



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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

E-Mail: siting.council@ct.gov

Web Site: portal.ct.gov/csc

VIA ELECTRONIC MAIL

December 1, 2021

John Coleman
Project Manager
Centerline Communications LLC
750 W. Center Street, Suite 301
West Bridgewater, MA 02379
jcoleman@clinellc.com

RE: **EM-VER-007-210819** – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 260 Beckley Road, Berlin, Connecticut.

Dear Mr. Coleman:

The Connecticut Siting Council (Council) is in receipt of your correspondence of November 30, 2021 submitted in response to the Council's October 5, 2021 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

The submission renders the request for exempt modification complete and the Council will process the request in accordance with the Federal Communications Commission 60-day timeframe.

Thank you for your attention and cooperation.

Sincerely,

Melanie A. Bachman
Executive Director

MAB/CMW/emr

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 29, 2021

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

RE: EM-VER-007-210819 – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 260 Beckley Road, Berlin, CT.

Dear Ms. Bachman,

In response to the Council's Incomplete Letter to modify an existing telecommunications facility dated October 5, 2021 for the afore mentioned site, please see the following attachments as outlined below per Councils request:

1. Original Facility Approval from CSC Website
2. Proof of mailing and delivery confirmation to Chief Elected Official: Mark H. Kacynski.
 - a. UPS Label: 1Z9Y45030311367473
 - b. Delivery Confirmation.
3. Proof of mailing and delivery confirmation to Zoning Official: Maureen Giusti.
 - a. UPS Label: 1Z9Y45030304864485
 - b. Delivery Confirmation.
4. Proof of mailing and delivery confirmation to Property Owner: John C. Matulis Jr.
 - a. UPS Label: 1Z9Y45030317763499
 - b. Delivery Confirmation.
 - c. USPS Label: 9405 5036 9930 0058 9879 63
 - d. Delivery Confirmation.

5. The Structural Analysis Report dated June 25, 2021 has been updated as requested by the Council to include the modifications for T-Mobile as requested for their modification requested on August 10, 2021 with a new Structural Analysis dated September 13, 2021.
6. The property card has been updated to the correct tower location.
7. The Original Filing sent to the CSC on 8/13/2021 – Notice of Exempt Modification // Site: BERLIN II CT (ATC: 302483) Cellco Partnership d/b/a/ Verizon Wireless.

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

Sincerely,

John Coleman

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

AN APPLICATION SUBMITTED BY THE SOUTHERN : CONNECTICUT SITING
NEW ENGLAND TELEPHONE COMPANY FOR A
CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY :
AND PUBLIC NEED FOR THE CONSTRUCTION, : COUNCIL
MAINTENANCE, AND OPERATION OF FACILITIES
TO PROVIDE CELLULAR SERVICE IN THE HARTFORD :
AND MIDDLESEX COUNTIES. : May 15, 1984

D E C I S I O N A N D O R D E R

Pursuant to the foregoing opinion, the Council hereby directs that a certificate of environmental compatibility and public need as required by section 16-50k of the General Statutes of Connecticut, revisions of 1958, revised to 1983, as amended, be issued to Southern New England Telephone for the construction, operation, and maintenance of a telecommunications tower and associated equipment to provide cellular service at each of the following sites:

Shuttle Meadow Road, Southington, Connecticut;
Mountain Street, Hartford, Connecticut;
Prestige Park Road, East Hartford, Connecticut;
Beckley Road, Berlin, Connecticut;
Slicer tract, Niederwerfer Road, South Windsor, Connecticut; and
Kikapoo Road, Middlefield, Connecticut.

The facilities shall be constructed, operated, and maintained as specified in the Council's record on this matter, and subject to the following conditions.

1. The towers shall be no taller than necessary to provide the proposed service and in no event shall exceed
 - a) 150 feet at the Southington site,
 - b) 100 feet at the Hartford site,
 - c) 150 feet at the East Hartford site,
 - d) 150 feet at the Berlin site,
 - e) 75 feet at the South Windsor site, and
 - f) 75 feet at the Middlefield site.
2. A fence not lower than eight feet shall surround each tower and its associated equipment.

3. The applicant or its successor shall notify the Council if and when directional antennas or any other equipment is added to any of these facilities.
4. The applicant or its successor shall permit in accordance with representations made by it during the proceeding public or private entities to share space on the facilities, for due consideration received, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
5. Unless necessary to comply with condition number seven, below, no lights shall be installed on any of these towers.
6. The facility construction shall be conducted in accordance with all applicable federal, state, and municipal laws and regulations.
7. The applicant shall submit a development and management plan (D&M) for the South Windsor, Southington, and Berlin sites pursuant to sections 16-50j-85 through 16-50j-87 of the regulations of state agencies, except that irrelevant items in section 16-50j-86 need only be identified as such. The D&M plans shall include appropriate evergreen screening of the sites. The applicant shall comply with the reporting requirements of section 16-50j-87 for all sites. The applicant shall consult with Mrs. Claire Aubin and the Town of South Windsor in the preparation of the South Windsor site D&M.
8. Construction activities shall take place during daylight working hours.
9. This decision and order shall be void and the towers and associated equipment approved herein shall be dismantled and removed,

or reapplication for any new use shall be made to the Connecticut Siting Council before any such new use is made, if the towers do not provide or permanently cease to provide cellular service following completion of construction.

10. This decision and order shall be void if all construction authorized is not completed within three years of the issuance of this decision.

Pursuant to section 16-50p(c) of the General Statutes, we hereby direct that a copy of the opinion and decision and order be served on each person listed below. A notice of the issuance shall be published in the Hartford Courant, Journal Inquirer, and the Middletown Press.

The parties to this proceeding are

Southern New England
Telephone Company
Room 314
227 Church Street
New Haven, Connecticut 06506

(Applicant)

ATTN: Mr. Peter J. Tyrrell, Esquire

(its attorney)

Town of South Windsor
1540 Sullivan Avenue
South Windsor, Connecticut 06074

represented by:

Mr. Richard M. Rittenband
Town Attorney
1734 Ellington Road
South Windsor, Connecticut 06074

Frank Niederwerfer
260 Niederwerfer Road
South Windsor, Connecticut 06074

(service waived)

Claire Aubin
407 Niederwerfer Road
South Windsor, Connecticut 06074

(service waived)

Betty S. Kleiner
Chairman
Hartford Audubon Society, Inc.
5 Flintlock Ridge
Simsbury, Connecticut 06070

(service waived)

Roger Thorpe
2916 Ellington Road
South Windsor, Connecticut 06074

Intervenors in this proceeding are

Dwight A. Johnson
Murtha, Cullina, Richter
and Pinney
101 Pearl Street
P.O. Box 3197
Hartford, Connecticut 06103-0197


representing:

Metromedia TeleCommunications
Nutmeg Telecommunications, Inc.
CSI of New Haven
CSI of Stamford
Cellular Communications, Inc.
LIN Cellular Corp.
Cellular Mobile Services
Maxcell TeleCommunications, Inc.
Mobile Cellular Telephone, Inc.
Cellular Dynamics
Connecticut Corridor Cellular
Chase/Post Cellular

STATE OF CONNECTICUT)
 :
COUNTY OF HARTFORD) ss. New Britain, May 15, 1984

I hereby certify that the foregoing is a true and correct copy of the decision and order issued by the Connecticut Siting Council, State of Connecticut.

ATTEST:



Christopher S. Wood, Executive Director
Connecticut Siting Council

UPS CampusShip: View/Print Label

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

Customers without a Daily Pickup

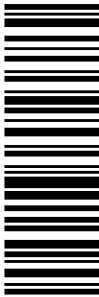
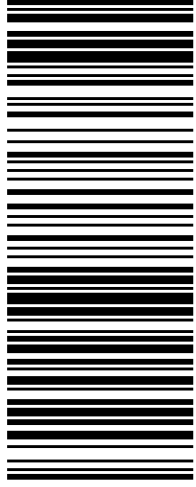

Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please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

UPS Access Point™
 CVS STORE # 972
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 689 DEPOT ST
 NORTH EASTON ,MA 02356

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

FOLD HERE

<p style="text-align: right;">1 OF 1</p> <p style="text-align: center;">1 LBS</p> <p>MIJMAIL 9785687906 CENTERLINE COMMUNICATIONS 750 W. CENTER ST. WEST BRIDGEWATER MA 02379</p> <p>SHIP TO: BERLIN TOWN HALL MARK H. KACYSKI, MAYOR 240 KENSINGTON RD BERLIN CT 06037-2655</p>	<p style="font-size: 2em;">CT 061 9-02</p> 	<p style="font-size: 1.5em;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 1136 7473</p> 	<p style="text-align: center;">BILLING: P/P</p> <p style="text-align: center;">  </p> <p>Reference # 1: 302483 Reference # 2: BRIN BERLIN <small>CS223018</small></p> <p style="font-size: 0.8em; text-align: right;">W/NT/NV50 32.OA 08/2021 *</p>
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- 2. Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
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 Your driver will pickup your shipment(s) as usual.

Customers without a Daily Pickup

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

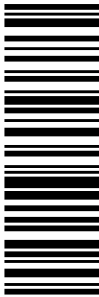
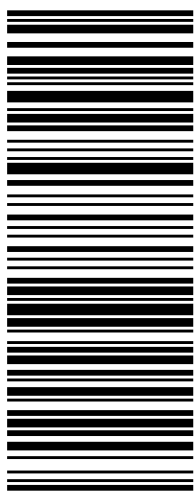

Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages. Hand the package to any UPS driver in your area.

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FOLD HERE

<p style="text-align: right;">1 OF 1</p> <p style="text-align: center;">1 LBS</p> <p>MIJUMALI 9785687906 CENTERLINE COMMUNICATIONS 750 W. CENTER ST. WEST BRIDGEWATER MA 02379</p> <p>SHIP TO: ZONING ENFORCEMENT OFFICER MAUREEN GIUSTI 240 KENSINGTON RD BERLIN CT 06037-2655</p>	<p style="font-size: 2em;">CT 061 9-02</p> 	<p style="font-size: 1.5em;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 0486 4485</p> 	<p style="text-align: center;">BILLING: P/P</p> <p style="text-align: center;">Reference # 1: 302483 Reference # 2: BRIN BERLIN CS223018</p> <p style="text-align: center; font-size: 0.8em;">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

1Z9Y45030311367473

Weight

1.00 LBS

Service

UPS Ground

Shipped / Billed On

08/13/2021

Delivered On

09/16/2021 12:49 P.M.

Delivered To

BERLIN, CT, US

Received By

BUSH

Left At

Inside Delivery

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 1:39 P.M. EST

UPS CampusShip: View/Print Label

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

Customers without a Daily Pickup

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

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

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NORTH EASTON ,MA 02356

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

FOLD HERE

<p style="text-align: right;">1 OF 1</p> <p style="text-align: center;">1 LBS</p> <p>SHIP TO: JOHN C MATULIS JR 286 BECKLEY ROAD BERLIN CT 06037-2506</p>	<p style="font-size: 2em;">CT 061 9-02</p> 	<p style="font-size: 1.5em;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 1776 3499</p> 	<p style="text-align: center;">BILLING: P/P</p> <p>Reference # 1: 302483 Reference # 2: BRIN BERLIN <small>CS2230:1& W/NTNV50 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

1Z9Y45030317763499

Weight

1.00 LBS

Service

UPS Ground

Shipped / Billed On

08/13/2021

Delivered On

09/17/2021 9:56 A.M.

Delivered To

BERLIN, CT, US

Received By

DRIVER RELEASE

Left At

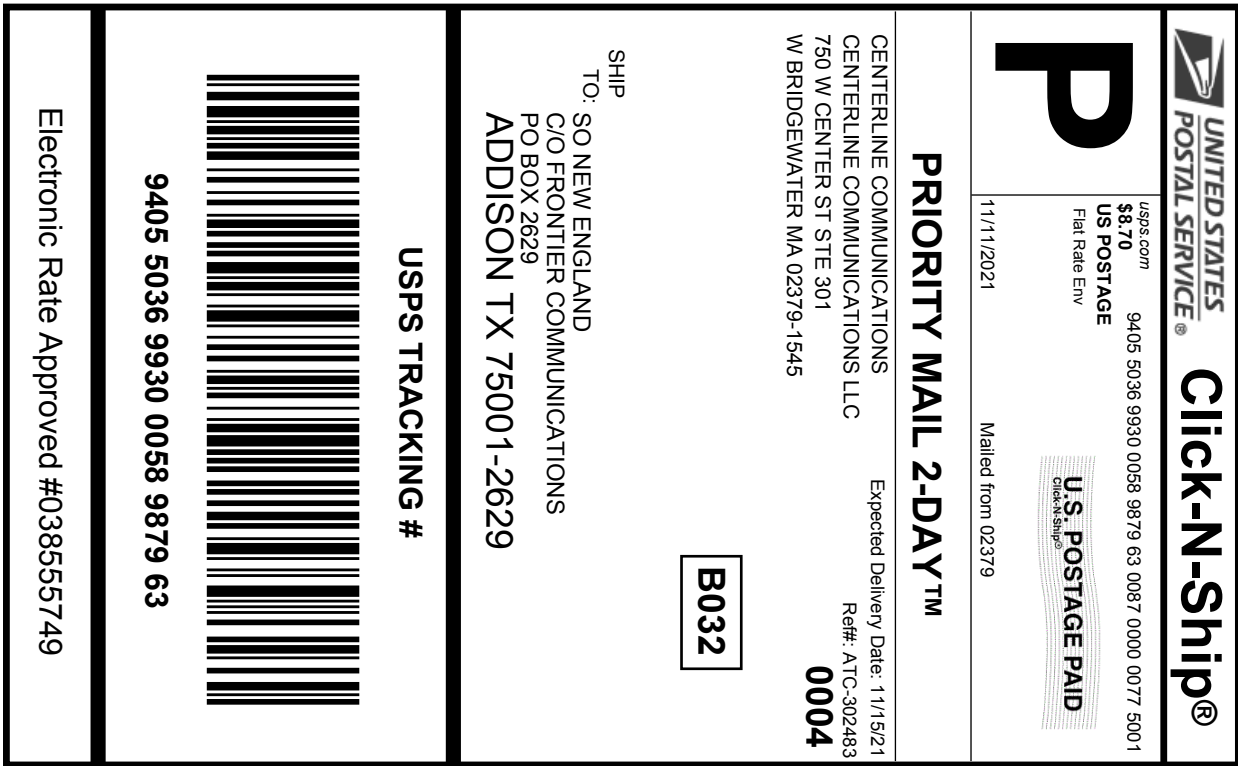
Front Door

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 1:40 P.M. EST



Cut on dotted line.

Instructions

- Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO COPY OR ALTER LABEL.
- Place your label so it does not wrap around the edge of the package.
- Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.
- To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
- Mail your package on the "Ship Date" you selected when creating this label.

Click-N-Ship® Label Record

USPS TRACKING # :	
9405 5036 9930 0058 9879 63	
Trans. #:	548101930
Print Date:	11/11/2021
Ship Date:	11/11/2021
Expected Delivery Date:	11/15/2021
Priority Mail® Postage:	\$8.70
Total:	\$8.70
From:	CENTERLINE COMMUNICATIONS Ref#: ATC-302483 CENTERLINE COMMUNICATIONS LLC 750 W CENTER ST STE 301 W BRIDGEWATER MA 02379-1545
To:	SO NEW ENGLAND C/O FRONTIER COMMUNICATIONS PO BOX 2629 ADDISON TX 75001-2629
<small>* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.</small>	



Thank you for shipping with the United States Postal Service!
Check the status of your shipment on the USPS Tracking® page at usps.com

Track Another Package +

Tracking Number: 9405503699300058987963

Remove X

Your item has been delivered and is available at a PO Box at 10:25 am on November 16, 2021 in ADDISON, TX 75001.

USPS Tracking Plus™ Available ✓

Delivered, PO Box

November 16, 2021 at 10:25 am
ADDISON, TX 75001

Feedback

Get Updates ✓

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Tracking History



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Product Information



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FAQs



AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 154 ft Monopole
ATC Site Name : Brln - Berlin,CT
ATC Site Number : 302483
Engineering Number : 13673539_C3_04
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : BERLIN II CT
Carrier Site Number : 468246
Site Location : 286 Beckley Road
Berlin, CT 06037-2419
41.6317, -72.7299
County : Hartford
Date : September 13, 2021
Max Usage : 91%
Result : Pass

Prepared By:

Garret D. Heath
Structural Engineer II

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 154 ft Monopole to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower Drawings	ITT Meyer Type "B", dated July 21, 2001 Mapping by Smith Cullum Acq. #CT-0019, dated July 21, 2001 Mapping by ATC Report #0682, dated January 7, 2016
Foundation Drawing	SpectraSite Project #CT-0019, dated May 29, 2003
Geotechnical Report	Daniel G. Loucks Project #CT-0019, dated December 21, 2001
Modifications	Sciencel Project #Berlin-CT0019, dated July 30, 2002 ATC Project #11912109_P5_02, dated October 3, 2017

Analysis

The tower was analyzed using tnxTower version 8.1.1.0 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/ 1.50" 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

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	Equipment	Mount Type	Lines	Carrier
	2	Raycap DC6-48-60-18-8F(32.8 lbs)	Platform with Handrails	(2) 0.39" (10mm) Fiber Trunk (4) 0.78" (19.7mm) 8 AWG 6 (12) 1 1/4" Coax (1) 3" conduit	AT&T MOBILITY
	6	Powerwave Allgon LGP21401			
	3	Ericsson RRUS 11 (Band 12) (55 lb)			
	3	Ericsson RRUS 32 (50.8 lbs)			
	3	Ericsson RRUS 32 B2			
	3	Powerwave Allgon 7770.00			
	3	Quintel QS66512-2			
	3	CCI OPA-65R-LCUU-H6			
	3	Ericsson RRUS 4426 B66			
	6	CCI TPX-070821			
142.0	3	RFS APXVAARR24_43-U-NA20	Platform with Handrails	(2) 1 1/4" (1.25"- 31.8mm) Fiber (1) 1 5/8" Hybriflex	T-MOBILE
	3	Ericsson AIR32 B66Aa/B2a			
	3	Ericsson Radio 4449 B71 B85A			
	3	Ericsson Radio 4460 B25+B66			
	3	Ericsson Air6449 B41			
132.7	3	Alcatel-Lucent 800 MHz 2X50W RRH w/ Filter	Platform with Handrails	(4) 1 1/4" Hybriflex Cable	SPRINT NEXTEL
127.0	3	Commscope DT465B-2XR			
	1	RFS APXV9ERR18-C-A20			
	2	RFS APXVSPP18-C-A20			
	3	Alcatel-Lucent TD-RRH8x20			
	3	Alcatel-Lucent RRH2x50-08			
3	Alcatel-Lucent 4x40W RRH (88 lb)				
119.7	3	Alcatel-Lucent RRH2x60			
116.0	-	-	-	(2) 1 5/8" (1.63"- 41.3mm) Fiber (6) 1 5/8" Coax	VERIZON WIRELESS

Equipment to be Removed

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
122.0	3	Alcatel-Lucent RRH2X60-AWS	-	-	VERIZON WIRELESS
116.0	6	Amphenol Antel LPA-80063-6CF-EDIN-X	Existing Platform	(6) 1 5/8" Coax	
	2	RFS DB-T1-6Z-8AB-OZ			
	3	Commscope LNX-6514DS-A1M			
	3	Alcatel-Lucent RRH2X60-1900			
	3	Alcatel-Lucent RRH2x60 700			

Proposed Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
116.0	3	Samsung Outdoor CBRS 20W RRH –Clip-on Antenna	Site Pro 1 Part #: F4P -12 w/ F4P-HRK12	-	VERIZON WIRELESS
	3	Samsung RT4401-48A			
	3	Samsung B2/B66A RRH-BR049			
	3	Samsung B5/B13 RRH-BR04C			
	2	Raycap RRFDC-3315-PF-48 (32lbs)			
	3	Samsung MT6407-77A			
	3	Amphenol Antel BXA-70080-6CF-EDIN-4			
	6	Commscope SBNHH-1D65B			

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	91%	Pass
Shaft	74%	Pass
Reinforcement	21%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	3867.0	89%
Shear (Kips)	35.8	2%

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

Deflection, Twist and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
116.0	Samsung Outdoor CBRS 20W RRH – Clip-on Antenna	VERIZON WIRELESS	1.218	1.148
	Samsung RT4401-48A			
	Samsung B2/B66A RRH-BR049			
	Samsung B5/B13 RRH-BR04C			
	Raycap RRFDC-3315-PF-48 (32lbs)			
	Samsung MT6407-77A			
	Amphenol Antel BXA-70080-6CF-EDIN-4			
	Commscope SBNHH-1D65B			

*Deflection, Twist 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.

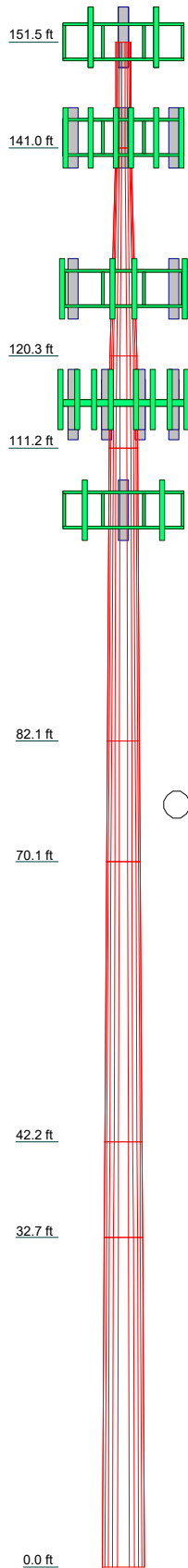
All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
(2) TPX-070821	151.5	RRH2x50-08	127
(2) TPX-070821	151.5	(2) 4x40W RRH (88 lb)	127
(2) TPX-070821	151.5	(2) 4x40W RRH (88 lb)	127
(2) LGP21401	151.5	(2) 4x40W RRH (88 lb)	127
(2) LGP21401	151.5	TD-RRH8x20	127
(2) LGP21401	151.5	TD-RRH8x20	127
DC6-48-60-18-8F(32.8 lbs)	151.5	TD-RRH8x20	127
DC6-48-60-18-8F(32.8 lbs)	151.5	APXVSP18-C-A20	127
RRUS 4426 B66	151.5	APXVSP18-C-A20	127
RRUS 4426 B66	151.5	APXV9ERR18-C-A20	127
RRUS 4426 B66	151.5	DT465B-2XR	127
RRUS 11 (Band 12) (55 lb)	151.5	DT465B-2XR	127
RRUS 11 (Band 12) (55 lb)	151.5	DT465B-2XR	127
RRUS 11 (Band 12) (55 lb)	151.5	Round Platform w/ Handrails	127
RRUS 32 (50.8 lbs)	151.5	RRH2X60	119.7
RRUS 32 (50.8 lbs)	151.5	RRH2X60	119.7
RRUS 32 (50.8 lbs)	151.5	RRH2X60	119.7
RRUS 32 B2	151.5	Outdoor CBRS 20W rRH - Clip on Antenna	116
RRUS 32 B2	151.5	Outdoor CBRS 20W rRH - Clip on Antenna	116
RRUS 32 B2	151.5	Outdoor CBRS 20W rRH - Clip on Antenna	116
7770.00	151.5	Outdoor CBRS 20W rRH - Clip on Antenna	116
7770.00	151.5	Outdoor CBRS 20W rRH - Clip on Antenna	116
7770.00	151.5	Outdoor CBRS 20W rRH - Clip on Antenna	116
QS66512-2	151.5	RT4401-48A	116
QS66512-2	151.5	RT4401-48A	116
QS66512-2	151.5	RT4401-48A	116
OPA-65R-LCUU-H6	151.5	(2) SBNHH-1D65B	116
OPA-65R-LCUU-H6	151.5	(2) SBNHH-1D65B	116
OPA-65R-LCUU-H6	151.5	(2) SBNHH-1D65B	116
OPA-65R-LCUU-H6	151.5	B2/B66A RRH-BR049	116
CBC23SR-43	151.5	B2/B66A RRH-BR049	116
CBC23SR-43	151.5	B2/B66A RRH-BR049	116
CBC23SR-43	151.5	B5/B13 RRH-BR04C	116
DC6-48-60-0-8C-EV	151.5	B5/B13 RRH-BR04C	116
ION-M23 SDARS	151.5	B5/B13 RRH-BR04C	116
ION-M23 SDARS	151.5	RRFDC-3315-PF-48	116
ION-M23 SDARS	151.5	RRFDC-3315-PF-48	116
Flat Platform w/ Handrails	151.5	MT6407-77A	116
RADIO 4449 B71/B85A	142	MT6407-77A	116
RADIO 4449 B71/B85A	142	MT6407-77A	116
RADIO 4449 B71/B85A	142	MT6407-77A	116
RADIO 4460 B2/B25 B66	142	BXA-70080-6CF-EDIN-4	116
RADIO 4460 B2/B25 B66	142	BXA-70080-6CF-EDIN-4	116
RADIO 4460 B2/B25 B66	142	BXA-70080-6CF-EDIN-4	116
AIR 6449 B41	142	Sit Pro 1 F4P 12 w/ F4P HRK12	116
AIR 6449 B41	142	(2) SBNHH-1D65B	115
AIR 6449 B41	142	(2) SBNHH-1D65B	115
AIR 6449 B41	142	(2) SBNHH-1D65B	115
AIR32 B66Aa/B2a	142	Flat Platform w/ Handrails	105
AIR32 B66Aa/B2a	142	MX08FRO665-21	105
AIR32 B66Aa/B2a	142	MX08FRO665-21	105
APXVAARR24_43-U-NA20	142	MX08FRO665-21	105
APXVAARR24_43-U-NA20	142	TA08025-B604	105
APXVAARR24_43-U-NA20	142	TA08025-B604	105
APXVAARR24_43-U-NA20	142	TA08025-B604	105
Round Platform w/ Handrails	142	TA08025-B605	105
800 MHz 2X50W RRH w/ Filter	132.7	TA08025-B605	105
800 MHz 2X50W RRH w/ Filter	132.7	TA08025-B605	105
800 MHz 2X50W RRH w/ Filter	132.7	TA08025-B605	105
RRH2x50-08	127	RDIDC-9181-PF-48	105
RRH2x50-08	127		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

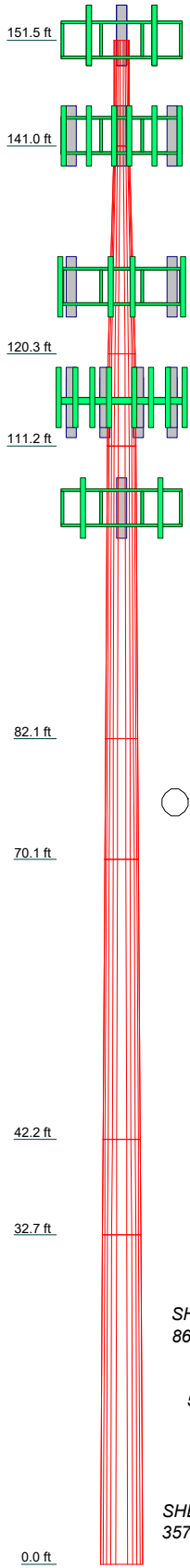


Section	Length (ft)	Number of Sides	Thickness (in)	Top Dia (in)	Bot Dia (in)	Grade	Weight (lb)
1	10.50	12	0.2400	17.1872	17.7841	A572-65	476.2
2	20.67	12	0.3059	17.7841	31.5570	A572-65	1688.0
3	9.14	12	0.3063	31.5570	33.0280	A572-65	981.2
4	29.11	12	0.3141	33.0280	38.3470	A572-65	3543.9
5	12.02	12	0.3804	38.3470	39.7110	A572-65	1936.3
6	27.82	12	0.4014	39.7110	43.9500	A572-65	5069.1
7	9.53	12	0.4706	43.9500	45.0640	A572-65	2164.0
8	32.71	12	0.4906	45.0640	49.5520	A572-65	8232.0
							24090.6

ATC Engineering
 3500 Regency Parkway, Suite 100
 Cary, NC 27518
 Phone: (919) 466-5258
 FAX:

Job: **Brln-Berlin (302483)**
 Project: **13673539 C3 04**
 Client: VERIZON WIRELESS
 Code: TIA-222-H
 Path: C:\Users\garret.heath\Desktop\TDX FILES RUN LOCAL\302483-2302483 Brln-Berlin_CT.en
 Drawn by: Garret.Heath
 Date: 09/13/21
 App'd:
 Scale: NTS
 Dwg No. E-1

Section	Length (ft)	Number of Sides	Thickness (in)	Top Dia (in)	Bot Dia (in)	Grade	Weight (lb)
1	10.50	12	0.2400	17.1872	17.7841	A572-65	476.2
2	20.67	12	0.3059	17.7841	31.5570	A572-65	1688.0
3	9.14	12	0.3063	31.5570	33.0280	A572-65	981.2
4	29.11	12	0.3141	33.0280	38.3470	A572-65	3543.9
5	12.02	12	0.3804	38.3470	39.7110	A572-65	1936.3
6	27.82	12	0.4014	39.7110	43.9500	A572-65	5089.1
7	9.53	12	0.4706	43.9500	45.0640	A572-65	2164.0
8	32.71	12	0.4906	45.0640	49.5520	A572-65	8232.0
							24090.6



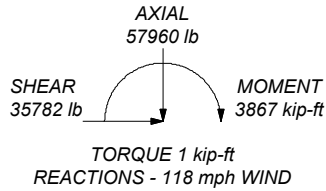
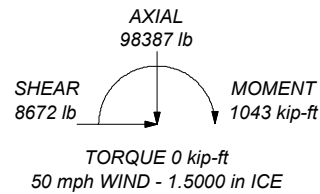
MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 118 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. Combined pole and wrap structure.
9. Sections modeled to have equivalent inertia to pole and wrap combined.
10. TOWER RATING: 74%

ALL REACTIONS
ARE FACTORED



ATC Engineering
3500 Regency Parkway, Suite 100
Cary, NC 27518
Phone: (919) 466-5258
FAX:

Job: Brlin-Berlin (302483)	Project: 13673539_C3_04	
Client: VERIZON WIRELESS	Drawn by: Garret.Heath	App'd:
Code: TIA-222-H	Date: 09/13/21	Scale: NTS
Path:	Dwg No. E-1	

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tnxTower ATC Engineering 3500 Regency Parkway, Suite 100 Cary, NC 27518 Phone: (919) 466-5258 FAX:	Job	Brln-Berlin (302483)	Page	1 of 35
	Project	13673539_C3_04	Date	11:23:46 09/13/21
	Client	VERIZON WIRELESS	Designed by	Garret.Heath

Tower Input Data

The tower is a monopole.

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

The following design criteria apply:

- Tower is located in Hartford County, Connecticut.
- Tower base elevation above sea level: 196.00 ft.
- Basic wind speed of 118 mph.
- Risk Category II.
- Exposure Category B.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.00 ft.
- Nominal ice thickness of 1.5000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 60 mph.
- Combined pole and wrap structure..
- Sections modeled to have equivalent inertia to pole and wrap combined..
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in pole design is 1.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

- | | | |
|--|---|---|
| <ul style="list-style-type: none"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification √ Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity Leg Bolts Are At Top Of Section Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric | <ul style="list-style-type: none"> Distribute Leg Loads As Uniform Assume Legs Pinned √ Assume Rigid Index Plate √ Use Clear Spans For Wind Area Use Clear Spans For KL/r Retension Guys To Initial Tension √ Bypass Mast Stability Checks √ Use Azimuth Dish Coefficients √ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs | <ul style="list-style-type: none"> Use ASCE 10 X-Brace Ly Rules Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation √ Consider Feed Line Torque Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <li style="text-align: center;">Poles √ Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known |
|--|---|---|

Tapered Pole Section Geometry

tnxTower ATC Engineering 3500 Regency Parkway, Suite 100 Cary, NC 27518 Phone: (919) 466-5258 FAX:	Job	Brln-Berlin (302483)	Page	2 of 35
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	Client	VERIZON WIRELESS	Designed by	Garret.Heath

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	151.50-141.00	10.50	0.00	12	17.1872	17.7841	0.2400	0.9600	A572-65 (65 ksi)
L2	141.00-120.33	20.67	0.00	12	17.7841	31.5570	0.3059	2.0000	A572-65 (65 ksi)
L3	120.33-111.19	9.14	0.00	12	31.5570	33.0280	0.3063	2.0000	A572-65 (65 ksi)
L4	111.19-82.08	29.11	0.00	12	33.0280	38.3470	0.3141	2.2000	A572-65 (65 ksi)
L5	82.08-70.06	12.02	0.00	12	38.3470	39.7110	0.3804	2.4000	A572-65 (65 ksi)
L6	70.06-42.24	27.82	0.00	12	39.7110	43.9500	0.4014	2.6000	A572-65 (65 ksi)
L7	42.24-32.71	9.53	0.00	12	43.9500	45.0640	0.4706	2.8000	A572-65 (65 ksi)
L8	32.71-0.00	32.71		12	45.0640	49.5520	0.4906	3.0000	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	I/Q in ²	w in	w/t
L1	17.7088	13.0968	480.1168	6.0671	8.9030	53.9277	972.8469	6.4458	3.9630	16.512
L2	18.3268	13.5581	532.6554	6.2808	9.2122	57.8209	1079.3043	6.6729	4.1229	17.179
L3	32.5075	30.7823	3837.2246	11.1879	16.3465	234.7425	7775.2574	15.1501	7.2213	23.607
L4	34.0157	33.0869	4519.6700	11.7116	17.1085	264.1768	9158.0767	16.2844	7.5039	23.89
L5	39.5224	38.4666	7102.1213	13.6158	19.8637	357.5419	14390.8231	18.9321	8.9294	28.429
L6	40.9157	48.1756	9512.0483	14.0804	20.5703	462.4166	19273.9886	23.7106	9.1523	24.06
L7	46.4229	67.5738	17151.6341	15.9644	23.3432	734.7608	34753.8607	33.2578	10.3241	21.938
L8	51.0537	77.5039	23811.6328	17.5640	25.6679	927.6801	48248.8237	38.1450	11.4090	23.255

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _f	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 151.50-141.00				1	1	1			
L2 141.00-120.33				1	1	1			
L3 120.33-111.19				1	1	1			
L4 111.19-82.08				1	1	1			
L5 82.08-70.06				1	1	1			
L6 70.06-42.24				1	1	1			
L7 42.24-32.71				1	1	1			

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	Client	VERIZON WIRELESS	Designed by	Garret.Heath

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft ²	in					in	in	in
L8 32.71-0.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf

1 5/8" Coax	B	No	Surface Ar (CaAa)	116.00 - 5.00	12	12	0.100 0.500	1.9800		0.82
1 5/8" (1.63"-41.3mm) Fiber	B	No	Surface Ar (CaAa)	116.00 - 5.00	2	2	0.000 0.100	1.6300		1.61

4" Wrap Seams	A	No	Surface Ar (CaAa)	141.00 - 5.00	1	1	0.000 0.000	4.0000		0.00
4" Wrap Seams	B	No	Surface Ar (CaAa)	141.00 - 5.00	1	1	0.000 0.000	4.0000		0.00
4" Wrap Seams	C	No	Surface Ar (CaAa)	141.00 - 5.00	1	1	0.000 0.000	4.0000		0.00

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		$C_A A_A$ ft ² /ft	Weight plf	
1 1/4" Coax	C	No	No	Inside Pole	151.50 - 5.00	12	No Ice 1/2" Ice 1" Ice 2" Ice	0.00 0.00 0.00 0.00	0.66 0.66 0.66 0.66	
0.39" (10mm) Fiber Trunk	C	No	No	Inside Pole	151.50 - 5.00	2	No Ice 1/2" Ice 1" Ice 2" Ice	0.00 0.00 0.00 0.00	0.06 0.06 0.06 0.06	
0.78" (19.7mm) 8 AWG 6	C	No	No	Inside Pole	151.50 - 5.00	4	No Ice 1/2" Ice 1" Ice 2" Ice	0.00 0.00 0.00 0.00	0.59 0.59 0.59 0.59	
3" conduit	C	No	No	Inside Pole	151.50 - 5.00	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.00 0.00 0.00 0.00	1.78 1.78 1.78 1.78	

1 5/8" Hybriflex	C	No	No	Inside Pole	142.00 - 5.00	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.00 0.00 0.00 0.00	1.61 1.61 1.61 1.61	
1 1/4" (1.25"-31.8mm) Fiber	C	No	No	Inside Pole	142.00 - 5.00	2	No Ice 1/2" Ice 1" Ice 2" Ice	0.00 0.00 0.00 0.00	1.05 1.05 1.05 1.05	

tnxTower ATC Engineering 3500 Regency Parkway, Suite 100 Cary, NC 27518 Phone: (919) 466-5258 FAX:	Job	Brln-Berlin (302483)	Page	4 of 35
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	Client	VERIZON WIRELESS	Designed by	Garret.Heath

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _{AA} ft ² /ft	Weight plf

1 1/4" Hybriflex	C	No	No	Inside Pole	127.00 - 5.00	4	No Ice	0.00	0.66
							1/2" Ice	0.00	0.66
							1" Ice	0.00	0.66
							2" Ice	0.00	0.66

0.82" (20.8mm) 8 AWG 6	C	No	No	Inside Pole	151.50 - 0.00	2	No Ice	0.00	0.62
							1/2" Ice	0.00	0.62
							1" Ice	0.00	0.62
							2" Ice	0.00	0.62
1.6" (40.6mm) Hybrid	A	No	No	Inside Pole	105.00 - 5.00	1	No Ice	0.00	0.56
							1/2" Ice	0.00	0.56
							1" Ice	0.00	0.56
							2" Ice	0.00	0.56

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight lb
L1	151.50-141.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	144.62
L2	141.00-120.33	A	0.000	0.000	8.268	0.000	0.00
		B	0.000	0.000	8.268	0.000	0.00
		C	0.000	0.000	8.268	0.000	371.69
L3	120.33-111.19	A	0.000	0.000	3.656	0.000	0.00
		B	0.000	0.000	16.653	0.000	62.82
		C	0.000	0.000	3.656	0.000	180.70
L4	111.19-82.08	A	0.000	0.000	11.644	0.000	12.84
		B	0.000	0.000	90.299	0.000	380.18
		C	0.000	0.000	11.644	0.000	575.50
L5	82.08-70.06	A	0.000	0.000	4.808	0.000	6.73
		B	0.000	0.000	37.286	0.000	156.98
		C	0.000	0.000	4.808	0.000	237.64
L6	70.06-42.24	A	0.000	0.000	11.128	0.000	15.58
		B	0.000	0.000	86.298	0.000	363.33
		C	0.000	0.000	11.128	0.000	550.00
L7	42.24-32.71	A	0.000	0.000	3.812	0.000	5.34
		B	0.000	0.000	29.562	0.000	124.46
		C	0.000	0.000	3.812	0.000	188.41
L8	32.71-0.00	A	0.000	0.000	11.084	0.000	15.52
		B	0.000	0.000	85.956	0.000	361.89
		C	0.000	0.000	11.084	0.000	554.03

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight lb
L1	151.50-141.00	A	1.741	0.000	0.000	0.000	0.000	0.00

tnxTower ATC Engineering 3500 Regency Parkway, Suite 100 Cary, NC 27518 Phone: (919) 466-5258 FAX:	Job	Brln-Berlin (302483)	Page	5 of 35
	Project	13673539_C3_04	Date	11:23:46 09/13/21
	Client	VERIZON WIRELESS	Designed by	Garret.Heath

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	C_{AA} In Face ft ²	C_{AA} Out Face ft ²	Weight lb
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	144.62
L2	141.00-120.33	A	1.720	0.000	0.000	15.379	0.000	248.46
		B		0.000	0.000	15.379	0.000	248.46
		C		0.000	0.000	15.379	0.000	620.14
L3	120.33-111.19	A	1.701	0.000	0.000	6.765	0.000	108.25
		B		0.000	0.000	27.100	0.000	408.44
		C		0.000	0.000	6.765	0.000	288.95
L4	111.19-82.08	A	1.670	0.000	0.000	21.364	0.000	349.47
		B		0.000	0.000	143.983	0.000	2125.52
		C		0.000	0.000	21.364	0.000	912.14
L5	82.08-70.06	A	1.631	0.000	0.000	8.728	0.000	141.56
		B		0.000	0.000	59.125	0.000	859.13
		C		0.000	0.000	8.728	0.000	372.46
L6	70.06-42.24	A	1.581	0.000	0.000	19.926	0.000	315.53
		B		0.000	0.000	135.883	0.000	1934.50
		C		0.000	0.000	19.926	0.000	849.96
L7	42.24-32.71	A	1.519	0.000	0.000	6.707	0.000	102.95
		B		0.000	0.000	46.134	0.000	639.68
		C		0.000	0.000	6.707	0.000	286.03
L8	32.71-0.00	A	1.396	0.000	0.000	18.821	0.000	270.55
		B		0.000	0.000	131.754	0.000	1729.76
		C		0.000	0.000	18.821	0.000	809.06

Feed Line Center of Pressure

Section	Elevation ft	CP_x in	CP_z in	CP_x Ice in	CP_z Ice in
L1	151.50-141.00	0.0000	0.0000	0.0000	0.0000
L2	141.00-120.33	0.0000	0.0000	0.0000	0.0000
L3	120.33-111.19	4.6067	0.2030	4.2762	0.0203
L4	111.19-82.08	7.2224	0.3179	6.6185	0.0349
L5	82.08-70.06	7.6533	0.3365	7.0103	0.0416
L6	70.06-42.24	7.9623	0.3499	7.3250	0.0501
L7	42.24-32.71	8.2048	0.3603	7.6147	0.0609
L8	32.71-0.00	7.6945	0.3378	7.3118	0.0760

Note: For pole sections, center of pressure calculations do not consider feed line shielding.

