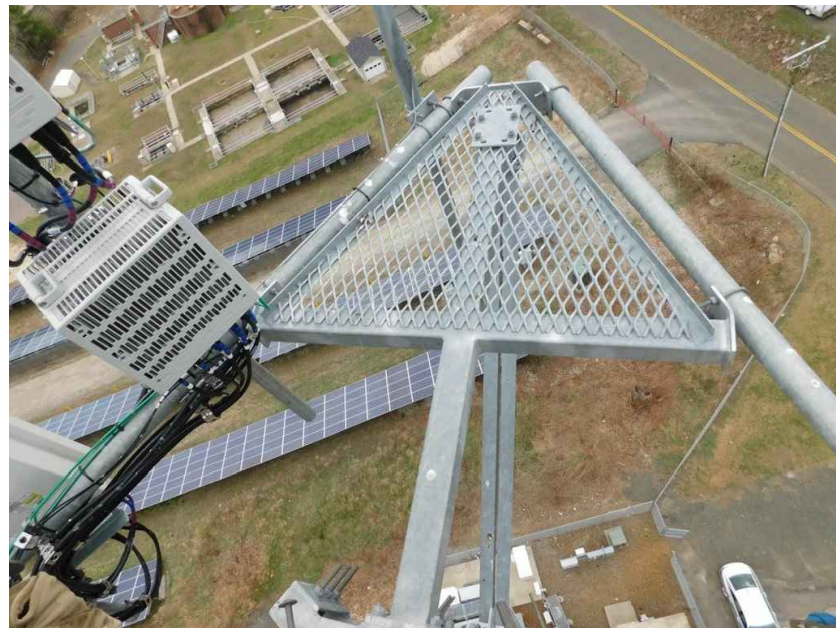
- MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
- CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
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- CONNECT NEW HORIZONTAL TO ALL VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).
- CONNECT NEW MOUNT PIPE TO EXISTING HORIZONTAL WITH CROSSOVER PLATES (PART #: VZWSMART-MSK2).



MOUNT PHOTO 1



MOUNT PHOTO 2



MOUNT PHOTO 3



MOUNT PHOTO 4

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- VIRGINIA
- TEXAS
- FLORIDA
- TENNESSEE
- NORTH CAROLINA
- COLORADO
- SOUTH CAROLINA

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811 PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATIONS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE

Know what's below.
Call before you dig.

FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT:
WWW.CALL811.COM

SCALE: AS SHOWN JOB NUMBER: 21777533A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	6/24/2021	ISSUED FOR CONSTRUCTION	JRA	JPL

Justin Linette
REGISTERED PROFESSIONAL ENGINEER
CONNECTIONS LICENSE NUMBER: 31965
MASER CONSULTING CONNECTICUT
C.T. C.O.A. #: JPC0000131

Digitally signed by Justin Pe... Linette
Date: 2021.06.24 15:37:29-04'00'

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:
BEACON FALLS 2 CT - TOWN MONOPOLE
470974

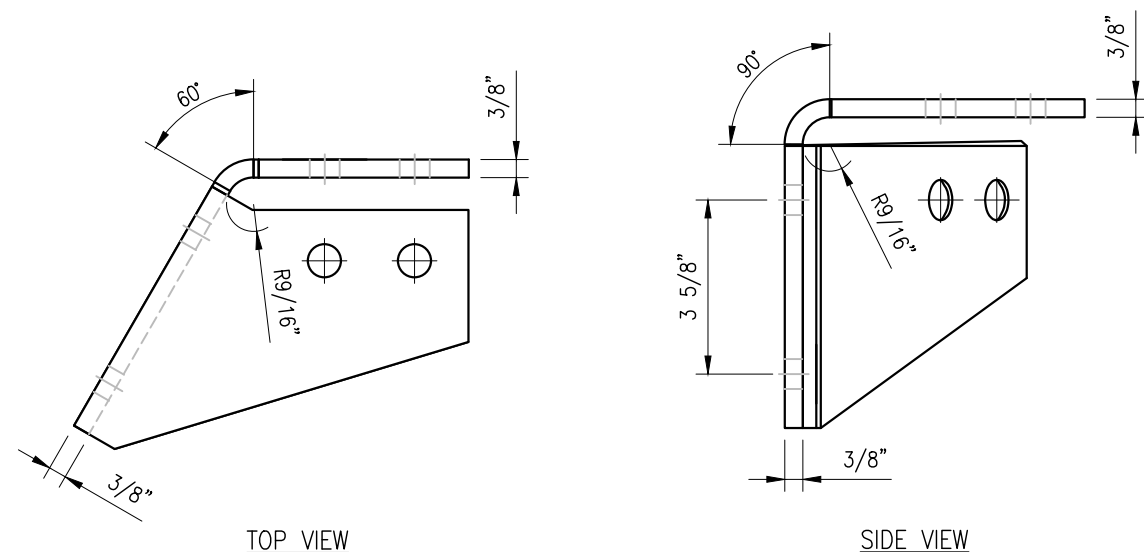
401 LOPUS ROAD
BEACON FALLS, CT 06403
NEW HAVEN COUNTY

MT. LAUREL OFFICE
2000 Madison Drive
Suite 100
Mount Laurel, NJ 08054

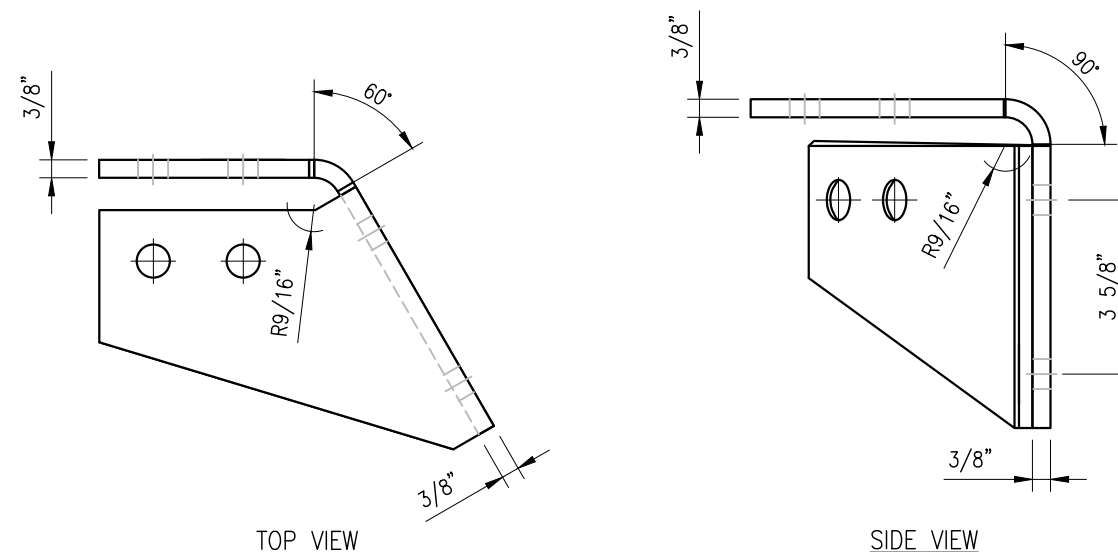
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE:
MOUNT PHOTOS

SHEET NUMBER:
S-6



CBP-L



CBP-R

NOTES:

1. HOT-DIPPED GALVANIZED PER ASTM A123.

VZSMART-PLK3 (SUPPORT RAIL CORNER BRACKET)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	CBP-L	CORNER BENT PLATE BRACKET	PLK3-F1	9
2	1	CBP-R	CORNER BENT PLATE BRACKET	PLK3-F1	9
3	4	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	5
4	8	---	BOLT 5/8" X 2" A325	---	3
5	16	FW-625	5/8" HDG USS FLAT WASHER	---	1
6	16	LW-625	5/8" HDG LOCK WASHER	---	0
7	16	NUT-625	5/8" HDG HEX NUT	---	2
GALVANIZED WT					30

DRAWN BY: H.R. CHECKED BY: HMA

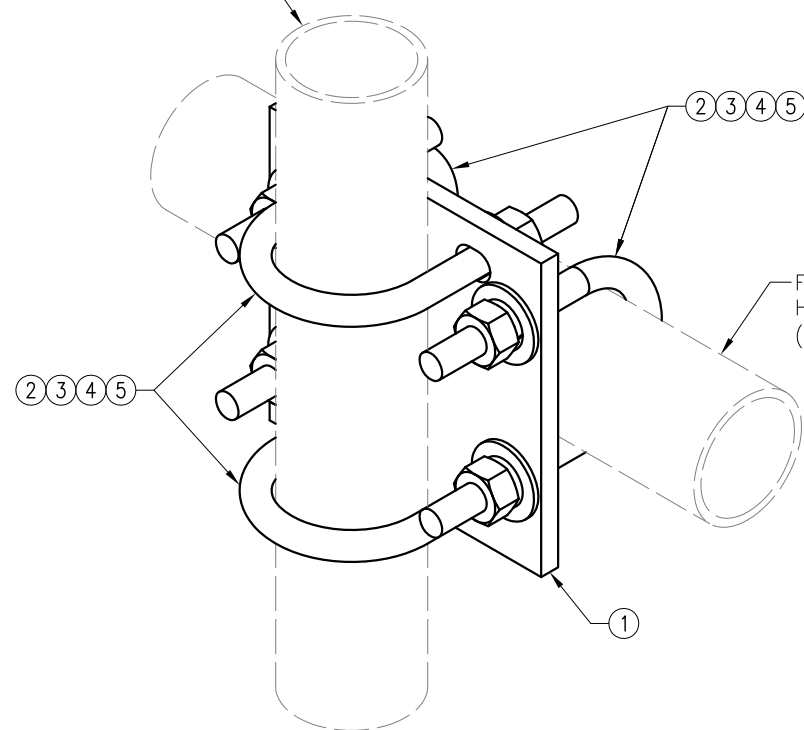
REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	H.R.	05/08/20
△	_____	_____	_____
△	_____	_____	_____
△	_____	_____	_____

SHEET TITLE:
**VZSMART-PLK3
 SUPPORT RAIL CORNER
 BRACKET**

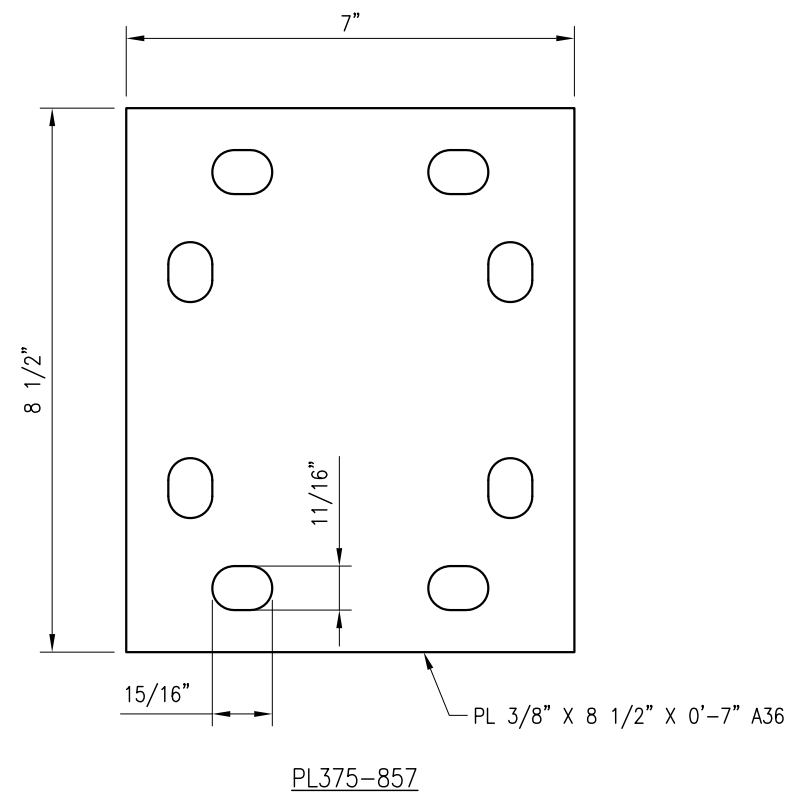
SHEET NUMBER: **VZSMART-PLK3** REV #: **0**



FITS 2.375" O.D. AND 2.875" O.D.
 VERTICAL PIPE.
 (NOT INCLUDED IN THIS KIT)



FITS 2.375" O.D. AND 2.875" O.D.
 HORIZONTAL PIPE.
 (NOT INCLUDED IN THIS KIT)



PL375-857

DRAWN BY: H.R. CHECKED BY: HMA

REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	H.R.	05/08/20

SHEET TITLE:

VZSMART-MSK1
 CROSSOVER PLATE

SHEET NUMBER: REV #:

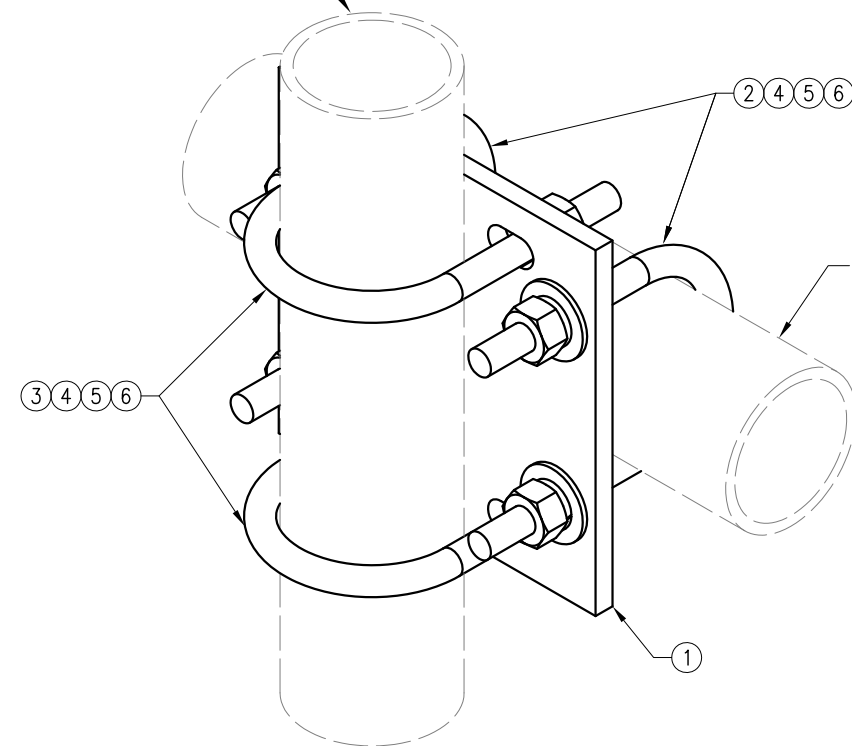
VZSMART-MSK1 0

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

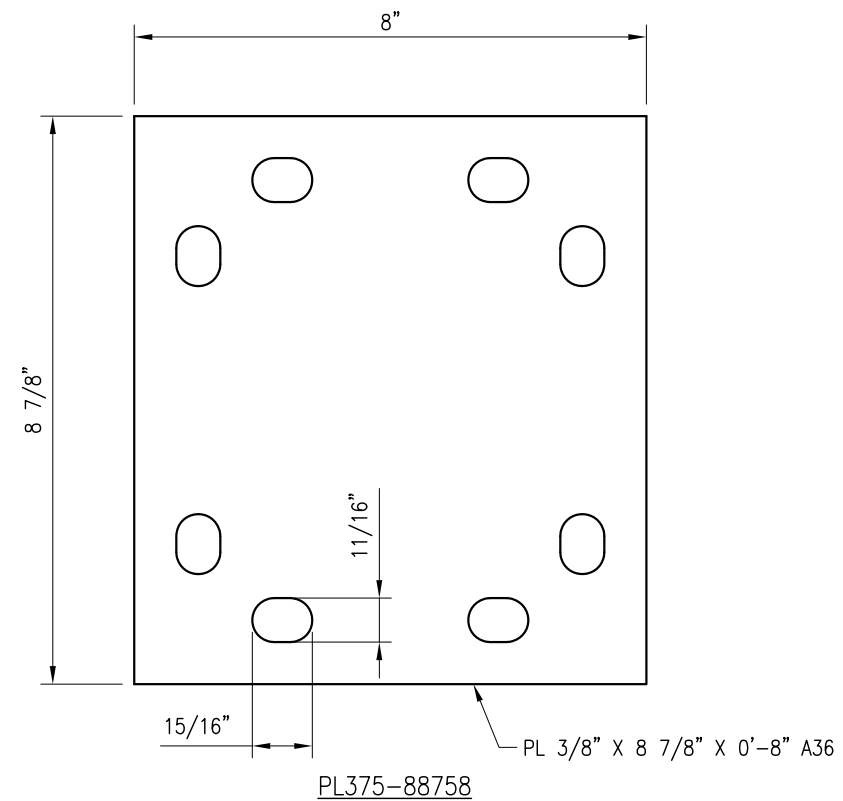
VZSMART-MSK1 (CROSSOVER PLATE)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-857	PL 3/8" X 8 1/2" X 0'-7" A36	MSK1-F1	6
2	4	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	5
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	8	LW-625	5/8" HDG LOCK WASHER	---	0
5	8	NUT-625	5/8" HDG HEX NUT	---	1
GALVANIZED WT					14