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L2	15	4" Wrap Seams	120.33 - 141.00	1.0000	1.0000
L2	16	4" Wrap Seams	120.33 - 141.00	1.0000	1.0000
L2	17	4" Wrap Seams	120.33 -	1.0000	1.0000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L3	12	1 5/8" Coax	141.00 - 111.19	1.0000	1.0000
L3	13	1 5/8" (1.63"-41.3mm) Fiber	116.00 - 111.19	1.0000	1.0000
L3	15	4" Wrap Seams	116.00 - 111.19	1.0000	1.0000
L3	16	4" Wrap Seams	120.33 - 111.19	1.0000	1.0000
L3	17	4" Wrap Seams	120.33 - 111.19	1.0000	1.0000
L4	12	1 5/8" Coax	82.08 - 111.19	1.0000	1.0000
L4	13	1 5/8" (1.63"-41.3mm) Fiber	82.08 - 111.19	1.0000	1.0000
L4	15	4" Wrap Seams	82.08 - 111.19	1.0000	1.0000
L4	16	4" Wrap Seams	82.08 - 111.19	1.0000	1.0000
L4	17	4" Wrap Seams	82.08 - 111.19	1.0000	1.0000
L5	12	1 5/8" Coax	70.06 - 82.08	1.0000	1.0000
L5	13	1 5/8" (1.63"-41.3mm) Fiber	70.06 - 82.08	1.0000	1.0000
L5	15	4" Wrap Seams	70.06 - 82.08	1.0000	1.0000
L5	16	4" Wrap Seams	70.06 - 82.08	1.0000	1.0000
L5	17	4" Wrap Seams	70.06 - 82.08	1.0000	1.0000
L6	12	1 5/8" Coax	42.24 - 70.06	1.0000	1.0000
L6	13	1 5/8" (1.63"-41.3mm) Fiber	42.24 - 70.06	1.0000	1.0000
L6	15	4" Wrap Seams	42.24 - 70.06	1.0000	1.0000
L6	16	4" Wrap Seams	42.24 - 70.06	1.0000	1.0000
L6	17	4" Wrap Seams	42.24 - 70.06	1.0000	1.0000
L7	12	1 5/8" Coax	32.71 - 42.24	1.0000	1.0000
L7	13	1 5/8" (1.63"-41.3mm) Fiber	32.71 - 42.24	1.0000	1.0000
L7	15	4" Wrap Seams	32.71 - 42.24	1.0000	1.0000
L7	16	4" Wrap Seams	32.71 - 42.24	1.0000	1.0000
L7	17	4" Wrap Seams	32.71 - 42.24	1.0000	1.0000
L8	12	1 5/8" Coax	5.00 - 32.71	1.0000	1.0000
L8	13	1 5/8" (1.63"-41.3mm) Fiber	5.00 - 32.71	1.0000	1.0000
L8	15	4" Wrap Seams	5.00 - 32.71	1.0000	1.0000
L8	16	4" Wrap Seams	5.00 - 32.71	1.0000	1.0000
L8	17	4" Wrap Seams	5.00 - 32.71	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement	C_{AA} Front	C_{AA} Side	Weight	
			ft ft ft	°	ft	ft ²	ft ²	lb	
(2) TPX-070821	A	From Leg	3.00	0.0000	151.50	No Ice	0.00	0.18	7.50
			0.00			1/2" Ice	0.00	0.25	10.98
			0.50			1" Ice	0.00	0.32	15.80
						2" Ice	0.00	0.49	30.21
(2) TPX-070821	B	From Leg	3.00	0.0000	151.50	No Ice	0.00	0.18	7.50
			0.00			1/2" Ice	0.00	0.25	10.98
			0.50			1" Ice	0.00	0.32	15.80
						2" Ice	0.00	0.49	30.21
(2) TPX-070821	C	From Leg	3.00	0.0000	151.50	No Ice	0.00	0.18	7.50

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	lb
			0.00			1/2" Ice	0.00	0.25	10.98
			0.50			1" Ice	0.00	0.32	15.80
						2" Ice	0.00	0.49	30.21
(2) LGP21401	A	From Leg	3.00	0.0000	151.50	No Ice	0.00	0.36	10.00
			0.00			1/2" Ice	1.45	0.48	21.26
			0.50			1" Ice	1.61	0.60	30.32
						2" Ice	1.97	0.87	54.89
(2) LGP21401	B	From Leg	3.00	0.0000	151.50	No Ice	0.00	0.36	10.00
			0.00			1/2" Ice	1.45	0.48	21.26
			0.50			1" Ice	1.61	0.60	30.32
						2" Ice	1.97	0.87	54.89
(2) LGP21401	C	From Leg	3.00	0.0000	151.50	No Ice	0.00	0.36	10.00
			0.00			1/2" Ice	1.45	0.48	21.26
			0.50			1" Ice	1.61	0.60	30.32
						2" Ice	1.97	0.87	54.89
DC6-48-60-18-8F(32.8 lbs)	B	From Leg	0.50	0.0000	151.50	No Ice	1.28	0.79	20.00
			0.00			1/2" Ice	1.27	1.27	35.12
			0.50			1" Ice	1.45	1.45	52.57
						2" Ice	1.83	1.83	95.09
DC6-48-60-18-8F(32.8 lbs)	C	From Leg	0.50	0.0000	151.50	No Ice	1.28	0.79	20.00
			0.00			1/2" Ice	1.27	1.27	35.12
			0.50			1" Ice	1.45	1.45	52.57
						2" Ice	1.83	1.83	95.09
RRUS 4426 B66	A	From Leg	3.00	0.0000	151.50	No Ice	1.65	0.73	48.40
			0.00			1/2" Ice	1.81	0.84	61.25
			0.50			1" Ice	1.98	0.97	76.50
						2" Ice	2.34	1.25	114.97
RRUS 4426 B66	B	From Leg	3.00	0.0000	151.50	No Ice	1.65	0.73	48.40
			0.00			1/2" Ice	1.81	0.84	61.25
			0.50			1" Ice	1.98	0.97	76.50
						2" Ice	2.34	1.25	114.97
RRUS 4426 B66	C	From Leg	3.00	0.0000	151.50	No Ice	1.65	0.73	48.40
			0.00			1/2" Ice	1.81	0.84	61.25
			0.50			1" Ice	1.98	0.97	76.50
						2" Ice	2.34	1.25	114.97
RRUS 11 (Band 12) (55 lb)	A	From Leg	3.00	0.0000	151.50	No Ice	0.00	1.07	60.00
			0.00			1/2" Ice	2.72	1.21	74.32
			0.50			1" Ice	2.92	1.36	96.56
						2" Ice	3.35	1.68	150.56
RRUS 11 (Band 12) (55 lb)	B	From Leg	3.00	0.0000	151.50	No Ice	0.00	1.07	60.00
			0.00			1/2" Ice	2.72	1.21	74.32
			0.50			1" Ice	2.92	1.36	96.56
						2" Ice	3.35	1.68	150.56
RRUS 11 (Band 12) (55 lb)	C	From Leg	3.00	0.0000	151.50	No Ice	0.00	1.07	60.00
			0.00			1/2" Ice	2.72	1.21	74.32
			0.50			1" Ice	2.92	1.36	96.56
						2" Ice	3.35	1.68	150.56
RRUS 32 (50.8 lbs)	A	From Leg	3.00	0.0000	151.50	No Ice	0.00	2.42	80.00
			0.00			1/2" Ice	0.00	2.64	104.93
			0.50			1" Ice	0.00	2.86	136.47
						2" Ice	0.00	3.32	211.15
RRUS 32 (50.8 lbs)	B	From Leg	3.00	0.0000	151.50	No Ice	0.00	2.42	80.00
			0.00			1/2" Ice	0.00	2.64	104.93
			0.50			1" Ice	0.00	2.86	136.47
						2" Ice	0.00	3.32	211.15
RRUS 32 (50.8 lbs)	C	From Leg	3.00	0.0000	151.50	No Ice	0.00	2.42	80.00
			0.00			1/2" Ice	0.00	2.64	104.93

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight	
			Horz	Vert						
			ft	ft	°	ft	ft ²	ft ²	lb	
			0.50				1" Ice	0.00	2.86	136.47
							2" Ice	0.00	3.32	211.15
RRUS 32 B2	A	From Leg	3.00	0.0000	151.50	No Ice	0.00	1.67	50.00	
			0.00			1/2" Ice	0.00	1.86	74.11	
			0.50			1" Ice	0.00	2.05	98.42	
						2" Ice	0.00	2.46	157.41	
RRUS 32 B2	A	From Leg	3.00	0.0000	151.50	No Ice	0.00	1.67	50.00	
			0.00			1/2" Ice	0.00	1.86	74.11	
			0.50			1" Ice	0.00	2.05	98.42	
						2" Ice	0.00	2.46	157.41	
RRUS 32 B2	C	From Leg	3.00	0.0000	151.50	No Ice	0.00	1.67	50.00	
			0.00			1/2" Ice	0.00	1.86	74.11	
			0.50			1" Ice	0.00	2.05	98.42	
						2" Ice	0.00	2.46	157.41	
7770.00	A	From Leg	3.00	0.0000	151.50	No Ice	5.51	2.93	40.00	
			0.00			1/2" Ice	6.31	3.27	67.63	
			0.50			1" Ice	6.75	3.63	105.07	
						2" Ice	7.66	4.35	195.09	
7770.00	B	From Leg	3.00	0.0000	151.50	No Ice	5.51	2.93	40.00	
			0.00			1/2" Ice	6.31	3.27	67.63	
			0.50			1" Ice	6.75	3.63	105.07	
						2" Ice	7.66	4.35	195.09	
7770.00	C	From Leg	3.00	0.0000	151.50	No Ice	5.51	2.93	40.00	
			0.00			1/2" Ice	6.31	3.27	67.63	
			0.50			1" Ice	6.75	3.63	105.07	
						2" Ice	7.66	4.35	195.09	
QS66512-2	A	From Leg	3.00	0.0000	151.50	No Ice	8.13	5.00	111.00	
			0.00			1/2" Ice	9.23	5.80	168.00	
			0.50			1" Ice	10.33	6.60	225.00	
						2" Ice	12.53	8.20	339.00	
QS66512-2	B	From Leg	3.00	0.0000	151.50	No Ice	8.13	5.00	111.00	
			0.00			1/2" Ice	9.23	5.80	168.00	
			0.50			1" Ice	10.33	6.60	225.00	
						2" Ice	12.53	8.20	339.00	
QS66512-2	C	From Leg	3.00	0.0000	151.50	No Ice	8.13	5.00	111.00	
			0.00			1/2" Ice	9.23	5.80	168.00	
			0.50			1" Ice	10.33	6.60	225.00	
						2" Ice	12.53	8.20	339.00	
OPA-65R-LCUU-H6	A	From Leg	3.00	0.0000	151.50	No Ice	9.66	5.52	70.00	
			0.00			1/2" Ice	10.13	5.97	131.43	
			0.50			1" Ice	10.61	6.43	196.17	
						2" Ice	11.58	7.38	345.32	
OPA-65R-LCUU-H6	B	From Leg	3.00	0.0000	151.50	No Ice	9.66	5.52	70.00	
			0.00			1/2" Ice	10.13	5.97	131.43	
			0.50			1" Ice	10.61	6.43	196.17	
						2" Ice	11.58	7.38	345.32	
OPA-65R-LCUU-H6	C	From Leg	3.00	0.0000	151.50	No Ice	9.66	5.52	70.00	
			0.00			1/2" Ice	10.13	5.97	131.43	
			0.50			1" Ice	10.61	6.43	196.17	
						2" Ice	11.58	7.38	345.32	
CBC23SR-43	A	From Leg	3.00	0.0000	151.50	No Ice	0.00	0.15	10.00	
			0.00			1/2" Ice	0.00	0.17	10.00	
			0.50			1" Ice	0.54	0.19	10.00	
						2" Ice	0.66	0.23	10.00	
CBC23SR-43	B	From Leg	3.00	0.0000	151.50	No Ice	0.00	0.15	10.00	
			0.00			1/2" Ice	0.00	0.17	10.00	
			0.50			1" Ice	0.54	0.19	10.00	

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	Client	VERIZON WIRELESS	Designed by	Garret.Heath

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	lb
CBC23SR-43	C	From Leg	3.00	0.0000	151.50	2" Ice	0.66	0.23	10.00
			0.00	No Ice		0.00	0.15	10.00	
			0.50	1/2" Ice		0.00	0.17	10.00	
				1" Ice		0.54	0.19	10.00	
DC6-48-60-0-8C-EV	A	From Leg	3.00	0.0000	151.50	2" Ice	0.66	0.23	10.00
			0.00	No Ice		1.02	1.02	20.00	
			0.50	1/2" Ice		1.10	1.10	20.00	
				1" Ice		1.18	1.18	20.00	
ION-M23 SDARS	A	From Leg	3.00	0.0000	151.50	2" Ice	1.34	1.34	20.00
			0.00	No Ice		1.84	1.76	50.00	
			0.50	1/2" Ice		2.02	1.94	60.00	
				1" Ice		2.20	2.12	70.00	
ION-M23 SDARS	B	From Leg	3.00	0.0000	151.50	2" Ice	2.56	2.48	90.00
			0.00	No Ice		1.84	1.76	50.00	
			0.50	1/2" Ice		2.02	1.94	60.00	
				1" Ice		2.20	2.12	70.00	
ION-M23 SDARS	C	From Leg	3.00	0.0000	151.50	2" Ice	2.56	2.48	90.00
			0.00	No Ice		1.84	1.76	50.00	
			0.00	1/2" Ice		2.02	1.94	60.00	
				1" Ice		2.20	2.12	70.00	
Flat Platform w/ Handrails	C	None		0.0000	151.50	2" Ice	2.56	2.48	90.00
				No Ice		42.40	42.40	2500.00	
				1/2" Ice		48.40	48.40	2450.00	
				1" Ice		54.40	54.40	2900.00	
*** RADIO 4449 B71/B85A	A	From Leg	3.00	0.0000	142.00	2" Ice	66.40	66.40	3800.00
			0.00	No Ice		1.65	1.31	75.00	
			0.00	1/2" Ice		1.80	1.46	92.22	
				1" Ice		1.97	1.61	112.19	
RADIO 4449 B71/B85A	B	From Leg	3.00	0.0000	142.00	2" Ice	2.33	1.94	161.00
			0.00	No Ice		1.65	1.31	75.00	
			0.00	1/2" Ice		1.80	1.46	92.22	
				1" Ice		1.97	1.61	112.19	
RADIO 4449 B71/B85A	C	From Leg	3.00	0.0000	142.00	2" Ice	2.33	1.94	161.00
			0.00	No Ice		1.65	1.31	75.00	
			0.00	1/2" Ice		1.80	1.46	92.22	
				1" Ice		1.97	1.61	112.19	
RADIO 4460 B2/B25 B66	A	From Leg	3.00	0.0000	142.00	2" Ice	2.33	1.94	161.00
			0.00	No Ice		2.56	1.61	109.00	
			0.00	1/2" Ice		2.95	1.85	131.16	
				1" Ice		3.33	2.02	156.36	
RADIO 4460 B2/B25 B66	B	From Leg	3.00	0.0000	142.00	2" Ice	4.10	2.39	216.68
			0.00	No Ice		2.56	1.61	109.00	
			0.00	1/2" Ice		2.95	1.85	131.16	
				1" Ice		3.33	2.02	156.36	
RADIO 4460 B2/B25 B66	C	From Leg	3.00	0.0000	142.00	2" Ice	4.10	2.39	216.68
			0.00	No Ice		2.56	1.61	109.00	
			0.00	1/2" Ice		2.95	1.85	131.16	
				1" Ice		3.33	2.02	156.36	
AIR 6449 B41	A	From Leg	3.00	0.0000	142.00	2" Ice	4.10	2.39	216.68
			0.00	No Ice		5.68	2.48	104.00	
			0.00	1/2" Ice		5.96	2.70	153.54	
				1" Ice		6.27	2.94	196.67	
AIR 6449 B41	B	From Leg	3.00	0.0000	142.00	2" Ice	6.91	3.43	296.37
			0.00	No Ice		5.68	2.48	104.00	
			0.00	1/2" Ice		5.96	2.70	153.54	
			0.00	1" Ice		6.27	2.94	196.67	

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	Client	VERIZON WIRELESS	Designed by	Garret.Heath

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Vert					
			Lateral		°	ft	ft ²	ft ²	lb
			ft	ft					
AIR 6449 B41	C	From Leg	3.00	0.0000	142.00	2" Ice	6.91	3.43	296.37
			0.00	No Ice		5.68	2.48	104.00	
			0.00	1/2" Ice		5.96	2.70	153.54	
			0.00	1" Ice		6.27	2.94	196.67	
AIR32 B66Aa/B2a	A	From Leg	3.00	0.0000	142.00	2" Ice	6.91	3.43	296.37
			0.00	No Ice		6.51	2.70	132.20	
			0.00	1/2" Ice		7.78	3.22	178.00	
			0.00	1" Ice		9.05	3.74	223.80	
AIR32 B66Aa/B2a	B	From Leg	3.00	0.0000	142.00	2" Ice	11.59	4.78	315.40
			0.00	No Ice		6.51	2.70	132.20	
			0.00	1/2" Ice		7.78	3.22	178.00	
			0.00	1" Ice		9.05	3.74	223.80	
AIR32 B66Aa/B2a	C	From Leg	3.00	0.0000	142.00	2" Ice	11.59	4.78	315.40
			0.00	No Ice		6.51	2.70	132.20	
			0.00	1/2" Ice		7.78	3.22	178.00	
			0.00	1" Ice		9.05	3.74	223.80	
APXVAARR24_43-U-NA20	A	From Leg	3.00	0.0000	142.00	2" Ice	11.59	4.78	315.40
			0.00	No Ice		20.24	5.15	127.90	
			0.00	1/2" Ice		23.53	5.99	240.00	
			0.00	1" Ice		26.82	6.83	352.10	
APXVAARR24_43-U-NA20	B	From Leg	3.00	0.0000	142.00	2" Ice	33.40	8.51	576.30
			0.00	No Ice		20.24	5.15	127.90	
			0.00	1/2" Ice		23.53	5.99	240.00	
			0.00	1" Ice		26.82	6.83	352.10	
APXVAARR24_43-U-NA20	C	From Leg	3.00	0.0000	142.00	2" Ice	33.40	8.51	576.30
			0.00	No Ice		20.24	5.15	127.90	
			0.00	1/2" Ice		23.53	5.99	240.00	
			0.00	1" Ice		26.82	6.83	352.10	
Round Platform w/ Handrails	C	None		0.0000	142.00	2" Ice	33.40	8.51	576.30
				No Ice		27.20	27.20	2500.00	
				1/2" Ice		34.20	34.20	2400.00	
				1" Ice		41.20	41.20	2800.00	
*** RRH2x50-08	A	From Face	3.00	0.0000	127.00	2" Ice	55.20	55.20	3600.00
			0.00	No Ice		1.70	1.10	52.90	
			0.00	1/2" Ice		2.27	1.80	69.90	
			0.00	1" Ice		2.84	2.50	86.90	
RRH2x50-08	B	From Face	3.00	0.0000	127.00	2" Ice	3.98	3.90	120.90
			0.00	No Ice		1.70	1.10	52.90	
			0.00	1/2" Ice		2.27	1.80	69.90	
			0.00	1" Ice		2.84	2.50	86.90	
RRH2x50-08	C	From Face	3.00	0.0000	127.00	2" Ice	3.98	3.90	120.90
			0.00	No Ice		1.70	1.10	52.90	
			0.00	1/2" Ice		2.27	1.80	69.90	
			0.00	1" Ice		2.84	2.50	86.90	
800 MHz 2X50W RRH w/ Filter	A	From Leg	3.00	0.0000	132.70	2" Ice	3.98	3.90	120.90
			0.00	No Ice		0.00	1.93	60.00	
			0.00	1/2" Ice		2.24	2.11	86.12	
			0.00	1" Ice		2.43	2.29	111.30	
800 MHz 2X50W RRH w/ Filter	B	From Leg	3.00	0.0000	132.70	2" Ice	2.83	2.68	171.62
			0.00	No Ice		0.00	1.93	60.00	
			0.00	1/2" Ice		2.24	2.11	86.12	
			0.00	1" Ice		2.43	2.29	111.30	
800 MHz 2X50W RRH w/ Filter	C	From Leg	3.00	0.0000	132.70	2" Ice	2.83	2.68	171.62
			0.00	No Ice		0.00	1.93	60.00	
			0.00	1/2" Ice		2.24	2.11	86.12	
			0.00	1" Ice		2.43	2.29	111.30	

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	Client	VERIZON WIRELESS	Designed by	Garret.Heath

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Vert					
					°	ft	ft ²	ft ²	lb
(2) 4x40W RRH (88 lb)	A	From Leg	3.00	0.0000	127.00	2" Ice	2.83	2.68	171.62
			0.00	No Ice		0.00	3.80	90.00	
			0.00	1/2" Ice		0.00	4.06	119.27	
				1" Ice		0.00	4.34	154.18	
(2) 4x40W RRH (88 lb)	C	From Leg	3.00	0.0000	127.00	2" Ice	0.00	4.91	235.65
			0.00	No Ice		0.00	3.80	90.00	
			0.00	1/2" Ice		0.00	4.06	119.27	
				1" Ice		0.00	4.34	154.18	
(2) 4x40W RRH (88 lb)	B	From Leg	3.00	0.0000	127.00	2" Ice	0.00	4.91	235.65
			0.00	No Ice		0.00	3.80	90.00	
			0.00	1/2" Ice		0.00	4.06	119.27	
				1" Ice		0.00	4.34	154.18	
TD-RRH8x20	A	From Face	3.00	0.0000	127.00	2" Ice	0.00	4.91	235.65
			0.00	No Ice		0.00	1.40	70.00	
			0.00	1/2" Ice		4.59	1.61	89.96	
				1" Ice		4.88	1.82	117.16	
TD-RRH8x20	B	From Face	3.00	0.0000	127.00	2" Ice	5.48	2.27	182.34
			0.00	No Ice		0.00	1.40	70.00	
			0.00	1/2" Ice		4.59	1.61	89.96	
				1" Ice		4.88	1.82	117.16	
TD-RRH8x20	C	From Face	3.00	0.0000	127.00	2" Ice	5.48	2.27	182.34
			0.00	No Ice		0.00	1.40	70.00	
			0.00	1/2" Ice		4.59	1.61	89.96	
				1" Ice		4.88	1.82	117.16	
APXVSPP18-C-A20	A	From Leg	3.00	0.0000	127.00	2" Ice	5.48	2.27	182.34
			0.00	No Ice		8.02	5.28	60.00	
			0.00	1/2" Ice		8.48	5.74	106.52	
				1" Ice		8.94	6.20	162.12	
APXVSPP18-C-A20	B	From Leg	3.00	0.0000	127.00	2" Ice	9.89	7.14	292.33
			0.00	No Ice		8.02	5.28	60.00	
			0.00	1/2" Ice		8.48	5.74	106.52	
				1" Ice		8.94	6.20	162.12	
APXV9ERR18-C-A20	C	From Leg	3.00	0.0000	127.00	2" Ice	9.89	7.14	292.33
			0.00	No Ice		8.02	5.81	60.00	
			0.00	1/2" Ice		8.48	6.27	113.99	
				1" Ice		8.94	6.73	172.12	
DT465B-2XR	A	From Leg	3.00	0.0000	127.00	2" Ice	9.89	7.68	307.57
			0.00	No Ice		9.10	5.97	60.00	
			0.00	1/2" Ice		9.56	6.43	116.01	
				1" Ice		10.04	6.90	180.29	
DT465B-2XR	B	From Leg	3.00	0.0000	127.00	2" Ice	11.00	7.84	328.48
			0.00	No Ice		9.10	5.97	60.00	
			0.00	1/2" Ice		9.56	6.43	116.01	
				1" Ice		10.04	6.90	180.29	
DT465B-2XR	C	From Leg	3.00	0.0000	127.00	2" Ice	11.00	7.84	328.48
			0.00	No Ice		9.10	5.97	60.00	
			0.00	1/2" Ice		9.56	6.43	116.01	
				1" Ice		10.04	6.90	180.29	
RRH2X60	A	From Leg	3.00	0.0000	119.70	2" Ice	11.00	7.84	328.48
			0.00	No Ice		3.50	1.82	60.00	
			0.00	1/2" Ice		3.76	2.05	82.72	
				1" Ice		4.03	2.29	109.06	
RRH2X60	B	From Leg	3.00	0.0000	119.70	2" Ice	4.58	2.79	173.43
			0.00	No Ice		3.50	1.82	60.00	
			0.00	1/2" Ice		3.76	2.05	82.72	
				1" Ice		4.03	2.29	109.06	
					2" Ice	4.58	2.79	173.43	

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	Client	VERIZON WIRELESS	Designed by	Garret.Heath

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral					
			ft	ft	°	ft	ft ²	ft ²	lb
RRH2X60	C	From Leg	3.00	0.0000	119.70	No Ice	3.50	1.82	60.00
			0.00			1/2" Ice	3.76	2.05	82.72
			0.00			1" Ice	4.03	2.29	109.06
						2" Ice	4.58	2.79	173.43
Round Platform w/ Handrails	C	None		0.0000	127.00	No Ice	27.20	27.20	2500.00
						1/2" Ice	34.20	34.20	2400.00
						1" Ice	41.20	41.20	2800.00
						2" Ice	55.20	55.20	3600.00
**									
Outdoor CBRS 20W rRH - Clip on Antenna	A	From Leg	3.00	0.0000	116.00	No Ice	0.89	0.75	4.40
			0.00			1/2" Ice	1.03	0.87	5.06
			0.00			1" Ice	1.16	0.99	5.72
						2" Ice	1.43	1.27	7.04
Outdoor CBRS 20W rRH - Clip on Antenna	B	From Leg	3.00	0.0000	116.00	No Ice	0.89	0.75	4.40
			0.00			1/2" Ice	1.03	0.87	5.06
			0.00			1" Ice	1.16	0.99	5.72
						2" Ice	1.43	1.27	7.04
Outdoor CBRS 20W rRH - Clip on Antenna	C	From Leg	3.00	0.0000	116.00	No Ice	0.89	0.75	4.40
			0.00			1/2" Ice	1.03	0.87	5.06
			0.00			1" Ice	1.16	0.99	5.72
						2" Ice	1.43	1.27	7.04
RT4401-48A	A	From Leg	3.00	0.0000	116.00	No Ice	1.00	1.00	18.60
			0.00			1/2" Ice	1.15	1.15	21.39
			0.00			1" Ice	1.29	1.29	24.18
						2" Ice	1.59	1.59	29.76
RT4401-48A	B	From Leg	3.00	0.0000	116.00	No Ice	1.00	1.00	18.60
			0.00			1/2" Ice	1.15	1.15	21.39
			0.00			1" Ice	1.29	1.29	24.18
						2" Ice	1.59	1.59	29.76
RT4401-48A	C	From Leg	3.00	0.0000	116.00	No Ice	1.00	1.00	18.60
			0.00			1/2" Ice	1.15	1.15	21.39
			0.00			1" Ice	1.29	1.29	24.18
						2" Ice	1.59	1.59	29.76
(2) SBNHH-1D65B	A	From Leg	3.00	0.0000	116.00	No Ice	8.17	5.41	50.70
			0.00			1/2" Ice	8.63	5.86	101.21
			0.00			1" Ice	9.10	6.33	157.85
						2" Ice	10.05	7.28	290.33
(2) SBNHH-1D65B	B	From Leg	3.00	0.0000	116.00	No Ice	8.17	5.41	50.70
			0.00			1/2" Ice	8.63	5.86	101.21
			0.00			1" Ice	9.10	6.33	157.85
						2" Ice	10.05	7.28	290.33
(2) SBNHH-1D65B	C	From Leg	3.00	0.0000	116.00	No Ice	8.17	5.41	50.70
			0.00			1/2" Ice	8.63	5.86	101.21
			0.00			1" Ice	9.10	6.33	157.85
						2" Ice	10.05	7.28	290.33
(2) SBNHH-1D65B	A	From Leg	3.00	0.0000	115.00	No Ice	8.17	5.41	50.70
			0.00			1/2" Ice	8.63	5.86	101.21
			0.00			1" Ice	9.10	6.33	157.85
						2" Ice	10.05	7.28	290.33
(2) SBNHH-1D65B	B	From Leg	3.00	0.0000	115.00	No Ice	8.17	5.41	50.70
			0.00			1/2" Ice	8.63	5.86	101.21
			0.00			1" Ice	9.10	6.33	157.85
						2" Ice	10.05	7.28	290.33
(2) SBNHH-1D65B	C	From Leg	3.00	0.0000	115.00	No Ice	8.17	5.41	50.70
			0.00			1/2" Ice	8.63	5.86	101.21
			0.00			1" Ice	9.10	6.33	157.85
						2" Ice	10.05	7.28	290.33

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	Client	VERIZON WIRELESS	Designed by	Garret.Heath

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	lb
B2/B66A RRH-BR049	A	From Leg	3.00	0.0000	116.00	No Ice	2.05	1.54	38.30
			0.00			1/2" Ice	2.23	1.70	59.84
			0.00			1" Ice	2.41	1.86	84.37
						2" Ice	2.81	2.21	143.23
B2/B66A RRH-BR049	B	From Leg	3.00	0.0000	116.00	No Ice	2.05	1.54	38.30
			0.00			1/2" Ice	2.23	1.70	59.84
			0.00			1" Ice	2.41	1.86	84.37
						2" Ice	2.81	2.21	143.23
B2/B66A RRH-BR049	C	From Leg	3.00	0.0000	116.00	No Ice	2.05	1.54	38.30
			0.00			1/2" Ice	2.23	1.70	59.84
			0.00			1" Ice	2.41	1.86	84.37
						2" Ice	2.81	2.21	143.23
B5/B13 RRH-BR04C	A	From Leg	3.00	0.0000	116.00	No Ice	1.88	1.01	70.30
			0.00			1/2" Ice	2.05	1.14	86.73
			0.00			1" Ice	2.22	1.28	105.83
						2" Ice	2.60	1.59	152.80
B5/B13 RRH-BR04C	B	From Leg	3.00	0.0000	116.00	No Ice	1.88	1.01	70.30
			0.00			1/2" Ice	2.05	1.14	86.73
			0.00			1" Ice	2.22	1.28	105.83
						2" Ice	2.60	1.59	152.80
B5/B13 RRH-BR04C	C	From Leg	3.00	0.0000	116.00	No Ice	1.88	1.01	70.30
			0.00			1/2" Ice	2.05	1.14	86.73
			0.00			1" Ice	2.22	1.28	105.83
						2" Ice	2.60	1.59	152.80
RRFDC-3315-PF-48	A	From Leg	3.00	0.0000	116.00	No Ice	2.80	2.19	32.00
			0.00			1/2" Ice	3.60	2.39	49.94
			0.00			1" Ice	3.84	2.61	82.01
						2" Ice	4.34	3.05	157.57
RRFDC-3315-PF-48	B	From Leg	3.00	0.0000	116.00	No Ice	2.80	2.19	32.00
			0.00			1/2" Ice	3.60	2.39	49.94
			0.00			1" Ice	3.84	2.61	82.01
						2" Ice	4.34	3.05	157.57
MT6407-77A	A	From Leg	3.00	0.0000	116.00	No Ice	4.71	1.84	81.57
			0.00			1/2" Ice	4.98	2.06	110.81
			0.00			1" Ice	5.28	2.29	143.92
						2" Ice	5.89	2.77	222.51
MT6407-77A	B	From Leg	3.00	0.0000	116.00	No Ice	4.71	1.84	81.57
			0.00			1/2" Ice	4.98	2.06	110.81
			0.00			1" Ice	5.28	2.29	143.92
						2" Ice	5.89	2.77	222.51
MT6407-77A	C	From Leg	3.00	0.0000	116.00	No Ice	4.71	1.84	81.57
			0.00			1/2" Ice	4.98	2.06	110.81
			0.00			1" Ice	5.28	2.29	143.92
						2" Ice	5.89	2.77	222.51
BXA-70080-6CF-EDIN-4	A	From Leg	3.00	0.0000	116.00	No Ice	5.77	4.56	18.00
			0.00			1/2" Ice	5.76	5.00	54.30
			0.00			1" Ice	6.68	5.45	96.29
						2" Ice	7.62	6.37	198.15
BXA-70080-6CF-EDIN-4	B	From Leg	3.00	0.0000	116.00	No Ice	5.77	4.56	18.00
			0.00			1/2" Ice	5.76	5.00	54.30
			0.00			1" Ice	6.68	5.45	96.29
						2" Ice	7.62	6.37	198.15
BXA-70080-6CF-EDIN-4	C	From Leg	3.00	0.0000	116.00	No Ice	5.77	4.56	18.00
			0.00			1/2" Ice	5.76	5.00	54.30
			0.00			1" Ice	6.68	5.45	96.29
						2" Ice	7.62	6.37	198.15
Sit Pro 1 F4P 12 w/ F4P	C	None		0.0000	116.00	No Ice	36.26	36.26	2907.36

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	Client	VERIZON WIRELESS	Designed by	Garret.Heath

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral					
HRK12									
						1/2" Ice	45.46	45.46	3295.00
						1" Ice	54.66	32.70	3682.64
						2" Ice	73.06	7.18	4457.92
**									
Flat Platform w/ Handrails	C	None			0.0000	105.00	No Ice	42.40	2500.00
							1/2" Ice	48.40	2450.00
							1" Ice	54.40	2900.00
							2" Ice	66.40	3800.00
MX08FRO665-21	A	From Leg	3.00		0.0000	105.00	No Ice	12.49	64.50
			0.00				1/2" Ice	12.99	138.29
			0.00				1" Ice	13.49	218.76
							2" Ice	14.52	400.50
MX08FRO665-21	B	From Leg	3.00		0.0000	105.00	No Ice	12.49	64.50
			0.00				1/2" Ice	12.99	138.29
			0.00				1" Ice	13.49	218.76
							2" Ice	14.52	400.50
MX08FRO665-21	C	From Leg	3.00		0.0000	105.00	No Ice	12.49	64.50
			0.00				1/2" Ice	12.99	138.29
			0.00				1" Ice	13.49	218.76
							2" Ice	14.52	400.50
TA08025-B604	A	From Leg	3.00		0.0000	105.00	No Ice	1.96	63.93
			0.00				1/2" Ice	2.14	80.68
			0.00				1" Ice	2.32	100.13
							2" Ice	2.71	147.88
TA08025-B604	B	From Leg	3.00		0.0000	105.00	No Ice	1.96	63.93
			0.00				1/2" Ice	2.14	80.68
			0.00				1" Ice	2.32	100.13
							2" Ice	2.71	147.88
TA08025-B604	C	From Leg	3.00		0.0000	105.00	No Ice	1.96	63.93
			0.00				1/2" Ice	2.14	80.68
			0.00				1" Ice	2.32	100.13
							2" Ice	2.71	147.88
TA08025-B605	A	From Leg	3.00		0.0000	105.00	No Ice	2.23	74.95
			0.00				1/2" Ice	2.41	94.60
			0.00				1" Ice	2.60	117.15
							2" Ice	3.01	171.73
TA08025-B605	B	From Leg	3.00		0.0000	105.00	No Ice	2.23	74.95
			0.00				1/2" Ice	2.41	94.60
			0.00				1" Ice	2.60	117.15
							2" Ice	3.01	171.73
TA08025-B605	C	From Leg	3.00		0.0000	105.00	No Ice	2.23	74.95
			0.00				1/2" Ice	2.41	94.60
			0.00				1" Ice	2.60	117.15
							2" Ice	3.01	171.73
RDIDC-9181-PF-48	A	From Leg	1.50		0.0000	105.00	No Ice	1.87	21.85
			0.00				1/2" Ice	2.19	39.53
			0.00				1" Ice	2.37	59.97
							2" Ice	2.76	109.90
**									

Tower Pressures - No Ice

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	Client	VERIZON WIRELESS	Designed by	Garret.Heath

$$G_H = 1.100$$

Section Elevation	z	K _Z	q _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _A A ₁ In Face	C _A A ₁ Out Face
ft	ft		psf	ft ²	e	ft ²	ft ²	ft ²		ft ²	ft ²
L1 151.50-141.00	146.22	1.102	37	15.766	A	0.000	15.766	15.766	100.00	0.000	0.000
					B	0.000	15.766		100.00	0.000	0.000
					C	0.000	15.766		100.00	0.000	0.000
L2 141.00-120.33	129.70	1.064	36	43.714	A	0.000	43.714	43.714	100.00	8.268	0.000
					B	0.000	43.714		100.00	8.268	0.000
					C	0.000	43.714		100.00	8.268	0.000
L3 120.33-111.19	115.73	1.03	35	25.340	A	0.000	25.340	25.340	100.00	3.656	0.000
					B	0.000	25.340		100.00	16.653	0.000
					C	0.000	25.340		100.00	3.656	0.000
L4 111.19-82.08	96.27	0.978	33	89.196	A	0.000	89.196	89.196	100.00	11.644	0.000
					B	0.000	89.196		100.00	90.299	0.000
					C	0.000	89.196		100.00	11.644	0.000
L5 82.08-70.06	76.03	0.914	31	40.277	A	0.000	40.277	40.277	100.00	4.808	0.000
					B	0.000	40.277		100.00	37.286	0.000
					C	0.000	40.277		100.00	4.808	0.000
L6 70.06-42.24	55.92	0.837	28	99.907	A	0.000	99.907	99.907	100.00	11.128	0.000
					B	0.000	99.907		100.00	86.298	0.000
					C	0.000	99.907		100.00	11.128	0.000
L7 42.24-32.71	37.46	0.746	25	36.410	A	0.000	36.410	36.410	100.00	3.812	0.000
					B	0.000	36.410		100.00	29.562	0.000
					C	0.000	36.410		100.00	3.812	0.000
L8 32.71-0.00	16.10	0.7	24	132.831	A	0.000	132.831	132.831	100.00	11.084	0.000
					B	0.000	132.831		100.00	85.956	0.000
					C	0.000	132.831		100.00	11.084	0.000

Tower Pressure - With Ice

$$G_H = 1.100$$

Section Elevation	z	K _Z	q _z	t _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _A A ₁ In Face	C _A A ₁ Out Face
ft	ft		psf	in	ft ²	e	ft ²	ft ²	ft ²		ft ²	ft ²
L1 151.50-141.00	146.22	1.102	7	1.7408	18.812	A	0.000	18.812	18.812	100.00	0.000	0.000
						B	0.000	18.812		100.00	0.000	0.000
						C	0.000	18.812		100.00	0.000	0.000
L2 141.00-120.33	129.70	1.064	6	1.7200	49.639	A	0.000	49.639	49.639	100.00	15.379	0.000
						B	0.000	49.639		100.00	15.379	0.000
						C	0.000	49.639		100.00	15.379	0.000
L3 120.33-111.19	115.73	1.03	6	1.7005	27.930	A	0.000	27.930	27.930	100.00	6.765	0.000
						B	0.000	27.930		100.00	27.100	0.000
						C	0.000	27.930		100.00	6.765	0.000
L4 111.19-82.08	96.27	0.978	6	1.6695	97.296	A	0.000	97.296	97.296	100.00	21.364	0.000
						B	0.000	97.296		100.00	143.983	0.000
						C	0.000	97.296		100.00	21.364	0.000
L5 82.08-70.06	76.03	0.914	6	1.6306	43.543	A	0.000	43.543	43.543	100.00	8.728	0.000
						B	0.000	43.543		100.00	59.125	0.000
						C	0.000	43.543		100.00	8.728	0.000
L6 70.06-42.24	55.92	0.837	5	1.5812	107.239	A	0.000	107.239	107.239	100.00	19.926	0.000
						B	0.000	107.239		100.00	135.883	0.000
						C	0.000	107.239		100.00	19.926	0.000
L7 42.24-32.71	37.46	0.746	5	1.5191	38.822	A	0.000	38.822	38.822	100.00	6.707	0.000
						B	0.000	38.822		100.00	46.134	0.000

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Section Elevation	z	K _Z	q _z	t _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _A A _A In Face	C _A A _A Out Face
ft	ft		psf	in	ft ²		ft ²	ft ²	ft ²		ft ²	ft ²
L8 32.71-0.00	16.10	0.7	4	1.3961	140.442	C	0.000	38.822		100.00	6.707	0.000
						A	0.000	140.442	140.442	100.00	18.821	0.000
						B	0.000	140.442		100.00	131.754	0.000
						C	0.000	140.442		100.00	18.821	0.000

Tower Pressure - Service

$G_H = 1.100$

Section Elevation	z	K _Z	q _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _A A _A In Face	C _A A _A Out Face
ft	ft		psf	ft ²		ft ²	ft ²	ft ²		ft ²	ft ²
L1 151.50-141.00	146.22	1.102	9	15.766	A	0.000	15.766	15.766	100.00	0.000	0.000
					B	0.000	15.766		100.00	0.000	0.000
					C	0.000	15.766		100.00	0.000	0.000
L2 141.00-120.33	129.70	1.064	8	43.714	A	0.000	43.714	43.714	100.00	8.268	0.000
					B	0.000	43.714		100.00	8.268	0.000
					C	0.000	43.714		100.00	8.268	0.000
L3 120.33-111.19	115.73	1.03	8	25.340	A	0.000	25.340	25.340	100.00	3.656	0.000
					B	0.000	25.340		100.00	16.653	0.000
					C	0.000	25.340		100.00	3.656	0.000
L4 111.19-82.08	96.27	0.978	8	89.196	A	0.000	89.196	89.196	100.00	11.644	0.000
					B	0.000	89.196		100.00	90.299	0.000
					C	0.000	89.196		100.00	11.644	0.000
L5 82.08-70.06	76.03	0.914	7	40.277	A	0.000	40.277	40.277	100.00	4.808	0.000
					B	0.000	40.277		100.00	37.286	0.000
					C	0.000	40.277		100.00	4.808	0.000
L6 70.06-42.24	55.92	0.837	7	99.907	A	0.000	99.907	99.907	100.00	11.128	0.000
					B	0.000	99.907		100.00	86.298	0.000
					C	0.000	99.907		100.00	11.128	0.000
L7 42.24-32.71	37.46	0.746	6	36.410	A	0.000	36.410	36.410	100.00	3.812	0.000
					B	0.000	36.410		100.00	29.562	0.000
					C	0.000	36.410		100.00	3.812	0.000
L8 32.71-0.00	16.10	0.7	5	132.831	A	0.000	132.831	132.831	100.00	11.084	0.000
					B	0.000	132.831		100.00	85.956	0.000
					C	0.000	132.831		100.00	11.084	0.000

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice

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<i>Comb. No.</i>	<i>Description</i>
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Tower Deflections - Service Wind

<i>Section No.</i>	<i>Elevation ft</i>	<i>Horz. Deflection ft</i>	<i>Gov. Load Comb.</i>	<i>Tilt °</i>	<i>Twist °</i>
L1	151.5 - 141	1.988	50	1.3231	0.0017
L2	141 - 120.33	1.748	50	1.2856	0.0011
L3	120.33 - 111.19	1.306	50	1.1713	0.0006
L4	111.19 - 82.08	1.123	50	1.1191	0.0005
L5	82.08 - 70.06	0.616	50	0.8568	0.0003
L6	70.06 - 42.24	0.448	50	0.7379	0.0002
L7	42.24 - 32.71	0.162	50	0.4347	0.0001
L8	32.71 - 0	0.097	50	0.3381	0.0001

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Critical Deflections and Radius of Curvature - Service Wind

<i>Elevation</i>	<i>Appurtenance</i>	<i>Gov. Load</i>	<i>Deflection</i>	<i>Tilt</i>	<i>Twist</i>	<i>Radius of Curvature</i>
<i>ft</i>		<i>Comb.</i>	<i>ft</i>	<i>°</i>	<i>°</i>	<i>ft</i>
151.50	(2) TPX-070821	50	1.988	1.3231	0.0018	18558
142.00	RADIO 4449 B71/B85A	50	1.771	1.2898	0.0011	10296
132.70	800 MHz 2X50W RRH w/ Filter	50	1.566	1.2433	0.0008	9940
127.00	RRH2x50-08	50	1.444	1.2100	0.0007	10864
119.70	RRH2X60	50	1.293	1.1678	0.0006	11330
116.00	Outdoor CBRS 20W rRH - Clip on Antenna	50	1.218	1.1475	0.0006	9905
115.00	(2) SBNHH-1D65B	50	1.198	1.1419	0.0006	9507
105.00	Flat Platform w/ Handrails	50	1.005	1.0741	0.0005	7399

Maximum Tower Deflections - Design Wind

<i>Section No.</i>	<i>Elevation</i>	<i>Horz. Deflection</i>	<i>Gov. Load</i>	<i>Tilt</i>	<i>Twist</i>
	<i>ft</i>	<i>ft</i>	<i>Comb.</i>	<i>°</i>	<i>°</i>
L1	151.5 - 141	8.677	24	5.7778	0.0074
L2	141 - 120.33	7.632	24	5.6203	0.0045
L3	120.33 - 111.19	5.702	24	5.1229	0.0027
L4	111.19 - 82.08	4.904	24	4.8946	0.0023
L5	82.08 - 70.06	2.688	24	3.7453	0.0013
L6	70.06 - 42.24	1.956	24	3.2248	0.0010
L7	42.24 - 32.71	0.706	24	1.8983	0.0005
L8	32.71 - 0	0.425	24	1.4758	0.0004