FITS 2.375" O.D. AND 2.875" O.D.
 VERTICAL PIPE.
 (NOT INCLUDED IN THIS KIT)



FITS 3.5" O.D. AND 4" O.D.
 HORIZONTAL PIPE.
 (NOT INCLUDED IN THIS KIT)



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

VZSMART-MSK2 (CROSSOVER PLATE)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-88758	PL 3/8" X 8 3/4" X 0'-8" A36	MSK2-F1	8
2	2	MS02-625-4125-600	RU-BOLT 5/8" X 4 1/8" I.W. X 6" I.L. A36 (OR EQUIV.)	RBC-1	3
3	2	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	3
4	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
5	8	LW-625	5/8" HDG LOCK WASHER	---	0
6	8	NUT-625	5/8" HDG HEX NUT	---	1
GALVANIZED WT					15

DRAWN BY: H.R. CHECKED BY: HMA

REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	H.R.	05/08/20

SHEET TITLE:

VZSMART-MSK2
 CROSSOVER PLATE

SHEET NUMBER: REV #:

VZSMART-MSK2 0

Site Name: **BEACON FALLS 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	648	2593	149	0.0042	0.5007	0.84%
VZW CDMA	877.26	2	404	807	149	0.0013	0.5848	0.22%
VZW Cellular	874	4	742	2969	149	0.0048	0.5827	0.83%
VZW PCS	1975	4	1561	6243	149	0.0101	1.0000	1.01%
VZW AWS	2120	4	1528	6112	149	0.0099	1.0000	0.99%
VZW CBAND	3730.08	4	6531	26125	149	0.0423	1.0000	4.23%
Total Percentage of Maximum Permissible Exposure								8.12%

*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

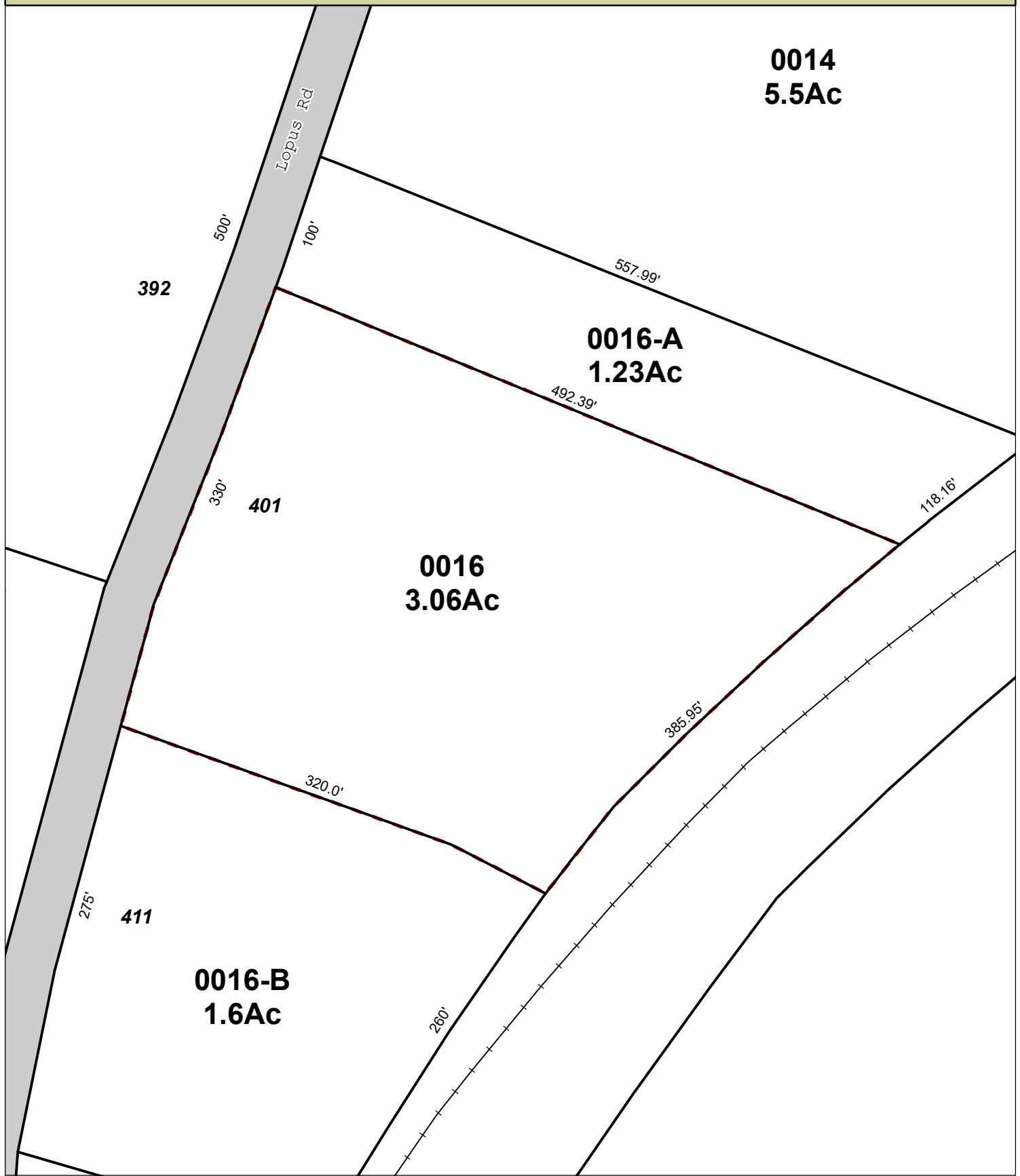
ERP = Effective Radiated Power

Absolute worst case maximum values used.

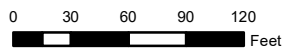
Town of Beacon Falls, Connecticut - Assessment Parcel Map

Parcel: 003-001-0016

Address: 401 LOPUS RD



Approximate Scale: 1 inch = 100 feet



Map Produced May 2021

Disclaimer: This map is for informational purposes only. All information is subject to verification by any user. The Town of Beacon Falls and its mapping contractors assume no legal responsibility for the information contained herein.

GLOBAL TOWER PROPERTIES, LLC
 750 PARK OF COMMERCE BLVD SUITE 300
 BOCA RATON, FL 33487

Neighborhood Number
 300

Neighborhood Name
 General Industrial

TAXING DISTRICT INFORMATION

Jurisdiction Name BEACON FALLS
 Area 006
 Routing Number 003-001-0016

Transfer of Ownership

Owner	Consideration	Transfer Date	Deed Type	Deed Book/Page
BEACON FALLS TOWN OF	0	10/05/2012	.	.

Site Description

Topography
 Level

Public Utilities
 Electric

Street or Road
 Paved

Neighborhood
 Static

Zoning:
 IPD

Legal Acres:
 0.0000

Valuation Record

Assessment Year	2012	2016						
Reason for Change	Use Chg	2016 Reval						
2016 Market	L 0	0						
	I 250000	275000						
	T 250000	275000						
70% Assessed	L 0	0						
	I 175000	192500						
	T 175000	192500						

Land Size

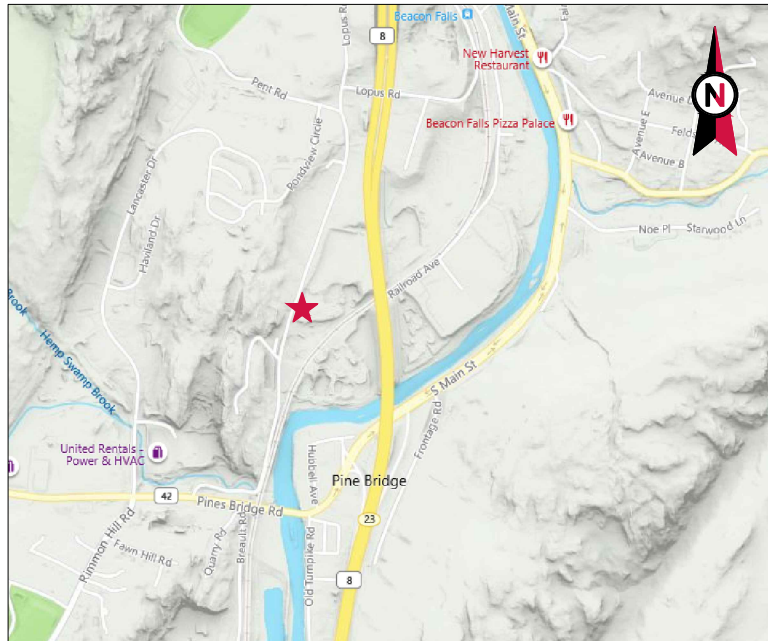
Land Type	Rating, Soil ID - or - Actual Frontage	Acreage - or - Effective Frontage	Square Feet - or - Effective Depth	Influence Factor

Physical Characteristics

01

Special Features	
Description	

Summary of Improvements								
ID	USE	Story Height	Const Type	Grade	Year Cons	Eff Year	Cond	Size or Area
01	TOWERMON	0.00		AVG	2011	2011	AV	160

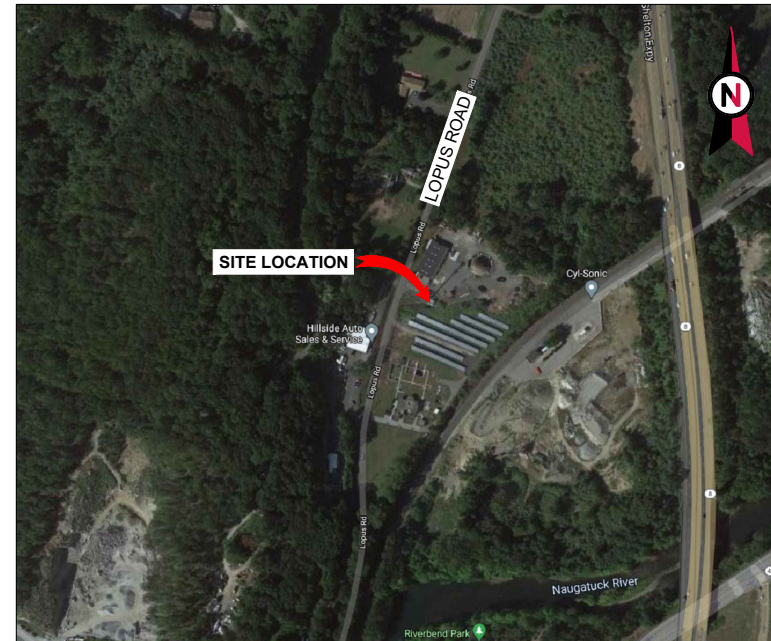


VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: BEACON FALLS CT
 ATC SITE NUMBER: 370641
 VERIZON SITE NAME: BEACON FALLS 2 CT
 VERIZON SITE NUMBER: 470974
 SITE ADDRESS: 401-411 LOPUS ROAD
 BEACON FALLS, CT 06403-0000



LOCATION MAP

**VERIZON
 5G L-SUB6 CARRIER ADD ANTENNA AMENDMENT DRAWINGS**

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX						
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 1. 2018 CONNECTICUT STATE BUILDING CODE-AMENDMENTS TO IBC 2015 2. INTERNATIONAL BUILDING CODE 2015, INTERNATIONAL CODE COUNCIL 3. TIA-222-G-4, STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS 4. ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS 5. STEEL CONSTRUCTION MANUAL 14TH EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION 6. CITY/COUNTY ORDINANCES	<u>SITE ADDRESS:</u> 401-411 LOPUS ROAD BEACON FALLS, CT 06403-0000 COUNTY: NEW HAVEN <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.43283333 LONGITUDE: -73.07022222 GROUND ELEVATION: 159' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: INSTALL (2) ANTENNA(S) AND (2) RRH(S) EXISTING (4) ANTENNA(S), (4) RRH(S), (2) OVP(S) AND (2) 6X12 1-5/8" HYBRID CABLE(S) TO REMAIN	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:		
	<u>PROJECT TEAM</u> <u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801 <u>APPLICANT:</u> VERIZON WIRELESS 118 FLANDERS ROAD WESTBOROUGH, MA 01581 <u>ENGINEER:</u> DEWBERRY ENGINEERS INC. 99 SUMMER STREET SUITE 700 BOSTON, MA 02110 <u>PROPERTY OWNER:</u> GTP NO PAY VENDOR 401-411 LOPUS ROAD BEACON FALLS, CT 06403		<u>PROJECT NOTES</u> 1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED.	G-001	TITLE SHEET	0	07/13/21	BR	
				G-002	GENERAL NOTES	0	07/13/21	BR	
	<u>UTILITY COMPANIES</u> POWER COMPANY: UNKNOWN PHONE: (XXX) XXX-XXXX TELEPHONE COMPANY: UNKNOWN PHONE: (XXX) XXX-XXXX			<u>PROJECT LOCATION DIRECTIONS</u> FROM HAMDEN CT TAKE WILBUR CROSS PARKWAY CT-15 SOUTH TOWARD NEW YORK CITY. TAKE EXIT 59 CT-69 WOODBRIDGE / NEW HAVEN. TURN LEFT ONTO CT-69; TURN LEFT ON LUCY ST; TURN RIGHT ON CT-63 AMITY ROAD; TURN LEFT ON SEYMOUR ROAD CT-67; MERGE ONTO CT-8 NORTH TOWARD WATERBURY; TAKE EXIT 23 CT-42 TO BEACON FALLS / OXFORD; TURN RIGHT ONTO SOUTH MAIN ST CT-42; TURN LEFT ON DEPOT ST; TURN RIGHT ON LOPUS ROAD. SITE IS ON THE LEFT	C-101	DETAILED SITE PLAN	0	07/13/21	BR
					C-201	TOWER ELEVATION	0	07/13/21	BR
					C-401	ANTENNA INFORMATION & SCHEDULE	0	07/13/21	BR
C-501		CONSTRUCTION DETAILS			0	07/13/21	BR		
<u>COMPLIANCE CODE</u>	<u>PROJECT TEAM</u>	<u>PROJECT NOTES</u>	E-501	GROUNDING DETAILS	0	07/13/21	BR		
			R-601	SUPPLEMENTAL					
			R-602	SUPPLEMENTAL					
			MOUNT MODIFICATION DRAWINGS (13 SHEETS)						