Critical Deflections and Radius of Curvature - Design Wind

<i>Elevation</i>	<i>Appurtenance</i>	<i>Gov. Load</i>	<i>Deflection</i>	<i>Tilt</i>	<i>Twist</i>	<i>Radius of Curvature</i>
<i>ft</i>		<i>Comb.</i>	<i>ft</i>	<i>°</i>	<i>°</i>	<i>ft</i>
151.50	(2) TPX-070821	24	8.677	5.7778	0.0081	4391
142.00	RADIO 4449 B71/B85A	24	7.730	5.6384	0.0051	2433
132.70	800 MHz 2X50W RRH w/ Filter	24	6.835	5.4375	0.0035	2327
127.00	RRH2x50-08	24	6.305	5.2925	0.0031	2524
119.70	RRH2X60	24	5.646	5.1076	0.0028	2617
116.00	Outdoor CBRS 20W rRH - Clip on Antenna	24	5.319	5.0189	0.0026	2288
115.00	(2) SBNHH-1D65B	24	5.232	4.9944	0.0026	2196
105.00	Flat Platform w/ Handrails	24	4.387	4.6973	0.0022	1715

Compression Checks

Pole Design Data

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Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
L1	151.5 - 150.45	TP17.7841x17.1872x0.24	10.50	0.00	0.0	13.1429	-4695.25	768861.00	0.006
	150.45 - 149.4					13.1891	-4773.93	771560.00	0.006
	149.4 - 148.35					13.2352	-4842.28	774258.00	0.006
	148.35 - 147.3					13.2813	-4911.07	776957.00	0.006
	147.3 - 146.25					13.3274	-4980.32	779655.00	0.006
	146.25 - 145.2					13.3736	-5050.04	782354.00	0.006
	145.2 - 144.15					13.4197	-5120.22	785052.00	0.007
	144.15 - 143.1					13.4658	-5190.89	787751.00	0.007
	143.1 - 142.05					13.5120	-5262.05	790449.00	0.007
	142.05 - 141					13.5581	-9964.83	793148.00	0.013
L2	141 - 139.967	TP31.557x17.7841x0.3059	20.67	0.00	0.0	17.8943	-10059.50	1046820.00	0.010
	139.967 - 138.933					18.5726	-10142.70	1086500.00	0.009
	138.933 - 137.899					19.2509	-10241.50	1126180.00	0.009
	137.899 - 136.866					19.9292	-10343.00	1165860.00	0.009
	136.866 - 135.833					20.6076	-10447.20	1205540.00	0.009
	135.833 - 134.799					21.2859	-10554.10	1245220.00	0.008
	134.799 - 133.766					21.9642	-10663.60	1284910.00	0.008
	133.766 - 132.732					22.6425	-10775.80	1324590.00	0.008
	132.732 - 131.699					23.3208	-11097.70	1364270.00	0.008
	131.699 - 130.665					23.9991	-11215.20	1403950.00	0.008
	130.665 - 129.631					24.6774	-11335.30	1443630.00	0.008
	129.631 - 128.598					25.3558	-11458.00	1483310.00	0.008
	128.598 - 127.565					26.0341	-11583.40	1522990.00	0.008
	127.565 - 126.531					26.7124	-15960.60	1562670.00	0.010
	126.531 - 125.498					27.3907	-16092.50	1602360.00	0.010
	125.498 - 124.464					28.0690	-16227.10	1642040.00	0.010
	124.464 - 123.43					28.7473	-16364.40	1681720.00	0.010
	123.43 - 122.397					29.4256	-16504.30	1721400.00	0.010
	122.397 - 121.364					30.1040	-16646.80	1761080.00	0.009
	121.364 - 120.33					30.7823	-16792.00	1800760.00	0.009
L3	120.33 - 119.314	TP33.028x31.557x0.3063	9.14	0.00	0.0	30.9833	-17143.60	1812520.00	0.009
	119.314 - 118.299					31.1445	-17300.80	1821960.00	0.009
	118.299 - 117.283					31.3057	-17459.00	1831390.00	0.010
	117.283 - 116.268					31.4669	-17618.10	1840820.00	0.010
	116.268 - 115.252					31.6281	-22179.10	1850250.00	0.012
	115.252 -					31.7893	-22600.20	1859680.00	0.012

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
L4	114.237	TP38.347x33.028x0.3141	29.11	0.00	0.0	31.9505	-22764.80	1869110.00	0.012
	114.237 - 113.221								
	113.221 - 112.206								
	112.206 - 111.19								
	111.19 - 109.735								
	109.735 - 108.279								
	108.279 - 106.824								
	106.824 - 105.368								
	105.368 - 103.912								
	103.912 - 102.457								
	102.457 - 101.001								
	101.001 - 99.546								
	99.546 - 98.0905								
	98.0905 - 96.635								
	96.635 - 95.1795								
	95.1795 - 93.724								
	93.724 - 92.2685								
	92.2685 - 90.813								
	90.813 - 89.3575								
	89.3575 - 87.902								
87.902 - 86.4465									
86.4465 - 84.991									
84.991 - 83.5355									
83.5355 - 82.08									
L5	82.08 - 81.0783	TP39.711x38.347x0.3804	12.02	0.00	0.0	46.6441	-32439.30	2728680.00	0.012
	81.0783 - 80.0767								
	80.0767 - 79.075								
	79.075 - 78.0733								
	78.0733 - 77.0717								
	77.0717 - 76.07								
	76.07 - 75.0683								
	75.0683 - 74.0667								
	74.0667 - 73.065								
	73.065 - 72.0633								

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
	75.0683								
	75.0683 - 74.0667					47.6187	-34157.60	2785690.00	0.012
	74.0667 - 73.065					47.7579	-34407.20	2793840.00	0.012
	73.065 - 72.0633					47.8971	-34657.70	2801980.00	0.012
	72.0633 - 71.0617					48.0364	-34909.30	2810130.00	0.012
	71.0617 - 70.06					48.1756	-35161.90	2818270.00	0.012
L6	70.06 - 68.669	TP43.95x39.711x0.4014	27.82	0.00	0.0	51.0819	-35525.10	2988290.00	0.012
	68.669 - 67.278					51.3559	-35894.30	3004320.00	0.012
	67.278 - 65.887					51.6298	-36265.60	3020340.00	0.012
	65.887 - 64.496					51.9038	-36639.20	3036370.00	0.012
	64.496 - 63.105					52.1777	-37014.90	3052400.00	0.012
	63.105 - 61.714					52.4517	-37392.80	3068420.00	0.012
	61.714 - 60.323					52.7256	-37772.80	3084450.00	0.012
	60.323 - 58.932					52.9995	-38155.10	3100470.00	0.012
	58.932 - 57.541					53.2735	-38539.40	3116500.00	0.012
	57.541 - 56.15					53.5474	-38926.00	3132530.00	0.012
	56.15 - 54.759					53.8214	-39314.70	3148550.00	0.012
	54.759 - 53.368					54.0953	-39705.50	3164580.00	0.013
	53.368 - 51.977					54.3693	-40098.50	3180600.00	0.013
	51.977 - 50.586					54.6432	-40493.60	3196630.00	0.013
	50.586 - 49.195					54.9172	-40890.80	3212660.00	0.013
	49.195 - 47.804					55.1911	-41290.20	3228680.00	0.013
	47.804 - 46.413					55.4651	-41691.70	3244710.00	0.013
	46.413 - 45.022					55.7390	-42095.30	3260730.00	0.013
	45.022 - 43.631					56.0130	-42501.10	3276760.00	0.013
L7	43.631 - 42.24	TP45.064x43.95x0.4706	9.53	0.00	0.0	56.2869	-42909.00	3292780.00	0.013
	42.24 - 41.1811					66.0733	-43265.50	3865290.00	0.011
	41.1811 - 40.1222					66.2609	-43616.30	3876260.00	0.011
	40.1222 - 39.0633					66.4484	-43968.20	3887230.00	0.011
	39.0633 - 38.0044					66.6360	-44321.20	3898210.00	0.011
	38.0044 - 36.9456					66.8235	-44675.30	3909180.00	0.011
	36.9456 - 35.8867					67.0111	-45030.60	3920150.00	0.011
	35.8867 -					67.1987	-45387.00	3931120.00	0.012

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$				
L8	34.8278	TP49.552x45.064x0.4906	32.71	0.00	0.0	70.7685	-46660.90	4139960.00	0.011				
	34.8278 - 33.7689									67.3862	-45744.50	3942100.00	0.012
	33.7689 - 32.71									67.5738	-46103.20	3953070.00	0.012
	32.71 - 31.0745									71.1230	-47228.40	4160700.00	0.011
	31.0745 - 29.439									71.4775	-47798.80	4181430.00	0.011
	29.439 - 27.8035									71.8320	-48372.10	4202170.00	0.012
	27.8035 - 26.168									72.1865	-48948.40	4222910.00	0.012
	26.168 - 24.5325									72.5410	-49527.50	4243650.00	0.012
	24.5325 - 22.897									72.8955	-50109.50	4264390.00	0.012
	22.897 - 21.2615									73.2500	-50694.40	4285120.00	0.012
	21.2615 - 19.626									73.6045	-51282.20	4305860.00	0.012
	19.626 - 17.9905									73.9589	-51872.90	4326600.00	0.012
	17.9905 - 16.355									74.3134	-52466.40	4347340.00	0.012
	16.355 - 14.7195									74.6679	-53062.90	4368070.00	0.012
	14.7195 - 13.084									75.0224	-53662.10	4388810.00	0.012
	13.084 - 11.4485									75.3769	-54264.30	4409550.00	0.012
	11.4485 - 9.813									75.7314	-54869.20	4430290.00	0.012
	9.813 - 8.1775									76.0859	-55477.10	4451030.00	0.012
	8.1775 - 6.542									76.4404	-56087.70	4471760.00	0.013
	6.542 - 4.9065									76.7949	-56701.20	4492500.00	0.013
4.9065 - 3.271	77.1494	-57317.60	4513240.00	0.013									
3.271 - 1.6355	77.5039	-57936.70	4533980.00	0.013									
1.6355 - 0													

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{ux} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M _{uy} kip-ft	φM _{uy} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
L1	151.5 - 150.45	TP17.7841x17.1872x0.24	6.464	333.605	0.019	0.000	333.605	0.000
	150.45 - 149.4		11.416	335.967	0.034	0.000	335.967	0.000
	149.4 - 148.35		16.456	338.337	0.049	0.000	338.337	0.000
	148.35 - 147.3		21.567	340.717	0.063	0.000	340.717	0.000
	147.3 - 146.25		26.747	343.103	0.078	0.000	343.103	0.000
	146.25 - 145.2		31.997	345.499	0.093	0.000	345.499	0.000
	145.2 - 144.15		37.318	347.903	0.107	0.000	347.903	0.000
	144.15 - 143.1		42.707	350.315	0.122	0.000	350.315	0.000
	143.1 - 142.05		48.167	352.736	0.137	0.000	352.736	0.000
	142.05 - 141		57.519	355.165	0.162	0.000	355.165	0.000
L2	141 - 139.967	TP31.557x17.7841x0.3059	66.979	483.887	0.138	0.000	483.887	0.000

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Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{rx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{rx}}$	M_{uy} kip-ft	ϕM_{ry} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ry}}$
	139.967 - 138.933		76.504	521.582	0.147	0.000	521.582	0.000
	138.933 - 137.899		86.147	560.693	0.154	0.000	560.693	0.000
	137.899 - 136.866		95.873	601.217	0.159	0.000	601.217	0.000
	136.866 - 135.833		105.688	643.154	0.164	0.000	643.154	0.000
	135.833 - 134.799		115.593	686.507	0.168	0.000	686.507	0.000
	134.799 - 133.766		125.590	731.273	0.172	0.000	731.273	0.000
	133.766 - 132.732		135.685	777.452	0.175	0.000	777.452	0.000
	132.732 - 131.699		145.984	825.047	0.177	0.000	825.047	0.000
	131.699 - 130.665		156.389	874.058	0.179	0.000	874.058	0.000
	130.665 - 129.631		166.899	924.475	0.181	0.000	924.475	0.000
	129.631 - 128.598		177.518	969.008	0.183	0.000	969.008	0.000
	128.598 - 127.565		188.248	1013.583	0.186	0.000	1013.583	0.000
	127.565 - 126.531		200.607	1058.692	0.189	0.000	1058.692	0.000
	126.531 - 125.498		214.908	1104.283	0.195	0.000	1104.283	0.000
	125.498 - 124.464		229.326	1150.333	0.199	0.000	1150.333	0.000
	124.464 - 123.43		243.865	1196.808	0.204	0.000	1196.808	0.000
	123.43 - 122.397		258.529	1243.675	0.208	0.000	1243.675	0.000
	122.397 - 121.364		273.320	1290.892	0.212	0.000	1290.892	0.000
	121.364 - 120.33		288.242	1338.433	0.215	0.000	1338.433	0.000
L3	120.33 - 119.314	TP33.028x31.557x0.3063	303.112	1352.175	0.224	0.000	1352.175	0.000
	119.314 - 118.299		318.253	1363.550	0.233	0.000	1363.550	0.000
	118.299 - 117.283		333.509	1374.933	0.243	0.000	1374.933	0.000
	117.283 - 116.268		348.881	1386.325	0.252	0.000	1386.325	0.000
	116.268 - 115.252		367.557	1397.742	0.263	0.000	1397.742	0.000
	115.252 - 114.237		388.616	1409.167	0.276	0.000	1409.167	0.000
	114.237 - 113.221		410.108	1420.608	0.289	0.000	1420.608	0.000
	113.221 - 112.206		431.780	1432.058	0.302	0.000	1432.058	0.000
	112.206 - 111.19		453.640	1443.525	0.314	0.000	1443.525	0.000
L4	111.19 - 109.735	TP38.347x33.028x0.3141	485.196	1514.267	0.320	0.000	1514.267	0.000
	109.735 - 108.279		517.019	1533.842	0.337	0.000	1533.842	0.000

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Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{rx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{rx}}$	M_{uy} kip-ft	ϕM_{ry} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ry}}$
	108.279 - 106.824		549.112	1553.450	0.353	0.000	1553.450	0.000
	106.824 - 105.368		581.472	1573.092	0.370	0.000	1573.092	0.000
	105.368 - 103.912		617.377	1592.758	0.388	0.000	1592.758	0.000
	103.912 - 102.457		654.567	1612.458	0.406	0.000	1612.458	0.000
	102.457 - 101.001		692.023	1632.192	0.424	0.000	1632.192	0.000
	101.001 - 99.546		729.745	1651.942	0.442	0.000	1651.942	0.000
	99.546 - 98.0905		767.735	1671.725	0.459	0.000	1671.725	0.000
	98.0905 - 96.635		805.992	1691.525	0.476	0.000	1691.525	0.000
	96.635 - 95.1795		844.517	1711.342	0.493	0.000	1711.342	0.000
	95.1795 - 93.724		883.308	1731.175	0.510	0.000	1731.175	0.000
	93.724 - 92.2685		922.367	1751.033	0.527	0.000	1751.033	0.000
	92.2685 - 90.813		961.700	1770.892	0.543	0.000	1770.892	0.000
	90.813 - 89.3575		1001.300	1790.775	0.559	0.000	1790.775	0.000
	89.3575 - 87.902		1041.167	1810.658	0.575	0.000	1810.658	0.000
	87.902 - 86.4465		1081.300	1830.558	0.591	0.000	1830.558	0.000
	86.4465 - 84.991		1121.708	1850.458	0.606	0.000	1850.458	0.000
	84.991 - 83.5355		1162.392	1870.367	0.621	0.000	1870.367	0.000
	83.5355 - 82.08		1203.342	1890.267	0.637	0.000	1890.267	0.000
L5	82.08 - 81.0783	TP39.711x38.347x0.3804	1231.683	2490.342	0.495	0.000	2490.342	0.000
	81.0783 - 80.0767		1260.142	2502.450	0.504	0.000	2502.450	0.000
	80.0767 - 79.075		1288.725	2514.567	0.513	0.000	2514.567	0.000
	79.075 - 78.0733		1317.425	2526.700	0.521	0.000	2526.700	0.000
	78.0733 - 77.0717		1346.250	2538.833	0.530	0.000	2538.833	0.000
	77.0717 - 76.07		1375.200	2550.983	0.539	0.000	2550.983	0.000
	76.07 - 75.0683		1404.267	2563.142	0.548	0.000	2563.142	0.000
	75.0683 - 74.0667		1433.458	2575.308	0.557	0.000	2575.308	0.000
	74.0667 - 73.065		1462.767	2587.492	0.565	0.000	2587.492	0.000
	73.065 - 72.0633		1492.200	2599.675	0.574	0.000	2599.675	0.000
	72.0633 - 71.0617		1521.750	2611.875	0.583	0.000	2611.875	0.000
	71.0617 - 70.06		1551.425	2624.083	0.591	0.000	2624.083	0.000

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Section No.	Elevation ft	Size	M_{ux}	ϕM_{rx}	Ratio	M_{uy}	ϕM_{ry}	Ratio
			kip-ft	kip-ft	$\frac{M_{ux}}{\phi M_{rx}}$	kip-ft	kip-ft	$\frac{M_{uy}}{\phi M_{ry}}$
L6	70.06 - 68.669	TP43.95x39.711x0.4014	1592.817	2847.817	0.559	0.000	2847.817	0.000
	68.669 - 67.278		1634.408	2872.833	0.569	0.000	2872.833	0.000
	67.278 - 65.887		1676.217	2897.892	0.578	0.000	2897.892	0.000
	65.887 - 64.496		1718.225	2923.000	0.588	0.000	2923.000	0.000
	64.496 - 63.105		1760.433	2948.133	0.597	0.000	2948.133	0.000
	63.105 - 61.714		1802.850	2973.317	0.606	0.000	2973.317	0.000
	61.714 - 60.323		1845.475	2998.533	0.615	0.000	2998.533	0.000
	60.323 - 58.932		1888.308	3023.792	0.624	0.000	3023.792	0.000
	58.932 - 57.541		1931.333	3049.075	0.633	0.000	3049.075	0.000
	57.541 - 56.15		1974.575	3074.400	0.642	0.000	3074.400	0.000
	56.15 - 54.759		2018.008	3099.758	0.651	0.000	3099.758	0.000
	54.759 - 53.368		2061.650	3125.150	0.660	0.000	3125.150	0.000
	53.368 - 51.977		2105.500	3150.575	0.668	0.000	3150.575	0.000
	51.977 - 50.586		2149.550	3176.025	0.677	0.000	3176.025	0.000
	50.586 - 49.195		2193.800	3201.508	0.685	0.000	3201.508	0.000
	49.195 - 47.804		2238.250	3227.017	0.694	0.000	3227.017	0.000
	47.804 - 46.413		2282.908	3252.558	0.702	0.000	3252.558	0.000
	46.413 - 45.022		2327.767	3278.125	0.710	0.000	3278.125	0.000
	45.022 - 43.631		2372.825	3303.717	0.718	0.000	3303.717	0.000
	43.631 - 42.24		2418.083	3329.325	0.726	0.000	3329.325	0.000
L7	42.24 - 41.1811	TP45.064x43.95x0.4706	2452.658	4150.825	0.591	0.000	4150.825	0.000
	41.1811 - 40.1222		2487.350	4170.475	0.596	0.000	4170.475	0.000
	40.1222 - 39.0633		2522.133	4190.150	0.602	0.000	4190.150	0.000
	39.0633 - 38.0044		2557.025	4209.850	0.607	0.000	4209.850	0.000
	38.0044 - 36.9456		2592.025	4229.567	0.613	0.000	4229.567	0.000
	36.9456 - 35.8867		2627.117	4249.300	0.618	0.000	4249.300	0.000
	35.8867 - 34.8278		2662.317	4269.058	0.624	0.000	4269.058	0.000
	34.8278 - 33.7689		2697.617	4288.833	0.629	0.000	4288.833	0.000
	33.7689 - 32.71		2733.025	4308.633	0.634	0.000	4308.633	0.000
	32.71 - 31.0745		2787.883	4589.608	0.607	0.000	4589.608	0.000
L8	31.0745 - 29.439	TP49.552x45.064x0.4906	2842.942	4628.125	0.614	0.000	4628.125	0.000
	29.439 - 27.8035		2898.200	4666.725	0.621	0.000	4666.725	0.000

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Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{ux} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M_{uy} kip-ft	ϕM_{uy} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
	27.8035 - 26.168		2953.650	4705.392	0.628	0.000	4705.392	0.000
	26.168 - 24.5325		3009.300	4744.133	0.634	0.000	4744.133	0.000
	24.5325 - 22.897		3065.142	4782.950	0.641	0.000	4782.950	0.000
	22.897 - 21.2615		3121.183	4821.833	0.647	0.000	4821.833	0.000
	21.2615 - 19.626		3177.417	4860.792	0.654	0.000	4860.792	0.000
	19.626 - 17.9905		3233.833	4899.817	0.660	0.000	4899.817	0.000
	17.9905 - 16.355		3290.442	4938.908	0.666	0.000	4938.908	0.000
	16.355 - 14.7195		3347.242	4978.058	0.672	0.000	4978.058	0.000
	14.7195 - 13.084		3404.233	5017.283	0.679	0.000	5017.283	0.000
	13.084 - 11.4485		3461.400	5056.567	0.685	0.000	5056.567	0.000
	11.4485 - 9.813		3518.758	5095.917	0.691	0.000	5095.917	0.000
	9.813 - 8.1775		3576.300	5135.325	0.696	0.000	5135.325	0.000
	8.1775 - 6.542		3634.017	5174.800	0.702	0.000	5174.800	0.000
	6.542 - 4.9065		3691.917	5214.325	0.708	0.000	5214.325	0.000
	4.9065 - 3.271		3750.000	5253.917	0.714	0.000	5253.917	0.000
	3.271 - 1.6355		3808.258	5293.558	0.719	0.000	5293.558	0.000
	1.6355 - 0		3866.692	5333.258	0.725	0.000	5333.258	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u lb	ϕV_n lb	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$		
L1	151.5 - 150.45	TP17.7841x17.1872x0.24	4671.14	230658.00	0.020	0.045	345.059	0.000		
	150.45 - 149.4		4768.32	231468.00	0.021	0.263	347.486	0.001		
	149.4 - 148.35		4835.15	232277.00	0.021	0.263	349.921	0.001		
	148.35 - 147.3		4901.94	233087.00	0.021	0.263	352.364	0.001		
	147.3 - 146.25		4968.67	233897.00	0.021	0.263	354.816	0.001		
	146.25 - 145.2		5035.34	234706.00	0.021	0.263	357.277	0.001		
	145.2 - 144.15		5101.93	235516.00	0.022	0.263	359.745	0.001		
	144.15 - 143.1		5168.44	236325.00	0.022	0.263	362.223	0.001		
	143.1 - 142.05		5234.87	237135.00	0.022	0.263	364.708	0.001		
	142.05 - 141		9124.70	237944.00	0.038	0.263	367.203	0.001		
	L2		141 - 139.967	TP31.557x17.7841x0.3059	9189.08	314045.00	0.029	0.263	501.847	0.001
			139.967 - 138.933		9292.35	325949.00	0.029	0.412	540.615	0.001
			138.933 - 137.899		9372.78	337854.00	0.028	0.412	580.825	0.001
			137.899 - 136.866		9456.00	349758.00	0.027	0.412	622.477	0.001
136.866 - 135.833		9542.05	361663.00		0.026	0.412	665.572	0.001		
135.833 - 134.799		9630.95	373567.00		0.026	0.412	710.108	0.001		
134.799 -		9722.71	385472.00		0.025	0.412	756.087	0.001		

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Section No.	Elevation ft	Size	Actual V_u lb	ϕV_n lb	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
	133.766							
	133.766 - 132.732		9817.36	397376.00	0.025	0.412	803.508	0.001
	132.732 - 131.699		10020.50	409280.00	0.024	0.412	852.375	0.000
	131.699 - 130.665		10120.90	421185.00	0.024	0.412	902.675	0.000
	130.665 - 129.631		10224.20	433089.00	0.024	0.412	954.425	0.000
	129.631 - 128.598		10330.30	444994.00	0.023	0.412	1007.617	0.000
	128.598 - 127.565		10439.40	456898.00	0.023	0.412	1062.250	0.000
	127.565 - 126.531		13783.60	468802.00	0.029	0.412	1118.325	0.000
	126.531 - 125.498		13896.80	480707.00	0.029	0.381	1175.842	0.000
	125.498 - 124.464		14012.80	492611.00	0.028	0.381	1234.800	0.000
	124.464 - 123.43		14131.70	504516.00	0.028	0.381	1295.200	0.000
	123.43 - 122.397		14253.50	516420.00	0.028	0.381	1357.042	0.000
	122.397 - 121.364		14378.10	528324.00	0.027	0.381	1420.325	0.000
	121.364 - 120.33		14505.60	540229.00	0.027	0.381	1485.058	0.000
L3	120.33 - 119.314	TP33.028x31.557x0.3063	14866.70	543757.00	0.027	0.381	1502.558	0.000
	119.314 - 118.299		14980.10	546587.00	0.027	0.381	1518.233	0.000
	118.299 - 117.283		15093.70	549416.00	0.027	0.380	1533.992	0.000
	117.283 - 116.268		15207.50	552245.00	0.028	0.380	1549.825	0.000
	116.268 - 115.252		19724.40	555074.00	0.036	0.522	1565.750	0.000
	115.252 - 114.237		21103.00	557903.00	0.038	0.522	1581.750	0.000
	114.237 - 113.221		21215.20	560732.00	0.038	0.522	1597.833	0.000
	113.221 - 112.206		21472.30	563561.00	0.038	0.268	1613.992	0.000
	112.206 - 111.19		21600.20	566390.00	0.038	0.268	1630.242	0.000
L4	111.19 - 109.735	TP38.347x33.028x0.3141	21784.00	585396.00	0.037	0.268	1698.233	0.000
	109.735 - 108.279		21968.60	590116.00	0.037	0.268	1725.733	0.000
	108.279 - 106.824		22153.70	594837.00	0.037	0.268	1753.458	0.000
	106.824 - 105.368		22339.20	599558.00	0.037	0.268	1781.400	0.000
	105.368 - 103.912		25474.80	604278.00	0.042	0.314	1809.558	0.000
	103.912 - 102.457		25658.10	608999.00	0.042	0.314	1837.942	0.000
	102.457 - 101.001		25841.60	613720.00	0.042	0.314	1866.550	0.000
	101.001 -		26025.30	618440.00	0.042	0.314	1895.375	0.000

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Section No.	Elevation ft	Size	Actual V_u lb	ϕV_n lb	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
	99.546							
	99.546 - 98.0905		26209.20	623161.00	0.042	0.314	1924.417	0.000
	98.0905 - 96.635		26393.40	627882.00	0.042	0.314	1953.683	0.000
	96.635 - 95.1795		26577.90	632602.00	0.042	0.314	1983.175	0.000
	95.1795 - 93.724		26762.60	637323.00	0.042	0.314	2012.883	0.000
	93.724 - 92.2685		26947.50	642044.00	0.042	0.314	2042.808	0.000
	92.2685 - 90.813		27132.80	646764.00	0.042	0.314	2072.958	0.000
	90.813 - 89.3575		27318.30	651485.00	0.042	0.314	2103.333	0.000
	89.3575 - 87.902		27504.10	656205.00	0.042	0.314	2133.925	0.000
	87.902 - 86.4465		27690.20	660926.00	0.042	0.314	2164.733	0.000
	86.4465 - 84.991		27876.60	665647.00	0.042	0.314	2195.767	0.000
	84.991 - 83.5355		28063.30	670367.00	0.042	0.314	2227.025	0.000
	83.5355 - 82.08		28250.30	675088.00	0.042	0.314	2258.500	0.000
L5	82.08 - 81.0783	TP39.711x38.347x0.3804	28367.20	818603.00	0.035	0.314	2742.033	0.000
	81.0783 - 80.0767		28489.60	821047.00	0.035	0.314	2758.433	0.000
	80.0767 - 79.075		28611.70	823490.00	0.035	0.314	2774.875	0.000
	79.075 - 78.0733		28733.60	825934.00	0.035	0.314	2791.367	0.000
	78.0733 - 77.0717		28855.20	828377.00	0.035	0.314	2807.908	0.000
	77.0717 - 76.07		28976.70	830821.00	0.035	0.314	2824.492	0.000
	76.07 - 75.0683		29097.80	833264.00	0.035	0.314	2841.133	0.000
	75.0683 - 74.0667		29218.70	835708.00	0.035	0.314	2857.825	0.000
	74.0667 - 73.065		29339.30	838151.00	0.035	0.313	2874.558	0.000
	73.065 - 72.0633		29459.70	840595.00	0.035	0.313	2891.342	0.000
	72.0633 - 71.0617		29579.80	843038.00	0.035	0.313	2908.175	0.000
	71.0617 - 70.06		29699.70	845481.00	0.035	0.313	2925.058	0.000
L6	70.06 - 68.669	TP43.95x39.711x0.4014	29851.20	896488.00	0.033	0.313	3116.575	0.000
	68.669 - 67.278		29999.50	901295.00	0.033	0.313	3150.100	0.000
	67.278 - 65.887		30147.60	906103.00	0.033	0.313	3183.792	0.000
	65.887 - 64.496		30295.60	910911.00	0.033	0.313	3217.667	0.000
	64.496 - 63.105		30443.30	915719.00	0.033	0.313	3251.725	0.000
	63.105 - 61.714		30590.90	920527.00	0.033	0.313	3285.958	0.000

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	Client	VERIZON WIRELESS	Designed by	Garret.Heath

Section No.	Elevation ft	Size	Actual V_u lb	ϕV_n lb	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
	61.714 - 60.323		30738.30	925334.00	0.033	0.313	3320.375	0.000
	60.323 - 58.932		30885.50	930142.00	0.033	0.313	3354.967	0.000
	58.932 - 57.541		31032.40	934950.00	0.033	0.313	3389.742	0.000
	57.541 - 56.15		31179.30	939758.00	0.033	0.313	3424.692	0.000
	56.15 - 54.759		31325.90	944565.00	0.033	0.313	3459.817	0.000
	54.759 - 53.368		31472.30	949373.00	0.033	0.313	3495.133	0.000
	53.368 - 51.977		31618.40	954181.00	0.033	0.313	3530.617	0.000
	51.977 - 50.586		31764.40	958989.00	0.033	0.313	3566.292	0.000
	50.586 - 49.195		31910.20	963797.00	0.033	0.313	3602.133	0.000
	49.195 - 47.804		32055.80	968604.00	0.033	0.313	3638.167	0.000
	47.804 - 46.413		32201.10	973412.00	0.033	0.313	3674.367	0.000
	46.413 - 45.022		32346.20	978220.00	0.033	0.313	3710.758	0.000
	45.022 - 43.631		32491.10	983028.00	0.033	0.313	3747.325	0.000
L7	43.631 - 42.24	TP45.064x43.95x0.4706	32635.80	987835.00	0.033	0.313	3784.067	0.000
	42.24 - 41.1811		32725.70	1159590.00	0.028	0.313	4447.550	0.000
	41.1811 - 40.1222		32823.90	1162880.00	0.028	0.313	4472.842	0.000
	40.1222 - 39.0633		32921.70	1166170.00	0.028	0.313	4498.200	0.000
	39.0633 - 38.0044		33019.20	1169460.00	0.028	0.313	4523.625	0.000
	38.0044 - 36.9456		33116.30	1172750.00	0.028	0.313	4549.125	0.000
	36.9456 - 35.8867		33213.00	1176050.00	0.028	0.313	4574.700	0.000
	35.8867 - 34.8278		33309.40	1179340.00	0.028	0.313	4600.350	0.000
	34.8278 - 33.7689		33405.30	1182630.00	0.028	0.313	4626.067	0.000
	33.7689 - 32.71		33500.90	1185920.00	0.028	0.313	4651.850	0.000
L8	32.71 - 31.0745	TP49.552x45.064x0.4906	33632.90	1241990.00	0.027	0.313	4894.108	0.000
	31.0745 - 29.439		33755.10	1248210.00	0.027	0.313	4943.267	0.000
	29.439 - 27.8035		33876.50	1254430.00	0.027	0.312	4992.667	0.000
	27.8035 - 26.168		33997.10	1260650.00	0.027	0.312	5042.308	0.000
	26.168 - 24.5325		34117.00	1266870.00	0.027	0.312	5092.200	0.000
	24.5325 - 22.897		34236.20	1273090.00	0.027	0.312	5142.333	0.000
	22.897 - 21.2615		34354.50	1279320.00	0.027	0.312	5192.717	0.000
	21.2615 - 19.626		34472.10	1285540.00	0.027	0.312	5243.342	0.000
	19.626 -		34588.90	1291760.00	0.027	0.312	5294.217	0.000

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Section No.	Elevation ft	Size	Actual V_u lb	ϕV_n lb	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
	17.9905							
	17.9905 - 16.355		34704.90	1297980.00	0.027	0.312	5345.333	0.000
	16.355 - 14.7195		34820.10	1304200.00	0.027	0.312	5396.700	0.000
	14.7195 - 13.084		34934.50	1310420.00	0.027	0.312	5448.308	0.000
	13.084 - 11.4485		35048.10	1316640.00	0.027	0.312	5500.167	0.000
	11.4485 - 9.813		35160.80	1322860.00	0.027	0.312	5552.267	0.000
	9.813 - 8.1775		35272.80	1329090.00	0.027	0.312	5604.608	0.000
	8.1775 - 6.542		35383.90	1335310.00	0.026	0.312	5657.208	0.000
	6.542 - 4.9065		35494.20	1341530.00	0.026	0.312	5710.041	0.000
	4.9065 - 3.271		35603.70	1347750.00	0.026	0.312	5763.125	0.000
	3.271 - 1.6355		35712.30	1353970.00	0.026	0.312	5816.458	0.000
	1.6355 - 0		35820.10	1360190.00	0.026	0.312	5870.033	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	151.5 - 150.45	0.006	0.019	0.000	0.020	0.000	0.026	1.000	4.8.2 ✓
	150.45 - 149.4	0.006	0.034	0.000	0.021	0.001	0.041	1.000	4.8.2 ✓
	149.4 - 148.35	0.006	0.049	0.000	0.021	0.001	0.055	1.000	4.8.2 ✓
	148.35 - 147.3	0.006	0.063	0.000	0.021	0.001	0.070	1.000	4.8.2 ✓
	147.3 - 146.25	0.006	0.078	0.000	0.021	0.001	0.085	1.000	4.8.2 ✓
	146.25 - 145.2	0.006	0.093	0.000	0.021	0.001	0.100	1.000	4.8.2 ✓
	145.2 - 144.15	0.007	0.107	0.000	0.022	0.001	0.114	1.000	4.8.2 ✓
	144.15 - 143.1	0.007	0.122	0.000	0.022	0.001	0.129	1.000	4.8.2 ✓
	143.1 - 142.05	0.007	0.137	0.000	0.022	0.001	0.144	1.000	4.8.2 ✓
	142.05 - 141	0.013	0.162	0.000	0.038	0.001	0.176	1.000	4.8.2 ✓
L2	141 - 139.967	0.010	0.138	0.000	0.029	0.001	0.149	1.000	4.8.2 ✓
	139.967 - 138.933	0.009	0.147	0.000	0.029	0.001	0.157	1.000	4.8.2 ✓
	138.933 - 137.899	0.009	0.154	0.000	0.028	0.001	0.164	1.000	4.8.2 ✓
	137.899 - 136.866	0.009	0.159	0.000	0.027	0.001	0.169	1.000	4.8.2 ✓

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Section No.	Elevation ft	Ratio	Ratio	Ratio	Ratio	Ratio	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		P_u	M_{ux}	M_{uy}	V_u	T_u			
	136.866 - 135.833	0.009	0.164	0.000	0.026	0.001	0.174	1.000	4.8.2 ✓
	135.833 - 134.799	0.008	0.168	0.000	0.026	0.001	0.178	1.000	4.8.2 ✓
	134.799 - 133.766	0.008	0.172	0.000	0.025	0.001	0.181	1.000	4.8.2 ✓
	133.766 - 132.732	0.008	0.175	0.000	0.025	0.001	0.183	1.000	4.8.2 ✓
	132.732 - 131.699	0.008	0.177	0.000	0.024	0.000	0.186	1.000	4.8.2 ✓
	131.699 - 130.665	0.008	0.179	0.000	0.024	0.000	0.188	1.000	4.8.2 ✓
	130.665 - 129.631	0.008	0.181	0.000	0.024	0.000	0.189	1.000	4.8.2 ✓
	129.631 - 128.598	0.008	0.183	0.000	0.023	0.000	0.191	1.000	4.8.2 ✓
	128.598 - 127.565	0.008	0.186	0.000	0.023	0.000	0.194	1.000	4.8.2 ✓
	127.565 - 126.531	0.010	0.189	0.000	0.029	0.000	0.201	1.000	4.8.2 ✓
	126.531 - 125.498	0.010	0.195	0.000	0.029	0.000	0.206	1.000	4.8.2 ✓
	125.498 - 124.464	0.010	0.199	0.000	0.028	0.000	0.210	1.000	4.8.2 ✓
	124.464 - 123.43	0.010	0.204	0.000	0.028	0.000	0.214	1.000	4.8.2 ✓
	123.43 - 122.397	0.010	0.208	0.000	0.028	0.000	0.218	1.000	4.8.2 ✓
	122.397 - 121.364	0.009	0.212	0.000	0.027	0.000	0.222	1.000	4.8.2 ✓
	121.364 - 120.33	0.009	0.215	0.000	0.027	0.000	0.225	1.000	4.8.2 ✓
L3	120.33 - 119.314	0.009	0.224	0.000	0.027	0.000	0.234	1.000	4.8.2 ✓
	119.314 - 118.299	0.009	0.233	0.000	0.027	0.000	0.244	1.000	4.8.2 ✓
	118.299 - 117.283	0.010	0.243	0.000	0.027	0.000	0.253	1.000	4.8.2 ✓
	117.283 - 116.268	0.010	0.252	0.000	0.028	0.000	0.262	1.000	4.8.2 ✓
	116.268 - 115.252	0.012	0.263	0.000	0.036	0.000	0.276	1.000	4.8.2 ✓
	115.252 - 114.237	0.012	0.276	0.000	0.038	0.000	0.289	1.000	4.8.2 ✓
	114.237 - 113.221	0.012	0.289	0.000	0.038	0.000	0.302	1.000	4.8.2 ✓
	113.221 - 112.206	0.012	0.302	0.000	0.038	0.000	0.315	1.000	4.8.2 ✓
	112.206 - 111.19	0.012	0.314	0.000	0.038	0.000	0.328	1.000	4.8.2 ✓
L4	111.19 - 109.735	0.012	0.320	0.000	0.037	0.000	0.334	1.000	4.8.2 ✓

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Section No.	Elevation ft	Ratio P_u	Ratio M_{ux}	Ratio M_{uy}	Ratio V_u	Ratio T_u	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	109.735 - 108.279	0.012	0.337	0.000	0.037	0.000	0.350	1.000	4.8.2 ✓
	108.279 - 106.824	0.012	0.353	0.000	0.037	0.000	0.367	1.000	4.8.2 ✓
	106.824 - 105.368	0.012	0.370	0.000	0.037	0.000	0.383	1.000	4.8.2 ✓
	105.368 - 103.912	0.014	0.388	0.000	0.042	0.000	0.403	1.000	4.8.2 ✓
	103.912 - 102.457	0.014	0.406	0.000	0.042	0.000	0.422	1.000	4.8.2 ✓
	102.457 - 101.001	0.014	0.424	0.000	0.042	0.000	0.440	1.000	4.8.2 ✓
	101.001 - 99.546	0.014	0.442	0.000	0.042	0.000	0.457	1.000	4.8.2 ✓
	99.546 - 98.0905	0.014	0.459	0.000	0.042	0.000	0.475	1.000	4.8.2 ✓
	98.0905 - 96.635	0.014	0.476	0.000	0.042	0.000	0.492	1.000	4.8.2 ✓
	96.635 - 95.1795	0.014	0.493	0.000	0.042	0.000	0.509	1.000	4.8.2 ✓
	95.1795 - 93.724	0.014	0.510	0.000	0.042	0.000	0.526	1.000	4.8.2 ✓
	93.724 - 92.2685	0.014	0.527	0.000	0.042	0.000	0.543	1.000	4.8.2 ✓
	92.2685 - 90.813	0.014	0.543	0.000	0.042	0.000	0.559	1.000	4.8.2 ✓
	90.813 - 89.3575	0.014	0.559	0.000	0.042	0.000	0.575	1.000	4.8.2 ✓
	89.3575 - 87.902	0.014	0.575	0.000	0.042	0.000	0.591	1.000	4.8.2 ✓
	87.902 - 86.4465	0.014	0.591	0.000	0.042	0.000	0.607	1.000	4.8.2 ✓
	86.4465 - 84.991	0.014	0.606	0.000	0.042	0.000	0.622	1.000	4.8.2 ✓
	84.991 - 83.5355	0.014	0.621	0.000	0.042	0.000	0.638	1.000	4.8.2 ✓
	83.5355 - 82.08	0.014	0.637	0.000	0.042	0.000	0.653	1.000	4.8.2 ✓
L5	82.08 - 81.0783	0.012	0.495	0.000	0.035	0.000	0.508	1.000	4.8.2 ✓
	81.0783 - 80.0767	0.012	0.504	0.000	0.035	0.000	0.517	1.000	4.8.2 ✓
	80.0767 - 79.075	0.012	0.513	0.000	0.035	0.000	0.526	1.000	4.8.2 ✓
	79.075 - 78.0733	0.012	0.521	0.000	0.035	0.000	0.535	1.000	4.8.2 ✓
	78.0733 - 77.0717	0.012	0.530	0.000	0.035	0.000	0.544	1.000	4.8.2 ✓
	77.0717 - 76.07	0.012	0.539	0.000	0.035	0.000	0.552	1.000	4.8.2 ✓
	76.07 - 75.0683	0.012	0.548	0.000	0.035	0.000	0.561	1.000	4.8.2 ✓

tnxTower ATC Engineering 3500 Regency Parkway, Suite 100 Cary, NC 27518 Phone: (919) 466-5258 FAX:	Job	Brln-Berlin (302483)	Page	33 of 35
	Project	13673539_C3_04	Date	11:23:46 09/13/21
	Client	VERIZON WIRELESS	Designed by	Garret.Heath