Dewberry®
 Dewberry Engineers Inc.
 99 SUMMER STREET
 SUITE 700
 BOSTON, MA 02110
 PHONE: 617.531.0801
 FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
A	PRELIM	MR	06/02/21
0	FINAL	BR	07/13/21

ATC SITE NUMBER:
 370641

 ATC SITE NAME:
 BEACON FALLS CT

 VERIZON SITE NAME:
 BEACON FALLS 2 CT

 SITE ADDRESS:
 401-411 LOPUS ROAD
 BEACON FALLS, CT 06403-0000



DATE DRAWN:	06/02/21
ATC JOB NO:	13668730_D1
CUSTOMER ID:	BEACON FALLS 2 CT
CUSTOMER #:	470974

TITLE SHEET	
SHEET NUMBER: G-001	REVISION: 0



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 ANSI/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/SPLICE 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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 FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
A	PRELIM	MR	06/02/21
0	FINAL	BR	07/13/21

ATC SITE NUMBER:
370641

ATC SITE NAME:
BEACON FALLS CT

VERIZON SITE NAME:
BEACON FALLS 2 CT

SITE ADDRESS:
 401-411 LOPUS ROAD
 BEACON FALLS, CT 06403-0000



DATE DRAWN:	06/02/21
ATC JOB NO:	13668730_D1
CUSTOMER ID:	BEACON FALLS 2 CT
CUSTOMER #:	470974

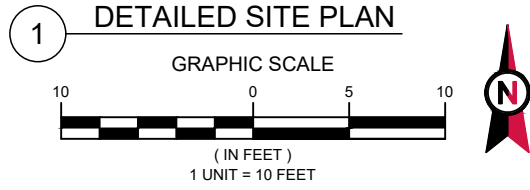
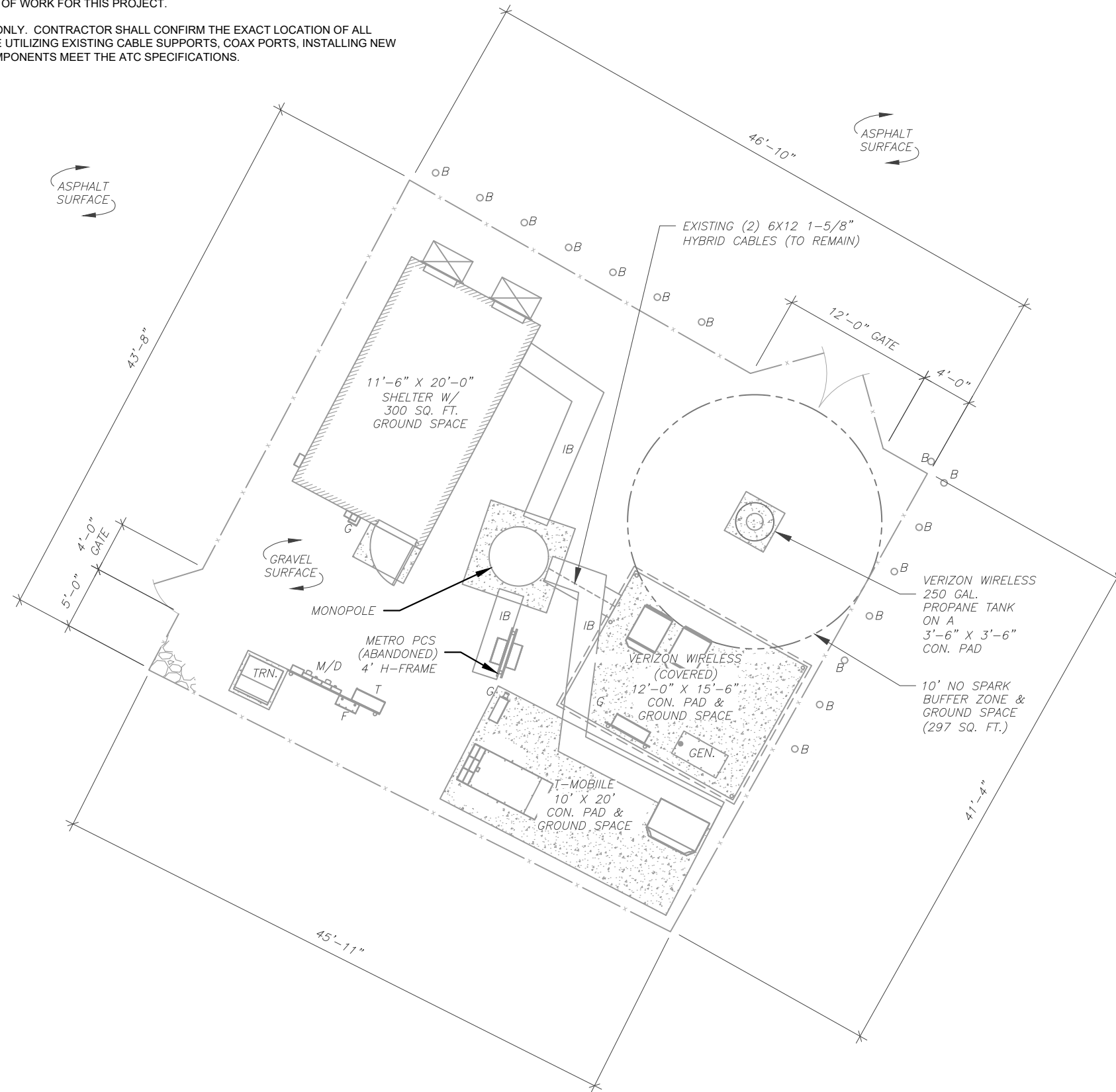
GENERAL NOTES

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



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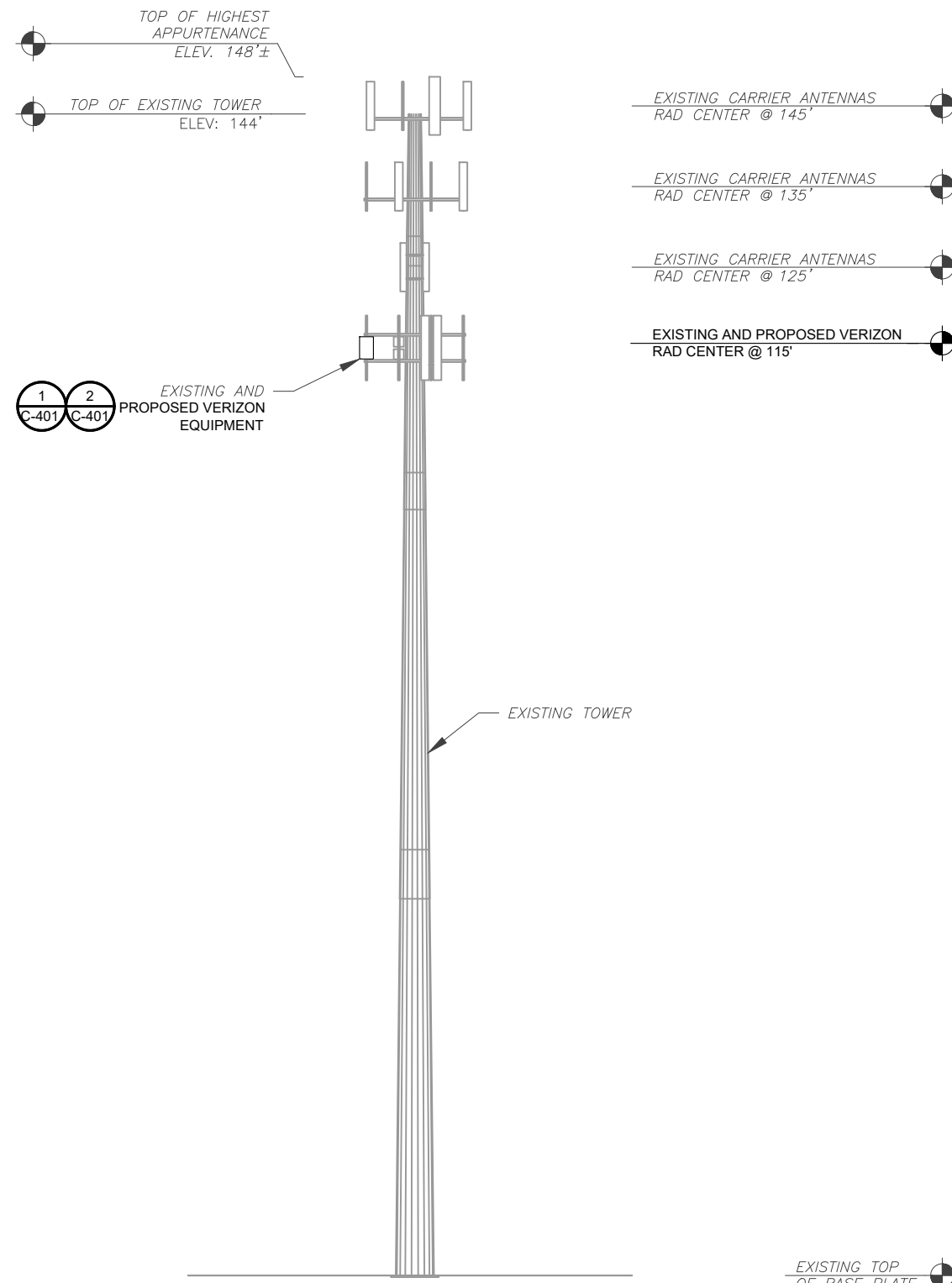


DATE DRAWN:	06/02/21
ATC JOB NO:	13668730_D1
CUSTOMER ID:	BEACON FALLS 2 CT
CUSTOMER #:	470974

DETAILED SITE PLAN

SHEET NUMBER:
C-101

REVISION:
0



PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING, DATED 06/10/2021, 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.
 - 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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DATE DRAWN:	06/02/21
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TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	0



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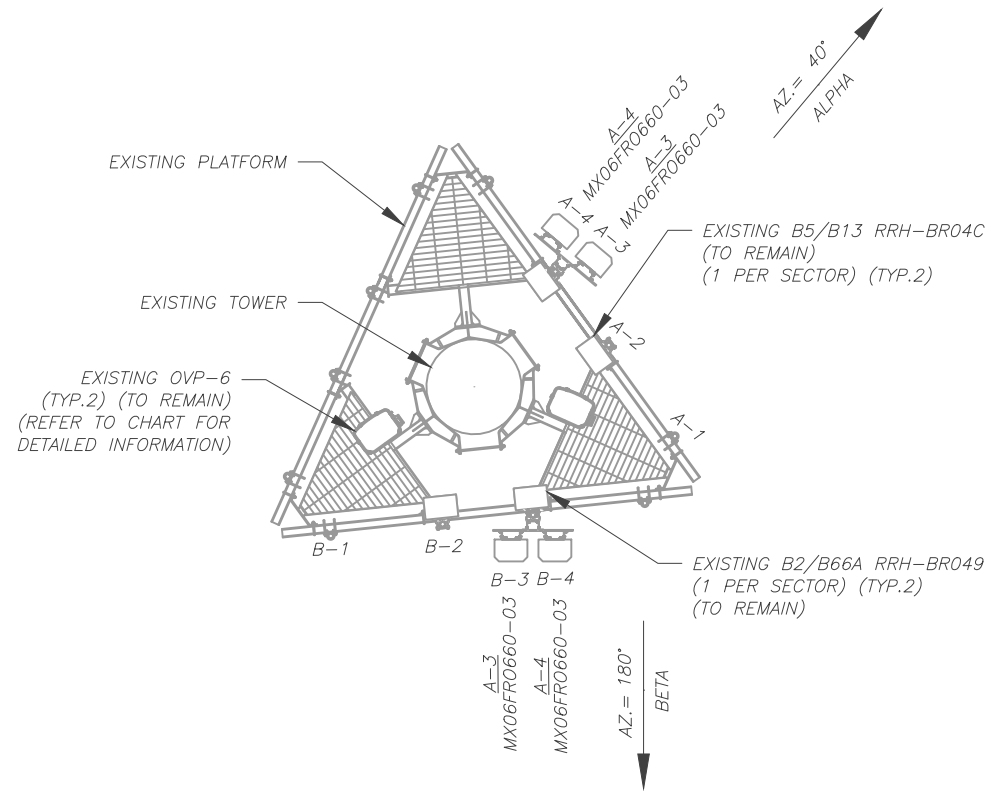


DATE DRAWN:	06/02/21
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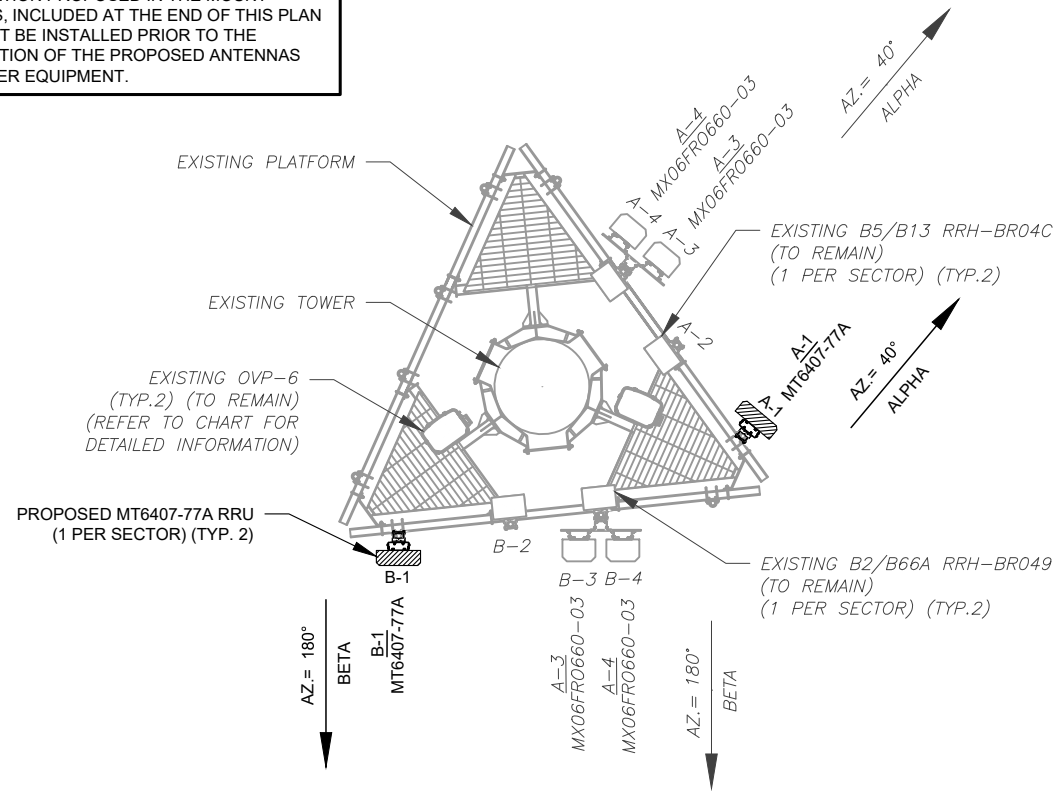
ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:	REVISION:
C-401	0

PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING, DATED 06/10/2021, 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.