Section No.	Elevation ft	Ratio P_u ϕP_n	Ratio M_{ux} ϕM_{nx}	Ratio M_{uy} ϕM_{ny}	Ratio V_u ϕV_n	Ratio T_u ϕT_n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	75.0683 - 74.0667	0.012	0.557	0.000	0.035	0.000	0.570	1.000	4.8.2 ✓
	74.0667 - 73.065	0.012	0.565	0.000	0.035	0.000	0.579	1.000	4.8.2 ✓
	73.065 - 72.0633	0.012	0.574	0.000	0.035	0.000	0.588	1.000	4.8.2 ✓
	72.0633 - 71.0617	0.012	0.583	0.000	0.035	0.000	0.596	1.000	4.8.2 ✓
	71.0617 - 70.06	0.012	0.591	0.000	0.035	0.000	0.605	1.000	4.8.2 ✓
L6	70.06 - 68.669	0.012	0.559	0.000	0.033	0.000	0.572	1.000	4.8.2 ✓
	68.669 - 67.278	0.012	0.569	0.000	0.033	0.000	0.582	1.000	4.8.2 ✓
	67.278 - 65.887	0.012	0.578	0.000	0.033	0.000	0.592	1.000	4.8.2 ✓
	65.887 - 64.496	0.012	0.588	0.000	0.033	0.000	0.601	1.000	4.8.2 ✓
	64.496 - 63.105	0.012	0.597	0.000	0.033	0.000	0.610	1.000	4.8.2 ✓
	63.105 - 61.714	0.012	0.606	0.000	0.033	0.000	0.620	1.000	4.8.2 ✓
	61.714 - 60.323	0.012	0.615	0.000	0.033	0.000	0.629	1.000	4.8.2 ✓
	60.323 - 58.932	0.012	0.624	0.000	0.033	0.000	0.638	1.000	4.8.2 ✓
	58.932 - 57.541	0.012	0.633	0.000	0.033	0.000	0.647	1.000	4.8.2 ✓
	57.541 - 56.15	0.012	0.642	0.000	0.033	0.000	0.656	1.000	4.8.2 ✓
	56.15 - 54.759	0.012	0.651	0.000	0.033	0.000	0.665	1.000	4.8.2 ✓
	54.759 - 53.368	0.013	0.660	0.000	0.033	0.000	0.673	1.000	4.8.2 ✓
	53.368 - 51.977	0.013	0.668	0.000	0.033	0.000	0.682	1.000	4.8.2 ✓
	51.977 - 50.586	0.013	0.677	0.000	0.033	0.000	0.691	1.000	4.8.2 ✓
	50.586 - 49.195	0.013	0.685	0.000	0.033	0.000	0.699	1.000	4.8.2 ✓
	49.195 - 47.804	0.013	0.694	0.000	0.033	0.000	0.707	1.000	4.8.2 ✓
	47.804 - 46.413	0.013	0.702	0.000	0.033	0.000	0.716	1.000	4.8.2 ✓
	46.413 - 45.022	0.013	0.710	0.000	0.033	0.000	0.724	1.000	4.8.2 ✓
	45.022 - 43.631	0.013	0.718	0.000	0.033	0.000	0.732	1.000	4.8.2 ✓
	43.631 - 42.24	0.013	0.726	0.000	0.033	0.000	0.740	1.000	4.8.2 ✓
L7	42.24 - 41.1811	0.011	0.591	0.000	0.028	0.000	0.603	1.000	4.8.2 ✓

tnxTower ATC Engineering 3500 Regency Parkway, Suite 100 Cary, NC 27518 Phone: (919) 466-5258 FAX:	Job	Brln-Berlin (302483)	Page	34 of 35
	Project	13673539_C3_04	Date	11:23:46 09/13/21
	Client	VERIZON WIRELESS	Designed by	Garret.Heath

Section No.	Elevation ft	Ratio P_u	Ratio M_{ux}	Ratio M_{uy}	Ratio V_u	Ratio T_u	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	41.1811 - 40.1222	0.011	0.596	0.000	0.028	0.000	0.608	1.000	4.8.2 ✓
	40.1222 - 39.0633	0.011	0.602	0.000	0.028	0.000	0.614	1.000	4.8.2 ✓
	39.0633 - 38.0044	0.011	0.607	0.000	0.028	0.000	0.620	1.000	4.8.2 ✓
	38.0044 - 36.9456	0.011	0.613	0.000	0.028	0.000	0.625	1.000	4.8.2 ✓
	36.9456 - 35.8867	0.011	0.618	0.000	0.028	0.000	0.631	1.000	4.8.2 ✓
	35.8867 - 34.8278	0.012	0.624	0.000	0.028	0.000	0.636	1.000	4.8.2 ✓
	34.8278 - 33.7689	0.012	0.629	0.000	0.028	0.000	0.641	1.000	4.8.2 ✓
	33.7689 - 32.71	0.012	0.634	0.000	0.028	0.000	0.647	1.000	4.8.2 ✓
L8	32.71 - 31.0745	0.011	0.607	0.000	0.027	0.000	0.619	1.000	4.8.2 ✓
	31.0745 - 29.439	0.011	0.614	0.000	0.027	0.000	0.626	1.000	4.8.2 ✓
	29.439 - 27.8035	0.011	0.621	0.000	0.027	0.000	0.633	1.000	4.8.2 ✓
	27.8035 - 26.168	0.012	0.628	0.000	0.027	0.000	0.640	1.000	4.8.2 ✓
	26.168 - 24.5325	0.012	0.634	0.000	0.027	0.000	0.647	1.000	4.8.2 ✓
	24.5325 - 22.897	0.012	0.641	0.000	0.027	0.000	0.653	1.000	4.8.2 ✓
	22.897 - 21.2615	0.012	0.647	0.000	0.027	0.000	0.660	1.000	4.8.2 ✓
	21.2615 - 19.626	0.012	0.654	0.000	0.027	0.000	0.666	1.000	4.8.2 ✓
	19.626 - 17.9905	0.012	0.660	0.000	0.027	0.000	0.673	1.000	4.8.2 ✓
	17.9905 - 16.355	0.012	0.666	0.000	0.027	0.000	0.679	1.000	4.8.2 ✓
	16.355 - 14.7195	0.012	0.672	0.000	0.027	0.000	0.685	1.000	4.8.2 ✓
	14.7195 - 13.084	0.012	0.679	0.000	0.027	0.000	0.691	1.000	4.8.2 ✓
	13.084 - 11.4485	0.012	0.685	0.000	0.027	0.000	0.697	1.000	4.8.2 ✓
	11.4485 - 9.813	0.012	0.691	0.000	0.027	0.000	0.704	1.000	4.8.2 ✓
	9.813 - 8.1775	0.012	0.696	0.000	0.027	0.000	0.710	1.000	4.8.2 ✓
	8.1775 - 6.542	0.012	0.702	0.000	0.026	0.000	0.715	1.000	4.8.2 ✓
	6.542 - 4.9065	0.013	0.708	0.000	0.026	0.000	0.721	1.000	4.8.2 ✓
	4.9065 - 3.271	0.013	0.714	0.000	0.026	0.000	0.727	1.000	4.8.2 ✓

tnxTower ATC Engineering 3500 Regency Parkway, Suite 100 Cary, NC 27518 Phone: (919) 466-5258 FAX:	Job	Brln-Berlin (302483)	Page	35 of 35
	Project	13673539_C3_04	Date	11:23:46 09/13/21
	Client	VERIZON WIRELESS	Designed by	Garret.Heath

Section No.	Elevation ft	Ratio P_u	Ratio M_{ux}	Ratio M_{uy}	Ratio V_u	Ratio T_u	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	3.271 - 1.6355	0.013	0.719	0.000	0.026	0.000	0.733	1.000	4.8.2 ✓
	1.6355 - 0	0.013	0.725	0.000	0.026	0.000	0.738 ✓	1.000	4.8.2 ✓

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail	
L1	151.5 - 141	Pole	TP17.7841x17.1872x0.24	1	-9964.83	793148.00	17.6	Pass	
L2	141 - 120.33	Pole	TP31.557x17.7841x0.3059	2	-16792.00	1800760.00	22.5	Pass	
L3	120.33 - 111.19	Pole	TP33.028x31.557x0.3063	3	-23046.10	1887970.00	32.8	Pass	
L4	111.19 - 82.08	Pole	TP38.347x33.028x0.3141	4	-32190.40	2250290.00	65.3	Pass	
L5	82.08 - 70.06	Pole	TP39.711x38.347x0.3804	5	-35161.90	2818270.00	60.5	Pass	
L6	70.06 - 42.24	Pole	TP43.95x39.711x0.4014	6	-42909.00	3292780.00	74.0	Pass	
L7	42.24 - 32.71	Pole	TP45.064x43.95x0.4706	7	-46103.20	3953070.00	64.7	Pass	
L8	32.71 - 0	Pole	TP49.552x45.064x0.4906	8	-57936.70	4533980.00	73.8	Pass	
							Summary		
							Pole (L6)	74.0	Pass
							RATING =	74.0	Pass



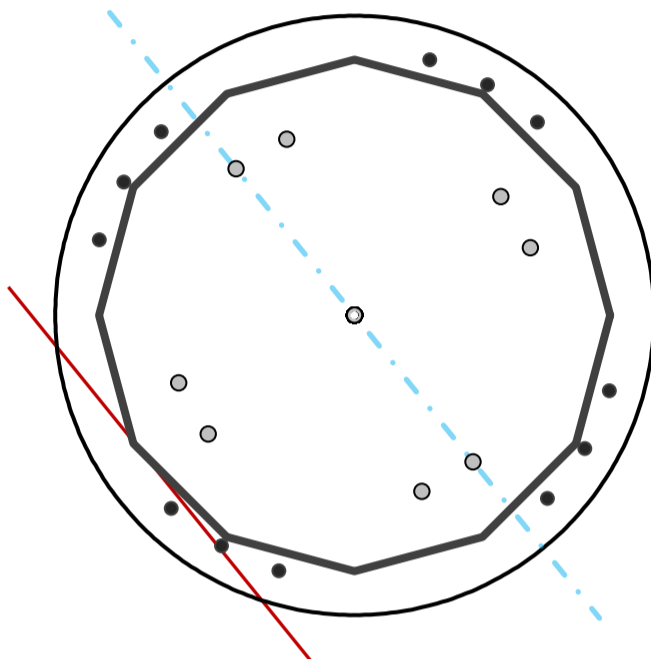
Base Plate & Anchor Rod Analysis

Pole Dimensions		
Number of Sides	12	-
Diameter	51	in
Thickness	3/4	in
Orientation Offset		°

Base Reactions		
Moment, Mu	3,867.0	k-ft
Axial, Pu	58.0	k
Shear, Vu	35.8	k
Neutral Axis	129	°

Report Capacities		
Component	Capacity	Result
Base Plate	21%	Pass
Anchor Rods	91%	Pass
Dwyidag	-	-

Base Plate		
Shape	Round	-
Diameter, ϕ	62	in
Thickness	2	in
Grade	A572-60	
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	75	ksi
Clip	N/A	in
Orientation Offset		°
Anchor Rod Detail	c	$\eta=0.55$
Clear Distance	N/A	in
Applied Moment, Mu	340.1	k
Bending Stress, ϕMn	1589.2	k



Original Anchor Rods		
Arrangement	Cluster	-
Quantity	12	-
Diameter, ϕ	1 3/4	in
Bolt Circle	55	in
Grade	Other	
Yield Strength, Fy	128	ksi
Tensile Strength, Fu	150	ksi
Spacing	6.5	in
Orientation Offset	15	°
Applied Force, Pu	178.9	k
Anchor Rods, ϕPn	213.7	k

Additional Anchor Rods		
Quantity	8	-
Diameter, ϕ	2 1/4	in
Bolt Circle	39	in
Grade	A615-75	
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Bypass Base?	No	
Orientation Offset		°
Applied Force, Pu	217.1	k
Additional Rod, 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	35.8	3867.0	1.00
Anchor Rod Forces	32.3	2460.5	0.64
Additional Bolt (Grp1) Forces	3.5	1406.5	0.36
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	117.0509	9.7542	1.8426		36967.22
Bolt	2.4053	1.8995	0.2871	5	8653.61
Bolt1	3.9761	3.2477	0.8393	4.5	4946.45
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	62	in
Thickness, t	2	in
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	75	ksi
Base Plate Chord	35.256	in
Detail Type	c	-
Detail Factor	0.55	-
Clear Distance	N/A	-

Anchor Rods

Anchor Rod Quantity, N	12	-
Rod Diameter, d	1.75	in
Bolt Circle, BC	55.1	in
Yield Strength, Fy	128	ksi
Tensile Strength, Fu	150	ksi
Applied Axial, Pu	178.9	k
Applied Shear, Vu	0.6	k
Compressive Capacity, ϕP_n	213.7	k
Tensile Capacity, ϕR_{nt}	0.837	OK
Interaction Capacity	0.842	OK

External Base Plate

Chord Length AA	25.429	in
Additional AA	4.000	in
Section Modulus, Z	29.429	in ³
Applied Moment, Mu	340.1	k-ft
Bending Capacity, ϕM_n	1589.2	k-ft
Capacity, Mu/ ϕM_n	0.214	OK
Chord Length AB	21.424	in
Additional AB	4.000	in
Section Modulus, Z	25.424	in ³
Applied Moment, Mu	152.3	k-ft
Bending Capacity, ϕM_n	1372.9	k-ft
Capacity, Mu/ ϕM_n	0.111	OK
Bend Line Length	0.000	in
Additional Bend Line	0.000	in
Section Modulus, Z	0.000	in ³
Applied Moment, Mu	#N/A	k-ft
Bending Capacity, ϕM_n	0.0	k-ft
Capacity, Mu/ ϕM_n		

Additional Bolt Group 1

Bolt Quantity, N	8	-
Bolt Diameter, d	2.25	in
Bolt Circle, BC	39	in
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Applied Axial, Pu	217.1	k
Applied Shear, Vu	2.2	k
Compressive Capacity, ϕP_n	243.6	k
Compressive Capacity, ϕP_n	0.891	OK
Interaction Capacity	0.908	OK

Internal Base Plate

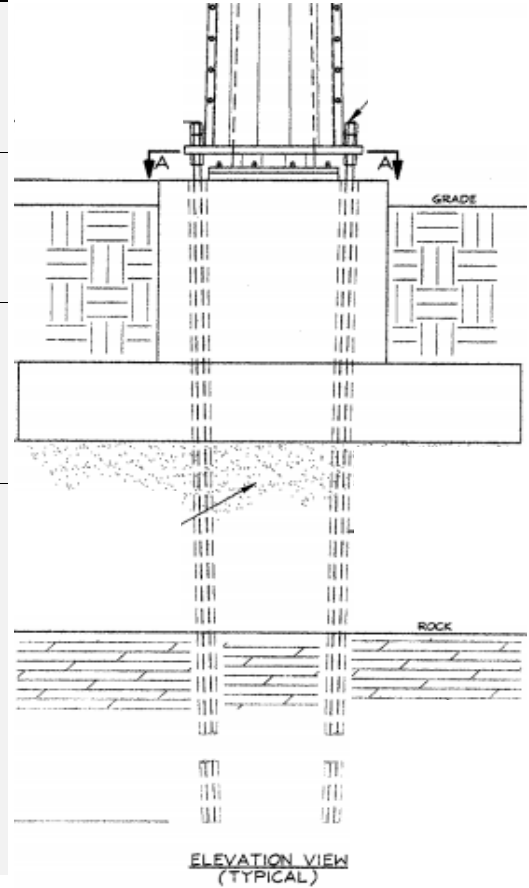
Arc Length	0.000	in
Section Modulus, Z	0.000	in ³
Moment Arm	0.000	in
Applied Moment, Mu	0.0	k-ft
Bending Capacity, ϕM_n	0.0	k-ft
Capacity, Mu/ ϕM_n		

Site Name: Brln-Berlin, CT
Site Number: 302483
Date: 9/13/2021

Rock Anchor Group Foundation Analysis

Foundation Parameters

Foundation Mapped:	Y	
Moment (Overturning) (M_u):	3867.0	k-ft
Shear/Leg (V_u):	35.8	k
Compression/Leg (P_u):	57.9	k
Tower Type (GT / SST / MP):	MP	
Length / Width of Block:	11.0	ft
Pier Width	8.0	ft
Height of Block:	8.58	ft
Mat Thickness	2.58	ft
Block Height Above Ground:	0.83	ft
Depth Below Ground Surface to Water Table (w):	99.0	ft
Unit Weight of Concrete:	150	pcf
Unit Weight of Soil:	135	pcf
Unit Weight of Water:	62.4	pcf
Ultimate Compressive Bearing Pressure:	26,000	psf
Pullout Angle:	40	°
Rod Diameter:	1.75	in
Rod Ultimate Strength:	150	ksi
Rod Net Area:	2.60	in ²
Number of Rods:	12	
Diameter of Cored Hole:	3.63	in
Ultimate Grout / Rock Interface Bond Strength:	150	psi
Ultimate Grout / Rock Anchor Interface Bond Strength:	300	psi
Overall Rod Embedment Length:	386.0	in
Rod Embedment Circle:	54.6	in
Free Stress Length:	182	in
Soil / Concrete Friction Coefficient:	0.25	
Rock Anchor Design Plastic or Elastic:	Elastic	
Ignore Pullout Weight Resistance (Y/N):	N	



Governing Strengths

Total Pullout Weight:	3490.8	k
Total Rock / Grout Bond Strength:	4187.5	k
Total Grout / Rod Bond Strength:	4037.6	k
Total Rod Mechanical Strength:	4680.0	k
Pullout Weight / Rod:	290.9	k
Rock / Grout Bond Strength / Rod:	349.0	k
Grout / Rod Bond Strength / Rod:	336.5	k
Rod Mechanical Strength / Rod:	390.0	k

Capacities & Results

Soil Strength Reduction Factor (ϕ_s):	0.75	
Factored Nominal Moment Capacity per Leg ($\phi_s M_n$):	4697.8	k
Factored Nominal Uplift Capacity per Leg ($\phi_s T_n$):	2739.9	k
Factored Nominal Compressive Capacity per Leg ($\phi_s P_n$):	1853.1	k
Factored Nominal Shear Capacity per Leg ($\phi_s V_n$):	2106.0	k
$T_u / \phi_s T_n + M_u / \phi_s M_n$:	89%	Result: OK
$P_u / \phi_s P_n$:	4%	Result: OK
$V_u / \phi_s V_n$:	2%	Result: OK



Town of Berlin, CT

Property Listing Report

Map Block Lot

11-3-132-7-1

Building # 1

PID 7922

Account

1060060

Property Information

Property Location	286 BECKLEY RD
Owner	SO NEW ENGLAND %FRONTIER COMMUNICATIONS
Co-Owner	ATTENTION TAX DEPT
Mailing Address	PO BOX 2629 ADDISON TX 75001
Land Use	4310 Tel Rel Twr
Land Class	I
Zoning Code	R-43
Census Tract	4001

District	0
Acreage	0
Utilities	UNKNOWN
Book / Page	0230/0842

Primary Construction Details

Year Built	0
Building Desc.	Tel Rel Twr
Building Style	UNKNOWN
Stories	
Occupancy	
Exterior Walls	
Exterior Walls 2	
Roof Style	
Roof Cover	
Interior Walls	
Interior Walls 2	
Interior Floors 1	
Interior Floors 2	

Heating Fuel	
Heating Type	
AC Type	
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	0
Bath Style	
Kitchen Style	
Fin BSMT Area	
Fin BSMT Quality	
Fin BSMT Area 2	
Fin BSMT Qual 2	

BSMT Garages	0
Fireplaces	0
Whirlpool Tub	0
Building Use	Vacant
Building Condition	
Industrial / Commercial Details (*Residential Not Applicable)	
Heat / AC	NA
Frame Type	NA
Baths / Plumbing	NA
Ceiling / Wall	NA
Rooms / Prtns	NA
Wall Height	NA
First Floor Use	NA

Photo



Sketch

No Photo Available

Centerline Communications LLC

028228

CONNECTICUT SITING COUNCIL

Check: 28228
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>
531454-004		625.00	625.00	0.00	0.00	625.00
ATC - Verizon-13673539						
		<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

028228

28228

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

VOID AFTER 90 DAYS

AUTHORIZED SIGNATURE

Security features. Details on back

028228



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: BERLIN II CT (ATC: 302483)
260 Beckley Road, Berlin, CT 06307
N 41.6317 // W 72.7299**

Dear Ms. Bachman,

Cellco Partnership d/b/a Verizon Wireless currently maintains 15 antennas at the 116-ft level on the existing 150-foot monopole tower, located at 260 Beckley Road, Berlin, CT. The tower is owned by American Tower. The property is also owned by John C Matulis, Jr. The Council approved Verizon Wireless use of the existing tower in 2002. Verizon Wireless now intends to remove 9 antennas and install 9 new ones for the LTE (3700 MHz) replacements for its 5G upgrade. Additionally, Verizon Wireless will remove 9 Remote Radio Heads (RRHs) and install with 9 new RRHs, Remove 2 OVPs and install with 2 new OVPs, and remove (12)1-5/8' Coax Cables; 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 Mark H. Kacynski, Mayor for Town of Berlin, its Zoning Enforcement Officer, Maureen Giusti, the tower owner, American Tower, and the property owner, John C Matulis, Jr.

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 July 22, 2021, by CLS Engineering, PLLC., a structural analysis dated June 25, 2021, by A.T. Engineering, PLLC., and a structural mount analysis by Maser Consulting Connecticut date July 8, 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, PLLC, dated June 25, 2021, and a structural mount analysis by Maser Consulting Connecticut, dated July 8, 2021, pursuant to certain conditions defined therein. Design and engineering is fully illustrated within final construction drawings, signed and stamped dated July 22, 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: Mark H. Kacynski, Mayor of Town of Berlin – Chief Elected Official
Maureen Giusti – Zoning Enforcement Officer - as P&Z official
American Tower Corporation - as tower owner
John C Matulis, Jr. - as ground owner

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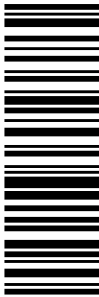
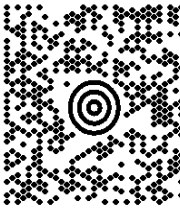
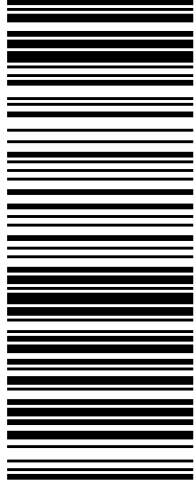

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<p style="text-align: right;">1 OF 1</p> <p style="text-align: center;">1 LBS</p> <p>MIJMAIL 9785687906 CENTERLINE COMMUNICATIONS 750 W. CENTER ST. WEST BRIDGEWATER MA 02379</p> <p>SHIP TO: BERLIN TOWN HALL MARK H. KACYSKI, MAYOR 240 KENSINGTON RD BERLIN CT 06037-2655</p>	<p style="font-size: 2em;">CT 061 9-02</p>  	<p style="font-size: 1.5em;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 1136 7473</p> 	<p style="text-align: center;">BILLING: P/P</p> <p style="text-align: center;">  </p> <p>Reference # 1: 302483 Reference # 2: BRIN BERLIN CS223018 <small>W/NT/NV50 32.OA 08/2021*</small></p>
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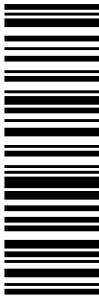
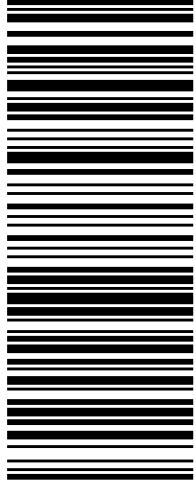

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<p style="text-align: right;">1 OF 1</p> <p style="text-align: center;">1 LBS</p> <p>MIJUMALI 9785687906 CENTERLINE COMMUNICATIONS 750 W. CENTER ST. WEST BRIDGEWATER MA 02379</p> <p>SHIP TO: ZONING ENFORCEMENT OFFICER MAUREEN GIUSTI 240 KENSINGTON RD BERLIN CT 06037-2655</p>	<p style="font-size: 2em;">CT 061 9-02</p> 	<p style="font-size: 1.5em;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 0486 4485</p> 	<p style="text-align: center;">BILLING: P/P</p> <p style="text-align: center;">  </p> <p>Reference # 1: 302483 Reference # 2: BRIN BERLIN CS223018 <small>W/NTNV50 32.OA 08/2021*</small></p>
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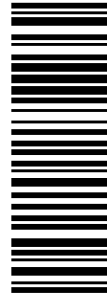

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<p style="text-align: right;">1 OF 1</p> <p style="text-align: right;">5 LBS</p> <p>SHIP TO: LAND MANAGEMENT 7814287250 AMERICAN TOWER CORPORATION 10 PRESIDENTIAL WAY WOBURN MA 01801-1053</p> <p>MJ UMALT 9785667906 CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER MA 02379</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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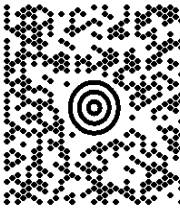
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<p style="text-align: right;">1 OF 1</p> <p style="text-align: center;">1 LBS</p> <p>SHIP TO: JOHN C MATULIS JR 286 BECKLEY ROAD BERLIN CT 06037-2506</p> <p>MIUMALI 9785687906 CENTERLINE COMMUNICATIONS 750 W. CENTER ST. WEST BRIDGEWATER MA 02379</p>	<p style="font-size: 2em;">CT 061 9-02</p>  	<p style="font-size: 1.5em;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 1776 3499</p> 	<p style="text-align: center;">BILLING: P/P</p> <p style="text-align: center;">  </p> <p>Reference # 1: 302483 Reference # 2: BRIN BERLIN <small>CS2230:18</small></p> <p style="font-size: 0.8em;">W/NTNV50 32.OA 08/2021 *</p>
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AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 150 ft Monopole
ATC Site Name : Brln - Berlin, CT
ATC Asset Number : 302483
Engineering Number : 13673539_C3_02
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : BOBDL00013A
Carrier Site Number : BOBDL00013A
Site Location : 286 Beckley Road
Berlin, CT 06037-2419
41.631700,-72.729900
County : Hartford
Date : June 25, 2021
Max Usage : 99%
Result : Pass



Prepared By:
Garret D. Heath
Structural Engineer II

Reviewed By:

COA: PEC.0001553



Table of Contents

Introduction	1
Supporting Documents	1
Analysis	1
Conclusion.....	1
Existing and Reserved Equipment.....	2
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Deflection and Sway	4
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Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 150 ft monopole to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower Drawings	ITT Meyer Type "B", dated July 21, 2001 Mapping by Smith Cullum Acq. #CT-0019, dated July 21, 2001 Mapping by ATC Report #0682, dated January 7, 2016
Foundation Drawing	SpectraSite Project #CT-0019, dated May 29, 2003
Geotechnical Report	Daniel G. Loucks Project #CT-0019, dated December 21, 2001
Modifications	Scintel Project #Berlin-CT0019, dated July 30, 2002 ATC Project #11912109_P5_02, dated October 3, 2017

Analysis

The tower was analyzed using tnxTower version 8.0.7.4 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:	No Ice Considered
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	C
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Crest Height (H):	0 ft

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	Equipment	Mount Type	Lines	Carrier
152.0	2	Raycap DC6-48-60-18-8F(32.8 lbs)	Platform with Handrails	(2) 0.39" (10mm) Fiber Trunk (4) 0.78" (19.7mm) 8 AWG 6 (12) 1 1/4" Coax (1) 3" conduit	AT&T MOBILITY
	6	Powerwave Allgon LGP21401			
	3	Ericsson RRUS 11 (Band 12) (55 lb)			
	3	Ericsson RRUS 32 (50.8 lbs)			
	3	Ericsson RRUS 32 B2			
	3	Powerwave Allgon 7770.00			
	3	Quintel QS66512-2			
	3	CCI OPA-65R-LCUU-H6			
	3	Ericsson RRUS 4426 B66			
	6	CCI TPX-070821			
142.0	3	RFS APXVAARR24_43-U-NA20	Platform with Handrails	(2) 1 1/4" (1.25"- 31.8mm) Fiber (1) 1 5/8" (1.63"- 41.3mm) Fiber (12) 1 5/8" Coax	T-MOBILE
	3	Ericsson AIR32 B66Aa/B2a			
	3	Ericsson Radio 4449 B12,B71			
	3	Ericsson KRY 112 144/2			
	3	Ericsson KRY 112 489/2			
132.7	3	Alcatel-Lucent 800 MHz 2X50W RRH w/ Filter	Platform with Handrails	(4) 1 1/4" Hybriflex Cable	SPRINT NEXTEL
127.0	3	Alcatel-Lucent 4x40W RRH (88 lb)			
	3	Alcatel-Lucent TD-RRH8x20			
	1	RFS APXV9ERR18-C-A20			
	2	RFS APXVSPP18-C-A20			
	3	Commscope DT465B-2XR			
	3	Alcatel-Lucent RRH2x50-08			
116.0	-	-	Platform with Handrails	(2) 1 5/8" (1.63"- 41.3mm) Fiber (6) 1 5/8" Coax	VERIZON WIRELESS

Equipment to be Removed

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
122.0	3	Alcatel-Lucent RRH2X60-AWS	-	-	VERIZON WIRELESS
116.0	6	Amphenol Antel LPA-80063-6CF-EDIN-X	-	(6) 1 5/8" Coax	
	2	RFS DB-T1-6Z-8AB-OZ			
	3	Commscope LNX-6514DS-A1M			
	3	Alcatel-Lucent RRH2X60-1900			
	3	Alcatel-Lucent RRH2x60 700			



Proposed Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
116.0	3	Samsung Outdoor CBRS 20W RRH –Clip-on Antenna	Platform with Handrails	-	VERIZON WIRELESS
	3	Samsung RT4401-48A			
	3	Samsung B2/B66A RRH-BR049			
	3	Samsung B5/B13 RRH-BR04C			
	2	Raycap RRFDC-3315-PF-48 (32lbs)			
	3	Samsung MT6407-77A			
	3	Amphenol Antel BXA-70080-6CF-EDIN-4			
	6	Commscope SBNHH-1D65B			

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	78%	Pass
Shaft	63%	Pass
Base Plate	18%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	3303.0	99%
Axial (Kips)	51.0	17%
Shear (Kips)	32.0	54%

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



Deflection and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
116.0	Samsung Outdoor CBRS 20W RRH –Clip-on Antenna	VERIZON WIRELESS	1.030	0.972
	Samsung RT4401-48A			
	Samsung B2/B66A RRH-BR049			
	Samsung B5/B13 RRH-BR04C			
	Raycap RRFDC-3315-PF-48 (32lbs)			
	Samsung MT6407-77A			
	Amphenol Antel BXA-70080-6CF-EDIN-4			
Commscope SBNHH-1D65B				

*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.

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
CBC23SR-43	152	KRY 112 489/2	142
CBC23SR-43	152	KRY 112 489/2	142
CBC23SR-43	152	Radio 4449 B12,B71	142
DC6-48-60-0-8C-EV	152	800 MHz 2X50W RRH w/ Filter	134
ION-M23 SDARS	152	800 MHz 2X50W RRH w/ Filter	134
ION-M23 SDARS	152	800 MHz 2X50W RRH w/ Filter	134
ION-M23 SDARS	152	TD-RRH8x20	127
DC6-48-60-18-8F(32.8 lbs)	151.5	TD-RRH8x20	127
RRUS 4426 B66	151.5	TD-RRH8x20	127
RRUS 4426 B66	151.5	APXVSP18-C-A20	127
RRUS 4426 B66	151.5	APXVSP18-C-A20	127
RRUS 11 (Band 12) (55 lb)	151.5	APXV9ERR18-C-A20	127
RRUS 11 (Band 12) (55 lb)	151.5	DT465B-2XR	127
RRUS 11 (Band 12) (55 lb)	151.5	DT465B-2XR	127
RRUS 32 (50.8 lbs)	151.5	DT465B-2XR	127
RRUS 32 (50.8 lbs)	151.5	Round Platform w/ Handrails	127
RRUS 32 (50.8 lbs)	151.5	Round Platform w/ Handrails	127
RRUS 32 B2	151.5	RRH2x50-08	127
RRUS 32 B2	151.5	RRH2x50-08	127
RRUS 32 B2	151.5	RRH2x50-08	127
7770.00	151.5	(2) 4x40W RRH (88 lb)	127
7770.00	151.5	(2) 4x40W RRH (88 lb)	127
7770.00	151.5	(2) 4x40W RRH (88 lb)	127
QS66512-2	151.5	Round Platform w/ Handrails	119
QS66512-2	151.5	Outdoor CBRS 20W RRH -Clip-on Antenna	116
QS66512-2	151.5	Outdoor CBRS 20W RRH -Clip-on Antenna	116
OPA-65R-LCUU-H6	151.5	Outdoor CBRS 20W RRH -Clip-on Antenna	116
OPA-65R-LCUU-H6	151.5	Outdoor CBRS 20W RRH -Clip-on Antenna	116
OPA-65R-LCUU-H6	151.5	Outdoor CBRS 20W RRH -Clip-on Antenna	116
Flat Platform w/ Handrails	151.5	RT4401-48A	116
(2) TPX-070821	151.5	RT4401-48A	116
(2) TPX-070821	151.5	RT4401-48A	116
(2) TPX-070821	151.5	RT4401-48A	116
(2) LGP21401	151.5	B5/B13 RRH-BR04C	116
(2) LGP21401	151.5	B5/B13 RRH-BR04C	116
(2) LGP21401	151.5	B5/B13 RRH-BR04C	116
DC6-48-60-18-8F(32.8 lbs)	151.5	B2/B66A RRH-BR049	116
Radio 4449 B12,B71	142	B2/B66A RRH-BR049	116
Radio 4449 B12,B71	142	RRFDC-3315-PF-48 (32lbs)	116
AIR32 B66Aa/B2a	142	RRFDC-3315-PF-48 (32lbs)	116
AIR32 B66Aa/B2a	142	MT6407-77A	116
AIR32 B66Aa/B2a	142	BXA-70080-6CF-EDIN-4	116
APXVAARR24_43-U-NA20	142	BXA-70080-6CF-EDIN-4	116
APXVAARR24_43-U-NA20	142	BXA-70080-6CF-EDIN-4	116
APXVAARR24_43-U-NA20	142	(2) SBNHH-1D65B	116
KRY 112 144/2	142	(2) SBNHH-1D65B	116
KRY 112 144/2	142	(2) SBNHH-1D65B	116
KRY 112 144/2	142	(2) SBNHH-1D65B	116
KRY 112 489/2	142		

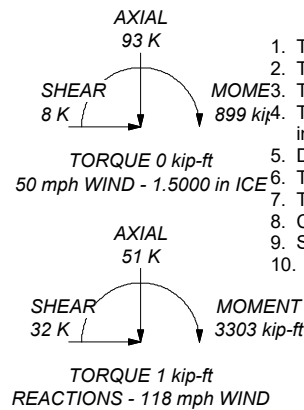
MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 118 mph basic wind in accordance with the TIA-222-H Standard. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. Combined pole and wrap structure.
9. Sections modeled to have equivalent inertia to pole and wrap combined.
10. TOWER RATING: 63.1%

ALL REACTIONS ARE FACTORED



Section	Length (ft)	Number of Sides	Thickness (in)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	10.50	12	0.2400	17.1872	17.7841	A572-65	0.5
2	20.67	12	0.3059	17.7841	31.5570	A572-65	1.7
3	9.14	12	0.3063	31.5570	33.0280	A572-65	1.0
4	29.11	12	0.3141	33.0280	38.3470	A572-65	3.5
5	12.02	12	0.3804	38.3470	39.7110	A572-65	1.9
6	27.82	12	0.4014	39.7110	43.9500	A572-65	5.1
7	9.53	12	0.4706	43.9500	45.0640	A572-65	2.2
8	32.71	12	0.4906	45.0640	49.5520	A572-65	8.2
						A572-65	24.1

ATC Engineering		Job: Brln-Berlin (302483)	
3500 Regency Parkway, Suite 100		Project: 13673539_C3_02	
Cary, NC 27518		Client: VERIZON WIRELESS	Drawn by: Garret.Heath
Phone: (919) 466-5258		Code: TIA-222-H	Date: 06/25/21
FAX:		Path:	Scale: NTS
		Dwg No. E-1	

©:\user\garret.heath\Desktop\716X FILES\RUN LOCAL\302483\302483 Brln-Berlin_C3_02.dwg

tnxTower ATC Engineering 3500 Regency Parkway, Suite 100 Cary, NC 27518 Phone: (919) 466-5258 FAX:	Job	Brln-Berlin (302483)	Page	1 of 17
	Project	13673539_C3_02	Date	09:38:22 06/25/21
	Client	VERIZON WIRELESS	Designed by	Garret.Heath

Tower Input Data

The tower is a monopole.

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

The following design criteria apply:

- Tower is located in Hartford County, Connecticut.
- Tower base elevation above sea level: 0.00 ft.
- Basic wind speed of 118 mph.
- Risk Category II.
- Exposure Category B.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.00 ft.
- Nominal ice thickness of 1.5000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 60 mph.
- Combined pole and wrap structure..
- Sections modeled to have equivalent inertia to pole and wrap combined..
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in pole design is 1.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

- | | | |
|--|---|---|
| <ul style="list-style-type: none"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification √ Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity Leg Bolts Are At Top Of Section Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric | <ul style="list-style-type: none"> Distribute Leg Loads As Uniform Assume Legs Pinned √ Assume Rigid Index Plate √ Use Clear Spans For Wind Area Use Clear Spans For KL/r Retension Guys To Initial Tension √ Bypass Mast Stability Checks √ Use Azimuth Dish Coefficients √ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs | <ul style="list-style-type: none"> Use ASCE 10 X-Brace Ly Rules Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation √ Consider Feed Line Torque Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <li style="text-align: center;">Poles √ Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known |
|--|---|---|

Tapered Pole Section Geometry

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Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft ²	in					in	in	in
L8 32.71-0.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf

1 5/8" Coax	B	No	Surface Ar (CaAa)	119.00 - 5.00	6	6	0.300 0.500	1.9800		0.82
1 5/8" (1.63"-41.3mm) Fiber	C	No	Surface Ar (CaAa)	119.00 - 5.00	2	2	-0.490 -0.480	1.6300		1.61

4" Wrap Seams	A	No	Surface Ar (CaAa)	141.00 - 5.00	1	1	0.000 0.000	4.0000		0.00
4" Wrap Seams	B	No	Surface Ar (CaAa)	141.00 - 5.00	1	1	0.000 0.000	4.0000		0.00
4" Wrap Seams	C	No	Surface Ar (CaAa)	141.00 - 5.00	1	1	0.000 0.000	4.0000		0.00

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		$C_A A_A$ ft ² /ft	Weight plf	
1 1/4" Coax	C	No	No	Inside Pole	151.50 - 5.00	12	No Ice 1/2" Ice 1" Ice 2" Ice	0.00 0.00 0.00 0.00	0.66 0.66 0.66 0.66	
0.39" (10mm) Fiber Trunk	C	No	No	Inside Pole	151.50 - 5.00	2	No Ice 1/2" Ice 1" Ice 2" Ice	0.00 0.00 0.00 0.00	0.06 0.06 0.06 0.06	
0.78" (19.7mm) 8 AWG 6	C	No	No	Inside Pole	151.50 - 5.00	4	No Ice 1/2" Ice 1" Ice 2" Ice	0.00 0.00 0.00 0.00	0.59 0.59 0.59 0.59	
3" conduit	C	No	No	Inside Pole	151.50 - 5.00	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.00 0.00 0.00 0.00	1.78 1.78 1.78 1.78	

1 5/8" (1.63"-41.3mm) Fiber	C	No	No	Inside Pole	142.00 - 5.00	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.00 0.00 0.00 0.00	1.61 1.61 1.61 1.61	
1 1/4" (1.25"-31.8mm) Fiber	C	No	No	Inside Pole	142.00 - 5.00	2	No Ice 1/2" Ice 1" Ice 2" Ice	0.00 0.00 0.00 0.00	1.05 1.05 1.05 1.05	

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Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _{AA} ft ² /ft	Weight plf
1 5/8" Coax	C	No	No	Inside Pole	142.00 - 5.00	12	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
							2" Ice	0.00	0.82

1 1/4" Hybriflex	C	No	No	Inside Pole	127.00 - 5.00	4	No Ice	0.00	0.66
							1/2" Ice	0.00	0.66
							1" Ice	0.00	0.66
							2" Ice	0.00	0.66

0.82" (20.8mm) 8 AWG 6	C	No	No	Inside Pole	151.50 - 0.00	2	No Ice	0.00	0.62
							1/2" Ice	0.00	0.62
							1" Ice	0.00	0.62
							2" Ice	0.00	0.62

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
L1	151.50-141.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.15
L2	141.00-120.33	A	0.000	0.000	8.268	0.000	0.00
		B	0.000	0.000	8.268	0.000	0.00
		C	0.000	0.000	8.268	0.000	0.58
L3	120.33-111.19	A	0.000	0.000	3.656	0.000	0.00
		B	0.000	0.000	12.934	0.000	0.04
		C	0.000	0.000	6.202	0.000	0.30
L4	111.19-82.08	A	0.000	0.000	11.644	0.000	0.00
		B	0.000	0.000	46.227	0.000	0.14
		C	0.000	0.000	21.134	0.000	0.96
L5	82.08-70.06	A	0.000	0.000	4.808	0.000	0.00
		B	0.000	0.000	19.088	0.000	0.06
		C	0.000	0.000	8.727	0.000	0.39
L6	70.06-42.24	A	0.000	0.000	11.128	0.000	0.00
		B	0.000	0.000	44.178	0.000	0.14
		C	0.000	0.000	20.197	0.000	0.91
L7	42.24-32.71	A	0.000	0.000	3.812	0.000	0.00
		B	0.000	0.000	15.134	0.000	0.05
		C	0.000	0.000	6.919	0.000	0.31
L8	32.71-0.00	A	0.000	0.000	11.084	0.000	0.00
		B	0.000	0.000	44.003	0.000	0.14
		C	0.000	0.000	20.117	0.000	0.92

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
L1	151.50-141.00	A	1.741	0.000	0.000	0.000	0.000	0.00

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Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	C_{AA} In Face ft ²	C_{AA} Out Face ft ²	Weight K
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.15
L2	141.00-120.33	A	1.720	0.000	0.000	15.379	0.000	0.25
		B		0.000	0.000	15.379	0.000	0.25
		C		0.000	0.000	15.379	0.000	0.82
L3	120.33-111.19	A	1.701	0.000	0.000	6.765	0.000	0.11
		B		0.000	0.000	21.683	0.000	0.32
		C		0.000	0.000	13.267	0.000	0.48
L4	111.19-82.08	A	1.670	0.000	0.000	21.364	0.000	0.34
		B		0.000	0.000	76.742	0.000	1.12
		C		0.000	0.000	45.376	0.000	1.56
L5	82.08-70.06	A	1.631	0.000	0.000	8.728	0.000	0.13
		B		0.000	0.000	31.477	0.000	0.45
		C		0.000	0.000	18.526	0.000	0.64
L6	70.06-42.24	A	1.581	0.000	0.000	19.926	0.000	0.30
		B		0.000	0.000	72.236	0.000	1.01
		C		0.000	0.000	42.260	0.000	1.45
L7	42.24-32.71	A	1.519	0.000	0.000	6.707	0.000	0.10
		B		0.000	0.000	24.479	0.000	0.33
		C		0.000	0.000	14.210	0.000	0.49
L8	32.71-0.00	A	1.396	0.000	0.000	18.821	0.000	0.26
		B		0.000	0.000	69.642	0.000	0.89
		C		0.000	0.000	39.784	0.000	1.37

Feed Line Center of Pressure

Section	Elevation ft	CP_x in	CP_z in	CP_x Ice in	CP_z Ice in
L1	151.50-141.00	0.0000	0.0000	0.0000	0.0000
L2	141.00-120.33	0.0000	0.0000	0.0000	0.0000
L3	120.33-111.19	4.0222	1.5387	3.9571	1.6107
L4	111.19-82.08	4.7022	1.7990	4.6115	1.8759
L5	82.08-70.06	4.8836	1.8686	4.8565	1.9738
L6	70.06-42.24	5.0232	1.9222	5.0469	2.0488
L7	42.24-32.71	5.1475	1.9699	5.2158	2.1140
L8	32.71-0.00	4.7307	1.8104	4.9166	1.9863

Note: For pole sections, center of pressure calculations do not consider feed line shielding.