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	STATUS
ALPHA	115'	40°	A2	-	-	-	-	B5/B13 RRH-BR04C	RMN
			A3	MX06FRO660-03	700/850/850 5G/1900/AWS	0/2,2,2,0,0	RMN	B2/B66A RRH-BR049	RMN
			A4	MX06FRO660-03	700/850/850 5G/1900/AWS	0/2,2,2,0,0	RMN	-	-
			B2	-	-	-	-	B5/B13 RRH-BR04C	RMN
BETA	115'	180°	B3	MX06FRO660-03	700/850/850 5G/1900/AWS	0/2,2,2,0,0	RMN	B2/B66A RRH-BR049	RMN
			B4	MX06FRO660-03	700/850/850 5G/1900/AWS	0/2,2,2,0,0	RMN	-	-
			B1	MT6407-77A	L-SUB6	0/6	ADD	MT6407-77A	ADD

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	STATUS
ALPHA	115'	40°	A1	MT6407-77A	L-SUB6	0/6	ADD	MT6407-77A	ADD
			A2	-	-	-	-	B5/B13 RRH-BR04C	RMN
			A3	MX06FRO660-03	750/850/850 5G/1900/AWS	0/2,2,2,0,0	RMN	B2/B66A RRH-BR049	RMN
			A4	MX06FRO660-03	750/850/850 5G/1900/AWS	0/2,2,2,0,0	RMN	-	-
BETA	115'	180°	B1	MT6407-77A	L-SUB6	0/6	ADD	MT6407-77A	ADD
			B2	-	-	-	-	B5/B13 RRH-BR04C	RMN
			B3	MX06FRO660-03	750/850/850 5G/1900/AWS	0/2,2,2,0,0	RMN	B2/B66A RRH-BR049	RMN
			B4	MX06FRO660-03	750/850/850 5G/1900/AWS	0/2,2,2,0,0	RMN	-	-

3 EQUIPMENT SCHEDULES

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(2) DB-B1-6C-12AB-0Z	RMN	-	(2) 6X12 1-5/8"	RMN

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(2) DB-B1-6C-12AB-0Z	RMN	-	(2) 6X12 1-5/8"	RMN



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ATC SITE NUMBER:
370641

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SITE ADDRESS:
401-411 LOPUS ROAD
BEACON FALLS, CT 06403-0000

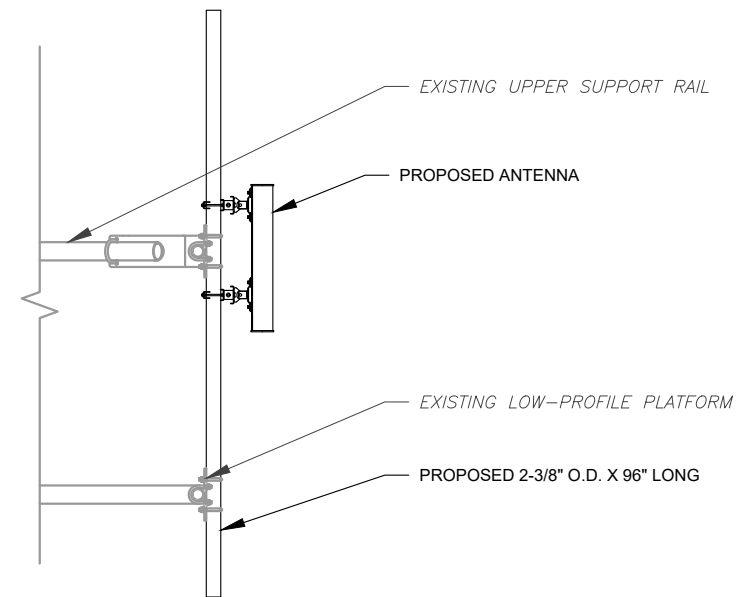
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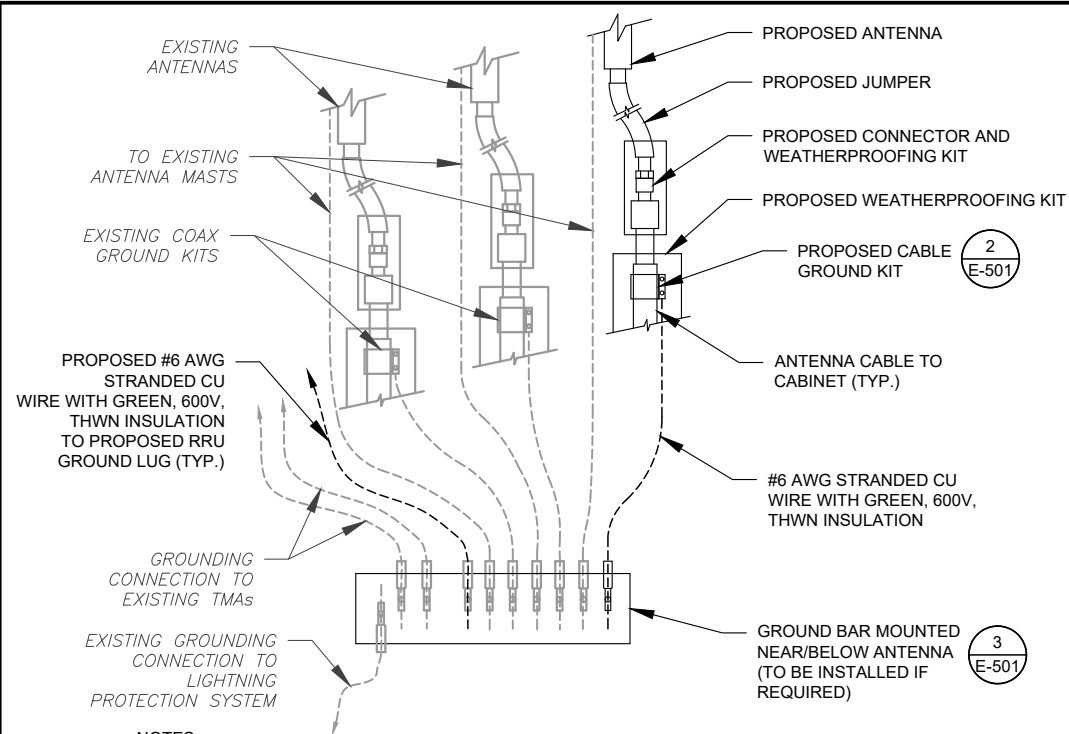
DATE DRAWN:	06/02/21
ATC JOB NO:	13668730_D1
CUSTOMER ID:	BEACON FALLS 2 CT
CUSTOMER #:	470974

CONSTRUCTION
DETAILS

SHEET NUMBER:	REVISION:
C-501	0



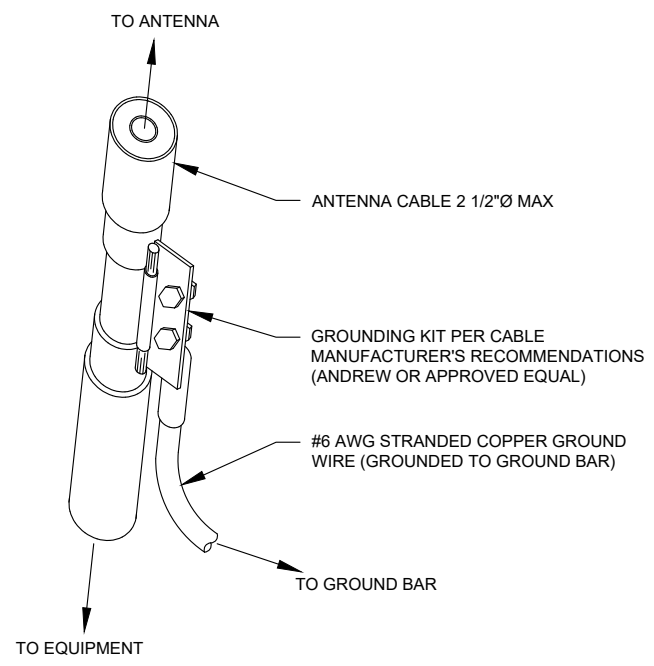
1 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL
 SCALE: N.T.S.



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.

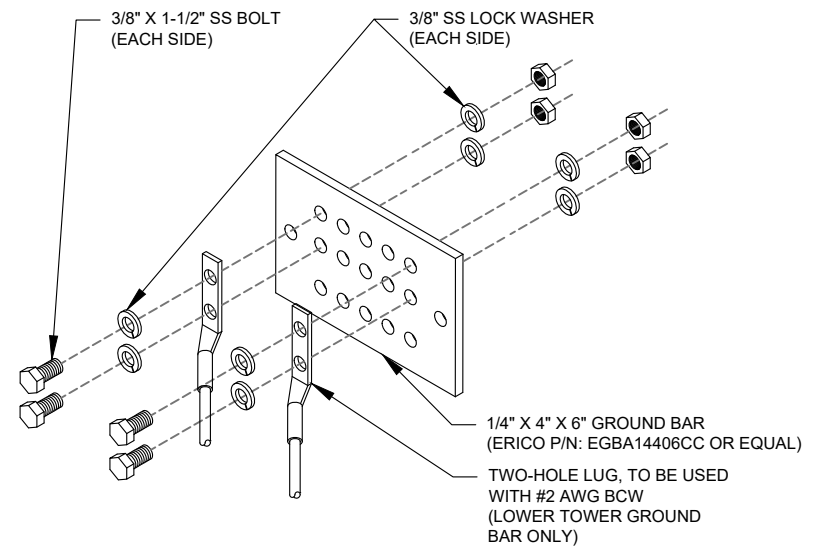
1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.



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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A	PRELIM	MR	06/02/21
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ATC SITE NUMBER:
370641

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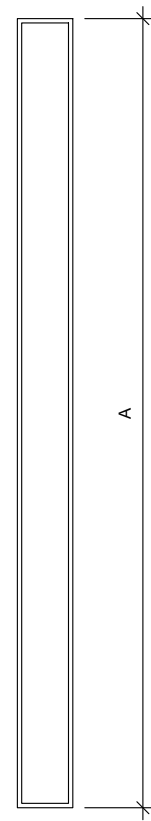
SITE ADDRESS:
401-411 LOPUS ROAD
BEACON FALLS, CT 06403-0000



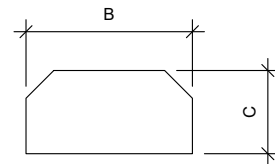
DATE DRAWN:	06/02/21
ATC JOB NO:	13668730_D1
CUSTOMER ID:	BEACON FALLS 2 CT
CUSTOMER #:	470974

GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0



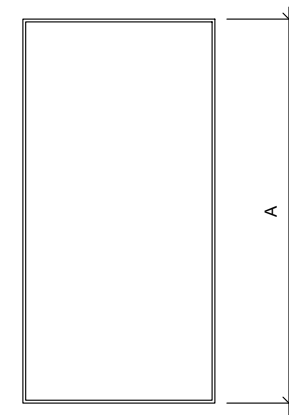
FRONT VIEW



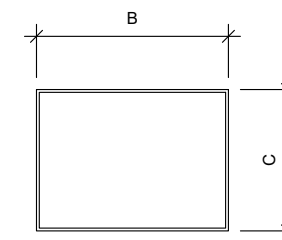
TOP VIEW

1 ANTENNA SPECIFICATIONS
FOR ILLUSTRATIVE PURPOSES ONLY - NOT TO SCALE

ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
MT6407-77A	35.1"	16.1"	5.5"	81.6



FRONT VIEW



TOP VIEW

2 RRU SPECIFICATIONS
FOR ILLUSTRATIVE PURPOSES ONLY - NOT TO SCALE

RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
MT6407-77A	35.1"	16.1"	5.5"	81.6



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CUSTOMER ID:	BEACON FALLS 2 CT
CUSTOMER #:	470974

SUPPLEMENTAL

SHEET NUMBER:
R-601



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 #: 10072488
Maser Consulting Connecticut Project #: 21777520A

June 10, 2021

Site Information

Site ID: 469421-VZW / BEACON FALLS CT
Site Name: BEACON FALLS CT
Carrier Name: Verizon Wireless
Address: 664 Rimmon Hill Rd
Beacon Falls, Connecticut 06483
New Haven County
Latitude: 41.407317°
Longitude: -73.079275°

Structure Information

Tower Type: Monopole
Mount Type: 12.83-Ft Platform

FUZE ID # 16244575

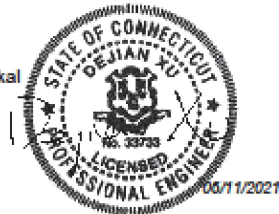
Analysis Results

Platform: 67.3% Pass

**Contractor PMI Requirements:

Included at the end of this MA report
Available & Submitted via portal at <https://pmi.vzsmart.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: Prasanna Dhakal



Mount Post-Modification Analysis Report
(1) 12.83-Ft Platform

June 10, 2021
Site ID: 469421-VZW / BEACON FALLS CT
Page | 4

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. 38)
 - 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 Horizontal	21.3%	Pass
Corner Plate	67.3%	Pass
Connection Plate	13.9%	Pass
Crossmember	7.4%	Pass
Face Horizontal	54.5%	Pass
Mount Pipe	38.4%	Pass
Mod Support Rail	21.6%	Pass
Mod Support Rail Corner	29.5%	Pass
Mod Kicker	12.7%	Pass
Mount Connection (Bolt)	18.2%	Pass
Mount Connection (Plate)	20.3%	Pass
Structure Rating – (Controlling Utilization of all Components)		67.3%

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



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CUSTOMER ID: BEACON FALLS 2 CT
CUSTOMER #: 470974

SUPPLEMENTAL

SHEET NUMBER:
R-602

PROJECT NOTES

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



MOUNT MODIFICATION DRAWINGS EXISTING 12.83' PLATFORM

SITE NAME: BEACON FALLS CT
SITE NUMBER: 469421

664 RIMMON HILL RD
BEACON FALLS, CT 06483
NEW HAVEN COUNTY

PROJECT INFORMATION	
SITE INFORMATION	
LATITUDE:	41.407317° N
LONGITUDE:	73.079275° W
JURISDICTION:	NEW HAVEN 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

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CONTRACTOR PMI REQUIREMENTS	
PMI LOCATION:	HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #:	10072488
VZW LOCATION CODE (PSLC):	469421
FUZE ID:	16244575

REFERENCED DOCUMENTS	
	FAILING MOUNT ANALYSIS REPORT
SMART TOOL PROJECT #:	10050547
MASER CONSULTING PROJECT #:	21777520A
ANALYSIS DATE:	5/20/2021

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

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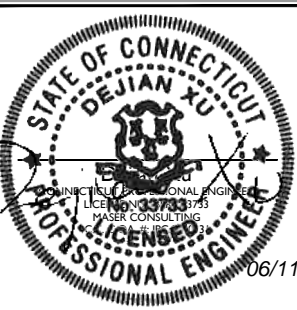
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469421
664 RIMMON HILL RD
BEACON FALLS, CT 06483
NEW HAVEN COUNTY

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

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

BILL OF MATERIALS

VZWSMART KITS				
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
1	VZWSMART	VZWSMART-PLK1	SUPPORT RAIL KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2
1		VZWSMART-PLK5	KICKER KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2
1		VZWSMART-PLK7	MONOPOLE COLLAR MOUNT ASSEMBLY	
3		VZWSMART-MSK1	CROSSOVER PLATE	

OTHER REQUIRED PARTS				
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
3	-	-	96" LONG, P2.5 STD	GALVANIZED
3	-	-	1/2" DIA. U-BOLT	
1	-	-	36" LONG, P2.0 STD	GALVANIZED
1	SITE PRO 1	SQCX4-K	CROSSOVER PLATE KIT W/ SQUARE U-BOLTS AND STD. U-BOLTS	OR EOR APPROVED EQUAL, CONTACT MASER CONSULTING FOR APPROVAL OF SUBSTITUTION

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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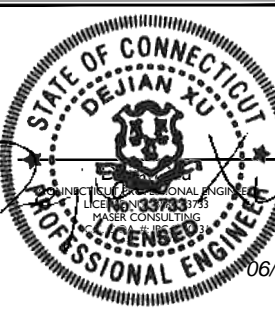
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Fax: 856.722.1120

SHEET TITLE:
BILL OF MATERIALS

SHEET NUMBER:
S-1

GENERAL NOTES

- THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
- CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. 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.
- IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
- ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND 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.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
- WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY 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.
- 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.
- 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.
- CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
- DO NOT SCALE DRAWINGS.
- DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
- 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.
- THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

DESIGN LOADS

- WIND LOADS
- BASIC WIND SPEED (3 SECOND GUST), V = 118 MPH
 - EXPOSURE CATEGORY C
 - TOPOGRAPHIC CATEGORY I
 - MEAN BASE ELEVATION (AMSL) = 420.4'

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

- SEISMIC LOADS
- SEISMIC DESIGN CATEGORY B
 - SHORT TERM MCER GROUND MOTION, S_s = .200
 - LONG TERM MCER GROUND MOTION, S_l = .054

STRUCTURAL STEEL

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

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

- 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.
- PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 - SUBMIT SHOP DRAWINGS TO PETER.ALBANO@COLLIERSENGINEERING.COM
 - PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL
- DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL NEW STEEL SHALL BE HOT 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.
- ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
- WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
- FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
- 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.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- 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.

- 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).
- 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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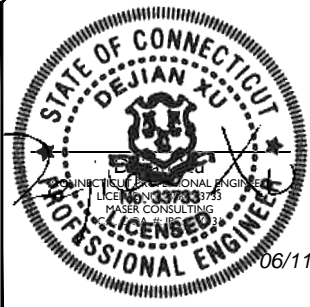


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2000 Millstone Drive
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Mount Laurel, NJ 08054

Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE:
MODIFICATION NOTES

SHEET NUMBER:
S-2

By: BRENDA L. CONNORS

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:

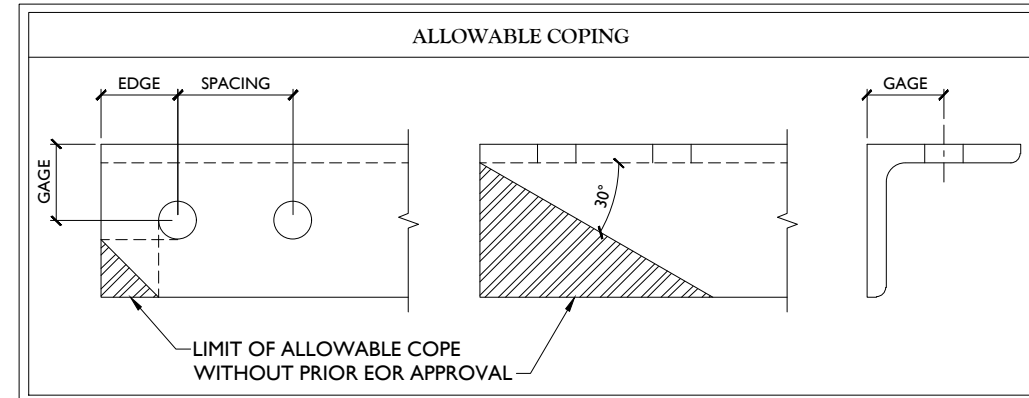
- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.

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:

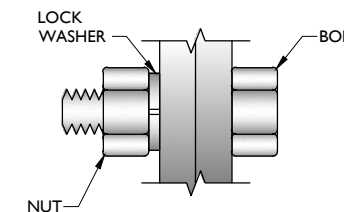
- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
 - RAW MATERIALS
 - PHOTOS OF ALL CRITICAL DETAILS
 - FOUNDATION MODIFICATIONS
 - WELD PREPARATION
 - BOLT INSTALLATION
 - FINAL INSTALLED CONDITION
 - SURFACE COATING REPAIR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

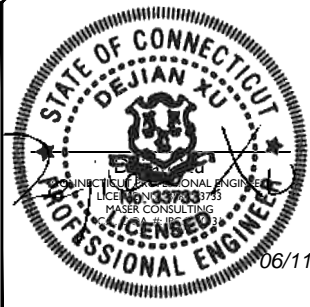
- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
- THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS 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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DATE: 6/11/2021	ISSUED FOR CONSTRUCTION: BPC DX
REV	DATE DESCRIPTION DRAWN BY CHECKED BY



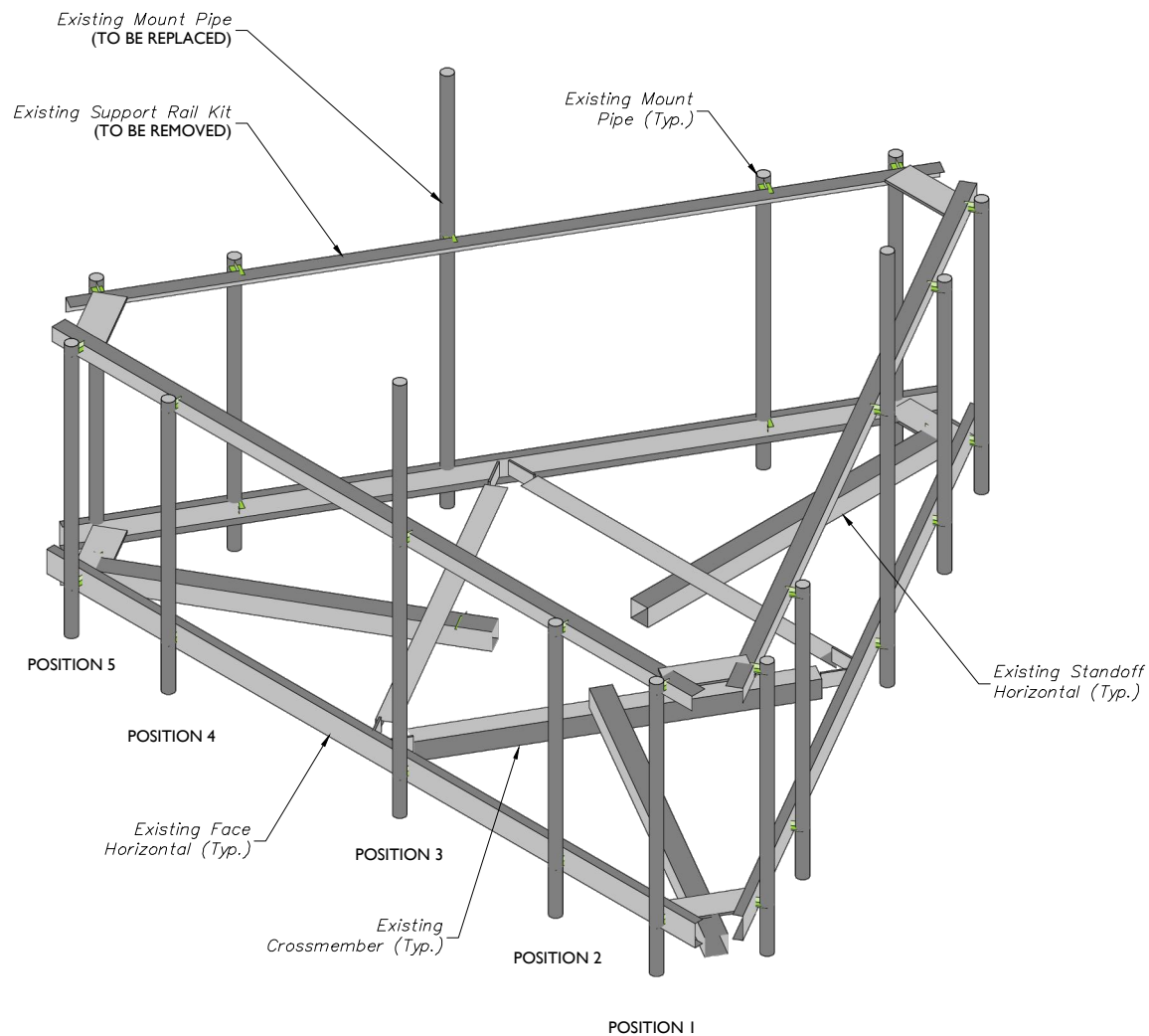
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 NEW HAVEN COUNTY

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

SHEET TITLE: **MODIFICATION NOTES**

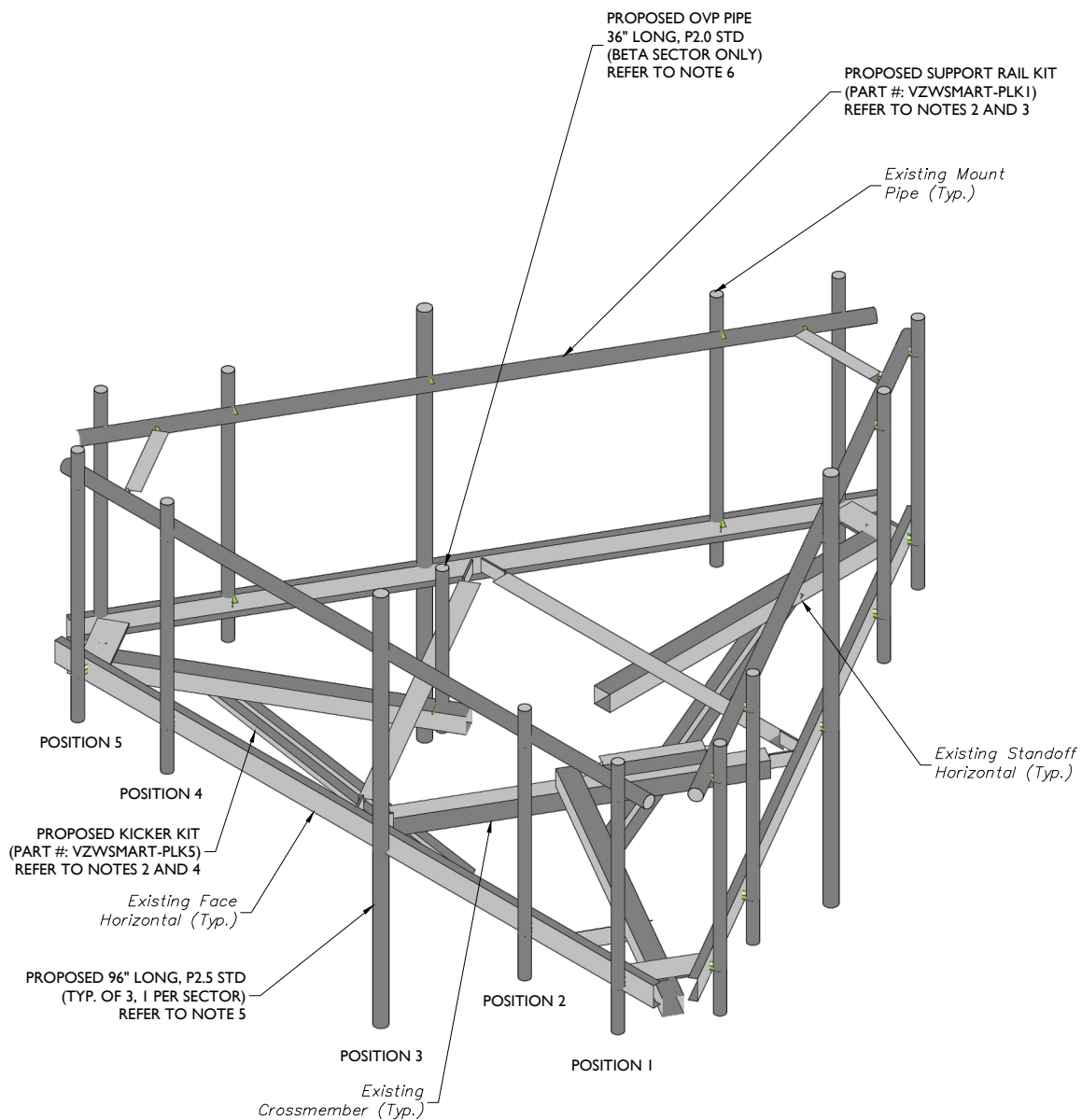
SHEET NUMBER: **S-3**



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

STRUCTURAL NOTES:

- PER THE MOUNT MAPPING COMPLETED BY FDH INFRASTRUCTURE SERVICES ON 4/13/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (147'-0") 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.



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

MODIFICATION NOTES:

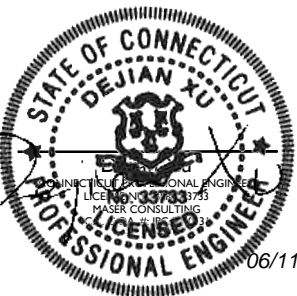
- MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
- CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
- RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
- CONNECT OTHER END OF KICKER KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7).
- CONNECT PROPOSED MOUNT PIPE TO FACE HORIZONTAL USING (1) 1/2" U-BOLT AND CONNECT TO THE SUPPORT RAIL WITH MSK1 CROSSOVER PLATE. CONTRACTOR TO DRILL HOLE ON FACE HORIZONTAL AS NECESSARY.
- CONNECT NEW OVP PIPE TO EXISTING STANDOFF HORIZONTAL WITH CROSSOVER PLATES (SITE PRO 1 PART#: SQCX4-K, OR EOR APPROVED EQUAL, CONTACT MASER CONSULTING FOR APPROVAL OF SUBSTITUTION)

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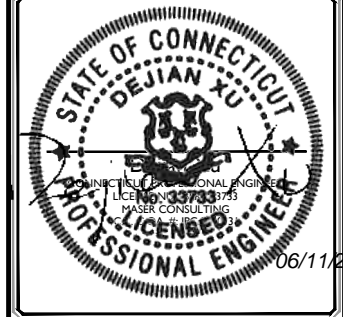
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 2000 Piedmont Drive
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 Fax: 856.722.1120