Shielding Factor K_a

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L2	15	4" Wrap Seams	120.33 - 141.00	1.0000	1.0000
L2	16	4" Wrap Seams	120.33 - 141.00	1.0000	1.0000
L2	17	4" Wrap Seams	120.33 -	1.0000	1.0000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L3	12	1 5/8" Coax	141.00 - 111.19	1.0000	1.0000
L3	13	1 5/8" (1.63"-41.3mm) Fiber	119.00 - 111.19	1.0000	1.0000
L3	15	4" Wrap Seams	119.00 - 111.19	1.0000	1.0000
L3	16	4" Wrap Seams	120.33 - 111.19	1.0000	1.0000
L3	17	4" Wrap Seams	120.33 - 111.19	1.0000	1.0000
L4	12	1 5/8" Coax	82.08 - 111.19	1.0000	1.0000
L4	13	1 5/8" (1.63"-41.3mm) Fiber	82.08 - 111.19	1.0000	1.0000
L4	15	4" Wrap Seams	82.08 - 111.19	1.0000	1.0000
L4	16	4" Wrap Seams	82.08 - 111.19	1.0000	1.0000
L4	17	4" Wrap Seams	82.08 - 111.19	1.0000	1.0000
L5	12	1 5/8" Coax	70.06 - 82.08	1.0000	1.0000
L5	13	1 5/8" (1.63"-41.3mm) Fiber	70.06 - 82.08	1.0000	1.0000
L5	15	4" Wrap Seams	70.06 - 82.08	1.0000	1.0000
L5	16	4" Wrap Seams	70.06 - 82.08	1.0000	1.0000
L5	17	4" Wrap Seams	70.06 - 82.08	1.0000	1.0000
L6	12	1 5/8" Coax	42.24 - 70.06	1.0000	1.0000
L6	13	1 5/8" (1.63"-41.3mm) Fiber	42.24 - 70.06	1.0000	1.0000
L6	15	4" Wrap Seams	42.24 - 70.06	1.0000	1.0000
L6	16	4" Wrap Seams	42.24 - 70.06	1.0000	1.0000
L6	17	4" Wrap Seams	42.24 - 70.06	1.0000	1.0000
L7	12	1 5/8" Coax	32.71 - 42.24	1.0000	1.0000
L7	13	1 5/8" (1.63"-41.3mm) Fiber	32.71 - 42.24	1.0000	1.0000
L7	15	4" Wrap Seams	32.71 - 42.24	1.0000	1.0000
L7	16	4" Wrap Seams	32.71 - 42.24	1.0000	1.0000
L7	17	4" Wrap Seams	32.71 - 42.24	1.0000	1.0000
L8	12	1 5/8" Coax	5.00 - 32.71	1.0000	1.0000
L8	13	1 5/8" (1.63"-41.3mm) Fiber	5.00 - 32.71	1.0000	1.0000
L8	15	4" Wrap Seams	5.00 - 32.71	1.0000	1.0000
L8	16	4" Wrap Seams	5.00 - 32.71	1.0000	1.0000
L8	17	4" Wrap Seams	5.00 - 32.71	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement	C _A A _{Front}	C _A A _{Side}	Weight	
			ft ft ft	°	ft	ft ²	ft ²	K	
(2) TPX-070821	A	From Leg	3.00	0.0000	151.50	No Ice	0.00	0.18	0.01
			0.00			1/2" Ice	0.00	0.25	0.01
			0.50			1" Ice	0.00	0.32	0.02
(2) TPX-070821	B	From Leg	3.00	0.0000	151.50	No Ice	0.00	0.18	0.01
			0.00			1/2" Ice	0.00	0.25	0.01
			0.50			1" Ice	0.00	0.32	0.02
(2) TPX-070821	C	From Leg	3.00	0.0000	151.50	No Ice	0.00	0.18	0.01

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Vert					
				0.00					0.01
				0.50					0.02
									0.03
(2) LGP21401	A	From Leg	3.00	0.0000	151.50	No Ice	0.00	0.36	0.01
			0.00			1/2" Ice	1.45	0.48	0.02
			0.50			1" Ice	1.61	0.60	0.03
						2" Ice	1.97	0.87	0.05
(2) LGP21401	B	From Leg	3.00	0.0000	151.50	No Ice	0.00	0.36	0.01
			0.00			1/2" Ice	1.45	0.48	0.02
			0.50			1" Ice	1.61	0.60	0.03
						2" Ice	1.97	0.87	0.05
(2) LGP21401	C	From Leg	3.00	0.0000	151.50	No Ice	0.00	0.36	0.01
			0.00			1/2" Ice	1.45	0.48	0.02
			0.50			1" Ice	1.61	0.60	0.03
						2" Ice	1.97	0.87	0.05
DC6-48-60-18-8F(32.8 lbs)	B	From Leg	0.50	0.0000	151.50	No Ice	1.28	0.79	0.02
			0.00			1/2" Ice	1.27	1.27	0.04
			0.50			1" Ice	1.45	1.45	0.05
						2" Ice	1.83	1.83	0.10
DC6-48-60-18-8F(32.8 lbs)	C	From Leg	0.50	0.0000	151.50	No Ice	1.28	0.79	0.02
			0.00			1/2" Ice	1.27	1.27	0.04
			0.50			1" Ice	1.45	1.45	0.05
						2" Ice	1.83	1.83	0.10
RRUS 4426 B66	A	From Leg	3.00	0.0000	151.50	No Ice	1.65	0.73	0.05
			0.00			1/2" Ice	1.81	0.84	0.06
			0.50			1" Ice	1.98	0.97	0.08
						2" Ice	2.34	1.25	0.11
RRUS 4426 B66	B	From Leg	3.00	0.0000	151.50	No Ice	1.65	0.73	0.05
			0.00			1/2" Ice	1.81	0.84	0.06
			0.50			1" Ice	1.98	0.97	0.08
						2" Ice	2.34	1.25	0.11
RRUS 4426 B66	C	From Leg	3.00	0.0000	151.50	No Ice	1.65	0.73	0.05
			0.00			1/2" Ice	1.81	0.84	0.06
			0.50			1" Ice	1.98	0.97	0.08
						2" Ice	2.34	1.25	0.11
RRUS 11 (Band 12) (55 lb)	A	From Leg	3.00	0.0000	151.50	No Ice	0.00	1.07	0.06
			0.00			1/2" Ice	2.72	1.21	0.07
			0.50			1" Ice	2.92	1.36	0.10
						2" Ice	3.35	1.68	0.15
RRUS 11 (Band 12) (55 lb)	B	From Leg	3.00	0.0000	151.50	No Ice	0.00	1.07	0.06
			0.00			1/2" Ice	2.72	1.21	0.07
			0.50			1" Ice	2.92	1.36	0.10
						2" Ice	3.35	1.68	0.15
RRUS 11 (Band 12) (55 lb)	C	From Leg	3.00	0.0000	151.50	No Ice	0.00	1.07	0.06
			0.00			1/2" Ice	2.72	1.21	0.07
			0.50			1" Ice	2.92	1.36	0.10
						2" Ice	3.35	1.68	0.15
RRUS 32 (50.8 lbs)	B	From Leg	3.00	0.0000	151.50	No Ice	0.00	2.42	0.08
			0.00			1/2" Ice	0.00	2.64	0.10
			0.50			1" Ice	0.00	2.86	0.14
						2" Ice	0.00	3.32	0.21
RRUS 32 (50.8 lbs)	C	From Leg	3.00	0.0000	151.50	No Ice	0.00	2.42	0.08
			0.00			1/2" Ice	0.00	2.64	0.10
			0.50			1" Ice	0.00	2.86	0.14
						2" Ice	0.00	3.32	0.21
RRUS 32 (50.8 lbs)	C	From Leg	3.00	0.0000	151.50	No Ice	0.00	2.42	0.08
			0.00			1/2" Ice	0.00	2.64	0.10

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Vert					
				0.50					
						1" Ice	0.00	2.86	0.14
						2" Ice	0.00	3.32	0.21
RRUS 32 B2	A	From Leg	3.00	0.0000	151.50	No Ice	0.00	1.67	0.05
			0.00			1/2" Ice	0.00	1.86	0.07
			0.50			1" Ice	0.00	2.05	0.10
						2" Ice	0.00	2.46	0.16
RRUS 32 B2	A	From Leg	3.00	0.0000	151.50	No Ice	0.00	1.67	0.05
			0.00			1/2" Ice	0.00	1.86	0.07
			0.50			1" Ice	0.00	2.05	0.10
						2" Ice	0.00	2.46	0.16
RRUS 32 B2	C	From Leg	3.00	0.0000	151.50	No Ice	0.00	1.67	0.05
			0.00			1/2" Ice	0.00	1.86	0.07
			0.50			1" Ice	0.00	2.05	0.10
						2" Ice	0.00	2.46	0.16
7770.00	A	From Leg	3.00	0.0000	151.50	No Ice	5.51	2.93	0.04
			0.00			1/2" Ice	6.31	3.27	0.07
			0.50			1" Ice	6.75	3.63	0.11
						2" Ice	7.66	4.35	0.20
7770.00	B	From Leg	3.00	0.0000	151.50	No Ice	5.51	2.93	0.04
			0.00			1/2" Ice	6.31	3.27	0.07
			0.50			1" Ice	6.75	3.63	0.11
						2" Ice	7.66	4.35	0.20
7770.00	C	From Leg	3.00	0.0000	151.50	No Ice	5.51	2.93	0.04
			0.00			1/2" Ice	6.31	3.27	0.07
			0.50			1" Ice	6.75	3.63	0.11
						2" Ice	7.66	4.35	0.20
QS66512-2	A	From Leg	3.00	0.0000	151.50	No Ice	8.13	5.00	0.11
			0.00			1/2" Ice	9.23	5.80	0.17
			0.50			1" Ice	10.33	6.60	0.23
						2" Ice	12.53	8.20	0.34
QS66512-2	B	From Leg	3.00	0.0000	151.50	No Ice	8.13	5.00	0.11
			0.00			1/2" Ice	9.23	5.80	0.17
			0.50			1" Ice	10.33	6.60	0.23
						2" Ice	12.53	8.20	0.34
QS66512-2	C	From Leg	3.00	0.0000	151.50	No Ice	8.13	5.00	0.11
			0.00			1/2" Ice	9.23	5.80	0.17
			0.50			1" Ice	10.33	6.60	0.23
						2" Ice	12.53	8.20	0.34
OPA-65R-LCUU-H6	A	From Leg	3.00	0.0000	151.50	No Ice	9.66	5.52	0.07
			0.00			1/2" Ice	10.13	5.97	0.13
			0.50			1" Ice	10.61	6.43	0.20
						2" Ice	11.58	7.38	0.35
OPA-65R-LCUU-H6	B	From Leg	3.00	0.0000	151.50	No Ice	9.66	5.52	0.07
			0.00			1/2" Ice	10.13	5.97	0.13
			0.50			1" Ice	10.61	6.43	0.20
						2" Ice	11.58	7.38	0.35
OPA-65R-LCUU-H6	C	From Leg	3.00	0.0000	151.50	No Ice	9.66	5.52	0.07
			0.00			1/2" Ice	10.13	5.97	0.13
			0.50			1" Ice	10.61	6.43	0.20
						2" Ice	11.58	7.38	0.35
Flat Platform w/ Handrails	C	None		0.0000	151.50	No Ice	42.40	42.40	2.00
						1/2" Ice	48.40	48.40	2.45
						1" Ice	54.40	54.40	2.90
						2" Ice	66.40	66.40	3.80

KRY 112 144/2	A	From Leg	3.00	0.0000	142.00	No Ice	0.00	0.23	0.01
			0.00			1/2" Ice	0.00	0.30	0.01

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	Client	VERIZON WIRELESS	Designed by	Garret.Heath

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight	
			Horz	Vert						
			ft	ft	°	ft	ft ²	ft ²	K	
			0.00				1" Ice	0.00	0.38	0.02
							2" Ice	0.00	0.55	0.04
KRY 112 144/2	B	From Leg	3.00		0.0000	142.00	No Ice	0.00	0.23	0.01
			0.00				1/2" Ice	0.00	0.30	0.01
			0.00				1" Ice	0.00	0.38	0.02
							2" Ice	0.00	0.55	0.04
KRY 112 144/2	C	From Leg	3.00		0.0000	142.00	No Ice	0.00	0.23	0.01
			0.00				1/2" Ice	0.00	0.30	0.01
			0.00				1" Ice	0.00	0.38	0.02
							2" Ice	0.00	0.55	0.04
KRY 112 489/2	A	From Leg	3.00		0.0000	142.00	No Ice	0.00	0.36	0.02
			0.00				1/2" Ice	0.00	0.44	0.02
			0.00				1" Ice	0.00	0.54	0.03
							2" Ice	0.00	0.75	0.05
KRY 112 489/2	B	From Leg	3.00		0.0000	142.00	No Ice	0.00	0.36	0.02
			0.00				1/2" Ice	0.00	0.44	0.02
			0.00				1" Ice	0.00	0.54	0.03
							2" Ice	0.00	0.75	0.05
KRY 112 489/2	C	From Leg	3.00		0.0000	142.00	No Ice	0.00	0.36	0.02
			0.00				1/2" Ice	0.00	0.44	0.02
			0.00				1" Ice	0.00	0.54	0.03
							2" Ice	0.00	0.75	0.05
Radio 4449 B12,B71	A	From Leg	3.00		0.0000	142.00	No Ice	1.64	1.16	0.07
			0.00				1/2" Ice	2.20	1.55	0.90
			0.00				1" Ice	2.76	1.94	1.73
							2" Ice	3.88	2.72	3.38
Radio 4449 B12,B71	B	From Leg	3.00		0.0000	142.00	No Ice	1.64	1.16	0.07
			0.00				1/2" Ice	2.20	1.55	0.90
			0.00				1" Ice	2.76	1.94	1.73
							2" Ice	3.88	2.72	3.38
Radio 4449 B12,B71	C	From Leg	3.00		0.0000	142.00	No Ice	1.64	1.16	0.07
			0.00				1/2" Ice	2.20	1.55	0.90
			0.00				1" Ice	2.76	1.94	1.73
							2" Ice	3.88	2.72	3.38
AIR32 B66Aa/B2a	A	From Leg	3.00		0.0000	142.00	No Ice	6.51	2.70	0.13
			0.00				1/2" Ice	7.78	3.22	0.18
			0.00				1" Ice	9.05	3.74	0.22
							2" Ice	11.59	4.78	0.32
AIR32 B66Aa/B2a	B	From Leg	3.00		0.0000	142.00	No Ice	6.51	2.70	0.13
			0.00				1/2" Ice	7.78	3.22	0.18
			0.00				1" Ice	9.05	3.74	0.22
							2" Ice	11.59	4.78	0.32
AIR32 B66Aa/B2a	C	From Leg	3.00		0.0000	142.00	No Ice	6.51	2.70	0.13
			0.00				1/2" Ice	7.78	3.22	0.18
			0.00				1" Ice	9.05	3.74	0.22
							2" Ice	11.59	4.78	0.32
APXVAARR24_43-U-NA20	A	From Leg	3.00		0.0000	142.00	No Ice	20.24	5.15	0.13
			0.00				1/2" Ice	23.53	5.99	0.24
			0.00				1" Ice	26.82	6.83	0.35
							2" Ice	33.40	8.51	0.58
APXVAARR24_43-U-NA20	B	From Leg	3.00		0.0000	142.00	No Ice	20.24	5.15	0.13
			0.00				1/2" Ice	23.53	5.99	0.24
			0.00				1" Ice	26.82	6.83	0.35
							2" Ice	33.40	8.51	0.58
APXVAARR24_43-U-NA20	C	From Leg	3.00		0.0000	142.00	No Ice	20.24	5.15	0.13
			0.00				1/2" Ice	23.53	5.99	0.24
			0.00				1" Ice	26.82	6.83	0.35

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	Client	VERIZON WIRELESS	Designed by	Garret.Heath

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Vert					
			Lateral		°	ft	ft ²	ft ²	K
			ft	ft					
Round Platform w/ Handrails	C	None			0.0000	127.00	2" Ice 33.40 No Ice 27.20 1/2" Ice 34.20 1" Ice 41.20 2" Ice 55.20	8.51 27.20 34.20 41.20 55.20	0.58 2.00 2.40 2.80 3.60

RRH2x50-08	A	From Face	3.00 0.00 0.00		0.0000	127.00	No Ice 1.70 1/2" Ice 2.27 1" Ice 2.84 2" Ice 3.98	1.10 1.80 2.50 3.90	0.05 0.07 0.09 0.12
RRH2x50-08	B	From Face	3.00 0.00 0.00		0.0000	127.00	No Ice 1.70 1/2" Ice 2.27 1" Ice 2.84 2" Ice 3.98	1.10 1.80 2.50 3.90	0.05 0.07 0.09 0.12
RRH2x50-08	C	From Face	3.00 0.00 0.00		0.0000	127.00	No Ice 1.70 1/2" Ice 2.27 1" Ice 2.84 2" Ice 3.98	1.10 1.80 2.50 3.90	0.05 0.07 0.09 0.12
800 MHz 2X50W RRH w/ Filter	A	From Leg	3.00 0.00 0.00		0.0000	134.00	No Ice 0.00 1/2" Ice 2.24 1" Ice 2.43 2" Ice 2.83	1.93 2.11 2.29 2.68	0.06 0.09 0.11 0.17
800 MHz 2X50W RRH w/ Filter	B	From Leg	3.00 0.00 0.00		0.0000	134.00	No Ice 0.00 1/2" Ice 2.24 1" Ice 2.43 2" Ice 2.83	1.93 2.11 2.29 2.68	0.06 0.09 0.11 0.17
800 MHz 2X50W RRH w/ Filter	C	From Leg	3.00 0.00 0.00		0.0000	134.00	No Ice 0.00 1/2" Ice 2.24 1" Ice 2.43 2" Ice 2.83	1.93 2.11 2.29 2.68	0.06 0.09 0.11 0.17
(2) 4x40W RRH (88 lb)	A	From Leg	3.00 0.00 0.00		0.0000	127.00	No Ice 0.00 1/2" Ice 0.00 1" Ice 0.00 2" Ice 0.00	3.80 4.06 4.34 4.91	0.09 0.12 0.15 0.24
(2) 4x40W RRH (88 lb)	C	From Leg	3.00 0.00 0.00		0.0000	127.00	No Ice 0.00 1/2" Ice 0.00 1" Ice 0.00 2" Ice 0.00	3.80 4.06 4.34 4.91	0.09 0.12 0.15 0.24
(2) 4x40W RRH (88 lb)	B	From Leg	3.00 0.00 0.00		0.0000	127.00	No Ice 0.00 1/2" Ice 0.00 1" Ice 0.00 2" Ice 0.00	3.80 4.06 4.34 4.91	0.09 0.12 0.15 0.24
TD-RRH8x20	A	From Face	3.00 0.00 0.00		0.0000	127.00	No Ice 0.00 1/2" Ice 4.59 1" Ice 4.88 2" Ice 5.48	1.40 1.61 1.82 2.27	0.07 0.09 0.12 0.18
TD-RRH8x20	B	From Face	3.00 0.00 0.00		0.0000	127.00	No Ice 0.00 1/2" Ice 4.59 1" Ice 4.88 2" Ice 5.48	1.40 1.61 1.82 2.27	0.07 0.09 0.12 0.18
TD-RRH8x20	C	From Face	3.00 0.00 0.00		0.0000	127.00	No Ice 0.00 1/2" Ice 4.59 1" Ice 4.88 2" Ice 5.48	1.40 1.61 1.82 2.27	0.07 0.09 0.12 0.18
APXVSP18-C-A20	A	From Leg	3.00 0.00 0.00		0.0000	127.00	No Ice 8.02 1/2" Ice 8.48 1" Ice 8.94	5.28 5.74 6.20	0.06 0.11 0.16

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	Client	VERIZON WIRELESS	Designed by	Garret.Heath

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Vert					
APXVSP18-C-A20	B	From Leg	3.00	0.0000	127.00	2" Ice	9.89	7.14	0.29
						No Ice	8.02	5.28	0.06
						1/2" Ice	8.48	5.74	0.11
						1" Ice	8.94	6.20	0.16
APXV9ERR18-C-A20	C	From Leg	3.00	0.0000	127.00	2" Ice	9.89	7.14	0.29
						No Ice	8.02	5.81	0.06
						1/2" Ice	8.48	6.27	0.11
						1" Ice	8.94	6.73	0.17
DT465B-2XR	A	From Leg	3.00	0.0000	127.00	2" Ice	9.89	7.68	0.31
						No Ice	9.10	5.97	0.06
						1/2" Ice	9.56	6.43	0.12
						1" Ice	10.04	6.90	0.18
DT465B-2XR	B	From Leg	3.00	0.0000	127.00	2" Ice	11.00	7.84	0.33
						No Ice	9.10	5.97	0.06
						1/2" Ice	9.56	6.43	0.12
						1" Ice	10.04	6.90	0.18
DT465B-2XR	C	From Leg	3.00	0.0000	127.00	2" Ice	11.00	7.84	0.33
						No Ice	9.10	5.97	0.06
						1/2" Ice	9.56	6.43	0.12
						1" Ice	10.04	6.90	0.18
Round Platform w/ Handrails	C	None		0.0000	127.00	2" Ice	11.00	7.84	0.33
						No Ice	27.20	27.20	2.00
						1/2" Ice	34.20	34.20	2.40
						1" Ice	41.20	41.20	2.80
***	C	None		0.0000	119.00	2" Ice	55.20	55.20	3.60
						No Ice	27.20	27.20	2.00
						1/2" Ice	34.20	34.20	2.40
						1" Ice	41.20	41.20	2.80
***	C	None		0.0000	119.00	2" Ice	55.20	55.20	3.60
						No Ice	27.20	27.20	2.00
						1/2" Ice	34.20	34.20	2.40
						1" Ice	41.20	41.20	2.80
CBC23SR-43	A	From Leg	3.00	0.0000	152.00	2" Ice	0.66	0.23	0.01
						No Ice	0.00	0.15	0.01
						1/2" Ice	0.00	0.17	0.01
						1" Ice	0.54	0.19	0.01
CBC23SR-43	B	From Leg	3.00	0.0000	152.00	2" Ice	0.66	0.23	0.01
						No Ice	0.00	0.15	0.01
						1/2" Ice	0.00	0.17	0.01
						1" Ice	0.54	0.19	0.01
CBC23SR-43	C	From Leg	3.00	0.0000	152.00	2" Ice	0.66	0.23	0.01
						No Ice	0.00	0.15	0.01
						1/2" Ice	0.00	0.17	0.01
						1" Ice	0.54	0.19	0.01
DC6-48-60-0-8C-EV	A	From Leg	3.00	0.0000	152.00	2" Ice	0.66	0.23	0.01
						No Ice	1.02	1.02	0.02
						1/2" Ice	1.10	1.10	0.02
						1" Ice	1.18	1.18	0.02
ION-M23 SDARS	A	From Leg	3.00	0.0000	152.00	2" Ice	1.34	1.34	0.02
						No Ice	1.84	1.76	0.05
						1/2" Ice	2.02	1.94	0.06
						1" Ice	2.20	2.12	0.07
ION-M23 SDARS	B	From Leg	3.00	0.0000	152.00	2" Ice	2.56	2.48	0.09
						No Ice	1.84	1.76	0.05
						1/2" Ice	2.02	1.94	0.06
						1" Ice	2.20	2.12	0.07
ION-M23 SDARS	C	From Leg	3.00	0.0000	152.00	2" Ice	2.56	2.48	0.09
						No Ice	1.84	1.76	0.05
						1/2" Ice	2.02	1.94	0.06
						1" Ice	2.20	2.12	0.07

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	Project	13673539_C3_02	Date	09:38:22 06/25/21
	Client	VERIZON WIRELESS	Designed by	Garret.Heath

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight	
			Horz	Vert						ft
			ft	ft	°	ft	ft ²	ft ²	K	
			0.00			1" Ice	2.20	2.12	0.07	
						2" Ice	2.56	2.48	0.09	

Outdoor CBRS 20W RRH -Clip-on Antenna	A	From Leg	3.00		0.0000	116.00	No Ice	0.89	0.10	0.00
			0.00				1/2" Ice	0.98	0.11	0.01
			0.00				1" Ice	1.07	0.12	0.01
							2" Ice	1.25	0.14	0.02
Outdoor CBRS 20W RRH -Clip-on Antenna	B	From Leg	3.00		0.0000	116.00	No Ice	0.89	0.10	0.00
			0.00				1/2" Ice	0.98	0.11	0.01
			0.00				1" Ice	1.07	0.12	0.01
							2" Ice	1.25	0.14	0.02
Outdoor CBRS 20W RRH -Clip-on Antenna	C	From Leg	3.00		0.0000	116.00	No Ice	0.89	0.10	0.00
			0.00				1/2" Ice	0.98	0.11	0.01
			0.00				1" Ice	1.07	0.12	0.01
							2" Ice	1.25	0.14	0.02
RT4401-48A	A	From Leg	3.00		0.0000	116.00	No Ice	1.00	0.50	0.02
			0.00				1/2" Ice	1.09	0.55	0.02
			0.00				1" Ice	1.18	0.60	0.03
							2" Ice	1.36	0.70	0.03
RT4401-48A	B	From Leg	3.00		0.0000	116.00	No Ice	1.00	0.50	0.02
			0.00				1/2" Ice	1.09	0.55	0.02
			0.00				1" Ice	1.18	0.60	0.03
							2" Ice	1.36	0.70	0.03
RT4401-48A	C	From Leg	3.00		0.0000	116.00	No Ice	1.00	0.50	0.02
			0.00				1/2" Ice	1.09	0.55	0.02
			0.00				1" Ice	1.18	0.60	0.03
							2" Ice	1.36	0.70	0.03
B5/B13 RRH-BR04C	A	From Leg	3.00		0.0000	116.00	No Ice	1.88	1.01	0.07
			0.00				1/2" Ice	2.00	1.08	0.08
			0.00				1" Ice	2.12	1.15	0.09
							2" Ice	2.36	1.29	0.11
B5/B13 RRH-BR04C	B	From Leg	3.00		0.0000	116.00	No Ice	1.88	1.01	0.07
			0.00				1/2" Ice	2.00	1.08	0.08
			0.00				1" Ice	2.12	1.15	0.09
							2" Ice	2.36	1.29	0.11
B5/B13 RRH-BR04C	C	From Leg	3.00		0.0000	116.00	No Ice	1.88	1.01	0.07
			0.00				1/2" Ice	2.00	1.08	0.08
			0.00				1" Ice	2.12	1.15	0.09
							2" Ice	2.36	1.29	0.11
B2/B66A RRH-BR049	A	From Leg	3.00		0.0000	116.00	No Ice	1.88	1.25	0.08
			0.00				1/2" Ice	2.00	1.34	0.09
			0.00				1" Ice	2.12	1.43	0.10
							2" Ice	2.36	1.61	0.12
B2/B66A RRH-BR049	B	From Leg	3.00		0.0000	116.00	No Ice	1.88	1.25	0.08
			0.00				1/2" Ice	2.00	1.34	0.09
			0.00				1" Ice	2.12	1.43	0.10
							2" Ice	2.36	1.61	0.12
B2/B66A RRH-BR049	C	From Leg	3.00		0.0000	116.00	No Ice	1.88	1.25	0.08
			0.00				1/2" Ice	2.00	1.34	0.09
			0.00				1" Ice	2.12	1.43	0.10
							2" Ice	2.36	1.61	0.12
RRFDC-3315-PF-48 (32lbs)	A	From Leg	3.00		0.0000	116.00	No Ice	2.80	2.49	0.03
			0.00				1/2" Ice	2.97	2.64	0.04
			0.00				1" Ice	3.14	2.79	0.06
							2" Ice	3.48	3.09	0.08
RRFDC-3315-PF-48 (32lbs)	B	From Leg	3.00		0.0000	116.00	No Ice	2.80	2.49	0.03
			0.00				1/2" Ice	2.97	2.64	0.04

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	Client	VERIZON WIRELESS	Designed by	Garret.Heath

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight	
			Horz	Vert						
			ft	ft	°	ft	ft ²	ft ²	K	
			0.00				1" Ice	3.14	2.79	0.06
							2" Ice	3.48	3.09	0.08
MT6407-77A	A	From Leg	3.00	0.0000	116.00		No Ice	4.71	1.05	0.08
			0.00				1/2" Ice	4.93	1.10	0.10
			0.00				1" Ice	5.15	1.15	0.11
							2" Ice	5.59	1.25	0.14
BXA-70080-6CF-EDIN-4	A	From Leg	3.00	0.0000	116.00		No Ice	5.76	2.65	0.02
			0.00				1/2" Ice	6.10	2.80	0.04
			0.00				1" Ice	6.44	2.95	0.05
							2" Ice	7.12	3.25	0.09
BXA-70080-6CF-EDIN-4	B	From Leg	3.00	0.0000	116.00		No Ice	5.76	2.65	0.02
			0.00				1/2" Ice	6.10	2.80	0.04
			0.00				1" Ice	6.44	2.95	0.05
							2" Ice	7.12	3.25	0.09
BXA-70080-6CF-EDIN-4	C	From Leg	3.00	0.0000	116.00		No Ice	5.76	2.65	0.02
			0.00				1/2" Ice	6.10	2.80	0.04
			0.00				1" Ice	6.44	2.95	0.05
							2" Ice	7.12	3.25	0.09
(2) SBNHH-1D65B	A	From Leg	3.00	0.0000	116.00		No Ice	8.17	3.13	0.05
			0.00				1/2" Ice	8.58	3.28	0.08
			0.00				1" Ice	8.99	3.43	0.10
							2" Ice	9.81	3.73	0.15
(2) SBNHH-1D65B	B	From Leg	3.00	0.0000	116.00		No Ice	8.17	3.13	0.05
			0.00				1/2" Ice	8.58	3.28	0.08
			0.00				1" Ice	8.99	3.43	0.10
							2" Ice	9.81	3.73	0.15
(2) SBNHH-1D65B	C	From Leg	3.00	0.0000	116.00		No Ice	8.17	3.13	0.05
			0.00				1/2" Ice	8.58	3.28	0.08
			0.00				1" Ice	8.99	3.43	0.10
							2" Ice	9.81	3.73	0.15

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice

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<i>Comb. No.</i>	<i>Description</i>
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Tower Deflections - Service Wind

<i>Section No.</i>	<i>Elevation ft</i>	<i>Horz. Deflection ft</i>	<i>Gov. Load Comb.</i>	<i>Tilt °</i>	<i>Twist °</i>
L1	151.5 - 141	1.683	40	1.1257	0.0015
L2	141 - 120.33	1.479	40	1.0895	0.0008
L3	120.33 - 111.19	1.105	40	0.9924	0.0005
L4	111.19 - 82.08	0.950	40	0.9465	0.0005
L5	82.08 - 70.06	0.522	40	0.7226	0.0004
L6	70.06 - 42.24	0.380	40	0.6232	0.0003
L7	42.24 - 32.71	0.138	40	0.3690	0.0001
L8	32.71 - 0	0.083	40	0.2875	0.0001

Critical Deflections and Radius of Curvature - Service Wind

<i>Elevation ft</i>	<i>Appurtenance</i>	<i>Gov. Load Comb.</i>	<i>Deflection ft</i>	<i>Tilt °</i>	<i>Twist °</i>	<i>Radius of Curvature ft</i>
152.00	CBC23SR-43	40	1.683	1.1257	0.0015	20026

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Elevation	Appurtenance	Gov. Load	Deflection	Tilt	Twist	Radius of Curvature
ft		Comb.	ft	°	°	ft
151.50	(2) TPX-070821	40	1.683	1.1257	0.0015	20026
142.00	KRY 112 144/2	40	1.498	1.0934	0.0008	11129
134.00	800 MHz 2X50W RRH w/ Filter	40	1.348	1.0592	0.0005	10823
127.00	Round Platform w/ Handrails	40	1.222	1.0253	0.0003	12512
119.00	Round Platform w/ Handrails	40	1.082	0.9860	0.0005	13068
116.00	Outdoor CBRS 20W RRH –Clip-on Antenna	40	1.030	0.9716	0.0005	11402

Maximum Tower Deflections - Design Wind

Section No.	Elevation	Horz. Deflection	Gov. Load	Tilt	Twist
	ft	ft	Comb.	°	°
L1	151.5 - 141	7.334	4	4.9093	0.0068
L2	141 - 120.33	6.446	4	4.7566	0.0036
L3	120.33 - 111.19	4.813	4	4.3313	0.0022
L4	111.19 - 82.08	4.139	4	4.1306	0.0024
L5	82.08 - 70.06	2.272	4	3.1520	0.0017
L6	70.06 - 42.24	1.656	4	2.7178	0.0013
L7	42.24 - 32.71	0.600	4	1.6081	0.0006
L8	32.71 - 0	0.362	4	1.2525	0.0005

Critical Deflections and Radius of Curvature - Design Wind

Elevation	Appurtenance	Gov. Load	Deflection	Tilt	Twist	Radius of Curvature
ft		Comb.	ft	°	°	ft
152.00	CBC23SR-43	4	7.334	4.9093	0.0068	4739
151.50	(2) TPX-070821	4	7.334	4.9093	0.0068	4739
142.00	KRY 112 144/2	4	6.529	4.7732	0.0038	2632
134.00	800 MHz 2X50W RRH w/ Filter	4	5.875	4.6250	0.0023	2543
127.00	Round Platform w/ Handrails	4	5.323	4.4759	0.0016	2908
119.00	Round Platform w/ Handrails	4	4.713	4.3034	0.0023	3025
116.00	Outdoor CBRS 20W RRH –Clip-on Antenna	4	4.490	4.2402	0.0024	2641

Compression Checks

Pole Design Data

Section No.	Elevation	Size	L	L _u	Kl/r	A	P _u	φP _n	Ratio
	ft		ft	ft		in ²	K	K	$\frac{P_u}{\phi P_n}$
L1	151.5 - 141 (1)	TP17.7841x17.1872x0.24	10.50	0.00	0.0	13.5581	-6.01	793.15	0.008
L2	141 - 120.33 (2)	TP31.557x17.7841x0.3059	20.67	0.00	0.0	30.7823	-14.86	1800.76	0.008

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
L3	120.33 - 111.19 (3)	TP33.028x31.557x0.3063	9.14	0.00	0.0	32.2730	-19.84	1887.97	0.011
L4	111.19 - 82.08 (4)	TP38.347x33.028x0.3141	29.11	0.00	0.0	38.4666	-25.34	2250.29	0.011
L5	82.08 - 70.06 (5)	TP39.711x38.347x0.3804	12.02	0.00	0.0	48.1756	-28.30	2818.27	0.010
L6	70.06 - 42.24 (6)	TP43.95x39.711x0.4014	27.82	0.00	0.0	56.2869	-36.01	3292.78	0.011
L7	42.24 - 32.71 (7)	TP45.064x43.95x0.4706	9.53	0.00	0.0	67.5738	-39.19	3953.07	0.010
L8	32.71 - 0 (8)	TP49.552x45.064x0.4906	32.71	0.00	0.0	77.5039	-50.95	4533.98	0.011

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{ux} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M _{uy} kip-ft	φM _{uy} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
L1	151.5 - 141 (1)	TP17.7841x17.1872x0.24	54.489	355.165	0.153	0.000	355.165	0.000
L2	141 - 120.33 (2)	TP31.557x17.7841x0.3059	250.685	1338.433	0.187	0.000	1338.433	0.000
L3	120.33 - 111.19 (3)	TP33.028x31.557x0.3063	399.735	1443.525	0.277	0.000	1443.525	0.000
L4	111.19 - 82.08 (4)	TP38.347x33.028x0.3141	1004.817	1890.267	0.532	0.000	1890.267	0.000
L5	82.08 - 70.06 (5)	TP39.711x38.347x0.3804	1294.050	2624.083	0.493	0.000	2624.083	0.000
L6	70.06 - 42.24 (6)	TP43.95x39.711x0.4014	2031.250	3329.325	0.610	0.000	3329.325	0.000
L7	42.24 - 32.71 (7)	TP45.064x43.95x0.4706	2304.225	4308.633	0.535	0.000	4308.633	0.000
L8	32.71 - 0 (8)	TP49.552x45.064x0.4906	3302.817	5333.258	0.619	0.000	5333.258	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V _u K	φV _n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T _u kip-ft	φT _n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	151.5 - 141 (1)	TP17.7841x17.1872x0.24	7.03	237.94	0.030	0.270	367.203	0.001
L2	141 - 120.33 (2)	TP31.557x17.7841x0.3059	13.64	540.23	0.025	0.481	1485.058	0.000
L3	120.33 - 111.19 (3)	TP33.028x31.557x0.3063	17.94	566.39	0.032	0.109	1630.242	0.000
L4	111.19 - 82.08 (4)	TP38.347x33.028x0.3141	23.28	675.09	0.034	0.784	2258.500	0.000
L5	82.08 - 70.06 (5)	TP39.711x38.347x0.3804	24.86	845.48	0.029	0.783	2925.058	0.000
L6	70.06 - 42.24 (6)	TP43.95x39.711x0.4014	28.16	987.84	0.029	0.782	3784.067	0.000
L7	42.24 - 32.71 (7)	TP45.064x43.95x0.4706	29.15	1185.92	0.025	0.782	4651.850	0.000
L8	32.71 - 0 (8)	TP49.552x45.064x0.4906	31.91	1360.19	0.023	0.781	5870.033	0.000

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Pole Interaction Design Data

Section No.	Elevation ft	Ratio	Ratio	Ratio	Ratio	Ratio	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		P_u	M_{ux}	M_{uy}	V_u	T_u			
L1	151.5 - 141 (1)	0.008	0.153	0.000	0.030	0.001	0.162	1.000	4.8.2 ✓
L2	141 - 120.33 (2)	0.008	0.187	0.000	0.025	0.000	0.196	1.000	4.8.2 ✓
L3	120.33 - 111.19 (3)	0.011	0.277	0.000	0.032	0.000	0.288	1.000	4.8.2 ✓
L4	111.19 - 82.08 (4)	0.011	0.532	0.000	0.034	0.000	0.544	1.000	4.8.2 ✓
L5	82.08 - 70.06 (5)	0.010	0.493	0.000	0.029	0.000	0.504	1.000	4.8.2 ✓
L6	70.06 - 42.24 (6)	0.011	0.610	0.000	0.029	0.000	0.622	1.000	4.8.2 ✓
L7	42.24 - 32.71 (7)	0.010	0.535	0.000	0.025	0.000	0.545	1.000	4.8.2 ✓
L8	32.71 - 0 (8)	0.011	0.619	0.000	0.023	0.000	0.631	1.000	4.8.2 ✓

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	151.5 - 141	Pole	TP17.7841x17.1872x0.24	1	-6.01	793.15	16.2	Pass
L2	141 - 120.33	Pole	TP31.557x17.7841x0.3059	2	-14.86	1800.76	19.6	Pass
L3	120.33 - 111.19	Pole	TP33.028x31.557x0.3063	3	-19.84	1887.97	28.8	Pass
L4	111.19 - 82.08	Pole	TP38.347x33.028x0.3141	4	-25.34	2250.29	54.4	Pass
L5	82.08 - 70.06	Pole	TP39.711x38.347x0.3804	5	-28.30	2818.27	50.4	Pass
L6	70.06 - 42.24	Pole	TP43.95x39.711x0.4014	6	-36.01	3292.78	62.2	Pass
L7	42.24 - 32.71	Pole	TP45.064x43.95x0.4706	7	-39.19	3953.07	54.5	Pass
L8	32.71 - 0	Pole	TP49.552x45.064x0.4906	8	-50.95	4533.98	63.1	Pass
Summary								
Pole (L8)							63.1	Pass
RATING =							63.1	Pass



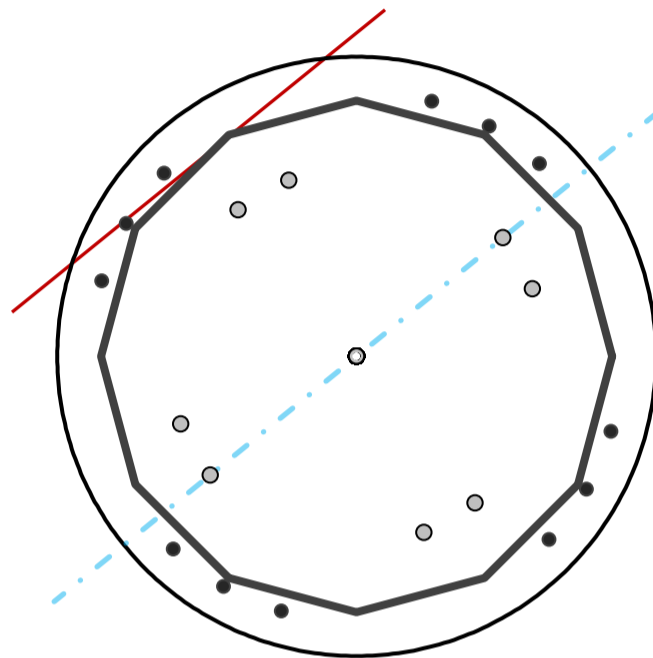
Base Plate & Anchor Rod Analysis

Pole Dimensions		
Number of Sides	12	-
Diameter	51	in
Thickness	3/4	in
Orientation Offset	0	°

Base Reactions		
Moment, Mu	3,303.0	k-ft
Axial, Pu	51.0	k
Shear, Vu	32.0	k
Neutral Axis	39	°

Report Capacities		
Component	Capacity	Result
Base Plate	18%	Pass
Anchor Rods	78%	Pass
Dwyidag	-	-

Base Plate		
Shape	Round	-
Diameter, ϕ	62	in
Thickness	2	in
Grade	A572-60	
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	75	ksi
Clip	N/A	in
Orientation Offset		°
Anchor Rod Detail	c	$\eta=0.55$
Clear Distance	N/A	in
Applied Moment, Mu	276.7	k
Bending Stress, ϕMn	1577.0	k



Original Anchor Rods		
Arrangement	Cluster	-
Quantity	12	-
Diameter, ϕ	1 3/4	in
Bolt Circle	55	in
Grade	Other	
Yield Strength, Fy	128	ksi
Tensile Strength, Fu	150	ksi
Spacing	6.5	in
Orientation Offset	15	°
Applied Force, Pu	152.9	k
Anchor Rods, ϕPn	213.7	k

Additional Anchor Rods		
Quantity	8	-
Diameter, ϕ	2 1/4	in
Bolt Circle	39	in
Grade	A615-75	
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Bypass Base?	No	
Orientation Offset		°
Applied Force, Pu	185.9	k
Additional Rod, 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	32.0	3303.0	1.00
Anchor Rod Forces	28.9	2098.9	0.64
Additional Bolt (Grp1) Forces	3.1	1204.1	0.36
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	117.0509	9.7542	1.8426		36967.22
Bolt	2.4053	1.8995	0.2871	5	8622.24
Bolt1	3.9761	3.2477	0.8393	4.5	4946.45
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	62	in
Thickness, t	2	in
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	75	ksi
Base Plate Chord	35.256	in
Detail Type	c	-
Detail Factor	0.55	-
Clear Distance	N/A	-

Anchor Rods

Anchor Rod Quantity, N	12	-
Rod Diameter, d	1.75	in
Bolt Circle, BC	55	in
Yield Strength, Fy	127.7	ksi
Tensile Strength, Fu	150	ksi
Applied Axial, Pu	152.9	k
Applied Shear, Vu	0.5	k
Compressive Capacity, ϕP_n	213.7	k
Tensile Capacity, ϕR_{nt}	0.716	OK
Interaction Capacity	0.720	OK

External Base Plate

Chord Length AA	25.204	in
Additional AA	4.000	in
Section Modulus, Z	29.204	in ³
Applied Moment, Mu	276.7	k-ft
Bending Capacity, ϕM_n	1577.0	k-ft
Capacity, Mu/ ϕM_n	0.175	OK
Chord Length AB	21.156	in
Additional AB	4.000	in
Section Modulus, Z	25.156	in ³
Applied Moment, Mu	122.8	k-ft
Bending Capacity, ϕM_n	1358.4	k-ft
Capacity, Mu/ ϕM_n	0.090	OK
Bend Line Length	0.000	in
Additional Bend Line	0.000	in
Section Modulus, Z	0.000	in ³
Applied Moment, Mu	#N/A	k-ft
Bending Capacity, ϕM_n	0.0	k-ft
Capacity, Mu/ ϕM_n		

Additional Bolt Group 1

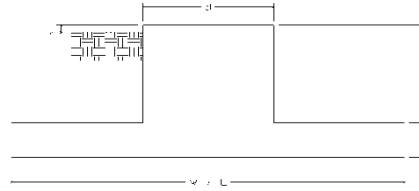
Bolt Quantity, N	8	-
Bolt Diameter, d	2.25	in
Bolt Circle, BC	39	in
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Applied Axial, Pu	185.9	k
Applied Shear, Vu	2.0	k
Compressive Capacity, ϕP_n	243.6	k
Compressive Capacity, ϕP_n	0.763	OK
Interaction Capacity	0.778	OK

Internal Base Plate

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

Site Name: Brln-Berlin
 Site Number: 302483
 Engineering Number: OAA754987
 Engineer: GDH
 Date: 06/25/21
 Tower Type: MP

Program Last Updated: 10/17/2019



Design Loads (Factored) - Analysis per TIA-222-H Standards

Design / Analysis / Mapping:	Mapping	
Compression/Leg:	51	k
Total Shear:	32	k
Moment:	3303	k-ft
Tower + Appurtenance Weight:	52	k
Depth to Base of Foundation (l + t - h):	8	ft
Diameter of Pier (d):	7	ft
Height of Pier above Ground (h):	0.5	ft
Width of Pad (W):	11	ft
Length of Pad (L):	11	ft
Thickness of Pad (t):	2.6	ft
Tower Leg Center to Center:	0	ft
Number of Tower Legs:	1	-
Tower Center from Mat Center:	0	ft
Depth Below Ground Surface to Water Table:	99	ft
Unit Weight of Concrete:	150	pcf
Unit Weight of Soil Above Water Table:	135	pcf
Unit Weight of Water:	62.4	pcf
Unit Weight of Soil Below Water Table:	72.6	pcf
Friction Angle of Uplift:	35	°
Ultimate Coefficient of Shear Friction:	0.35	-
Ultimate Compressive Bearing Pressure:	26000	psf
Ultimate Passive Pressure on Pad Face:	500	psf
Factored Moment Applied to Rock Anchors	3170	k-ft
$\phi_{\text{Soil and Concrete Weight}}$:	0.9	-
ϕ_{Soil} :	0.75	-

Rock Anchor Usage

Rock Anchor Resistance:	3360.0	k
Rock Anchor Tensile Resistance:	0.992	Result: OK

Overturning Moment Usage

Design OTM:	3575.0	k-ft
Weight of Soil and Concrete OTM Resistance:	141.4	k
OTM Resistance from Soil and Concrete:	777.6	k-ft
OTM Resistance from Tower:	238.3	k-ft
OTM Resistance from Soil Failure:	428.1	k-ft
OTM Resistance from Passive Pressure on Pad Face:	16.5	k-ft
OTM Resistance:	4484.5	k-ft
Design OTM / OTM Resistance:	0.797	Result: OK

Soil Bearing Pressure Usage

Total Weight (Foundation, Soil, Tower):	188.7	k
Factored Nominal Bearing Pressure:	19500	psf
Net Bearing Pressure/Factored Nominal Bearing Pressure:	0.17	Result: OK
Load Direction Controlling Design Bearing Pressure:	Diagonal to Pad Edge	

Sliding Factor of Safety

Total Factored Sliding Resistance:	59.1	k
Sliding Design / Sliding Resistance:	0.54	Result: OK



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

New/Replacement Antenna Mount Analysis Report and PMI Requirements

Mount Analysis-R

SMART Tool Project #: 10062491
Maser Consulting Connecticut Project #: 21777888A

July 8, 2021

Site Information

Site ID: 468246-VZW / BERLIN 2 CT
Site Name: BERLIN 2 CT
Carrier Name: Verizon Wireless
Address: 260 Beckley Rd
Berlin, Connecticut 06037
Hartford County
Latitude: 41.631711°
Longitude: -72.729914°

Structure Information

Tower Type: 152-Ft Monopole
Mount Type: 12.50-Ft Platform

FUZE ID # 2552218

Analysis Results

Platform: 42.6% Pass

***Contractor PMI Requirements:

Included at the end of this MA report

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

Contractor - Please Review Specific Site PMI Requirements Upon Award

Requirements also Noted on Mount Modification Drawings

Requirements may also be Noted on A & E drawings

Report Prepared By: Nathan Laporte



Digitally signed by Taqi Khawaja
Date: 2021.07.09 09:34:09-04'00'

Executive Summary:

The objective of this report is to determine the capacity of the proposed antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. The proposed mount was assumed to be installed properly to the existing tower per the manufacturer's instructions. Maser Consulting Connecticut cannot verify that the proposed mount will fit properly and is not liable for any fit-up issues during installation.