SHEET TITLE:
MODIFICATION DETAILS
 SHEET NUMBER:
S-4



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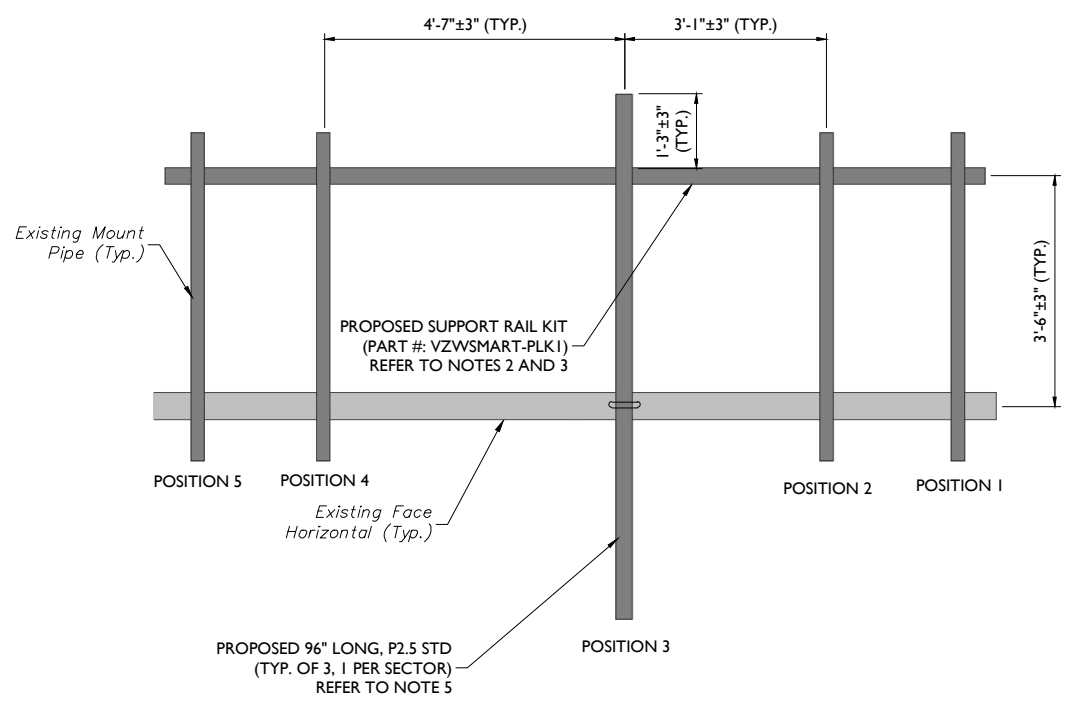
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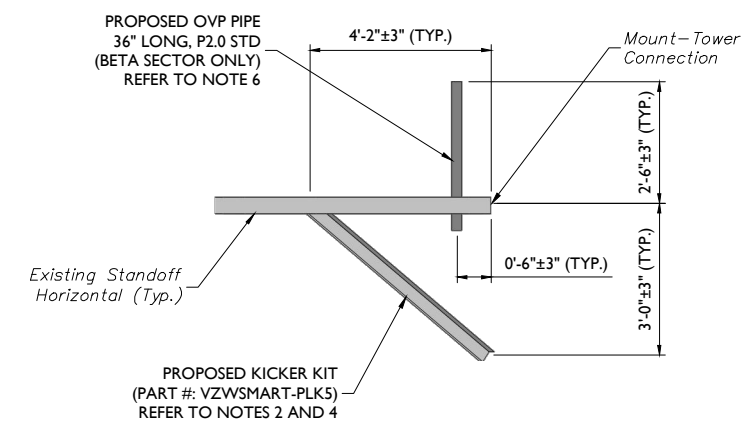
MT. LAUREL OFFICE
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 Phone: 856.797.0412
 Fax: 856.722.1120

SHEET TITLE:
MODIFICATION DETAILS

SHEET NUMBER:
S-5



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



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

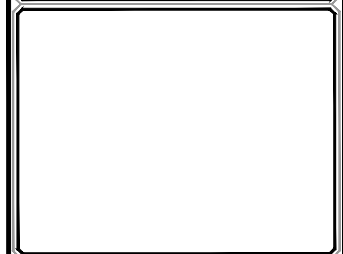
MODIFICATION NOTES:

- 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.
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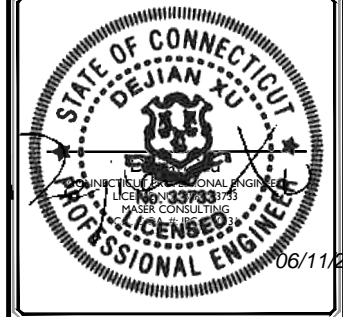
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STATE OF CONNECTICUT	DEJIAN XU
REGISTERED PROFESSIONAL ENGINEER	06/11/2021
LICENSE # 43783-3-03	



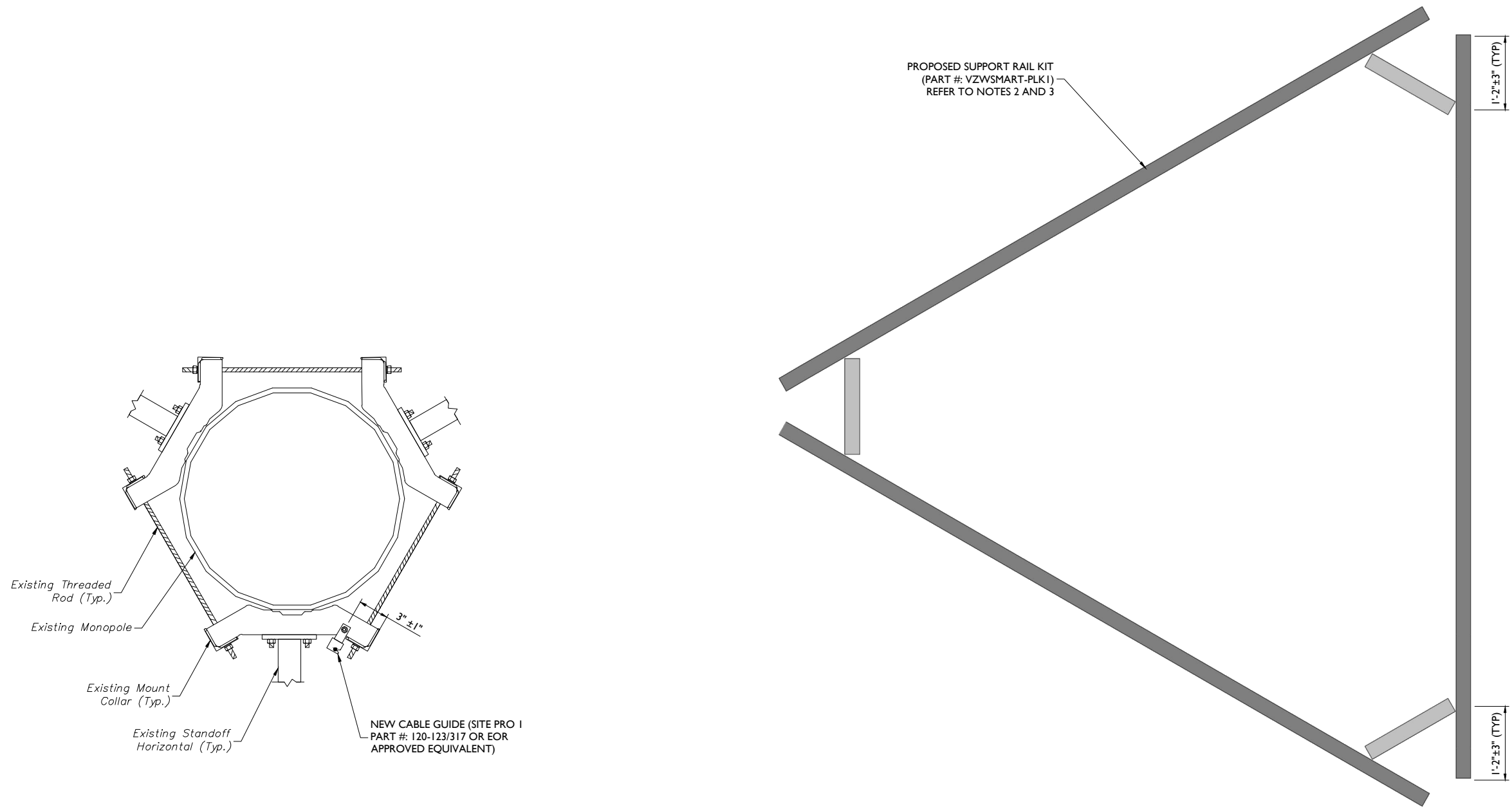
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SHEET TITLE:
MODIFICATION DETAILS

SHEET NUMBER:
S-6

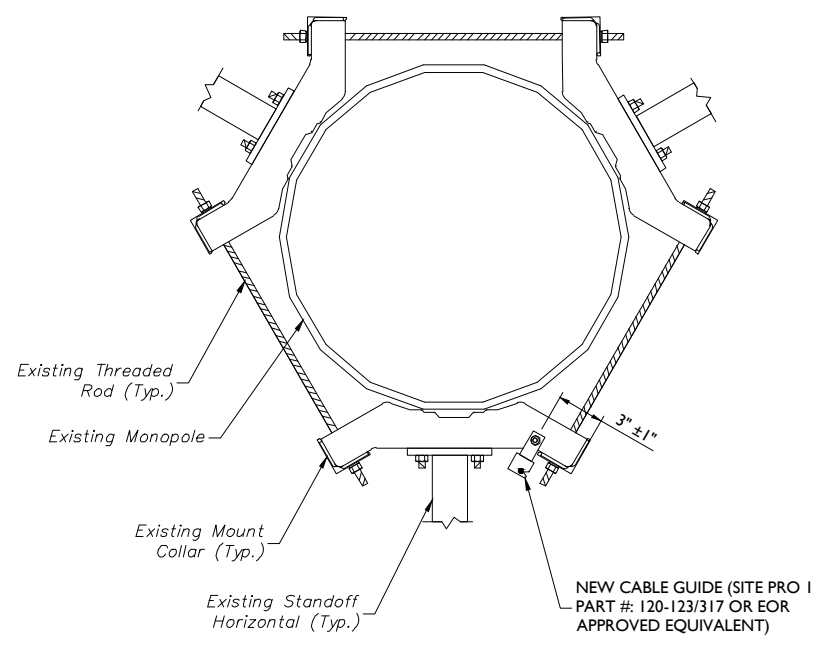


1 PROPOSED COLLAR ATTACHMENT SAFETY CLIMB - PLAN VIEW
 SCALE : N.T.S.

2 PROPOSED FRAME VIEW
 SCALE : N.T.S.

MODIFICATION NOTES:

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PROPOSED SUPPORT RAIL KIT
 (PART #: VZWSMART-PLK1)
 REFER TO NOTES 2 AND 3

1'-2 1/8" (TYP)

1'-2 1/8" (TYP)



MOUNT PHOTO 1



MOUNT PHOTO 2



MOUNT PHOTO 3



MOUNT PHOTO 4

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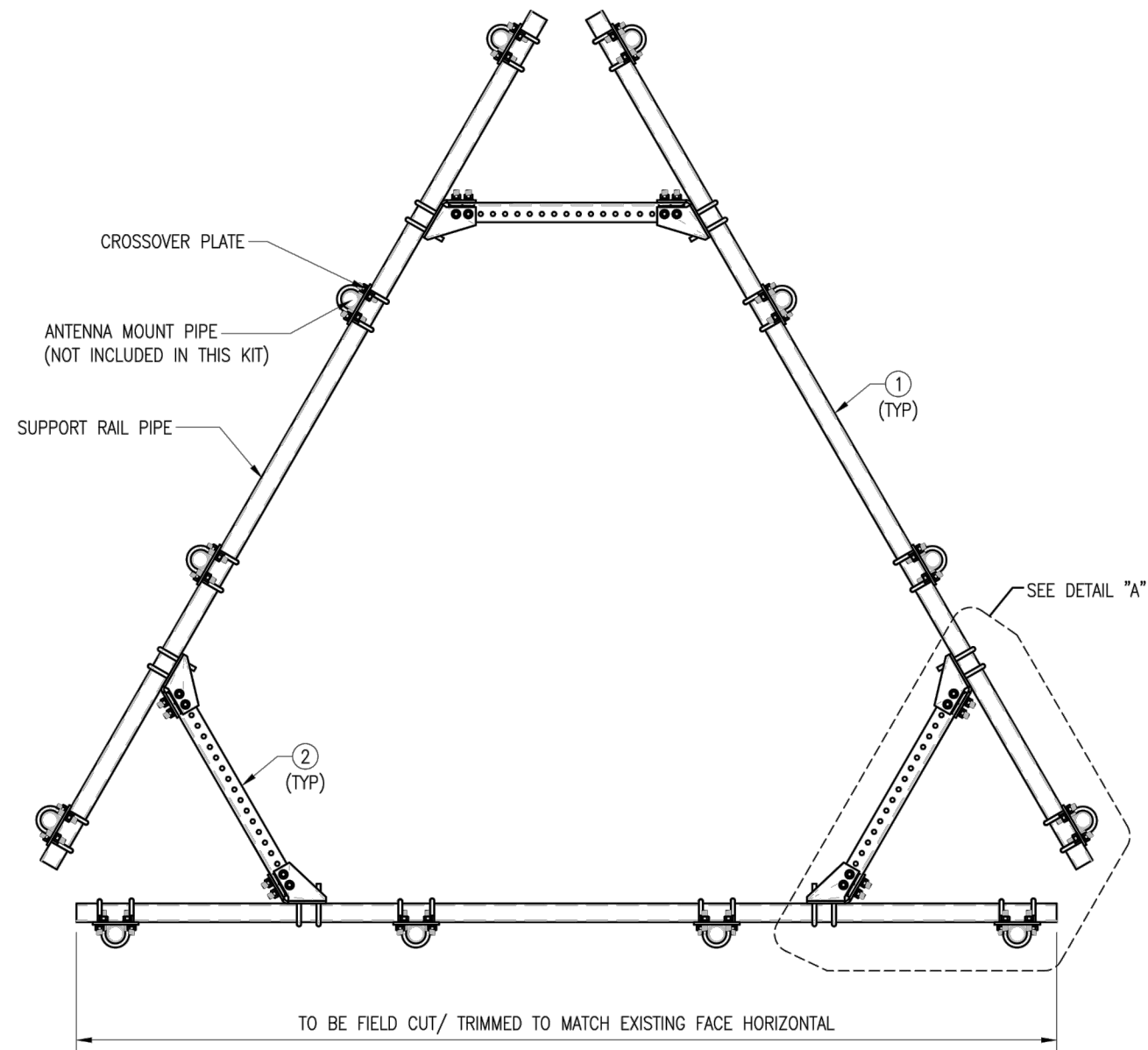
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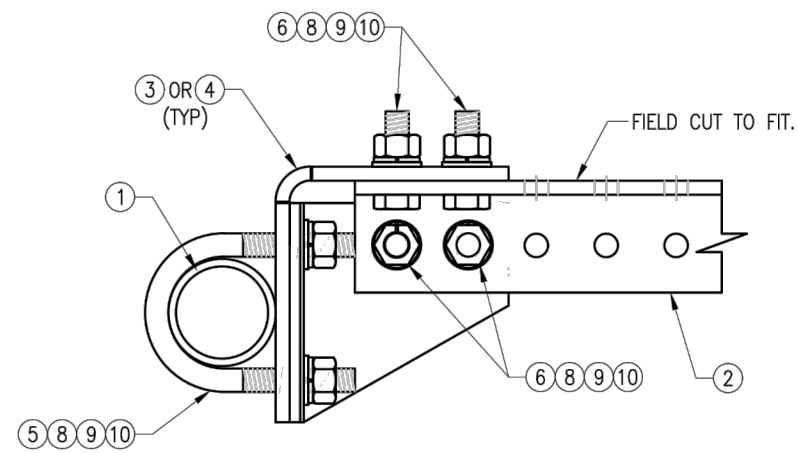
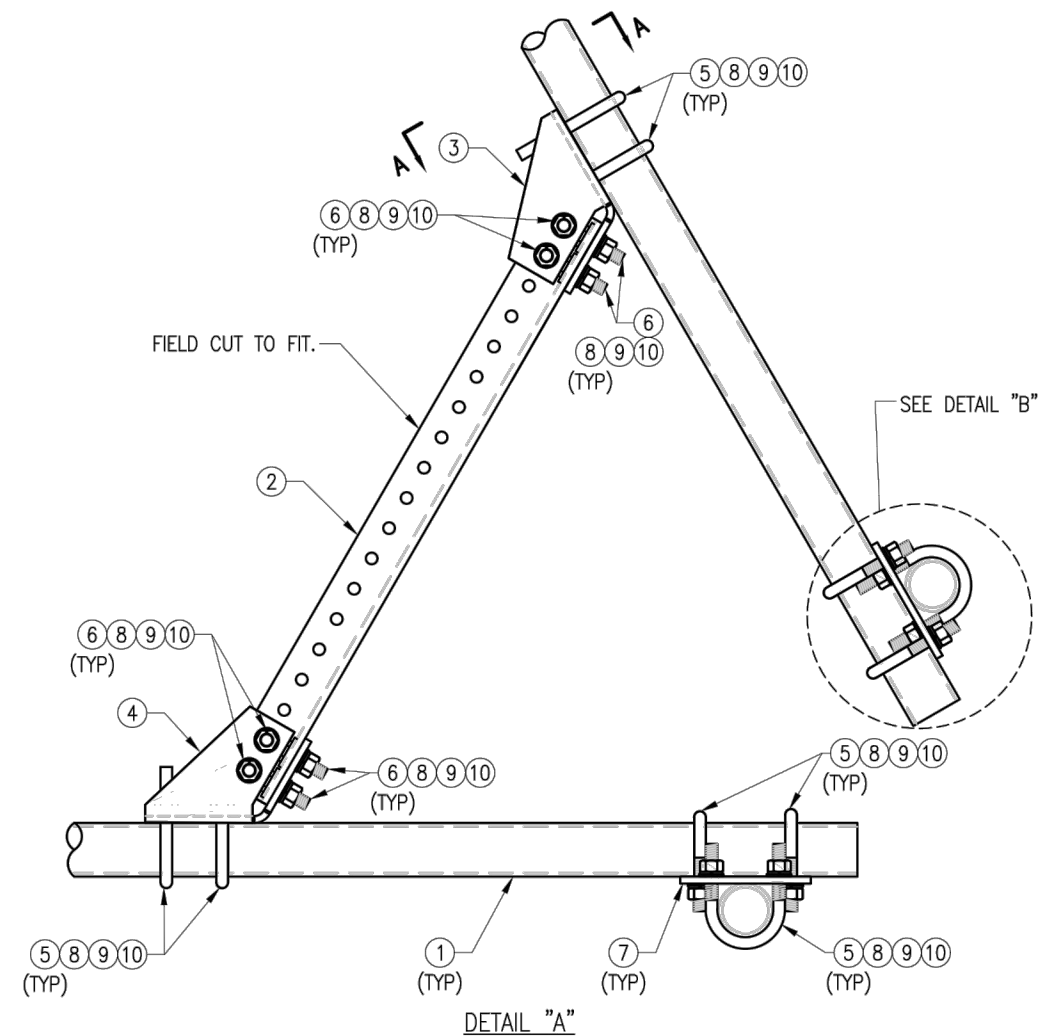
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SHEET TITLE:
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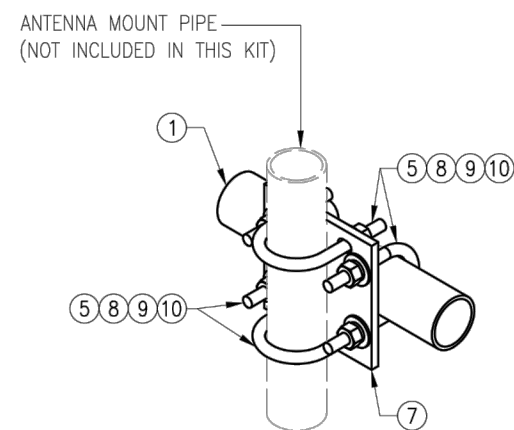
SHEET NUMBER:
 S-7



PLAN VIEW



SECTION "A-A"



NOTES:

- HOT-DIPPED GALVANIZED PER ASTM A123.

VZW SMART-PLK1 (SUPPORT RAIL KIT)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	PST2875-12.5	2.5" PST (2.875" O.D. X 0.203" THK.) X 12'-6" A53 GR-B	PLK1-F1	292
2	3	L33375-3	L 3" X 3" X 3/8" X 3'-0" A36	PLK1-F1	66
3	3	CBP-L	CORNER BENT PLATE BRACKET	PLK1-F2	28
4	3	CBP-R	CORNER BENT PLATE BRACKET	PLK1-F2	28
5	60	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	82
6	24	---	BOLT 5/8" X 2" A325	---	9
7	12	PL375-857	PL 3/8" X 8 1/2" X 7'-0" A36	PLK1-F3	77
8	144	FW-625	5/8" HDG USS FLAT WASHER	---	12
9	144	LW-625	5/8" HDG LOCK WASHER	---	3
10	144	NUT-625	5/8" HDG HEX NUT	---	17
GALVANIZED WT					504

DRAWN BY: H.R CHECKED BY: HMA

REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	H.R	05/08/20
△			
△			
△			

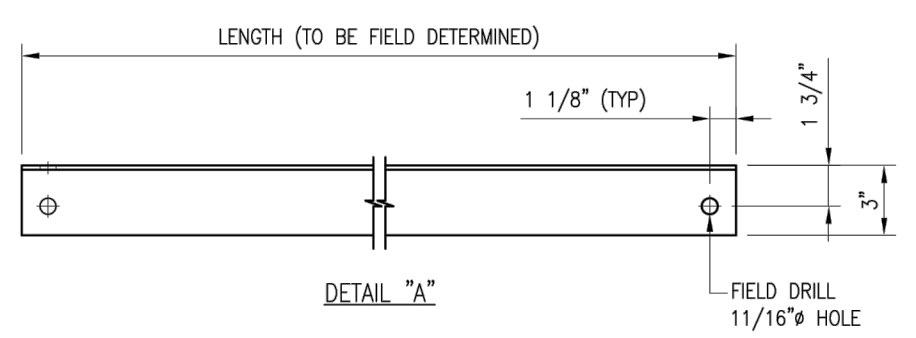
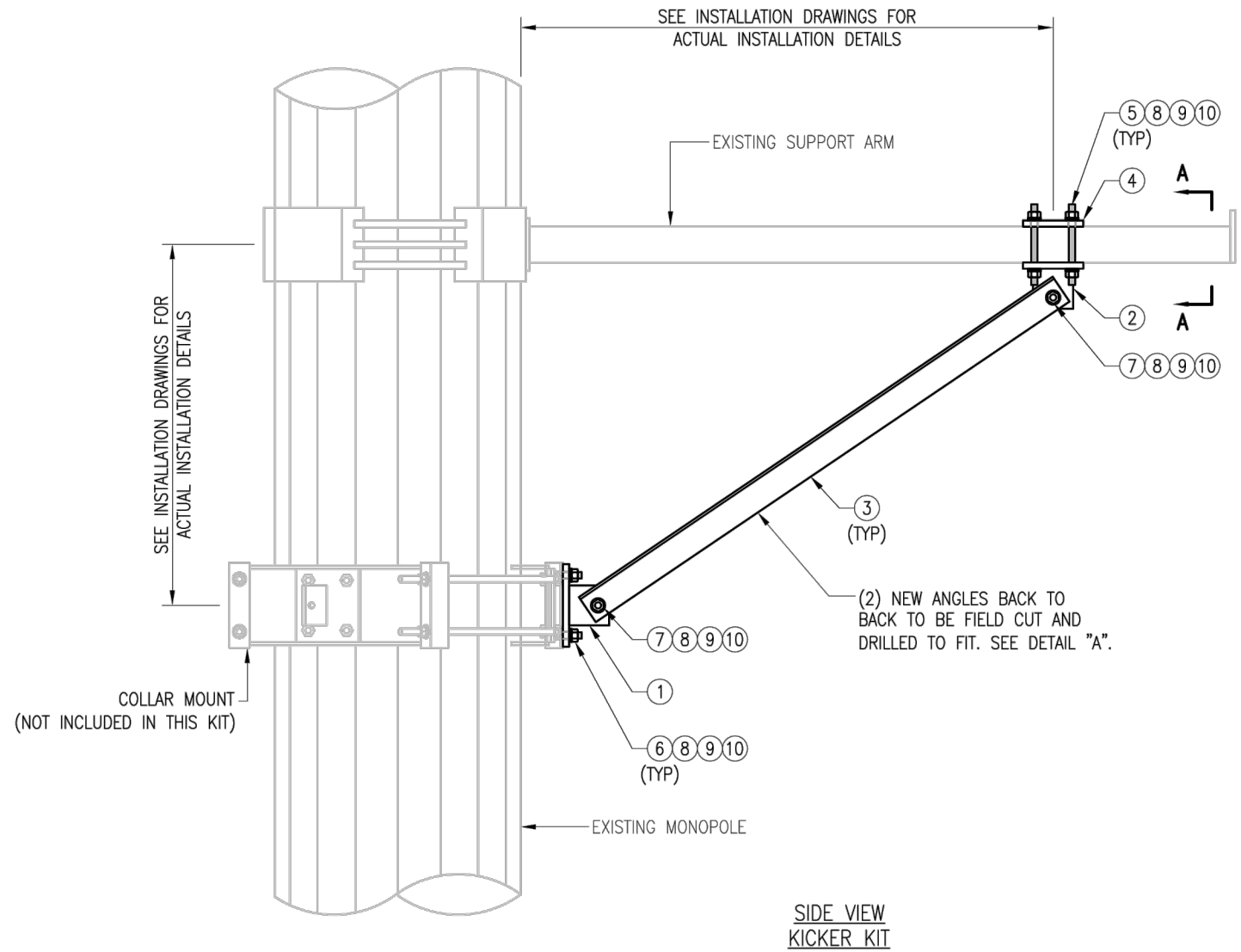
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VZWSMART-PLK1
 SUPPORT RAIL KIT

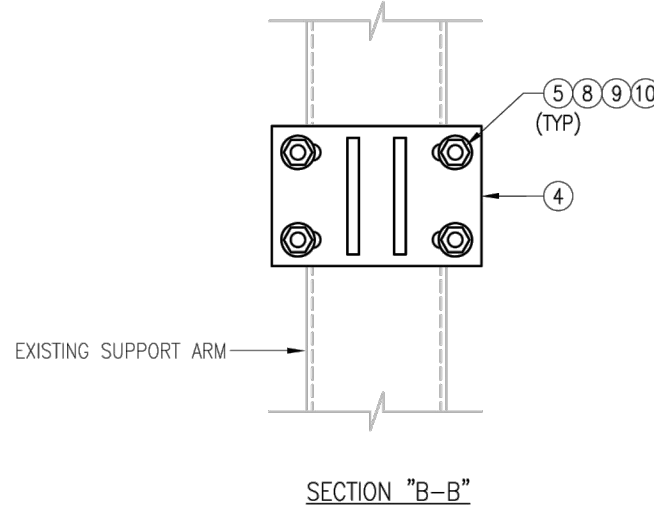
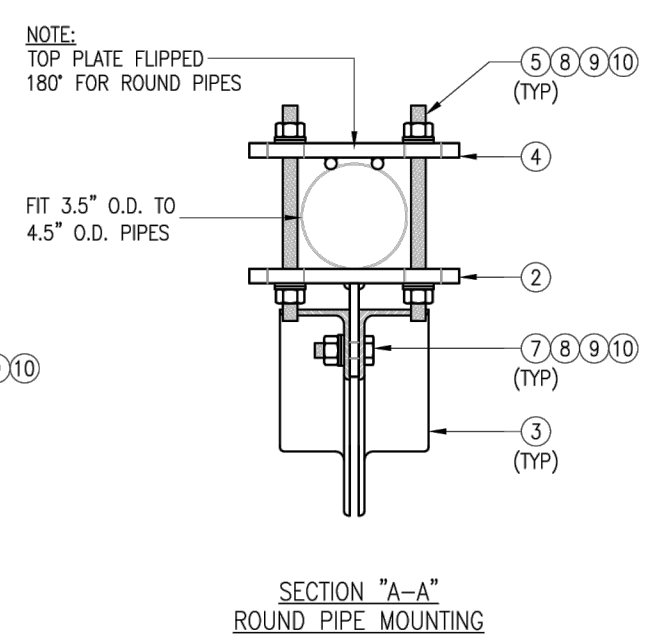
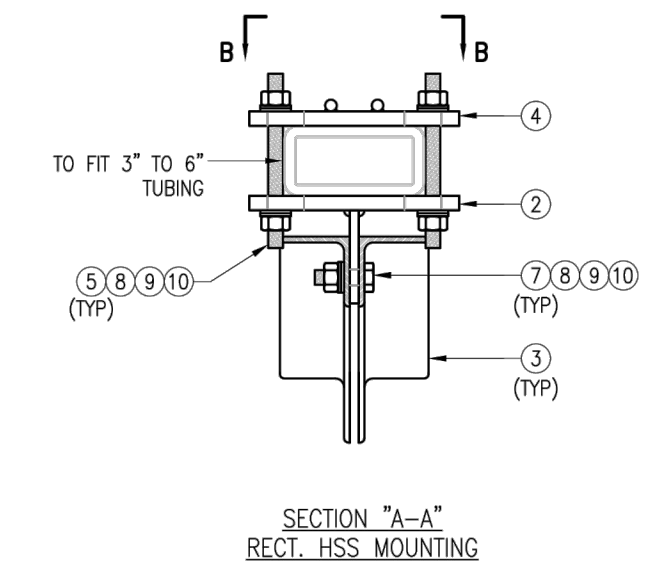
SHEET NUMBER: REV #:

VZWSMART-PLK1 0

NOTE:
THE LOCATION OF KICKER AND EXISTING ANTENNA MOUNT SHOWN ON THE DRAWING IS FOR REPRESENTATION PURPOSE ONLY. SEE INSTALLATION DRAWINGS FOR ACTUAL INSTALLATION OF DETAILS.