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

Sources of Information:

Document Type	Remarks
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS, Site ID: 323437, dated March 16, 2021</i>
<i>Mount Specification</i>	<i>Site Pro 1 Part #: RMQP-496</i>
<i>Support Rail Specification</i>	<i>Site Pro 1 Part #: HRK-12</i>

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: 1.50 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.993
Seismic Parameters:	S_s : 0.200 S_1 : 0.055
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Live Load, L_v : 250 lbs. Maintenance Live Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V17)

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
115.50	116.00	6	Andrew	SBNHH-1D65B	Retained
		3	Amphenol Antel	BXA-70080-6CF-EDIN-4	Added
		3	Samsung	MT6407-77A	
		3	Samsung	XXDWMM-12.5-65-8T-CBRS	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		2	Raycap	RVZDC-6627-PF-48	

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

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

Standard Conditions:

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

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

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontal	16.5 %	Pass
Standoff Horizontal	39.4 %	Pass
Platform Crossmember	19.7 %	Pass
Mount Pipe	34.9 %	Pass
Corner Plate	19.6 %	Pass
Grating Support	17.1 %	Pass
Cross Arm Plate	40.4 %	Pass
Support Rail	24.1 %	Pass
Support Rail Corner	30.5 %	Pass
Mount Connection	42.6 %	Pass

Structure Rating – (Controlling Utilization of all Components)	42.6%
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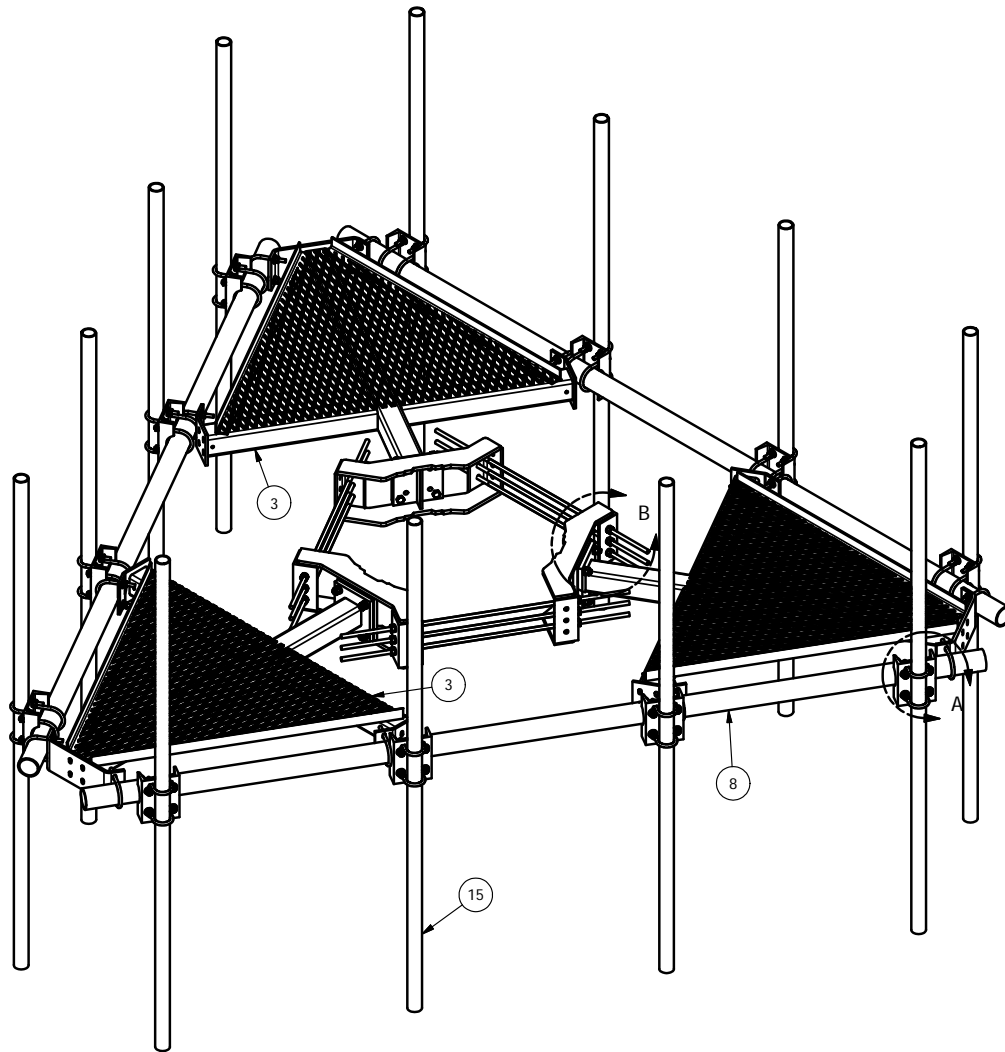
Recommendation:

The proposed antenna mount is **SUFFICIENT** for the final loading configuration and do not require modifications.

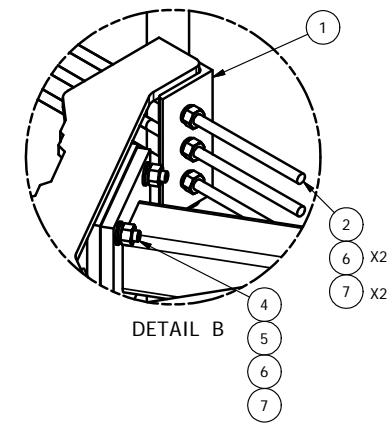
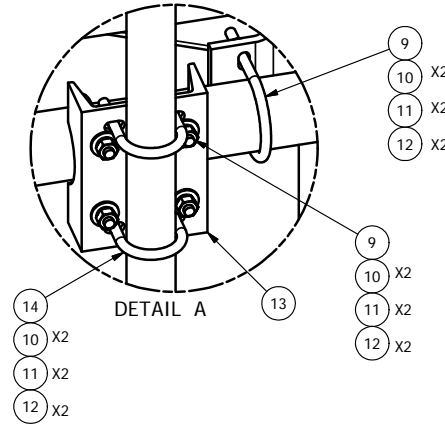
ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

Attachments:

1. Mount Specification
2. Analysis Calculations
- 3. Contractor Required Post Installation Inspection (PMI) Report Deliverables**
4. Antenna Placement Diagrams
5. TIA Adoption and Wind Speed Usage Letter



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-LWRM	RING MOUNT WELDMENT		68.81	206.42
2	9	G58R-48	5/8" x 48" THREADED ROD (HDG.)		0.40	3.59
2	9	G58R-24	5/8" x 24" THREADED ROD (HDG.)		0.40	3.59
3	3	X-SV196	LOW PROFILE PLATFORM CORNER		212.10	636.31
4	12	A58234	5/8" x 2-3/4" HDG A325 HEX BOLT	2.75	0.36	4.27
5	12	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.41
6	30	G58LW	5/8" HDG LOCKWASHER		0.03	0.78
7	30	A58NUT	5/8" HDG A325 HEX NUT		0.13	3.90
8	3	P3150	3-1/2" X 150" SCH 40 GALVANIZED PIPE	150.000 in	94.80	284.40
9	36	X-UB1306	1/2" X 3-5/8" X 6" X 3" U-BOLT (HDG.)		0.26	9.25
10	120	G12FW	1/2" HDG USS FLATWASHER		0.03	4.09
11	120	G12LW	1/2" HDG LOCKWASHER		0.01	1.67
12	120	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	8.60
13	12	X-SP219	SMALL SUPPORT CROSS PLATE	8.250 in	8.61	103.33
14	24	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.26	6.17
15	12	B	ANTENNA MOUNTING PIPE	C	D	E



2-3/8" O.D. VERTICAL MOUNTING PIPES					
ASSEMBLY NO. "A"	PART NO. "B"	LENGTH, "C"	UNIT WEIGHT, "D"	NET WEIGHT, "E"	TOTAL WEIGHT
RMQP-463	P263	63"	20.18	242.16	1591.11
RMQP-472	P272	72"	23.07	276.84	1625.79
RMQP-484	P284	84"	26.91	322.92	1671.87
RMQP-496	P296	96"	30.76	369.12	1718.07
RMQP-4126	P2126	126"	40.75	489.00	1837.95

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	ADDED 10' 6" ANTENNA MOUNTING PIPES	CEK		7/9/2015
REVISION HISTORY				

TOLERANCE NOTE
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES (± 0.030")
DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES
LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE - ALL OTHER MACHINING (± 0.030")
ALL OTHER ASSEMBLY (± 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
 LOW PROFILE CO-LOCATION PLATFORM
 FOR 12 ANTENNAS WITH 12' 6" FACE WIDTH
 FOR 12" - 38" DIAMETER POLES

DRAWN BY
 CEK 1/20/2012

CPD NO.
 semb

DRAWING USAGE
 CUSTOMER

ENG. APPROVAL
 BMC

CHECKED BY
 7/9/2015

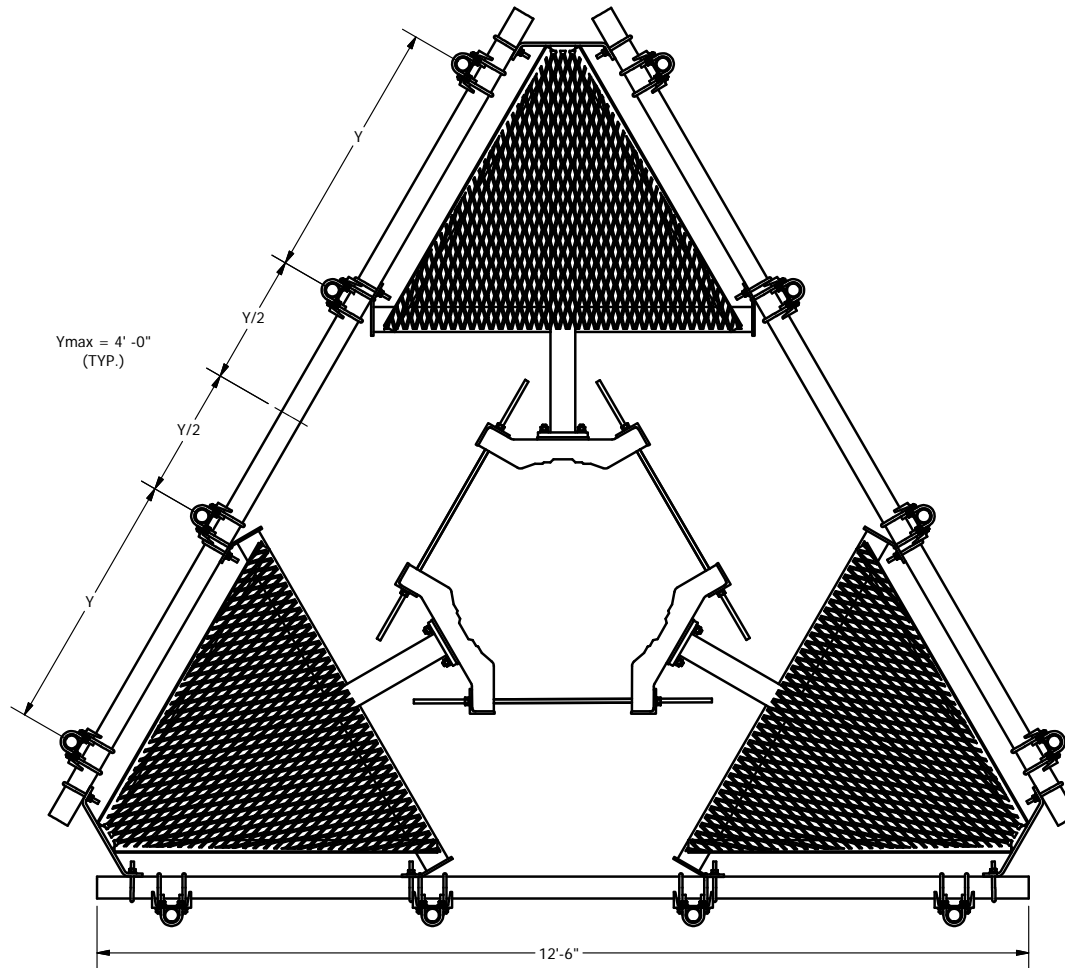
SITE PRO 1
 Engineering Support Team:
 1-888-753-7446

Locations:
 New York, NY
 Atlanta, GA
 Los Angeles, CA
 Plymouth, IN
 Salem, OR
 Dallas, TX

PART NO.
 SEE ASSEMBLY NO. "A"

DWG. NO.
 RMQP-4XX

PAGE 2



TOLERANCE NOTE

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 FOR 12 ANTENNAS WITH 12' 6" FACE WIDTH
 FOR 12" - 38" DIAMETER POLES**



Engineering
 Support Team:
 1-888-753-7446

Locations:
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 Atlanta, GA
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CHECKED BY

BMC

7/9/2015

PART NO.

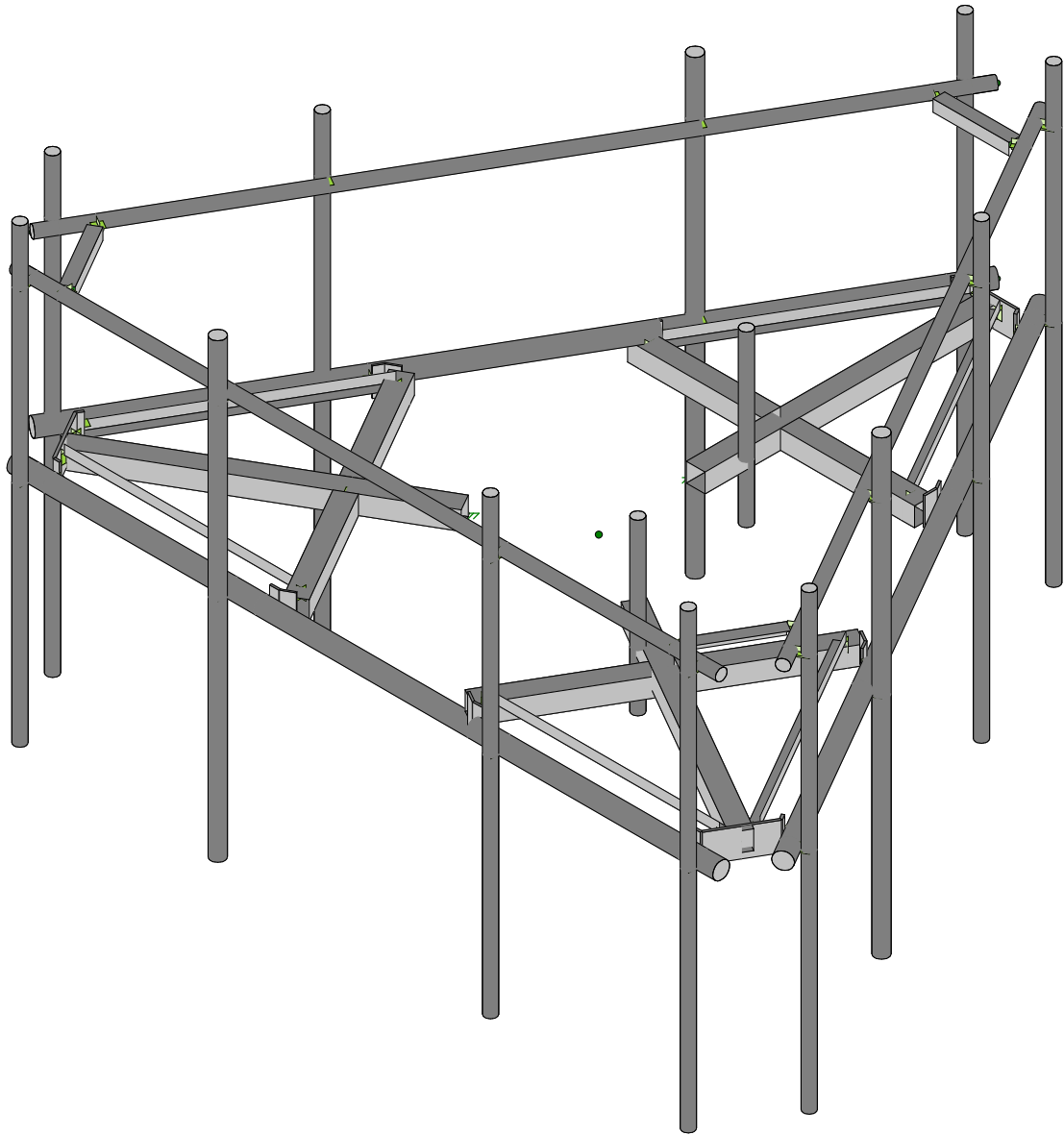
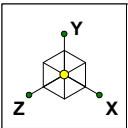
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RMQP-4XX

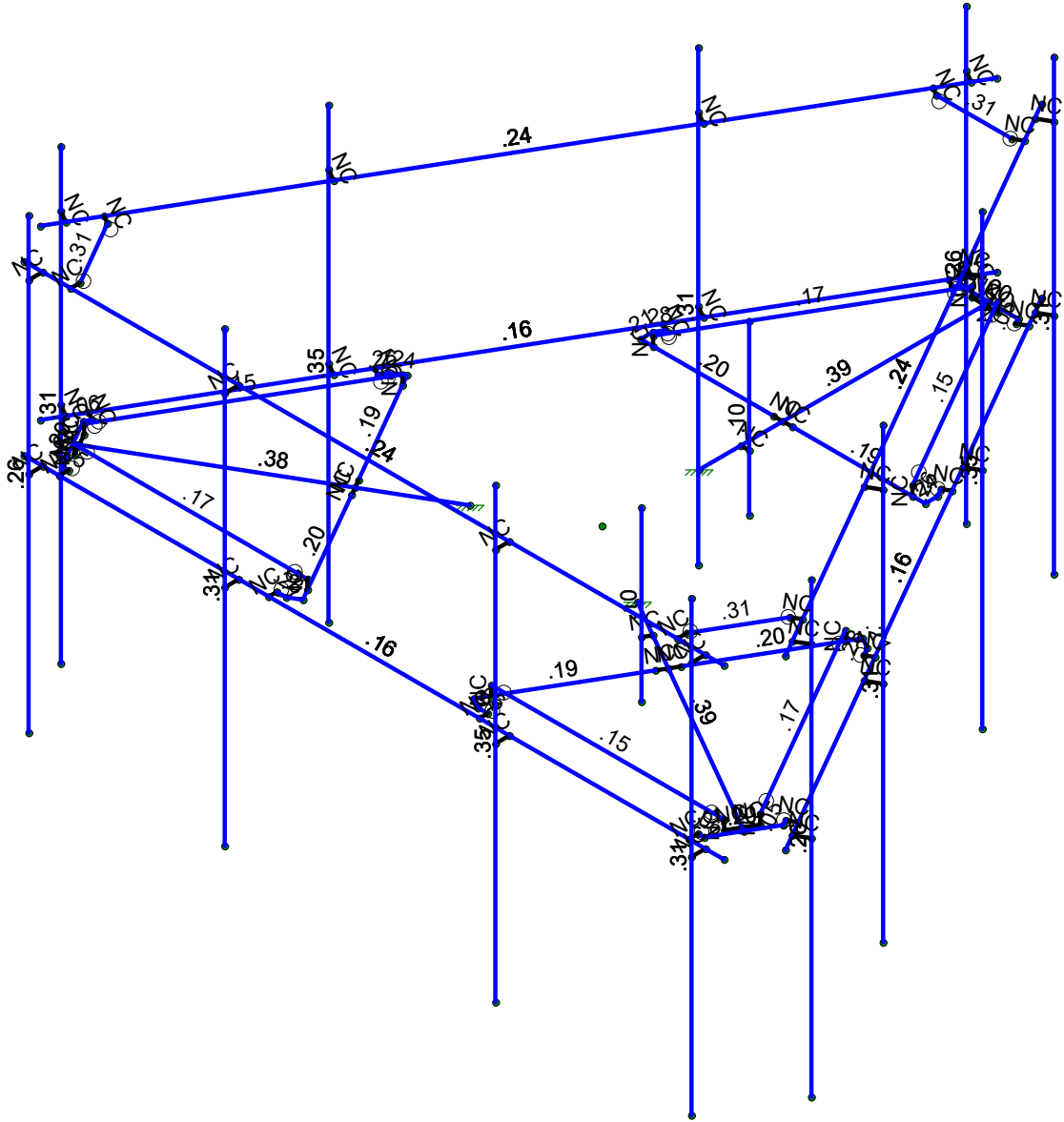
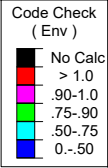
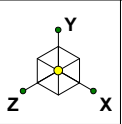
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	ADDED 10' 6" ANTENNA MOUNTING PIPES		CEK	7/9/2015

REVISION HISTORY



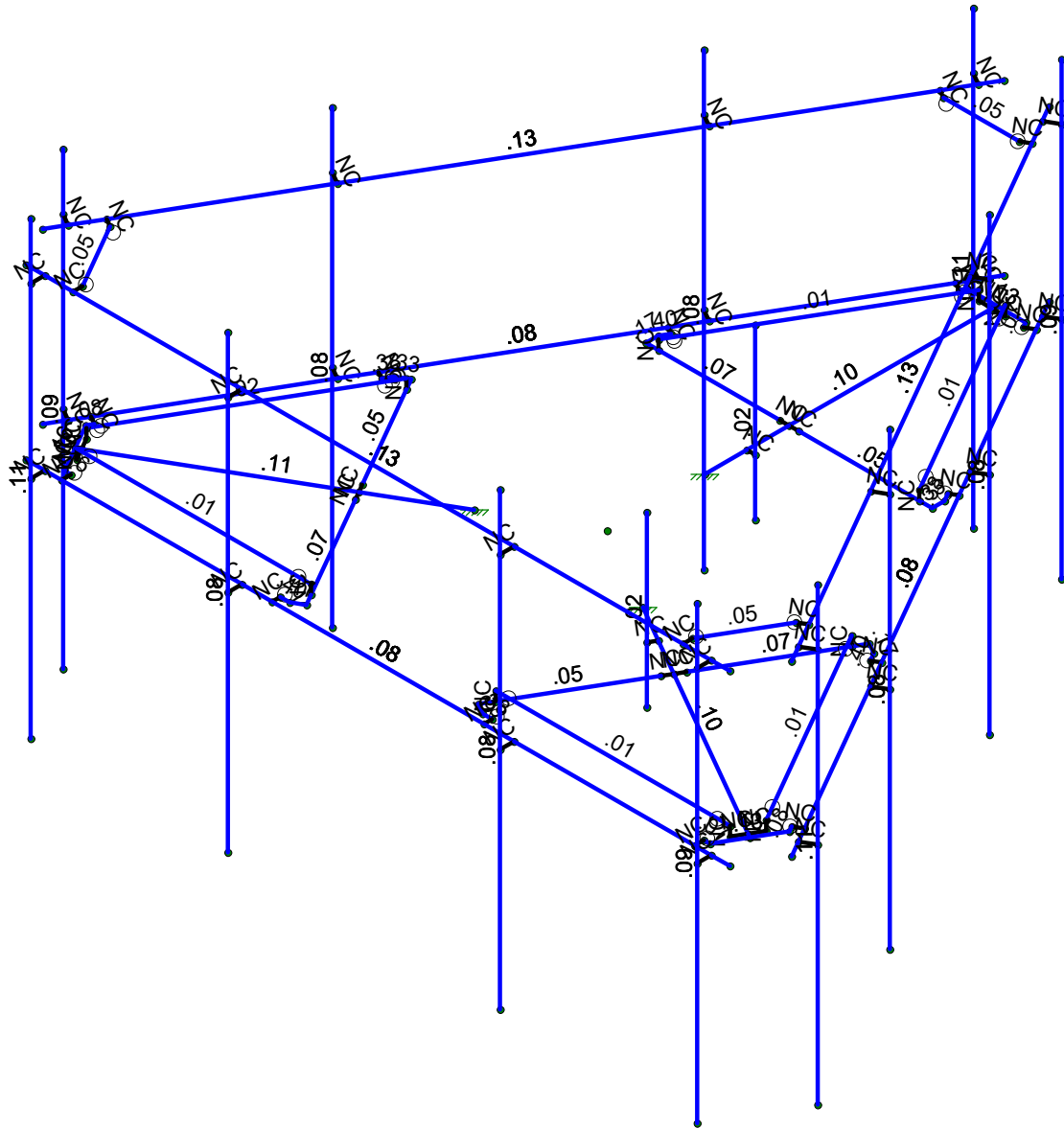
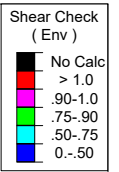
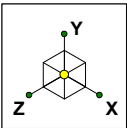
Envelope Only Solution

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Member Code Checks Displayed (Enveloped)
Envelope Only Solution

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Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

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Basic Load Cases

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	DistributedArea(Me... Surface(...
1 Antenna D	None					105	
2 Antenna Di	None					105	
3 Antenna Wo (0 Deg)	None					105	
4 Antenna Wo (30 Deg)	None					105	
5 Antenna Wo (60 Deg)	None					105	
6 Antenna Wo (90 Deg)	None					105	
7 Antenna Wo (120 Deg)	None					105	
8 Antenna Wo (150 Deg)	None					105	
9 Antenna Wo (180 Deg)	None					105	
10 Antenna Wo (210 Deg)	None					105	
11 Antenna Wo (240 Deg)	None					105	
12 Antenna Wo (270 Deg)	None					105	
13 Antenna Wo (300 Deg)	None					105	
14 Antenna Wo (330 Deg)	None					105	
15 Antenna Wi (0 Deg)	None					105	
16 Antenna Wi (30 Deg)	None					105	
17 Antenna Wi (60 Deg)	None					105	
18 Antenna Wi (90 Deg)	None					105	
19 Antenna Wi (120 Deg)	None					105	
20 Antenna Wi (150 Deg)	None					105	
21 Antenna Wi (180 Deg)	None					105	
22 Antenna Wi (210 Deg)	None					105	
23 Antenna Wi (240 Deg)	None					105	
24 Antenna Wi (270 Deg)	None					105	
25 Antenna Wi (300 Deg)	None					105	
26 Antenna Wi (330 Deg)	None					105	
27 Antenna Wm (0 Deg)	None					105	
28 Antenna Wm (30 Deg)	None					105	
29 Antenna Wm (60 Deg)	None					105	
30 Antenna Wm (90 Deg)	None					105	
31 Antenna Wm (120 Deg)	None					105	
32 Antenna Wm (150 Deg)	None					105	
33 Antenna Wm (180 Deg)	None					105	
34 Antenna Wm (210 Deg)	None					105	
35 Antenna Wm (240 Deg)	None					105	
36 Antenna Wm (270 Deg)	None					105	
37 Antenna Wm (300 Deg)	None					105	
38 Antenna Wm (330 Deg)	None					105	
39 Structure D	None		-1				3
40 Structure Di	None						59
41 Structure Wo (0 Deg)	None						118
42 Structure Wo (30 Deg)	None						118
43 Structure Wo (60 Deg)	None						118
44 Structure Wo (90 Deg)	None						118
45 Structure Wo (120 Deg)	None						118
46 Structure Wo (150 Deg)	None						118
47 Structure Wo (180 Deg)	None						118
48 Structure Wo (210 Deg)	None						118
49 Structure Wo (240 Deg)	None						118
50 Structure Wo (270 Deg)	None						118
51 Structure Wo (300 Deg)	None						118
52 Structure Wo (330 Deg)	None						118
53 Structure Wi (0 Deg)	None						118
54 Structure Wi (30 Deg)	None						118
55 Structure Wi (60 Deg)	None						118
56 Structure Wi (90 Deg)	None						118



Basic Load Cases (Continued)

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	DistributedArea(Me...Surface(...
57 Structure Wi (120 Deg)	None						118
58 Structure Wi (150 Deg)	None						118
59 Structure Wi (180 Deg)	None						118
60 Structure Wi (210 Deg)	None						118
61 Structure Wi (240 Deg)	None						118
62 Structure Wi (270 Deg)	None						118
63 Structure Wi (300 Deg)	None						118
64 Structure Wi (330 Deg)	None						118
65 Structure Wm (0 Deg)	None						118
66 Structure Wm (30 Deg)	None						118
67 Structure Wm (60 Deg)	None						118
68 Structure Wm (90 Deg)	None						118
69 Structure Wm (120 Deg)	None						118
70 Structure Wm (150 Deg)	None						118
71 Structure Wm (180 Deg)	None						118
72 Structure Wm (210 Deg)	None						118
73 Structure Wm (240 Deg)	None						118
74 Structure Wm (270 Deg)	None						118
75 Structure Wm (300 Deg)	None						118
76 Structure Wm (330 Deg)	None						118
77 Lm1	None					1	
78 Lm2	None					1	
79 Lv1	None					1	
80 Lv2	None					1	
81 BLC 39 Transient Area ...	None						30
82 BLC 40 Transient Area ...	None						30

Load Combinations

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



Load Combinations (Continued)

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

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	6.25	0	4.07094	0	
2	N2	-6.25	0	4.07094	0	
3	N3	0	0	-1.729167	0	
4	N5	-2.541667	0	-3.229167	0	
5	N6	2.315104	0.166667	-3.229167	0	
6	N7	-2.315104	0.166667	-3.229167	0	
7	N8	5.916667	0	4.07094	0	
8	N9	5.916667	0	4.32094	0	
9	N22	5.916667	-4	4.32094	0	
10	N23	5.916667	4	4.32094	0	
11	N24	0	0	-3.229167	0	
12	N27	0	0	-6.916667	0	
13	CP	0	0	0	0	
14	N29	2.315104	0	-3.229167	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
15	N30	-2.315104	0	-3.229167	0	
16	N101	2.541667	0	-3.229167	0	
17	N102	-0.166667	0	-3.229167	0	
18	N103A	0.166667	0	-3.229167	0	
19	N104A	-2.541667	0	-3.447917	0	
20	N105	2.541667	0	-3.447917	0	
21	N131	2.458333	0	-3.592254	0	
22	N135	0.571615	0	-6.81969	0	
23	N144	-2.458333	0	-3.592254	0	
24	N148	-0.571615	0	-6.81969	0	
25	N86A	2.584629	0	-3.665171	0	
26	N86B	-2.584629	0	-3.665171	0	
27	N86C	-0.515625	0	-6.916667	0	
28	N87A	0.515625	0	-6.916667	0	
29	N86D	0.715429	0	-6.902721	0	
30	N86E	-0.715429	0	-6.902721	0	
31	N88A	0	0	-6.833333	0	
32	N87C	0.234238	0.166667	-6.833333	0	
33	N86G	0.234238	0	-6.833333	0	
34	N87B	-0.234238	0.166667	-6.833333	0	
35	N88C	-0.234238	0	-6.833333	0	
36	N36	2.416667	0	4.07094	0	
37	N37	2.416667	0	4.32094	0	
38	N38	2.416667	-4	4.32094	0	
39	N39	2.416667	4	4.32094	0	
40	N40	-5.916667	0	4.07094	0	
41	N41	-5.916667	0	4.32094	0	
42	N42	-5.916667	-4	4.32094	0	
43	N43	-5.916667	4	4.32094	0	
44	N44	-2.416667	0	4.07094	0	
45	N45	-2.416667	0	4.32094	0	
46	N46	-2.416667	-4	4.32094	0	
47	N47	-2.416667	4	4.32094	0	
48	N48	0.400537	0	-7.448129	0	
49	N49	6.650537	0	3.377189	0	
50	N50	-1.497502	0	0.864583	0	
51	N51	-1.525707	0	3.815731	0	
52	N52	-3.954092	0.166667	-0.390356	0	
53	N53	-1.638988	0.166667	3.619522	0	
54	N54	0.567204	0	-7.159454	0	
55	N55	0.78371	0	-7.284454	0	
56	N56	0.78371	-4	-7.284454	0	
57	N57	0.78371	4	-7.284454	0	
58	N58	-2.79654	0	1.614583	0	
59	N59	-5.990009	0	3.458333	0	
60	N60	-3.954092	0	-0.390356	0	
61	N61	-1.638988	0	3.619522	0	
62	N62	-4.067374	0	-0.586565	0	
63	N63	-2.713207	0	1.758921	0	
64	N64	-2.879874	0	1.470246	0	
65	N65	-1.71515	0	3.925106	0	
66	N66	-4.256817	0	-0.47719	0	
67	N67	-4.34015	0	-0.332852	0	
68	N68	-6.191832	0	2.914812	0	
69	N69	-1.881817	0	3.925106	0	
70	N70	-5.620217	0	3.904878	0	
71	N71	-4.466446	0	-0.405769	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
72	N72	-1.881817	0	4.07094	0	
73	N73	-5.732197	0	3.904878	0	
74	N74	-6.247822	0	3.011789	0	
75	N75	-6.335646	0	2.831781	0	
76	N76	-5.620217	0	4.07094	0	
77	N77	-5.91784	0	3.416667	0	
78	N78	-6.034959	0.166667	3.213811	0	
79	N79	-6.034959	0	3.213811	0	
80	N80	-5.800721	0.166667	3.619522	0	
81	N81	-5.800721	0	3.619522	0	
82	N82	2.317204	0	-4.128365	0	
83	N83	2.53371	0	-4.253365	0	
84	N84	2.53371	-4	-4.253365	0	
85	N85	2.53371	4	-4.253365	0	
86	N86	6.483871	0	3.088514	0	
87	N87	6.700377	0	2.963514	0	
88	N88	6.700377	-4	2.963514	0	
89	N89	6.700377	4	2.963514	0	
90	N90	4.733871	0	0.057425	0	
91	N91	4.950377	0	-0.067575	0	
92	N92	4.950377	-4	-0.067575	0	
93	N93	4.950377	4	-0.067575	0	
94	N94	-6.650537	0	3.377189	0	
95	N95	-0.400537	0	-7.448129	0	
96	N96	1.497502	0	0.864583	0	
97	N97	4.067374	0	-0.586565	0	
98	N98	1.638988	0.166667	3.619522	0	
99	N99	3.954092	0.166667	-0.390356	0	
100	N100	-6.483871	0	3.088514	0	
101	N101A	-6.700377	0	2.963514	0	
102	N102A	-6.700377	-4	2.963514	0	
103	N103	-6.700377	4	2.963514	0	
104	N104	2.79654	0	1.614583	0	
105	N105A	5.990009	0	3.458333	0	
106	N106	1.638988	0	3.619522	0	
107	N107	3.954092	0	-0.390356	0	
108	N108	1.525707	0	3.815731	0	
109	N109	2.879874	0	1.470246	0	
110	N110	2.713207	0	1.758921	0	
111	N111	4.256817	0	-0.47719	0	
112	N112	1.71515	0	3.925106	0	
113	N113	1.881817	0	3.925106	0	
114	N114	5.620217	0	3.904878	0	
115	N115	4.34015	0	-0.332852	0	
116	N116	6.191832	0	2.914812	0	
117	N117	1.881817	0	4.07094	0	
118	N118	4.466446	0	-0.405769	0	
119	N119	6.247822	0	3.011789	0	
120	N120	5.732197	0	3.904878	0	
121	N121	5.620217	0	4.07094	0	
122	N122	6.335646	0	2.831781	0	
123	N123	5.91784	0	3.416667	0	
124	N124	5.800721	0.166667	3.619522	0	
125	N125	5.800721	0	3.619522	0	
126	N126	6.034959	0.166667	3.213811	0	
127	N127	6.034959	0	3.213811	0	
128	N128	-4.733871	0	0.057425	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
129	N129	-4.950377	0	-0.067575	0	
130	N130	-4.950377	-4	-0.067575	0	
131	N131A	-4.950377	4	-0.067575	0	
132	N132	-0.567204	0	-7.159454	0	
133	N133	-0.78371	0	-7.284454	0	
134	N134	-0.78371	-4	-7.284454	0	
135	N135A	-0.78371	4	-7.284454	0	
136	N136	-2.317204	0	-4.128365	0	
137	N137	-2.53371	0	-4.253365	0	
138	N138	-2.53371	-4	-4.253365	0	
139	N139	-2.53371	4	-4.253365	0	
140	N140	6.25	3	4.07094	0	
141	N141	-6.25	3	4.07094	0	
142	N142	5.916667	3	4.07094	0	
143	N143	5.916667	3	4.32094	0	
144	N144A	2.416667	3	4.07094	0	
145	N145	2.416667	3	4.32094	0	
146	N146	-5.916667	3	4.07094	0	
147	N147	-5.916667	3	4.32094	0	
148	N148A	-2.416667	3	4.07094	0	
149	N149	-2.416667	3	4.32094	0	
150	N150	0.400537	3	-7.448129	0	
151	N151	6.650537	3	3.377189	0	
152	N152	0.567204	3	-7.159454	0	
153	N153	0.78371	3	-7.284454	0	
154	N154	2.317204	3	-4.128365	0	
155	N155	2.53371	3	-4.253365	0	
156	N156	6.483871	3	3.088514	0	
157	N157	6.700377	3	2.963514	0	
158	N158	4.733871	3	0.057425	0	
159	N159	4.950377	3	-0.067575	0	
160	N160	-6.650537	3	3.377189	0	
161	N161	-0.400537	3	-7.448129	0	
162	N162	-6.483871	3	3.088514	0	
163	N163	-6.700377	3	2.963514	0	
164	N164	-4.733871	3	0.057425	0	
165	N165	-4.950377	3	-0.067575	0	
166	N166	-0.567204	3	-7.159454	0	
167	N167	-0.78371	3	-7.284454	0	
168	N168	-2.317204	3	-4.128365	0	
169	N169	-2.53371	3	-4.253365	0	
170	N170	-5.416667	3	4.07094	0	
171	N171	-5.416667	3	3.904273	0	
172	N172	5.416667	3	4.07094	0	
173	N173	5.416667	3	3.904273	0	
174	N174	6.233871	3	2.655501	0	
175	N175	6.089533	3	2.738834	0	
176	N176	0.817204	3	-6.726441	0	
177	N177	0.672866	3	-6.643108	0	
178	N178	-0.817204	3	-6.726441	0	
179	N179	-0.672866	3	-6.643108	0	
180	N180	-6.233871	3	2.655501	0	
181	N181	-6.089533	3	2.738834	0	
182	N182	0	0	-2.479167	0	
183	N183	.15	0	-2.479167	0	
184	N184	.15	2	-2.479167	0	
185	N185	.15	-1	-2.479167	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
186	N186	2.147021	0	1.239583	0	
187	N187	2.072021	0	1.369487	0	
188	N188	2.072021	2	1.369487	0	
189	N189	2.072021	-1	1.369487	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2	Standoff Horizontal	HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
3	Corner Plate	PL1/2x6	Beam	BAR	A36 Gr.36	Typical	3	.063	9	.237
4	Platform Crossme...	HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
5	Grating Support	L2x2x3	Beam	Single Angle	A36 Gr.36	Typical	.722	.271	.271	.009
6	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
7	Cross Arm Plate	PL3/8x6	Column	RECT	A36 Gr.36	Typical	2.25	.026	6.75	.101
8	Support Rail	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
9	Support Rail Corner	L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical	1.19	.692	.692	.026
10	Kicker	LL2.5x2.5x3x3	Column	Double Angle (3/8 Gap)	A36 Gr.36	Typical	1.8	2.46	1.07	.023
11	P2.5 Pipe	PIPE 2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3
8	Q235	29000	11154	.3	.65	.49	35	1.5	58	1.2

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N2			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
2	M4	N3	N27			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
3	M10	N101	N103A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
4	M19	N8	N9			RIGID	None	None	RIGID	Typical
5	MP1A	N23	N22			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
6	M43	N102	N5			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
7	M46	N86C	N87A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
8	M35A	N7	N30			RIGID	None	None	RIGID	Typical
9	M36A	N6	N29			RIGID	None	None	RIGID	Typical
10	M51B	N87C	N6			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
11	M52B	N7	N87B			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
12	M52	N87B	N88C			RIGID	None	None	RIGID	Typical
13	M58	N102	N24			RIGID	None	None	RIGID	Typical
14	M59	N24	N103A			RIGID	None	None	RIGID	Typical
15	M76	N101	N105			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
16	M77	N105	N131			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
17	M79	N131	N86A			RIGID	None	None	RIGID	Typical
18	M80	N87A	N135			Corner Plate	Beam	BAR	A36 Gr.36	Typical
19	M83	N135	N86D			RIGID	None	None	RIGID	Typical
20	M84	N5	N104A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical



Member Primary Data (Continued)

Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
21	M85	N104A	N144		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
22	M88	N144	N86B		RIGID	None	None	RIGID	Typical
23	M91	N86C	N148		Corner Plate	Beam	BAR	A36 Gr.36	Typical
24	M92	N148	N86E		RIGID	None	None	RIGID	Typical
25	M50	N88C	N88A		RIGID	None	None	RIGID	Typical
26	M51	N88A	N86G		RIGID	None	None	RIGID	Typical
27	M51A	N87C	N86G		RIGID	None	None	RIGID	Typical
28	M28	N36	N37		RIGID	None	None	RIGID	Typical
29	MP2A	N39	N38		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
30	M30	N40	N41		RIGID	None	None	RIGID	Typical
31	MP4A	N43	N42		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
32	M32	N44	N45		RIGID	None	None	RIGID	Typical
33	MP3A	N47	N46		P2.5 Pipe	Column	Pipe	A53 Gr.B	Typical
34	M34	N48	N49		Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
35	M35	N50	N59		Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
36	M36	N62	N64		Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
37	M37	N54	N55		RIGID	None	None	RIGID	Typical
38	MP1C	N57	N56		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
39	M39	N63	N51		Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
40	M40	N73	N74		Corner Plate	Beam	BAR	A36 Gr.36	Typical
41	M41	N53	N61		RIGID	None	None	RIGID	Typical
42	M42	N52	N60		RIGID	None	None	RIGID	Typical
43	M43A	N78	N52		Grating Support	Beam	Single Angle	A36 Gr.36	Typical
44	M44	N53	N80		Grating Support	Beam	Single Angle	A36 Gr.36	Typical
45	M45	N80	N81		RIGID	None	None	RIGID	Typical
46	M46A	N63	N58		RIGID	None	None	RIGID	Typical
47	M47	N58	N64		RIGID	None	None	RIGID	Typical
48	M48	N62	N66		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
49	M49	N66	N67		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
50	M50A	N67	N71		RIGID	None	None	RIGID	Typical
51	M51C	N74	N68		Corner Plate	Beam	BAR	A36 Gr.36	Typical
52	M52A	N68	N75		RIGID	None	None	RIGID	Typical
53	M53	N51	N65		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
54	M54	N65	N69		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
55	M55	N69	N72		RIGID	None	None	RIGID	Typical
56	M56	N73	N70		Corner Plate	Beam	BAR	A36 Gr.36	Typical
57	M57	N70	N76		RIGID	None	None	RIGID	Typical
58	M58A	N81	N77		RIGID	None	None	RIGID	Typical
59	M59A	N77	N79		RIGID	None	None	RIGID	Typical
60	M60	N78	N79		RIGID	None	None	RIGID	Typical
61	M61	N82	N83		RIGID	None	None	RIGID	Typical
62	MP2C	N85	N84		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
63	M63	N86	N87		RIGID	None	None	RIGID	Typical
64	MP4C	N89	N88		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
65	M65	N90	N91		RIGID	None	None	RIGID	Typical
66	MP3C	N93	N92		P2.5 Pipe	Column	Pipe	A53 Gr.B	Typical
67	M67	N94	N95		Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
68	M68	N96	N105A		Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
69	M69	N108	N110		Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
70	M70	N100	N101A		RIGID	None	None	RIGID	Typical
71	MP1B	N103	N102A		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
72	M72	N109	N97		Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
73	M73	N119	N120		Corner Plate	Beam	BAR	A36 Gr.36	Typical
74	M74	N99	N107		RIGID	None	None	RIGID	Typical
75	M75	N98	N106		RIGID	None	None	RIGID	Typical
76	M76A	N124	N98		Grating Support	Beam	Single Angle	A36 Gr.36	Typical
77	M77A	N99	N126		Grating Support	Beam	Single Angle	A36 Gr.36	Typical



Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
78	M78	N126	N127			RIGID	None	None	RIGID	Typical
79	M79A	N109	N104			RIGID	None	None	RIGID	Typical
80	M80A	N104	N110			RIGID	None	None	RIGID	Typical
81	M81	N108	N112			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
82	M82	N112	N113			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
83	M83A	N113	N117			RIGID	None	None	RIGID	Typical
84	M84A	N120	N114			Corner Plate	Beam	BAR	A36 Gr.36	Typical
85	M85A	N114	N121			RIGID	None	None	RIGID	Typical
86	M86	N97	N111			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
87	M87	N111	N115			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
88	M88A	N115	N118			RIGID	None	None	RIGID	Typical
89	M89	N119	N116			Corner Plate	Beam	BAR	A36 Gr.36	Typical
90	M90	N116	N122			RIGID	None	None	RIGID	Typical
91	M91A	N127	N123			RIGID	None	None	RIGID	Typical
92	M92A	N123	N125			RIGID	None	None	RIGID	Typical
93	M93	N124	N125			RIGID	None	None	RIGID	Typical
94	M94	N128	N129			RIGID	None	None	RIGID	Typical
95	MP2B	N131A	N130			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
96	M96	N132	N133			RIGID	None	None	RIGID	Typical
97	MP4B	N135A	N134			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
98	M98	N136	N137			RIGID	None	None	RIGID	Typical
99	MP3B	N139	N138			P2.5 Pipe	Column	Pipe	A53 Gr.B	Typical
100	M100	N142	N143			RIGID	None	None	RIGID	Typical
101	M101	N144A	N145			RIGID	None	None	RIGID	Typical
102	M102	N146	N147			RIGID	None	None	RIGID	Typical
103	M103	N148A	N149			RIGID	None	None	RIGID	Typical
104	M104	N141	N140			Support Rail	Beam	Pipe	A53 Gr.B	Typical
105	M105	N152	N153			RIGID	None	None	RIGID	Typical
106	M106	N154	N155			RIGID	None	None	RIGID	Typical
107	M107	N156	N157			RIGID	None	None	RIGID	Typical
108	M108	N158	N159			RIGID	None	None	RIGID	Typical
109	M109	N151	N150			Support Rail	Beam	Pipe	A53 Gr.B	Typical
110	M110	N162	N163			RIGID	None	None	RIGID	Typical
111	M111	N164	N165			RIGID	None	None	RIGID	Typical
112	M112	N166	N167			RIGID	None	None	RIGID	Typical
113	M113	N168	N169			RIGID	None	None	RIGID	Typical
114	M114	N161	N160			Support Rail	Beam	Pipe	A53 Gr.B	Typical
115	M115	N170	N171			RIGID	None	None	RIGID	Typical
116	M116	N172	N173			RIGID	None	None	RIGID	Typical
117	M117	N174	N175			RIGID	None	None	RIGID	Typical
118	M118	N176	N177			RIGID	None	None	RIGID	Typical
119	M119	N178	N179			RIGID	None	None	RIGID	Typical
120	M120	N180	N181			RIGID	None	None	RIGID	Typical
121	M121	N171	N181		180	Support Rail C...	Beam	Single Angle	A36 Gr.36	Typical
122	M122	N179	N177		180	Support Rail C...	Beam	Single Angle	A36 Gr.36	Typical
123	M123	N175	N173		180	Support Rail C...	Beam	Single Angle	A36 Gr.36	Typical
124	M124	N182	N183			RIGID	None	None	RIGID	Typical
125	OVP1	N184	N185			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
126	M126	N186	N187			RIGID	None	None	RIGID	Typical
127	OVP2	N188	N189			Mount Pipe	Column	Pipe	A53 Gr.B	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes	Default			None
2	M4						Yes				None



Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
3	M10						Yes	Default			None
4	M19						Yes	** NA **			None
5	MP1A						Yes	** NA **			None
6	M43						Yes	Default			None
7	M46						Yes	Default			None
8	M35A						Yes	** NA **			None
9	M36A						Yes	** NA **			None
10	M51B	OOOOOX	OOOOOX				Yes	Default			None
11	M52B	OOOOOX	OOOOOX				Yes	Default			None
12	M52						Yes	** NA **			None
13	M58						Yes	** NA **			None
14	M59						Yes	** NA **			None
15	M76						Yes	** NA **			None
16	M77						Yes	** NA **			None
17	M79		BenPIN				Yes	** NA **			None
18	M80						Yes				None
19	M83		BenPIN				Yes	** NA **			None
20	M84						Yes	** NA **			None
21	M85						Yes	** NA **			None
22	M88		BenPIN				Yes	** NA **			None
23	M91						Yes				None
24	M92		BenPIN				Yes	** NA **			None
25	M50						Yes	** NA **			None
26	M51						Yes	** NA **			None
27	M51A						Yes	** NA **			None
28	M28						Yes	** NA **			None
29	MP2A						Yes	** NA **			None
30	M30						Yes	** NA **			None
31	MP4A						Yes	** NA **			None
32	M32						Yes	** NA **			None
33	MP3A						Yes	** NA **			None
34	M34						Yes	Default			None
35	M35						Yes				None
36	M36						Yes	Default			None
37	M37						Yes	** NA **			None
38	MP1C						Yes	** NA **			None
39	M39						Yes	Default			None
40	M40						Yes	Default			None
41	M41						Yes	** NA **			None
42	M42						Yes	** NA **			None
43	M43A	OOOOOX	OOOOOX				Yes	Default			None
44	M44	OOOOOX	OOOOOX				Yes	Default			None
45	M45						Yes	** NA **			None
46	M46A						Yes	** NA **			None
47	M47						Yes	** NA **			None
48	M48						Yes	** NA **			None
49	M49						Yes	** NA **			None
50	M50A		BenPIN				Yes	** NA **			None
51	M51C						Yes				None
52	M52A		BenPIN				Yes	** NA **			None
53	M53						Yes	** NA **			None
54	M54						Yes	** NA **			None
55	M55		BenPIN				Yes	** NA **			None
56	M56						Yes				None
57	M57		BenPIN				Yes	** NA **			None
58	M58A						Yes	** NA **			None
59	M59A						Yes	** NA **			None



Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
60	M60						Yes	** NA **			None
61	M61						Yes	** NA **			None
62	MP2C						Yes	** NA **			None
63	M63						Yes	** NA **			None
64	MP4C						Yes	** NA **			None
65	M65						Yes	** NA **			None
66	MP3C						Yes	** NA **			None
67	M67						Yes	Default			None
68	M68						Yes				None
69	M69						Yes	Default			None
70	M70						Yes	** NA **			None
71	MP1B						Yes	** NA **			None
72	M72						Yes	Default			None
73	M73						Yes	Default			None
74	M74						Yes	** NA **			None
75	M75						Yes	** NA **			None
76	M76A	OOOOOX	OOOOOX				Yes	Default			None
77	M77A	OOOOOX	OOOOOX				Yes	Default			None
78	M78						Yes	** NA **			None
79	M79A						Yes	** NA **			None
80	M80A						Yes	** NA **			None
81	M81						Yes	** NA **			None
82	M82						Yes	** NA **			None
83	M83A		BenPIN				Yes	** NA **			None
84	M84A						Yes				None
85	M85A		BenPIN				Yes	** NA **			None
86	M86						Yes	** NA **			None
87	M87						Yes	** NA **			None
88	M88A		BenPIN				Yes	** NA **			None
89	M89						Yes	** NA **			None
90	M90		BenPIN				Yes	** NA **			None
91	M91A						Yes	** NA **			None
92	M92A						Yes	** NA **			None
93	M93						Yes	** NA **			None
94	M94						Yes	** NA **			None
95	MP2B						Yes	** NA **			None
96	M96						Yes	** NA **			None
97	MP4B						Yes	** NA **			None
98	M98						Yes	** NA **			None
99	MP3B						Yes	** NA **			None
100	M100						Yes	** NA **			None
101	M101						Yes	** NA **			None
102	M102						Yes	** NA **			None
103	M103						Yes	** NA **			None
104	M104						Yes				None
105	M105						Yes	** NA **			None
106	M106						Yes	** NA **			None
107	M107						Yes	** NA **			None
108	M108						Yes	** NA **			None
109	M109						Yes	** NA **			None
110	M110						Yes	** NA **			None
111	M111						Yes	** NA **			None
112	M112						Yes	** NA **			None
113	M113						Yes	** NA **			None
114	M114						Yes				None
115	M115	OOOOOX					Yes	** NA **			None
116	M116	OOOOOX					Yes	** NA **			None



Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat..	Analysis ...	Inactive	Seismic...
117	M117	OOOOOX					Yes	** NA **			None
118	M118	OOOOOX					Yes	** NA **			None
119	M119	OOOOOX					Yes	** NA **			None
120	M120	OOOOOX					Yes	** NA **			None
121	M121						Yes				None
122	M122						Yes				None
123	M123						Yes				None
124	M124						Yes	** NA **			None
125	OVP1						Yes	** NA **			None
126	M126						Yes	** NA **			None
127	OVP2						Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	Y	-20	.25
2	MP3A	My	-.01	.25
3	MP3A	Mz	.012	.25
4	MP3A	Y	-20	6
5	MP3A	My	-.01	6
6	MP3A	Mz	.012	6
7	MP3B	Y	-20	.25
8	MP3B	My	-.005	.25
9	MP3B	Mz	-.014	.25
10	MP3B	Y	-20	6
11	MP3B	My	-.005	6
12	MP3B	Mz	-.014	6
13	MP3C	Y	-20	.25
14	MP3C	My	.015	.25
15	MP3C	Mz	.003	.25
16	MP3C	Y	-20	6
17	MP3C	My	.015	6
18	MP3C	Mz	.003	6
19	MP3A	Y	-20	.25
20	MP3A	My	-.01	.25
21	MP3A	Mz	-.012	.25
22	MP3A	Y	-20	6
23	MP3A	My	-.01	6
24	MP3A	Mz	-.012	6
25	MP3B	Y	-20	.25
26	MP3B	My	.015	.25
27	MP3B	Mz	-.003	.25
28	MP3B	Y	-20	6
29	MP3B	My	.015	6
30	MP3B	Mz	-.003	6
31	MP3C	Y	-20	.25
32	MP3C	My	-.005	.25
33	MP3C	Mz	.014	.25
34	MP3C	Y	-20	6
35	MP3C	My	-.005	6
36	MP3C	Mz	.014	6
37	MP1A	Y	-9	.25
38	MP1A	My	-.004	.25
39	MP1A	Mz	0	.25
40	MP1A	Y	-9	6
41	MP1A	My	-.004	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
42	MP1A	Mz	0	6
43	MP1B	Y	-9	.25
44	MP1B	My	.002	.25
45	MP1B	Mz	-.004	.25
46	MP1B	Y	-9	6
47	MP1B	My	.002	6
48	MP1B	Mz	-.004	6
49	MP1C	Y	-9	.25
50	MP1C	My	.002	.25
51	MP1C	Mz	.004	.25
52	MP1C	Y	-9	6
53	MP1C	My	.002	6
54	MP1C	Mz	.004	6
55	MP4A	Y	-43.55	2.13
56	MP4A	My	-.022	2.13
57	MP4A	Mz	0	2.13
58	MP4A	Y	-43.55	4.13
59	MP4A	My	-.022	4.13
60	MP4A	Mz	0	4.13
61	MP4B	Y	-43.55	2.13
62	MP4B	My	.011	2.13
63	MP4B	Mz	-.019	2.13
64	MP4B	Y	-43.55	4.13
65	MP4B	My	.011	4.13
66	MP4B	Mz	-.019	4.13
67	MP4C	Y	-43.55	2.13
68	MP4C	My	.011	2.13
69	MP4C	Mz	.019	2.13
70	MP4C	Y	-43.55	4.13
71	MP4C	My	.011	4.13
72	MP4C	Mz	.019	4.13
73	MP2A	Y	-18.7	3.13
74	MP2A	My	-.009	3.13
75	MP2A	Mz	0	3.13
76	MP2B	Y	-18.7	3.13
77	MP2B	My	.005	3.13
78	MP2B	Mz	-.008	3.13
79	MP2C	Y	-18.7	3.13
80	MP2C	My	.005	3.13
81	MP2C	Mz	.008	3.13
82	MP3A	Y	-84.4	2
83	MP3A	My	.028	2
84	MP3A	Mz	0	2
85	MP3B	Y	-84.4	2
86	MP3B	My	-.014	2
87	MP3B	Mz	.024	2
88	MP3C	Y	-84.4	2
89	MP3C	My	-.014	2
90	MP3C	Mz	-.024	2
91	MP4A	Y	-70.3	2
92	MP4A	My	.023	2
93	MP4A	Mz	0	2
94	MP4B	Y	-70.3	2
95	MP4B	My	-.012	2
96	MP4B	Mz	.02	2
97	MP4C	Y	-70.3	2
98	MP4C	My	-.012	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
99	MP4C	Mz	-.02	2
100	OVP1	Y	-32	1
101	OVP1	My	0	1
102	OVP1	Mz	0	1
103	OVP2	Y	-32	1
104	OVP2	My	0	1
105	OVP2	Mz	0	1

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	Y	-94.424	.25
2	MP3A	My	-.047	.25
3	MP3A	Mz	.055	.25
4	MP3A	Y	-94.424	6
5	MP3A	My	-.047	6
6	MP3A	Mz	.055	6
7	MP3B	Y	-94.424	.25
8	MP3B	My	-.024	.25
9	MP3B	Mz	-.068	.25
10	MP3B	Y	-94.424	6
11	MP3B	My	-.024	6
12	MP3B	Mz	-.068	6
13	MP3C	Y	-94.424	.25
14	MP3C	My	.071	.25
15	MP3C	Mz	.013	.25
16	MP3C	Y	-94.424	6
17	MP3C	My	.071	6
18	MP3C	Mz	.013	6
19	MP3A	Y	-94.424	.25
20	MP3A	My	-.047	.25
21	MP3A	Mz	-.055	.25
22	MP3A	Y	-94.424	6
23	MP3A	My	-.047	6
24	MP3A	Mz	-.055	6
25	MP3B	Y	-94.424	.25
26	MP3B	My	.071	.25
27	MP3B	Mz	-.013	.25
28	MP3B	Y	-94.424	6
29	MP3B	My	.071	6
30	MP3B	Mz	-.013	6
31	MP3C	Y	-94.424	.25
32	MP3C	My	-.024	.25
33	MP3C	Mz	.068	.25
34	MP3C	Y	-94.424	6
35	MP3C	My	-.024	6
36	MP3C	Mz	.068	6
37	MP1A	Y	-69.768	.25
38	MP1A	My	-.035	.25
39	MP1A	Mz	0	.25
40	MP1A	Y	-69.768	6
41	MP1A	My	-.035	6
42	MP1A	Mz	0	6
43	MP1B	Y	-69.768	.25
44	MP1B	My	.017	.25
45	MP1B	Mz	-.03	.25
46	MP1B	Y	-69.768	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
47	MP1B	My	.017	6
48	MP1B	Mz	-.03	6
49	MP1C	Y	-69.768	.25
50	MP1C	My	.017	.25
51	MP1C	Mz	.03	.25
52	MP1C	Y	-69.768	6
53	MP1C	My	.017	6
54	MP1C	Mz	.03	6
55	MP4A	Y	-55.302	2.13
56	MP4A	My	-.028	2.13
57	MP4A	Mz	0	2.13
58	MP4A	Y	-55.302	4.13
59	MP4A	My	-.028	4.13
60	MP4A	Mz	0	4.13
61	MP4B	Y	-55.302	2.13
62	MP4B	My	.014	2.13
63	MP4B	Mz	-.024	2.13
64	MP4B	Y	-55.302	4.13
65	MP4B	My	.014	4.13
66	MP4B	Mz	-.024	4.13
67	MP4C	Y	-55.302	2.13
68	MP4C	My	.014	2.13
69	MP4C	Mz	.024	2.13
70	MP4C	Y	-55.302	4.13
71	MP4C	My	.014	4.13
72	MP4C	Mz	.024	4.13
73	MP2A	Y	-32.094	3.13
74	MP2A	My	-.016	3.13
75	MP2A	Mz	0	3.13
76	MP2B	Y	-32.094	3.13
77	MP2B	My	.008	3.13
78	MP2B	Mz	-.014	3.13
79	MP2C	Y	-32.094	3.13
80	MP2C	My	.008	3.13
81	MP2C	Mz	.014	3.13
82	MP3A	Y	-70.257	2
83	MP3A	My	.023	2
84	MP3A	Mz	0	2
85	MP3B	Y	-70.257	2
86	MP3B	My	-.012	2
87	MP3B	Mz	.02	2
88	MP3C	Y	-70.257	2
89	MP3C	My	-.012	2
90	MP3C	Mz	-.02	2
91	MP4A	Y	-63.42	2
92	MP4A	My	.021	2
93	MP4A	Mz	0	2
94	MP4B	Y	-63.42	2
95	MP4B	My	-.011	2
96	MP4B	Mz	.018	2
97	MP4C	Y	-63.42	2
98	MP4C	My	-.011	2
99	MP4C	Mz	-.018	2
100	OVP1	Y	-135.356	1
101	OVP1	My	0	1
102	OVP1	Mz	0	1
103	OVP2	Y	-135.356	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
104	OVP2	My	0	1
105	OVP2	Mz	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	.25
2	MP3A	Z	-160.922	.25
3	MP3A	Mx	-.094	.25
4	MP3A	X	0	6
5	MP3A	Z	-160.922	6
6	MP3A	Mx	-.094	6
7	MP3B	X	0	.25
8	MP3B	Z	-120.045	.25
9	MP3B	Mx	.087	.25
10	MP3B	X	0	6
11	MP3B	Z	-120.045	6
12	MP3B	Mx	.087	6
13	MP3C	X	0	.25
14	MP3C	Z	-120.045	.25
15	MP3C	Mx	-.017	.25
16	MP3C	X	0	6
17	MP3C	Z	-120.045	6
18	MP3C	Mx	-.017	6
19	MP3A	X	0	.25
20	MP3A	Z	-160.922	.25
21	MP3A	Mx	.094	.25
22	MP3A	X	0	6
23	MP3A	Z	-160.922	6
24	MP3A	Mx	.094	6
25	MP3B	X	0	.25
26	MP3B	Z	-120.045	.25
27	MP3B	Mx	.017	.25
28	MP3B	X	0	6
29	MP3B	Z	-120.045	6
30	MP3B	Mx	.017	6
31	MP3C	X	0	.25
32	MP3C	Z	-120.045	.25
33	MP3C	Mx	-.087	.25
34	MP3C	X	0	6
35	MP3C	Z	-120.045	6
36	MP3C	Mx	-.087	6
37	MP1A	X	0	.25
38	MP1A	Z	-113.592	.25
39	MP1A	Mx	0	.25
40	MP1A	X	0	6
41	MP1A	Z	-113.592	6
42	MP1A	Mx	0	6
43	MP1B	X	0	.25
44	MP1B	Z	-95.855	.25
45	MP1B	Mx	.042	.25
46	MP1B	X	0	6
47	MP1B	Z	-95.855	6
48	MP1B	Mx	.042	6
49	MP1C	X	0	.25
50	MP1C	Z	-95.855	.25
51	MP1C	Mx	-.042	.25



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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]	
52	MP1C	X	0	6
53	MP1C	Z	-95.855	6
54	MP1C	Mx	-.042	6
55	MP4A	X	0	2.13
56	MP4A	Z	-92.688	2.13
57	MP4A	Mx	0	2.13
58	MP4A	X	0	4.13
59	MP4A	Z	-92.688	4.13
60	MP4A	Mx	0	4.13
61	MP4B	X	0	2.13
62	MP4B	Z	-50.387	2.13
63	MP4B	Mx	.022	2.13
64	MP4B	X	0	4.13
65	MP4B	Z	-50.387	4.13
66	MP4B	Mx	.022	4.13
67	MP4C	X	0	2.13
68	MP4C	Z	-50.387	2.13
69	MP4C	Mx	-.022	2.13
70	MP4C	X	0	4.13
71	MP4C	Z	-50.387	4.13
72	MP4C	Mx	-.022	4.13
73	MP2A	X	0	3.13
74	MP2A	Z	-39.442	3.13
75	MP2A	Mx	0	3.13
76	MP2B	X	0	3.13
77	MP2B	Z	-24.683	3.13
78	MP2B	Mx	.011	3.13
79	MP2C	X	0	3.13
80	MP2C	Z	-24.683	3.13
81	MP2C	Mx	-.011	3.13
82	MP3A	X	0	2
83	MP3A	Z	-73.756	2
84	MP3A	Mx	0	2
85	MP3B	X	0	2
86	MP3B	Z	-55.416	2
87	MP3B	Mx	-.016	2
88	MP3C	X	0	2
89	MP3C	Z	-55.416	2
90	MP3C	Mx	.016	2
91	MP4A	X	0	2
92	MP4A	Z	-73.756	2
93	MP4A	Mx	0	2
94	MP4B	X	0	2
95	MP4B	Z	-48.39	2
96	MP4B	Mx	-.014	2
97	MP4C	X	0	2
98	MP4C	Z	-48.39	2
99	MP4C	Mx	.014	2
100	OVP1	X	0	1
101	OVP1	Z	-122.171	1
102	OVP1	Mx	0	1
103	OVP2	X	0	1
104	OVP2	Z	-150.643	1
105	OVP2	Mx	0	1

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

Member Label	Direction	Magnitude[lb.k.ft]	Location[ft.%]
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Member Point Loads (BLC 4 : Antenna Wo (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	73.648	.25
2	MP3A	Z	-127.563	.25
3	MP3A	Mx	-.111	.25
4	MP3A	X	73.648	6
5	MP3A	Z	-127.563	6
6	MP3A	Mx	-.111	6
7	MP3B	X	53.21	.25
8	MP3B	Z	-92.162	.25
9	MP3B	Mx	.053	.25
10	MP3B	X	53.21	6
11	MP3B	Z	-92.162	6
12	MP3B	Mx	.053	6
13	MP3C	X	73.648	.25
14	MP3C	Z	-127.563	.25
15	MP3C	Mx	.038	.25
16	MP3C	X	73.648	6
17	MP3C	Z	-127.563	6
18	MP3C	Mx	.038	6
19	MP3A	X	73.648	.25
20	MP3A	Z	-127.563	.25
21	MP3A	Mx	.038	.25
22	MP3A	X	73.648	6
23	MP3A	Z	-127.563	6
24	MP3A	Mx	.038	6
25	MP3B	X	53.21	.25
26	MP3B	Z	-92.162	.25
27	MP3B	Mx	.053	.25
28	MP3B	X	53.21	6
29	MP3B	Z	-92.162	6
30	MP3B	Mx	.053	6
31	MP3C	X	73.648	.25
32	MP3C	Z	-127.563	.25
33	MP3C	Mx	-.111	.25
34	MP3C	X	73.648	6
35	MP3C	Z	-127.563	6
36	MP3C	Mx	-.111	6
37	MP1A	X	53.84	.25
38	MP1A	Z	-93.253	.25
39	MP1A	Mx	-.027	.25
40	MP1A	X	53.84	6
41	MP1A	Z	-93.253	6
42	MP1A	Mx	-.027	6
43	MP1B	X	44.971	.25
44	MP1B	Z	-77.892	.25
45	MP1B	Mx	.045	.25
46	MP1B	X	44.971	6
47	MP1B	Z	-77.892	6
48	MP1B	Mx	.045	6
49	MP1C	X	53.84	.25
50	MP1C	Z	-93.253	.25
51	MP1C	Mx	-.027	.25
52	MP1C	X	53.84	6
53	MP1C	Z	-93.253	6
54	MP1C	Mx	-.027	6
55	MP4A	X	39.294	2.13
56	MP4A	Z	-68.059	2.13
57	MP4A	Mx	-.02	2.13



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP4A	X	39.294	4.13
59	MP4A	Z	-68.059	4.13
60	MP4A	Mx	-.02	4.13
61	MP4B	X	18.144	2.13
62	MP4B	Z	-31.426	2.13
63	MP4B	Mx	.018	2.13
64	MP4B	X	18.144	4.13
65	MP4B	Z	-31.426	4.13
66	MP4B	Mx	.018	4.13
67	MP4C	X	39.294	2.13
68	MP4C	Z	-68.059	2.13
69	MP4C	Mx	-.02	2.13
70	MP4C	X	39.294	4.13
71	MP4C	Z	-68.059	4.13
72	MP4C	Mx	-.02	4.13
73	MP2A	X	17.261	3.13
74	MP2A	Z	-29.897	3.13
75	MP2A	Mx	-.009	3.13
76	MP2B	X	9.882	3.13
77	MP2B	Z	-17.116	3.13
78	MP2B	Mx	.01	3.13
79	MP2C	X	17.261	3.13
80	MP2C	Z	-29.897	3.13
81	MP2C	Mx	-.009	3.13
82	MP3A	X	33.821	2
83	MP3A	Z	-58.58	2
84	MP3A	Mx	.011	2
85	MP3B	X	24.651	2
86	MP3B	Z	-42.697	2
87	MP3B	Mx	-.016	2
88	MP3C	X	33.821	2
89	MP3C	Z	-58.58	2
90	MP3C	Mx	.011	2
91	MP4A	X	32.65	2
92	MP4A	Z	-56.552	2
93	MP4A	Mx	.011	2
94	MP4B	X	19.967	2
95	MP4B	Z	-34.585	2
96	MP4B	Mx	-.013	2
97	MP4C	X	32.65	2
98	MP4C	Z	-56.552	2
99	MP4C	Mx	.011	2
100	OVP1	X	65.831	1
101	OVP1	Z	-114.022	1
102	OVP1	Mx	0	1
103	OVP2	X	80.067	1
104	OVP2	Z	-138.68	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	103.962	.25
2	MP3A	Z	-60.022	.25
3	MP3A	Mx	-.087	.25
4	MP3A	X	103.962	6
5	MP3A	Z	-60.022	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
6	MP3A	Mx	-.087	6
7	MP3B	X	103.962	.25
8	MP3B	Z	-60.022	.25
9	MP3B	Mx	.017	.25
10	MP3B	X	103.962	6
11	MP3B	Z	-60.022	6
12	MP3B	Mx	.017	6
13	MP3C	X	139.363	.25
14	MP3C	Z	-80.461	.25
15	MP3C	Mx	.094	.25
16	MP3C	X	139.363	6
17	MP3C	Z	-80.461	6
18	MP3C	Mx	.094	6
19	MP3A	X	103.962	.25
20	MP3A	Z	-60.022	.25
21	MP3A	Mx	-.017	.25
22	MP3A	X	103.962	6
23	MP3A	Z	-60.022	6
24	MP3A	Mx	-.017	6
25	MP3B	X	103.962	.25
26	MP3B	Z	-60.022	.25
27	MP3B	Mx	.087	.25
28	MP3B	X	103.962	6
29	MP3B	Z	-60.022	6
30	MP3B	Mx	.087	6
31	MP3C	X	139.363	.25
32	MP3C	Z	-80.461	.25
33	MP3C	Mx	-.094	.25
34	MP3C	X	139.363	6
35	MP3C	Z	-80.461	6
36	MP3C	Mx	-.094	6
37	MP1A	X	83.013	.25
38	MP1A	Z	-47.927	.25
39	MP1A	Mx	-.042	.25
40	MP1A	X	83.013	6
41	MP1A	Z	-47.927	6
42	MP1A	Mx	-.042	6
43	MP1B	X	83.013	.25
44	MP1B	Z	-47.927	.25
45	MP1B	Mx	.042	.25
46	MP1B	X	83.013	6
47	MP1B	Z	-47.927	6
48	MP1B	Mx	.042	6
49	MP1C	X	98.374	.25
50	MP1C	Z	-56.796	.25
51	MP1C	Mx	0	.25
52	MP1C	X	98.374	6
53	MP1C	Z	-56.796	6
54	MP1C	Mx	0	6
55	MP4A	X	43.637	2.13
56	MP4A	Z	-25.194	2.13
57	MP4A	Mx	-.022	2.13
58	MP4A	X	43.637	4.13
59	MP4A	Z	-25.194	4.13
60	MP4A	Mx	-.022	4.13
61	MP4B	X	43.637	2.13
62	MP4B	Z	-25.194	2.13



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
63	MP4B	Mx	.022	2.13
64	MP4B	X	43.637	4.13
65	MP4B	Z	-25.194	4.13
66	MP4B	Mx	.022	4.13
67	MP4C	X	80.27	2.13
68	MP4C	Z	-46.344	2.13
69	MP4C	Mx	0	2.13
70	MP4C	X	80.27	4.13
71	MP4C	Z	-46.344	4.13
72	MP4C	Mx	0	4.13
73	MP2A	X	21.376	3.13
74	MP2A	Z	-12.342	3.13
75	MP2A	Mx	-.011	3.13
76	MP2B	X	21.376	3.13
77	MP2B	Z	-12.342	3.13
78	MP2B	Mx	.011	3.13
79	MP2C	X	34.158	3.13
80	MP2C	Z	-19.721	3.13
81	MP2C	Mx	0	3.13
82	MP3A	X	47.991	2
83	MP3A	Z	-27.708	2
84	MP3A	Mx	.016	2
85	MP3B	X	47.991	2
86	MP3B	Z	-27.708	2
87	MP3B	Mx	-.016	2
88	MP3C	X	63.875	2
89	MP3C	Z	-36.878	2
90	MP3C	Mx	0	2
91	MP4A	X	41.907	2
92	MP4A	Z	-24.195	2
93	MP4A	Mx	.014	2
94	MP4B	X	41.907	2
95	MP4B	Z	-24.195	2
96	MP4B	Mx	-.014	2
97	MP4C	X	63.875	2
98	MP4C	Z	-36.878	2
99	MP4C	Mx	0	2
100	OVP1	X	130.461	1
101	OVP1	Z	-75.321	1
102	OVP1	Mx	0	1
103	OVP2	X	130.461	1
104	OVP2	Z	-75.321	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	106.419	.25
2	MP3A	Z	0	.25
3	MP3A	Mx	-.053	.25
4	MP3A	X	106.419	6
5	MP3A	Z	0	6
6	MP3A	Mx	-.053	6
7	MP3B	X	147.297	.25
8	MP3B	Z	0	.25
9	MP3B	Mx	-.038	.25
10	MP3B	X	147.297	6



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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]	
11	MP3B	Z	0	6
12	MP3B	Mx	-.038	6
13	MP3C	X	147.297	.25
14	MP3C	Z	0	.25
15	MP3C	Mx	.111	.25
16	MP3C	X	147.297	6
17	MP3C	Z	0	6
18	MP3C	Mx	.111	6
19	MP3A	X	106.419	.25
20	MP3A	Z	0	.25
21	MP3A	Mx	-.053	.25
22	MP3A	X	106.419	6
23	MP3A	Z	0	6
24	MP3A	Mx	-.053	6
25	MP3B	X	147.297	.25
26	MP3B	Z	0	.25
27	MP3B	Mx	.111	.25
28	MP3B	X	147.297	6
29	MP3B	Z	0	6
30	MP3B	Mx	.111	6
31	MP3C	X	147.297	.25
32	MP3C	Z	0	.25
33	MP3C	Mx	-.038	.25
34	MP3C	X	147.297	6
35	MP3C	Z	0	6
36	MP3C	Mx	-.038	6
37	MP1A	X	89.942	.25
38	MP1A	Z	0	.25
39	MP1A	Mx	-.045	.25
40	MP1A	X	89.942	6
41	MP1A	Z	0	6
42	MP1A	Mx	-.045	6
43	MP1B	X	107.68	.25
44	MP1B	Z	0	.25
45	MP1B	Mx	.027	.25
46	MP1B	X	107.68	6
47	MP1B	Z	0	6
48	MP1B	Mx	.027	6
49	MP1C	X	107.68	.25
50	MP1C	Z	0	.25
51	MP1C	Mx	.027	.25
52	MP1C	X	107.68	6
53	MP1C	Z	0	6
54	MP1C	Mx	.027	6
55	MP4A	X	36.287	2.13
56	MP4A	Z	0	2.13
57	MP4A	Mx	-.018	2.13
58	MP4A	X	36.287	4.13
59	MP4A	Z	0	4.13
60	MP4A	Mx	-.018	4.13
61	MP4B	X	78.588	2.13
62	MP4B	Z	0	2.13
63	MP4B	Mx	.02	2.13
64	MP4B	X	78.588	4.13
65	MP4B	Z	0	4.13
66	MP4B	Mx	.02	4.13
67	MP4C	X	78.588	2.13



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
68	MP4C	Z	0	2.13
69	MP4C	Mx	.02	2.13
70	MP4C	X	78.588	4.13
71	MP4C	Z	0	4.13
72	MP4C	Mx	.02	4.13
73	MP2A	X	19.764	3.13
74	MP2A	Z	0	3.13
75	MP2A	Mx	-.01	3.13
76	MP2B	X	34.522	3.13
77	MP2B	Z	0	3.13
78	MP2B	Mx	.009	3.13
79	MP2C	X	34.522	3.13
80	MP2C	Z	0	3.13
81	MP2C	Mx	.009	3.13
82	MP3A	X	49.302	2
83	MP3A	Z	0	2
84	MP3A	Mx	.016	2
85	MP3B	X	67.643	2
86	MP3B	Z	0	2
87	MP3B	Mx	-.011	2
88	MP3C	X	67.643	2
89	MP3C	Z	0	2
90	MP3C	Mx	-.011	2
91	MP4A	X	39.935	2
92	MP4A	Z	0	2
93	MP4A	Mx	.013	2
94	MP4B	X	65.301	2
95	MP4B	Z	0	2
96	MP4B	Mx	-.011	2
97	MP4C	X	65.301	2
98	MP4C	Z	0	2
99	MP4C	Mx	-.011	2
100	OVP1	X	160.134	1
101	OVP1	Z	0	1
102	OVP1	Mx	0	1
103	OVP2	X	131.662	1
104	OVP2	Z	0	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	103.962	.25
2	MP3A	Z	60.022	.25
3	MP3A	Mx	-.017	.25
4	MP3A	X	103.962	6
5	MP3A	Z	60.022	6
6	MP3A	Mx	-.017	6
7	MP3B	X	139.363	.25
8	MP3B	Z	80.461	.25
9	MP3B	Mx	-.094	.25
10	MP3B	X	139.363	6
11	MP3B	Z	80.461	6
12	MP3B	Mx	-.094	6
13	MP3C	X	103.962	.25
14	MP3C	Z	60.022	.25
15	MP3C	Mx	.087	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
16	MP3C	X	103.962	6
17	MP3C	Z	60.022	6
18	MP3C	Mx	.087	6
19	MP3A	X	103.962	.25
20	MP3A	Z	60.022	.25
21	MP3A	Mx	-.087	.25
22	MP3A	X	103.962	6
23	MP3A	Z	60.022	6
24	MP3A	Mx	-.087	6
25	MP3B	X	139.363	.25
26	MP3B	Z	80.461	.25
27	MP3B	Mx	.094	.25
28	MP3B	X	139.363	6
29	MP3B	Z	80.461	6
30	MP3B	Mx	.094	6
31	MP3C	X	103.962	.25
32	MP3C	Z	60.022	.25
33	MP3C	Mx	.017	.25
34	MP3C	X	103.962	6
35	MP3C	Z	60.022	6
36	MP3C	Mx	.017	6
37	MP1A	X	83.013	.25
38	MP1A	Z	47.927	.25
39	MP1A	Mx	-.042	.25
40	MP1A	X	83.013	6
41	MP1A	Z	47.927	6
42	MP1A	Mx	-.042	6
43	MP1B	X	98.374	.25
44	MP1B	Z	56.796	.25
45	MP1B	Mx	0	.25
46	MP1B	X	98.374	6
47	MP1B	Z	56.796	6
48	MP1B	Mx	0	6
49	MP1C	X	83.013	.25
50	MP1C	Z	47.927	.25
51	MP1C	Mx	.042	.25
52	MP1C	X	83.013	6
53	MP1C	Z	47.927	6
54	MP1C	Mx	.042	6
55	MP4A	X	43.637	2.13
56	MP4A	Z	25.194	2.13
57	MP4A	Mx	-.022	2.13
58	MP4A	X	43.637	4.13
59	MP4A	Z	25.194	4.13
60	MP4A	Mx	-.022	4.13
61	MP4B	X	80.27	2.13
62	MP4B	Z	46.344	2.13
63	MP4B	Mx	0	2.13
64	MP4B	X	80.27	4.13
65	MP4B	Z	46.344	4.13
66	MP4B	Mx	0	4.13
67	MP4C	X	43.637	2.13
68	MP4C	Z	25.194	2.13
69	MP4C	Mx	.022	2.13
70	MP4C	X	43.637	4.13
71	MP4C	Z	25.194	4.13
72	MP4C	Mx	.022	4.13



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
73	MP2A	X	21.376	3.13
74	MP2A	Z	12.342	3.13
75	MP2A	Mx	-.011	3.13
76	MP2B	X	34.158	3.13
77	MP2B	Z	19.721	3.13
78	MP2B	Mx	0	3.13
79	MP2C	X	21.376	3.13
80	MP2C	Z	12.342	3.13
81	MP2C	Mx	.011	3.13
82	MP3A	X	47.991	2
83	MP3A	Z	27.708	2
84	MP3A	Mx	.016	2
85	MP3B	X	63.875	2
86	MP3B	Z	36.878	2
87	MP3B	Mx	0	2
88	MP3C	X	47.991	2
89	MP3C	Z	27.708	2
90	MP3C	Mx	-.016	2
91	MP4A	X	41.907	2
92	MP4A	Z	24.195	2
93	MP4A	Mx	.014	2
94	MP4B	X	63.875	2
95	MP4B	Z	36.878	2
96	MP4B	Mx	0	2
97	MP4C	X	41.907	2
98	MP4C	Z	24.195	2
99	MP4C	Mx	-.014	2
100	OVP1	X	130.461	1
101	OVP1	Z	75.321	1
102	OVP1	Mx	0	1
103	OVP2	X	105.803	1
104	OVP2	Z	61.085	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	73.648	.25
2	MP3A	Z	127.563	.25
3	MP3A	Mx	.038	.25
4	MP3A	X	73.648	6
5	MP3A	Z	127.563	6
6	MP3A	Mx	.038	6
7	MP3B	X	73.648	.25
8	MP3B	Z	127.563	.25
9	MP3B	Mx	-.111	.25
10	MP3B	X	73.648	6
11	MP3B	Z	127.563	6
12	MP3B	Mx	-.111	6
13	MP3C	X	53.21	.25
14	MP3C	Z	92.162	.25
15	MP3C	Mx	.053	.25
16	MP3C	X	53.21	6
17	MP3C	Z	92.162	6
18	MP3C	Mx	.053	6
19	MP3A	X	73.648	.25
20	MP3A	Z	127.563	.25