NOTES:
1. ALL HOLES ARE 11/16" DIA. U.N.O
2. HOT-DIPPED GALVANIZED PER ASTM A123.
3. FIT UP TO 6" SQ. TUBING OR 4 1/2" O.D. PIPE



VZSMART-PLK5 (KICKER KIT)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	BRKW-XXX	BRACKET WELDMNT A36	PLK5-F3	43.8
2	3	BRKW-XXXX	BRACKET WELDMNT A36	PLK5-F2	35.7
3	6	L331875-8	L 3" X 3" X 3/16" X 8'-0" A36	PLK5-F4	182.9
4	3	PL-KI	PL 5/8" X 6" X 9" A36	PLK5-F1	29.0
5	12	---	THREADED ROD 5/8" DIA. X 1'-0" F1554-36 HDG	---	---
6	6	---	BOLT 5/8" X 2" A325	---	---
7	12	---	BOLT 5/8" X 2 1/2" A325	---	---
8	42	FW-625	5/8" HDG USS FLAT WASHER	---	3
9	42	LW-625	5/8" HDG LOCK WASHER	---	1
10	42	NUT-625	5/8" HDG HEX NUT	---	5
GALVANIZED WT					291

VzW
SMART Tool[®]
Vendor



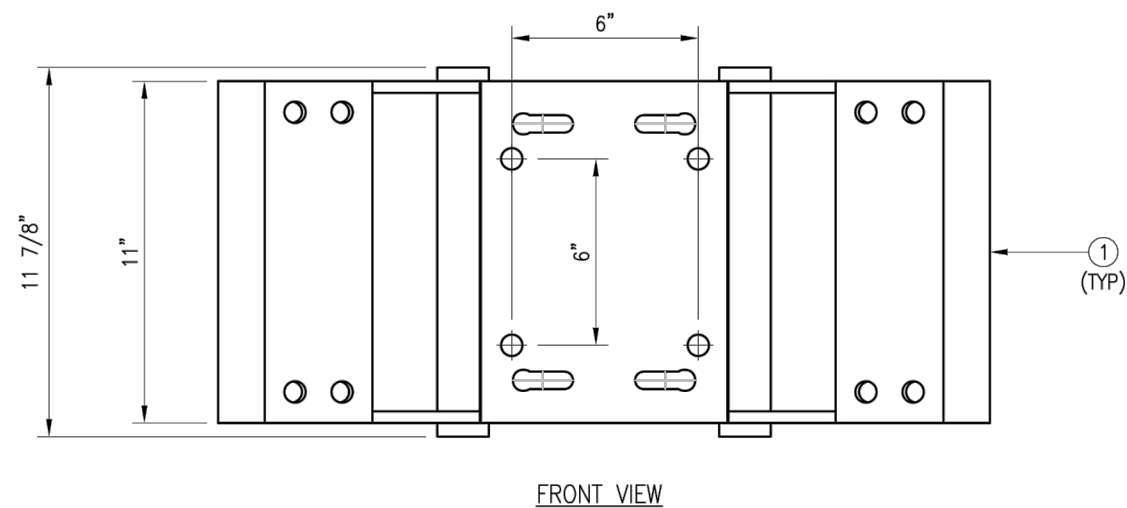
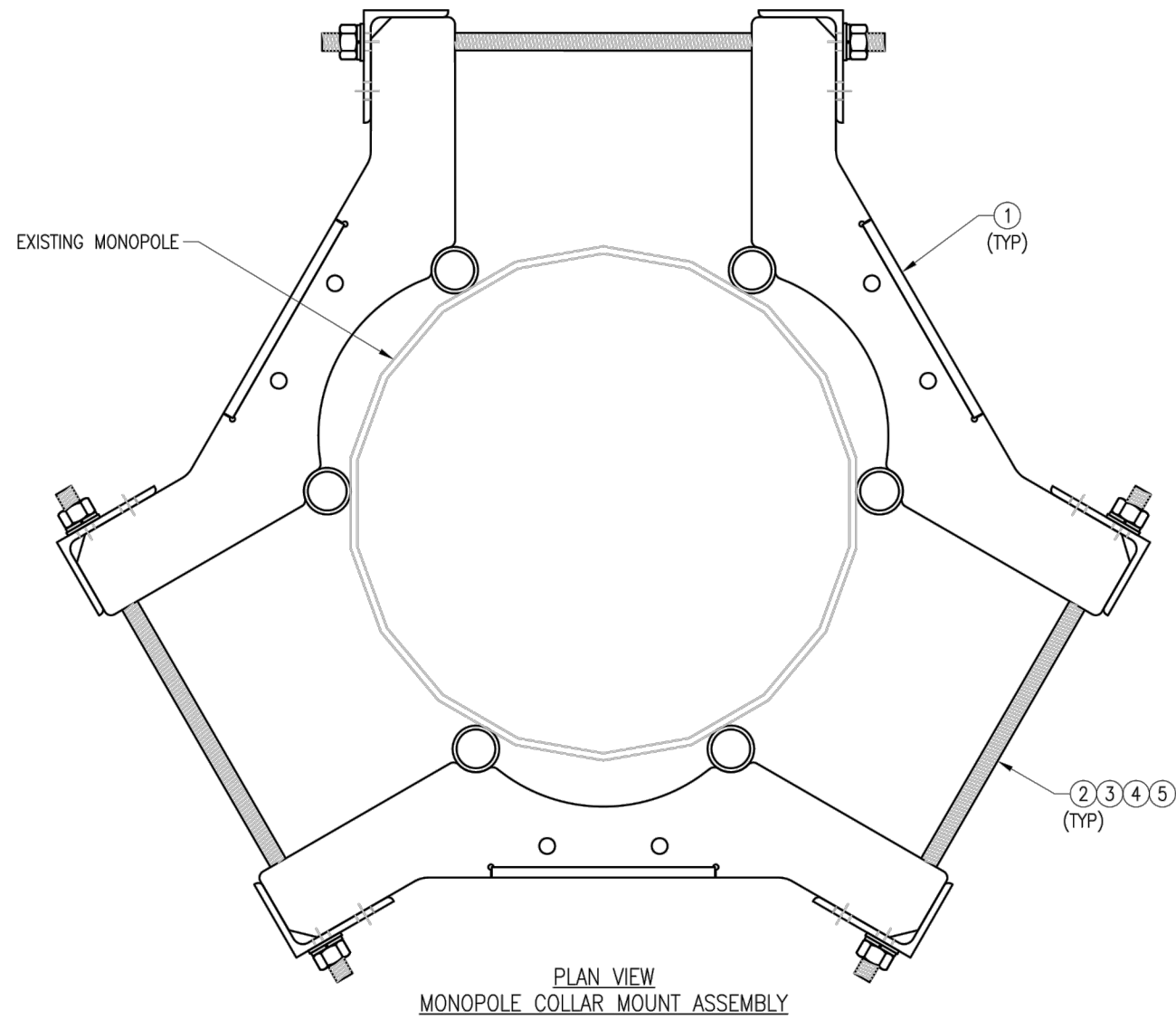
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REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	MN	05/08/20

SHEET TITLE:

VZSMART-PLK5
KICKER KIT

SHEET NUMBER: VZSMART-PLK5 REV #: 0



NOTES:
 1. FIT 12" TO 45" DIA MONOPOLE.
 2. HOT-DIPPED GALVANIZED PER ASTM A123.

VZSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	CM-1245	COLLAR MOUNT ASSEMBLY	PLK7-F1	147
2	6	---	THREADED ROD 5/8" X 4'-0" A193-B7	---	---
3	12	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	12	LW-625	5/8" HDG LOCK WASHER	---	0
5	12	NUT-625	5/8" HDG HEX NUT	---	1
GALVANIZED WT					150

DRAWN BY: BT CHECKED BY: HMA/KW

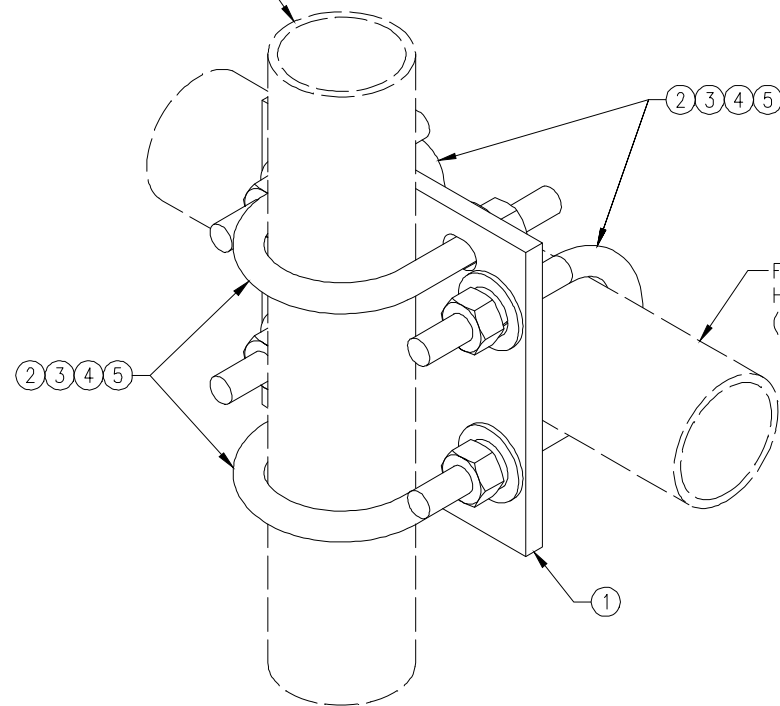
REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	BT	05/11/20

SHEET TITLE:
 VZSMART-PLK7
 MONOPOLE COLLAR
 MOUNT ASSEMBLY

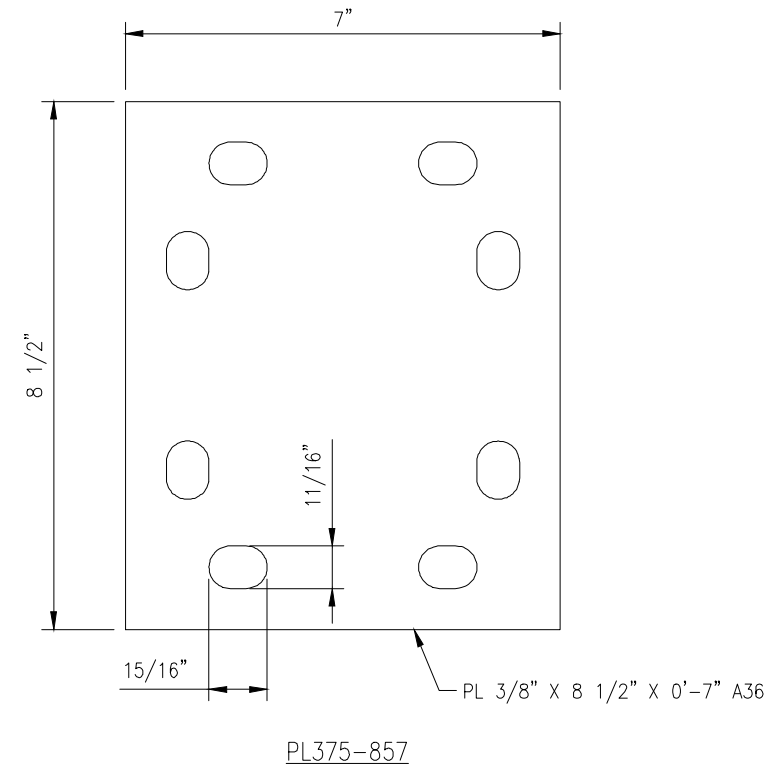
SHEET NUMBER: VZSMART-PLK7 REV #: 0



FITS 2.375" O.D. AND 2.875" O.D.
 VERTICAL PIPE.
 (NOT INCLUDED IN THIS KIT)



FITS 2.375" O.D. AND 2.875" O.D.
 HORIZONTAL PIPE.
 (NOT INCLUDED IN THIS KIT)



PL375-857

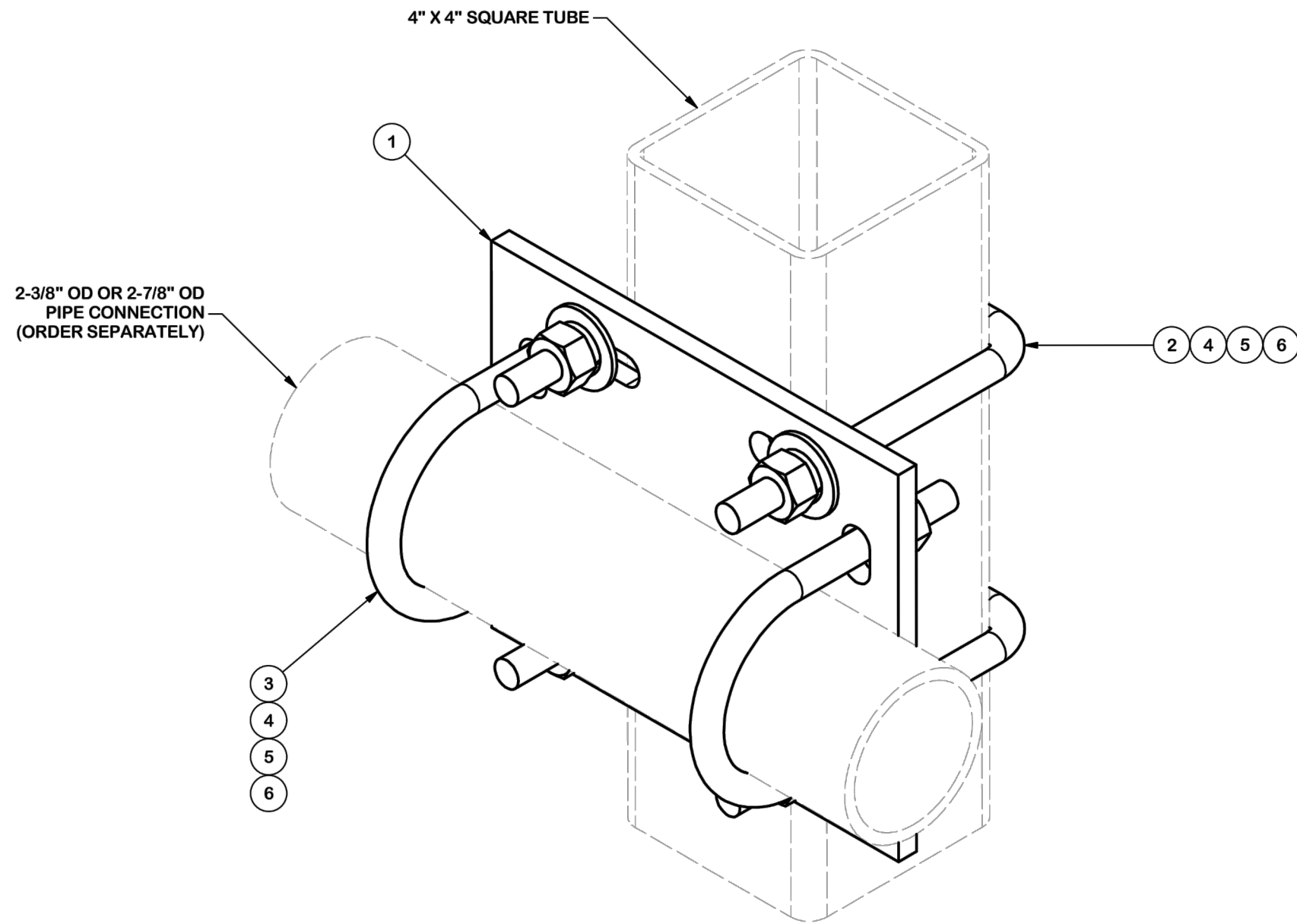
NOTES:
 1. HOT-DIPPED GALVANIZED PER ASTM A123.

VZSMART-MSK1 (CROSSOVER PLATE)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-857	PL 3/8" X 8 1/2" X 0'-7" A36	MSK1-F1	6
2	4	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	5
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	8	LW-625	5/8" HDG LOCK WASHER	---	0
5	8	NUT-625	5/8" HDG HEX NUT	---	1
GALVANIZED WT					14

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

SHEET TITLE:	
VZSMART-MSK1 CROSSOVER PLATE	
SHEET NUMBER:	REV #:
VZSMART-MSK1	0

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	SCX4	CROSSOVER PLATE	8 1/2 in	6.02	6.02
2	2	X-SUB1418	SQUARE U-BOLT 0.5" DIA. X 4.125" IW X 6" IL X 3" TR		0.98	1.95
3	2	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.60	1.19
3	2	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.67	1.34
4	8	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.27
5	8	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.11
6	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
TOTAL WT. #						11.35



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:
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION
**CROSSOVER PLATE KIT
 W/ SQUARE U-BOLTS AND STD. U-BOLTS**

CPD NO.	DRAWN BY	ENG. APPROVAL
	CSL 9/18/2018	3RD PARTY
CLASS	SUB	DRAWING USAGE
87	02	CUSTOMER
		CHECKED BY
		BMC 11/12/2018

SITE PRO 1
 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.	SQCX4-K	PAGE 1 OF 1
DWG. NO.	SQCX4-K	