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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
21	MP3A	Mx	.25
22	MP3A	X	6
23	MP3A	Z	6
24	MP3A	Mx	6
25	MP3B	X	.25
26	MP3B	Z	.25
27	MP3B	Mx	.25
28	MP3B	X	6
29	MP3B	Z	6
30	MP3B	Mx	6
31	MP3C	X	.25
32	MP3C	Z	.25
33	MP3C	Mx	.25
34	MP3C	X	6
35	MP3C	Z	6
36	MP3C	Mx	6
37	MP1A	X	.25
38	MP1A	Z	.25
39	MP1A	Mx	.25
40	MP1A	X	6
41	MP1A	Z	6
42	MP1A	Mx	6
43	MP1B	X	.25
44	MP1B	Z	.25
45	MP1B	Mx	.25
46	MP1B	X	6
47	MP1B	Z	6
48	MP1B	Mx	6
49	MP1C	X	.25
50	MP1C	Z	.25
51	MP1C	Mx	.25
52	MP1C	X	6
53	MP1C	Z	6
54	MP1C	Mx	6
55	MP4A	X	2.13
56	MP4A	Z	2.13
57	MP4A	Mx	2.13
58	MP4A	X	4.13
59	MP4A	Z	4.13
60	MP4A	Mx	4.13
61	MP4B	X	2.13
62	MP4B	Z	2.13
63	MP4B	Mx	2.13
64	MP4B	X	4.13
65	MP4B	Z	4.13
66	MP4B	Mx	4.13
67	MP4C	X	2.13
68	MP4C	Z	2.13
69	MP4C	Mx	2.13
70	MP4C	X	4.13
71	MP4C	Z	4.13
72	MP4C	Mx	4.13
73	MP2A	X	3.13
74	MP2A	Z	3.13
75	MP2A	Mx	3.13
76	MP2B	X	3.13
77	MP2B	Z	3.13



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
78	MP2B	Mx	-.009	3.13
79	MP2C	X	9.882	3.13
80	MP2C	Z	17.116	3.13
81	MP2C	Mx	.01	3.13
82	MP3A	X	33.821	2
83	MP3A	Z	58.58	2
84	MP3A	Mx	.011	2
85	MP3B	X	33.821	2
86	MP3B	Z	58.58	2
87	MP3B	Mx	.011	2
88	MP3C	X	24.651	2
89	MP3C	Z	42.697	2
90	MP3C	Mx	-.016	2
91	MP4A	X	32.65	2
92	MP4A	Z	56.552	2
93	MP4A	Mx	.011	2
94	MP4B	X	32.65	2
95	MP4B	Z	56.552	2
96	MP4B	Mx	.011	2
97	MP4C	X	19.967	2
98	MP4C	Z	34.585	2
99	MP4C	Mx	-.013	2
100	OVP1	X	65.831	1
101	OVP1	Z	114.022	1
102	OVP1	Mx	0	1
103	OVP2	X	65.831	1
104	OVP2	Z	114.022	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	.25
2	MP3A	Z	160.922	.25
3	MP3A	Mx	.094	.25
4	MP3A	X	0	6
5	MP3A	Z	160.922	6
6	MP3A	Mx	.094	6
7	MP3B	X	0	.25
8	MP3B	Z	120.045	.25
9	MP3B	Mx	-.087	.25
10	MP3B	X	0	6
11	MP3B	Z	120.045	6
12	MP3B	Mx	-.087	6
13	MP3C	X	0	.25
14	MP3C	Z	120.045	.25
15	MP3C	Mx	.017	.25
16	MP3C	X	0	6
17	MP3C	Z	120.045	6
18	MP3C	Mx	.017	6
19	MP3A	X	0	.25
20	MP3A	Z	160.922	.25
21	MP3A	Mx	-.094	.25
22	MP3A	X	0	6
23	MP3A	Z	160.922	6
24	MP3A	Mx	-.094	6
25	MP3B	X	0	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
26	MP3B	Z	120.045	.25
27	MP3B	Mx	-.017	.25
28	MP3B	X	0	6
29	MP3B	Z	120.045	6
30	MP3B	Mx	-.017	6
31	MP3C	X	0	.25
32	MP3C	Z	120.045	.25
33	MP3C	Mx	.087	.25
34	MP3C	X	0	6
35	MP3C	Z	120.045	6
36	MP3C	Mx	.087	6
37	MP1A	X	0	.25
38	MP1A	Z	113.592	.25
39	MP1A	Mx	0	.25
40	MP1A	X	0	6
41	MP1A	Z	113.592	6
42	MP1A	Mx	0	6
43	MP1B	X	0	.25
44	MP1B	Z	95.855	.25
45	MP1B	Mx	-.042	.25
46	MP1B	X	0	6
47	MP1B	Z	95.855	6
48	MP1B	Mx	-.042	6
49	MP1C	X	0	.25
50	MP1C	Z	95.855	.25
51	MP1C	Mx	.042	.25
52	MP1C	X	0	6
53	MP1C	Z	95.855	6
54	MP1C	Mx	.042	6
55	MP4A	X	0	2.13
56	MP4A	Z	92.688	2.13
57	MP4A	Mx	0	2.13
58	MP4A	X	0	4.13
59	MP4A	Z	92.688	4.13
60	MP4A	Mx	0	4.13
61	MP4B	X	0	2.13
62	MP4B	Z	50.387	2.13
63	MP4B	Mx	-.022	2.13
64	MP4B	X	0	4.13
65	MP4B	Z	50.387	4.13
66	MP4B	Mx	-.022	4.13
67	MP4C	X	0	2.13
68	MP4C	Z	50.387	2.13
69	MP4C	Mx	.022	2.13
70	MP4C	X	0	4.13
71	MP4C	Z	50.387	4.13
72	MP4C	Mx	.022	4.13
73	MP2A	X	0	3.13
74	MP2A	Z	39.442	3.13
75	MP2A	Mx	0	3.13
76	MP2B	X	0	3.13
77	MP2B	Z	24.683	3.13
78	MP2B	Mx	-.011	3.13
79	MP2C	X	0	3.13
80	MP2C	Z	24.683	3.13
81	MP2C	Mx	.011	3.13
82	MP3A	X	0	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
83	MP3A	Z	73.756	2
84	MP3A	Mx	0	2
85	MP3B	X	0	2
86	MP3B	Z	55.416	2
87	MP3B	Mx	.016	2
88	MP3C	X	0	2
89	MP3C	Z	55.416	2
90	MP3C	Mx	-.016	2
91	MP4A	X	0	2
92	MP4A	Z	73.756	2
93	MP4A	Mx	0	2
94	MP4B	X	0	2
95	MP4B	Z	48.39	2
96	MP4B	Mx	.014	2
97	MP4C	X	0	2
98	MP4C	Z	48.39	2
99	MP4C	Mx	-.014	2
100	OVP1	X	0	1
101	OVP1	Z	122.171	1
102	OVP1	Mx	0	1
103	OVP2	X	0	1
104	OVP2	Z	150.643	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-73.648	.25
2	MP3A	Z	127.563	.25
3	MP3A	Mx	.111	.25
4	MP3A	X	-73.648	6
5	MP3A	Z	127.563	6
6	MP3A	Mx	.111	6
7	MP3B	X	-53.21	.25
8	MP3B	Z	92.162	.25
9	MP3B	Mx	-.053	.25
10	MP3B	X	-53.21	6
11	MP3B	Z	92.162	6
12	MP3B	Mx	-.053	6
13	MP3C	X	-73.648	.25
14	MP3C	Z	127.563	.25
15	MP3C	Mx	-.038	.25
16	MP3C	X	-73.648	6
17	MP3C	Z	127.563	6
18	MP3C	Mx	-.038	6
19	MP3A	X	-73.648	.25
20	MP3A	Z	127.563	.25
21	MP3A	Mx	-.038	.25
22	MP3A	X	-73.648	6
23	MP3A	Z	127.563	6
24	MP3A	Mx	-.038	6
25	MP3B	X	-53.21	.25
26	MP3B	Z	92.162	.25
27	MP3B	Mx	-.053	.25
28	MP3B	X	-53.21	6
29	MP3B	Z	92.162	6
30	MP3B	Mx	-.053	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
31	MP3C	X	-73.648	.25
32	MP3C	Z	127.563	.25
33	MP3C	Mx	.111	.25
34	MP3C	X	-73.648	6
35	MP3C	Z	127.563	6
36	MP3C	Mx	.111	6
37	MP1A	X	-53.84	.25
38	MP1A	Z	93.253	.25
39	MP1A	Mx	.027	.25
40	MP1A	X	-53.84	6
41	MP1A	Z	93.253	6
42	MP1A	Mx	.027	6
43	MP1B	X	-44.971	.25
44	MP1B	Z	77.892	.25
45	MP1B	Mx	-.045	.25
46	MP1B	X	-44.971	6
47	MP1B	Z	77.892	6
48	MP1B	Mx	-.045	6
49	MP1C	X	-53.84	.25
50	MP1C	Z	93.253	.25
51	MP1C	Mx	.027	.25
52	MP1C	X	-53.84	6
53	MP1C	Z	93.253	6
54	MP1C	Mx	.027	6
55	MP4A	X	-39.294	2.13
56	MP4A	Z	68.059	2.13
57	MP4A	Mx	.02	2.13
58	MP4A	X	-39.294	4.13
59	MP4A	Z	68.059	4.13
60	MP4A	Mx	.02	4.13
61	MP4B	X	-18.144	2.13
62	MP4B	Z	31.426	2.13
63	MP4B	Mx	-.018	2.13
64	MP4B	X	-18.144	4.13
65	MP4B	Z	31.426	4.13
66	MP4B	Mx	-.018	4.13
67	MP4C	X	-39.294	2.13
68	MP4C	Z	68.059	2.13
69	MP4C	Mx	.02	2.13
70	MP4C	X	-39.294	4.13
71	MP4C	Z	68.059	4.13
72	MP4C	Mx	.02	4.13
73	MP2A	X	-17.261	3.13
74	MP2A	Z	29.897	3.13
75	MP2A	Mx	.009	3.13
76	MP2B	X	-9.882	3.13
77	MP2B	Z	17.116	3.13
78	MP2B	Mx	-.01	3.13
79	MP2C	X	-17.261	3.13
80	MP2C	Z	29.897	3.13
81	MP2C	Mx	.009	3.13
82	MP3A	X	-33.821	2
83	MP3A	Z	58.58	2
84	MP3A	Mx	-.011	2
85	MP3B	X	-24.651	2
86	MP3B	Z	42.697	2
87	MP3B	Mx	.016	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
88	MP3C	X	-33.821	2
89	MP3C	Z	58.58	2
90	MP3C	Mx	-.011	2
91	MP4A	X	-32.65	2
92	MP4A	Z	56.552	2
93	MP4A	Mx	-.011	2
94	MP4B	X	-19.967	2
95	MP4B	Z	34.585	2
96	MP4B	Mx	.013	2
97	MP4C	X	-32.65	2
98	MP4C	Z	56.552	2
99	MP4C	Mx	-.011	2
100	OVP1	X	-65.831	1
101	OVP1	Z	114.022	1
102	OVP1	Mx	0	1
103	OVP2	X	-80.067	1
104	OVP2	Z	138.68	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-103.962	.25
2	MP3A	Z	60.022	.25
3	MP3A	Mx	.087	.25
4	MP3A	X	-103.962	6
5	MP3A	Z	60.022	6
6	MP3A	Mx	.087	6
7	MP3B	X	-103.962	.25
8	MP3B	Z	60.022	.25
9	MP3B	Mx	-.017	.25
10	MP3B	X	-103.962	6
11	MP3B	Z	60.022	6
12	MP3B	Mx	-.017	6
13	MP3C	X	-139.363	.25
14	MP3C	Z	80.461	.25
15	MP3C	Mx	-.094	.25
16	MP3C	X	-139.363	6
17	MP3C	Z	80.461	6
18	MP3C	Mx	-.094	6
19	MP3A	X	-103.962	.25
20	MP3A	Z	60.022	.25
21	MP3A	Mx	.017	.25
22	MP3A	X	-103.962	6
23	MP3A	Z	60.022	6
24	MP3A	Mx	.017	6
25	MP3B	X	-103.962	.25
26	MP3B	Z	60.022	.25
27	MP3B	Mx	-.087	.25
28	MP3B	X	-103.962	6
29	MP3B	Z	60.022	6
30	MP3B	Mx	-.087	6
31	MP3C	X	-139.363	.25
32	MP3C	Z	80.461	.25
33	MP3C	Mx	.094	.25
34	MP3C	X	-139.363	6
35	MP3C	Z	80.461	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
36	MP3C	Mx	.094	6
37	MP1A	X	-83.013	.25
38	MP1A	Z	47.927	.25
39	MP1A	Mx	.042	.25
40	MP1A	X	-83.013	6
41	MP1A	Z	47.927	6
42	MP1A	Mx	.042	6
43	MP1B	X	-83.013	.25
44	MP1B	Z	47.927	.25
45	MP1B	Mx	-.042	.25
46	MP1B	X	-83.013	6
47	MP1B	Z	47.927	6
48	MP1B	Mx	-.042	6
49	MP1C	X	-98.374	.25
50	MP1C	Z	56.796	.25
51	MP1C	Mx	0	.25
52	MP1C	X	-98.374	6
53	MP1C	Z	56.796	6
54	MP1C	Mx	0	6
55	MP4A	X	-43.637	2.13
56	MP4A	Z	25.194	2.13
57	MP4A	Mx	.022	2.13
58	MP4A	X	-43.637	4.13
59	MP4A	Z	25.194	4.13
60	MP4A	Mx	.022	4.13
61	MP4B	X	-43.637	2.13
62	MP4B	Z	25.194	2.13
63	MP4B	Mx	-.022	2.13
64	MP4B	X	-43.637	4.13
65	MP4B	Z	25.194	4.13
66	MP4B	Mx	-.022	4.13
67	MP4C	X	-80.27	2.13
68	MP4C	Z	46.344	2.13
69	MP4C	Mx	0	2.13
70	MP4C	X	-80.27	4.13
71	MP4C	Z	46.344	4.13
72	MP4C	Mx	0	4.13
73	MP2A	X	-21.376	3.13
74	MP2A	Z	12.342	3.13
75	MP2A	Mx	.011	3.13
76	MP2B	X	-21.376	3.13
77	MP2B	Z	12.342	3.13
78	MP2B	Mx	-.011	3.13
79	MP2C	X	-34.158	3.13
80	MP2C	Z	19.721	3.13
81	MP2C	Mx	0	3.13
82	MP3A	X	-47.991	2
83	MP3A	Z	27.708	2
84	MP3A	Mx	-.016	2
85	MP3B	X	-47.991	2
86	MP3B	Z	27.708	2
87	MP3B	Mx	.016	2
88	MP3C	X	-63.875	2
89	MP3C	Z	36.878	2
90	MP3C	Mx	0	2
91	MP4A	X	-41.907	2
92	MP4A	Z	24.195	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
93	MP4A	Mx	-.014	2
94	MP4B	X	-41.907	2
95	MP4B	Z	24.195	2
96	MP4B	Mx	.014	2
97	MP4C	X	-63.875	2
98	MP4C	Z	36.878	2
99	MP4C	Mx	0	2
100	OVP1	X	-130.461	1
101	OVP1	Z	75.321	1
102	OVP1	Mx	0	1
103	OVP2	X	-130.461	1
104	OVP2	Z	75.321	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-106.419	.25
2	MP3A	Z	0	.25
3	MP3A	Mx	.053	.25
4	MP3A	X	-106.419	6
5	MP3A	Z	0	6
6	MP3A	Mx	.053	6
7	MP3B	X	-147.297	.25
8	MP3B	Z	0	.25
9	MP3B	Mx	.038	.25
10	MP3B	X	-147.297	6
11	MP3B	Z	0	6
12	MP3B	Mx	.038	6
13	MP3C	X	-147.297	.25
14	MP3C	Z	0	.25
15	MP3C	Mx	-.111	.25
16	MP3C	X	-147.297	6
17	MP3C	Z	0	6
18	MP3C	Mx	-.111	6
19	MP3A	X	-106.419	.25
20	MP3A	Z	0	.25
21	MP3A	Mx	.053	.25
22	MP3A	X	-106.419	6
23	MP3A	Z	0	6
24	MP3A	Mx	.053	6
25	MP3B	X	-147.297	.25
26	MP3B	Z	0	.25
27	MP3B	Mx	-.111	.25
28	MP3B	X	-147.297	6
29	MP3B	Z	0	6
30	MP3B	Mx	-.111	6
31	MP3C	X	-147.297	.25
32	MP3C	Z	0	.25
33	MP3C	Mx	.038	.25
34	MP3C	X	-147.297	6
35	MP3C	Z	0	6
36	MP3C	Mx	.038	6
37	MP1A	X	-89.942	.25
38	MP1A	Z	0	.25
39	MP1A	Mx	.045	.25
40	MP1A	X	-89.942	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
41	MP1A	Z	0	6
42	MP1A	Mx	.045	6
43	MP1B	X	-107.68	.25
44	MP1B	Z	0	.25
45	MP1B	Mx	-.027	.25
46	MP1B	X	-107.68	6
47	MP1B	Z	0	6
48	MP1B	Mx	-.027	6
49	MP1C	X	-107.68	.25
50	MP1C	Z	0	.25
51	MP1C	Mx	-.027	.25
52	MP1C	X	-107.68	6
53	MP1C	Z	0	6
54	MP1C	Mx	-.027	6
55	MP4A	X	-36.287	2.13
56	MP4A	Z	0	2.13
57	MP4A	Mx	.018	2.13
58	MP4A	X	-36.287	4.13
59	MP4A	Z	0	4.13
60	MP4A	Mx	.018	4.13
61	MP4B	X	-78.588	2.13
62	MP4B	Z	0	2.13
63	MP4B	Mx	-.02	2.13
64	MP4B	X	-78.588	4.13
65	MP4B	Z	0	4.13
66	MP4B	Mx	-.02	4.13
67	MP4C	X	-78.588	2.13
68	MP4C	Z	0	2.13
69	MP4C	Mx	-.02	2.13
70	MP4C	X	-78.588	4.13
71	MP4C	Z	0	4.13
72	MP4C	Mx	-.02	4.13
73	MP2A	X	-19.764	3.13
74	MP2A	Z	0	3.13
75	MP2A	Mx	.01	3.13
76	MP2B	X	-34.522	3.13
77	MP2B	Z	0	3.13
78	MP2B	Mx	-.009	3.13
79	MP2C	X	-34.522	3.13
80	MP2C	Z	0	3.13
81	MP2C	Mx	-.009	3.13
82	MP3A	X	-49.302	2
83	MP3A	Z	0	2
84	MP3A	Mx	-.016	2
85	MP3B	X	-67.643	2
86	MP3B	Z	0	2
87	MP3B	Mx	.011	2
88	MP3C	X	-67.643	2
89	MP3C	Z	0	2
90	MP3C	Mx	.011	2
91	MP4A	X	-39.935	2
92	MP4A	Z	0	2
93	MP4A	Mx	-.013	2
94	MP4B	X	-65.301	2
95	MP4B	Z	0	2
96	MP4B	Mx	.011	2
97	MP4C	X	-65.301	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
98	MP4C	Z	0	2
99	MP4C	Mx	.011	2
100	OVP1	X	-160.134	1
101	OVP1	Z	0	1
102	OVP1	Mx	0	1
103	OVP2	X	-131.662	1
104	OVP2	Z	0	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-103.962	.25
2	MP3A	Z	-60.022	.25
3	MP3A	Mx	.017	.25
4	MP3A	X	-103.962	6
5	MP3A	Z	-60.022	6
6	MP3A	Mx	.017	6
7	MP3B	X	-139.363	.25
8	MP3B	Z	-80.461	.25
9	MP3B	Mx	.094	.25
10	MP3B	X	-139.363	6
11	MP3B	Z	-80.461	6
12	MP3B	Mx	.094	6
13	MP3C	X	-103.962	.25
14	MP3C	Z	-60.022	.25
15	MP3C	Mx	-.087	.25
16	MP3C	X	-103.962	6
17	MP3C	Z	-60.022	6
18	MP3C	Mx	-.087	6
19	MP3A	X	-103.962	.25
20	MP3A	Z	-60.022	.25
21	MP3A	Mx	.087	.25
22	MP3A	X	-103.962	6
23	MP3A	Z	-60.022	6
24	MP3A	Mx	.087	6
25	MP3B	X	-139.363	.25
26	MP3B	Z	-80.461	.25
27	MP3B	Mx	-.094	.25
28	MP3B	X	-139.363	6
29	MP3B	Z	-80.461	6
30	MP3B	Mx	-.094	6
31	MP3C	X	-103.962	.25
32	MP3C	Z	-60.022	.25
33	MP3C	Mx	-.017	.25
34	MP3C	X	-103.962	6
35	MP3C	Z	-60.022	6
36	MP3C	Mx	-.017	6
37	MP1A	X	-83.013	.25
38	MP1A	Z	-47.927	.25
39	MP1A	Mx	.042	.25
40	MP1A	X	-83.013	6
41	MP1A	Z	-47.927	6
42	MP1A	Mx	.042	6
43	MP1B	X	-98.374	.25
44	MP1B	Z	-56.796	.25
45	MP1B	Mx	0	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
46	MP1B	X	-98.374	6
47	MP1B	Z	-56.796	6
48	MP1B	Mx	0	6
49	MP1C	X	-83.013	.25
50	MP1C	Z	-47.927	.25
51	MP1C	Mx	-.042	.25
52	MP1C	X	-83.013	6
53	MP1C	Z	-47.927	6
54	MP1C	Mx	-.042	6
55	MP4A	X	-43.637	2.13
56	MP4A	Z	-25.194	2.13
57	MP4A	Mx	.022	2.13
58	MP4A	X	-43.637	4.13
59	MP4A	Z	-25.194	4.13
60	MP4A	Mx	.022	4.13
61	MP4B	X	-80.27	2.13
62	MP4B	Z	-46.344	2.13
63	MP4B	Mx	0	2.13
64	MP4B	X	-80.27	4.13
65	MP4B	Z	-46.344	4.13
66	MP4B	Mx	0	4.13
67	MP4C	X	-43.637	2.13
68	MP4C	Z	-25.194	2.13
69	MP4C	Mx	-.022	2.13
70	MP4C	X	-43.637	4.13
71	MP4C	Z	-25.194	4.13
72	MP4C	Mx	-.022	4.13
73	MP2A	X	-21.376	3.13
74	MP2A	Z	-12.342	3.13
75	MP2A	Mx	.011	3.13
76	MP2B	X	-34.158	3.13
77	MP2B	Z	-19.721	3.13
78	MP2B	Mx	0	3.13
79	MP2C	X	-21.376	3.13
80	MP2C	Z	-12.342	3.13
81	MP2C	Mx	-.011	3.13
82	MP3A	X	-47.991	2
83	MP3A	Z	-27.708	2
84	MP3A	Mx	-.016	2
85	MP3B	X	-63.875	2
86	MP3B	Z	-36.878	2
87	MP3B	Mx	0	2
88	MP3C	X	-47.991	2
89	MP3C	Z	-27.708	2
90	MP3C	Mx	.016	2
91	MP4A	X	-41.907	2
92	MP4A	Z	-24.195	2
93	MP4A	Mx	-.014	2
94	MP4B	X	-63.875	2
95	MP4B	Z	-36.878	2
96	MP4B	Mx	0	2
97	MP4C	X	-41.907	2
98	MP4C	Z	-24.195	2
99	MP4C	Mx	.014	2
100	OVP1	X	-130.461	1
101	OVP1	Z	-75.321	1
102	OVP1	Mx	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
103	OVP2	X	-105.803	1
104	OVP2	Z	-61.085	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-73.648	.25
2	MP3A	Z	-127.563	.25
3	MP3A	Mx	-.038	.25
4	MP3A	X	-73.648	6
5	MP3A	Z	-127.563	6
6	MP3A	Mx	-.038	6
7	MP3B	X	-73.648	.25
8	MP3B	Z	-127.563	.25
9	MP3B	Mx	.111	.25
10	MP3B	X	-73.648	6
11	MP3B	Z	-127.563	6
12	MP3B	Mx	.111	6
13	MP3C	X	-53.21	.25
14	MP3C	Z	-92.162	.25
15	MP3C	Mx	-.053	.25
16	MP3C	X	-53.21	6
17	MP3C	Z	-92.162	6
18	MP3C	Mx	-.053	6
19	MP3A	X	-73.648	.25
20	MP3A	Z	-127.563	.25
21	MP3A	Mx	.111	.25
22	MP3A	X	-73.648	6
23	MP3A	Z	-127.563	6
24	MP3A	Mx	.111	6
25	MP3B	X	-73.648	.25
26	MP3B	Z	-127.563	.25
27	MP3B	Mx	-.038	.25
28	MP3B	X	-73.648	6
29	MP3B	Z	-127.563	6
30	MP3B	Mx	-.038	6
31	MP3C	X	-53.21	.25
32	MP3C	Z	-92.162	.25
33	MP3C	Mx	-.053	.25
34	MP3C	X	-53.21	6
35	MP3C	Z	-92.162	6
36	MP3C	Mx	-.053	6
37	MP1A	X	-53.84	.25
38	MP1A	Z	-93.253	.25
39	MP1A	Mx	.027	.25
40	MP1A	X	-53.84	6
41	MP1A	Z	-93.253	6
42	MP1A	Mx	.027	6
43	MP1B	X	-53.84	.25
44	MP1B	Z	-93.253	.25
45	MP1B	Mx	.027	.25
46	MP1B	X	-53.84	6
47	MP1B	Z	-93.253	6
48	MP1B	Mx	.027	6
49	MP1C	X	-44.971	.25
50	MP1C	Z	-77.892	.25



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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
51	MP1C	Mx	.25
52	MP1C	X	-44.971
53	MP1C	Z	-77.892
54	MP1C	Mx	.045
55	MP4A	X	-39.294
56	MP4A	Z	-68.059
57	MP4A	Mx	.02
58	MP4A	X	-39.294
59	MP4A	Z	-68.059
60	MP4A	Mx	.02
61	MP4B	X	-39.294
62	MP4B	Z	-68.059
63	MP4B	Mx	.02
64	MP4B	X	-39.294
65	MP4B	Z	-68.059
66	MP4B	Mx	.02
67	MP4C	X	-18.144
68	MP4C	Z	-31.426
69	MP4C	Mx	-.018
70	MP4C	X	-18.144
71	MP4C	Z	-31.426
72	MP4C	Mx	-.018
73	MP2A	X	-17.261
74	MP2A	Z	-29.897
75	MP2A	Mx	.009
76	MP2B	X	-17.261
77	MP2B	Z	-29.897
78	MP2B	Mx	.009
79	MP2C	X	-9.882
80	MP2C	Z	-17.116
81	MP2C	Mx	-.01
82	MP3A	X	-33.821
83	MP3A	Z	-58.58
84	MP3A	Mx	-.011
85	MP3B	X	-33.821
86	MP3B	Z	-58.58
87	MP3B	Mx	-.011
88	MP3C	X	-24.651
89	MP3C	Z	-42.697
90	MP3C	Mx	.016
91	MP4A	X	-32.65
92	MP4A	Z	-56.552
93	MP4A	Mx	-.011
94	MP4B	X	-32.65
95	MP4B	Z	-56.552
96	MP4B	Mx	-.011
97	MP4C	X	-19.967
98	MP4C	Z	-34.585
99	MP4C	Mx	.013
100	OVP1	X	-65.831
101	OVP1	Z	-114.022
102	OVP1	Mx	0
103	OVP2	X	-65.831
104	OVP2	Z	-114.022
105	OVP2	Mx	0



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	.25
2	MP3A	Z	-33.367	.25
3	MP3A	Mx	-.019	.25
4	MP3A	X	0	6
5	MP3A	Z	-33.367	6
6	MP3A	Mx	-.019	6
7	MP3B	X	0	.25
8	MP3B	Z	-25.92	.25
9	MP3B	Mx	.019	.25
10	MP3B	X	0	6
11	MP3B	Z	-25.92	6
12	MP3B	Mx	.019	6
13	MP3C	X	0	.25
14	MP3C	Z	-25.92	.25
15	MP3C	Mx	-.004	.25
16	MP3C	X	0	6
17	MP3C	Z	-25.92	6
18	MP3C	Mx	-.004	6
19	MP3A	X	0	.25
20	MP3A	Z	-33.367	.25
21	MP3A	Mx	.019	.25
22	MP3A	X	0	6
23	MP3A	Z	-33.367	6
24	MP3A	Mx	.019	6
25	MP3B	X	0	.25
26	MP3B	Z	-25.92	.25
27	MP3B	Mx	.004	.25
28	MP3B	X	0	6
29	MP3B	Z	-25.92	6
30	MP3B	Mx	.004	6
31	MP3C	X	0	.25
32	MP3C	Z	-25.92	.25
33	MP3C	Mx	-.019	.25
34	MP3C	X	0	6
35	MP3C	Z	-25.92	6
36	MP3C	Mx	-.019	6
37	MP1A	X	0	.25
38	MP1A	Z	-24.696	.25
39	MP1A	Mx	0	.25
40	MP1A	X	0	6
41	MP1A	Z	-24.696	6
42	MP1A	Mx	0	6
43	MP1B	X	0	.25
44	MP1B	Z	-21.386	.25
45	MP1B	Mx	.009	.25
46	MP1B	X	0	6
47	MP1B	Z	-21.386	6
48	MP1B	Mx	.009	6
49	MP1C	X	0	.25
50	MP1C	Z	-21.386	.25
51	MP1C	Mx	-.009	.25
52	MP1C	X	0	6
53	MP1C	Z	-21.386	6
54	MP1C	Mx	-.009	6
55	MP4A	X	0	2.13
56	MP4A	Z	-19.869	2.13
57	MP4A	Mx	0	2.13



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP4A	X	0	4.13
59	MP4A	Z	-19.869	4.13
60	MP4A	Mx	0	4.13
61	MP4B	X	0	2.13
62	MP4B	Z	-11.571	2.13
63	MP4B	Mx	.005	2.13
64	MP4B	X	0	4.13
65	MP4B	Z	-11.571	4.13
66	MP4B	Mx	.005	4.13
67	MP4C	X	0	2.13
68	MP4C	Z	-11.571	2.13
69	MP4C	Mx	-.005	2.13
70	MP4C	X	0	4.13
71	MP4C	Z	-11.571	4.13
72	MP4C	Mx	-.005	4.13
73	MP2A	X	0	3.13
74	MP2A	Z	-10.085	3.13
75	MP2A	Mx	0	3.13
76	MP2B	X	0	3.13
77	MP2B	Z	-6.992	3.13
78	MP2B	Mx	.003	3.13
79	MP2C	X	0	3.13
80	MP2C	Z	-6.992	3.13
81	MP2C	Mx	-.003	3.13
82	MP3A	X	0	2
83	MP3A	Z	-17.186	2
84	MP3A	Mx	0	2
85	MP3B	X	0	2
86	MP3B	Z	-13.428	2
87	MP3B	Mx	-.004	2
88	MP3C	X	0	2
89	MP3C	Z	-13.428	2
90	MP3C	Mx	.004	2
91	MP4A	X	0	2
92	MP4A	Z	-17.186	2
93	MP4A	Mx	0	2
94	MP4B	X	0	2
95	MP4B	Z	-11.999	2
96	MP4B	Mx	-.003	2
97	MP4C	X	0	2
98	MP4C	Z	-11.999	2
99	MP4C	Mx	.003	2
100	OVP1	X	0	1
101	OVP1	Z	-27.259	1
102	OVP1	Mx	0	1
103	OVP2	X	0	1
104	OVP2	Z	-32.693	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	15.442	.25
2	MP3A	Z	-26.747	.25
3	MP3A	Mx	-.023	.25
4	MP3A	X	15.442	6
5	MP3A	Z	-26.747	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
6	MP3A	Mx	-.023	6
7	MP3B	X	11.719	.25
8	MP3B	Z	-20.298	.25
9	MP3B	Mx	.012	.25
10	MP3B	X	11.719	6
11	MP3B	Z	-20.298	6
12	MP3B	Mx	.012	6
13	MP3C	X	15.442	.25
14	MP3C	Z	-26.747	.25
15	MP3C	Mx	.008	.25
16	MP3C	X	15.442	6
17	MP3C	Z	-26.747	6
18	MP3C	Mx	.008	6
19	MP3A	X	15.442	.25
20	MP3A	Z	-26.747	.25
21	MP3A	Mx	.008	.25
22	MP3A	X	15.442	6
23	MP3A	Z	-26.747	6
24	MP3A	Mx	.008	6
25	MP3B	X	11.719	.25
26	MP3B	Z	-20.298	.25
27	MP3B	Mx	.012	.25
28	MP3B	X	11.719	6
29	MP3B	Z	-20.298	6
30	MP3B	Mx	.012	6
31	MP3C	X	15.442	.25
32	MP3C	Z	-26.747	.25
33	MP3C	Mx	-.023	.25
34	MP3C	X	15.442	6
35	MP3C	Z	-26.747	6
36	MP3C	Mx	-.023	6
37	MP1A	X	11.796	.25
38	MP1A	Z	-20.432	.25
39	MP1A	Mx	-.006	.25
40	MP1A	X	11.796	6
41	MP1A	Z	-20.432	6
42	MP1A	Mx	-.006	6
43	MP1B	X	10.141	.25
44	MP1B	Z	-17.565	.25
45	MP1B	Mx	.01	.25
46	MP1B	X	10.141	6
47	MP1B	Z	-17.565	6
48	MP1B	Mx	.01	6
49	MP1C	X	11.796	.25
50	MP1C	Z	-20.432	.25
51	MP1C	Mx	-.006	.25
52	MP1C	X	11.796	6
53	MP1C	Z	-20.432	6
54	MP1C	Mx	-.006	6
55	MP4A	X	8.551	2.13
56	MP4A	Z	-14.811	2.13
57	MP4A	Mx	-.004	2.13
58	MP4A	X	8.551	4.13
59	MP4A	Z	-14.811	4.13
60	MP4A	Mx	-.004	4.13
61	MP4B	X	4.402	2.13
62	MP4B	Z	-7.625	2.13



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
63	MP4B	Mx	.004	2.13
64	MP4B	X	4.402	4.13
65	MP4B	Z	-7.625	4.13
66	MP4B	Mx	.004	4.13
67	MP4C	X	8.551	2.13
68	MP4C	Z	-14.811	2.13
69	MP4C	Mx	-.004	2.13
70	MP4C	X	8.551	4.13
71	MP4C	Z	-14.811	4.13
72	MP4C	Mx	-.004	4.13
73	MP2A	X	4.527	3.13
74	MP2A	Z	-7.841	3.13
75	MP2A	Mx	-.002	3.13
76	MP2B	X	2.98	3.13
77	MP2B	Z	-5.162	3.13
78	MP2B	Mx	.003	3.13
79	MP2C	X	4.527	3.13
80	MP2C	Z	-7.841	3.13
81	MP2C	Mx	-.002	3.13
82	MP3A	X	7.967	2
83	MP3A	Z	-13.799	2
84	MP3A	Mx	.003	2
85	MP3B	X	6.087	2
86	MP3B	Z	-10.544	2
87	MP3B	Mx	-.004	2
88	MP3C	X	7.967	2
89	MP3C	Z	-13.799	2
90	MP3C	Mx	.003	2
91	MP4A	X	7.729	2
92	MP4A	Z	-13.386	2
93	MP4A	Mx	.003	2
94	MP4B	X	5.135	2
95	MP4B	Z	-8.895	2
96	MP4B	Mx	-.003	2
97	MP4C	X	7.729	2
98	MP4C	Z	-13.386	2
99	MP4C	Mx	.003	2
100	OVP1	X	14.535	1
101	OVP1	Z	-25.176	1
102	OVP1	Mx	0	1
103	OVP2	X	17.252	1
104	OVP2	Z	-29.882	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	22.448	.25
2	MP3A	Z	-12.96	.25
3	MP3A	Mx	-.019	.25
4	MP3A	X	22.448	6
5	MP3A	Z	-12.96	6
6	MP3A	Mx	-.019	6
7	MP3B	X	22.448	.25
8	MP3B	Z	-12.96	.25
9	MP3B	Mx	.004	.25
10	MP3B	X	22.448	6



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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]	
11	MP3B	Z	-12.96	6
12	MP3B	Mx	.004	6
13	MP3C	X	28.897	.25
14	MP3C	Z	-16.684	.25
15	MP3C	Mx	.019	.25
16	MP3C	X	28.897	6
17	MP3C	Z	-16.684	6
18	MP3C	Mx	.019	6
19	MP3A	X	22.448	.25
20	MP3A	Z	-12.96	.25
21	MP3A	Mx	-.004	.25
22	MP3A	X	22.448	6
23	MP3A	Z	-12.96	6
24	MP3A	Mx	-.004	6
25	MP3B	X	22.448	.25
26	MP3B	Z	-12.96	.25
27	MP3B	Mx	.019	.25
28	MP3B	X	22.448	6
29	MP3B	Z	-12.96	6
30	MP3B	Mx	.019	6
31	MP3C	X	28.897	.25
32	MP3C	Z	-16.684	.25
33	MP3C	Mx	-.019	.25
34	MP3C	X	28.897	6
35	MP3C	Z	-16.684	6
36	MP3C	Mx	-.019	6
37	MP1A	X	18.521	.25
38	MP1A	Z	-10.693	.25
39	MP1A	Mx	-.009	.25
40	MP1A	X	18.521	6
41	MP1A	Z	-10.693	6
42	MP1A	Mx	-.009	6
43	MP1B	X	18.521	.25
44	MP1B	Z	-10.693	.25
45	MP1B	Mx	.009	.25
46	MP1B	X	18.521	6
47	MP1B	Z	-10.693	6
48	MP1B	Mx	.009	6
49	MP1C	X	21.388	.25
50	MP1C	Z	-12.348	.25
51	MP1C	Mx	0	.25
52	MP1C	X	21.388	6
53	MP1C	Z	-12.348	6
54	MP1C	Mx	0	6
55	MP4A	X	10.021	2.13
56	MP4A	Z	-5.785	2.13
57	MP4A	Mx	-.005	2.13
58	MP4A	X	10.021	4.13
59	MP4A	Z	-5.785	4.13
60	MP4A	Mx	-.005	4.13
61	MP4B	X	10.021	2.13
62	MP4B	Z	-5.785	2.13
63	MP4B	Mx	.005	2.13
64	MP4B	X	10.021	4.13
65	MP4B	Z	-5.785	4.13
66	MP4B	Mx	.005	4.13
67	MP4C	X	17.207	2.13



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
68	MP4C	Z	-9.934	2.13
69	MP4C	Mx	0	2.13
70	MP4C	X	17.207	4.13
71	MP4C	Z	-9.934	4.13
72	MP4C	Mx	0	4.13
73	MP2A	X	6.055	3.13
74	MP2A	Z	-3.496	3.13
75	MP2A	Mx	-.003	3.13
76	MP2B	X	6.055	3.13
77	MP2B	Z	-3.496	3.13
78	MP2B	Mx	.003	3.13
79	MP2C	X	8.734	3.13
80	MP2C	Z	-5.042	3.13
81	MP2C	Mx	0	3.13
82	MP3A	X	11.629	2
83	MP3A	Z	-6.714	2
84	MP3A	Mx	.004	2
85	MP3B	X	11.629	2
86	MP3B	Z	-6.714	2
87	MP3B	Mx	-.004	2
88	MP3C	X	14.883	2
89	MP3C	Z	-8.593	2
90	MP3C	Mx	0	2
91	MP4A	X	10.392	2
92	MP4A	Z	-6	2
93	MP4A	Mx	.003	2
94	MP4B	X	10.392	2
95	MP4B	Z	-6	2
96	MP4B	Mx	-.003	2
97	MP4C	X	14.883	2
98	MP4C	Z	-8.593	2
99	MP4C	Mx	0	2
100	OVP1	X	28.313	1
101	OVP1	Z	-16.347	1
102	OVP1	Mx	0	1
103	OVP2	X	28.313	1
104	OVP2	Z	-16.347	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	23.438	.25
2	MP3A	Z	0	.25
3	MP3A	Mx	-.012	.25
4	MP3A	X	23.438	6
5	MP3A	Z	0	6
6	MP3A	Mx	-.012	6
7	MP3B	X	30.885	.25
8	MP3B	Z	0	.25
9	MP3B	Mx	-.008	.25
10	MP3B	X	30.885	6
11	MP3B	Z	0	6
12	MP3B	Mx	-.008	6
13	MP3C	X	30.885	.25
14	MP3C	Z	0	.25
15	MP3C	Mx	.023	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
16	MP3C	X	30.885	6
17	MP3C	Z	0	6
18	MP3C	Mx	.023	6
19	MP3A	X	23.438	.25
20	MP3A	Z	0	.25
21	MP3A	Mx	-.012	.25
22	MP3A	X	23.438	6
23	MP3A	Z	0	6
24	MP3A	Mx	-.012	6
25	MP3B	X	30.885	.25
26	MP3B	Z	0	.25
27	MP3B	Mx	.023	.25
28	MP3B	X	30.885	6
29	MP3B	Z	0	6
30	MP3B	Mx	.023	6
31	MP3C	X	30.885	.25
32	MP3C	Z	0	.25
33	MP3C	Mx	-.008	.25
34	MP3C	X	30.885	6
35	MP3C	Z	0	6
36	MP3C	Mx	-.008	6
37	MP1A	X	20.282	.25
38	MP1A	Z	0	.25
39	MP1A	Mx	-.01	.25
40	MP1A	X	20.282	6
41	MP1A	Z	0	6
42	MP1A	Mx	-.01	6
43	MP1B	X	23.593	.25
44	MP1B	Z	0	.25
45	MP1B	Mx	.006	.25
46	MP1B	X	23.593	6
47	MP1B	Z	0	6
48	MP1B	Mx	.006	6
49	MP1C	X	23.593	.25
50	MP1C	Z	0	.25
51	MP1C	Mx	.006	.25
52	MP1C	X	23.593	6
53	MP1C	Z	0	6
54	MP1C	Mx	.006	6
55	MP4A	X	8.805	2.13
56	MP4A	Z	0	2.13
57	MP4A	Mx	-.004	2.13
58	MP4A	X	8.805	4.13
59	MP4A	Z	0	4.13
60	MP4A	Mx	-.004	4.13
61	MP4B	X	17.103	2.13
62	MP4B	Z	0	2.13
63	MP4B	Mx	.004	2.13
64	MP4B	X	17.103	4.13
65	MP4B	Z	0	4.13
66	MP4B	Mx	.004	4.13
67	MP4C	X	17.103	2.13
68	MP4C	Z	0	2.13
69	MP4C	Mx	.004	2.13
70	MP4C	X	17.103	4.13
71	MP4C	Z	0	4.13
72	MP4C	Mx	.004	4.13



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
73	MP2A	X	5.961	3.13
74	MP2A	Z	0	3.13
75	MP2A	Mx	-.003	3.13
76	MP2B	X	9.054	3.13
77	MP2B	Z	0	3.13
78	MP2B	Mx	.002	3.13
79	MP2C	X	9.054	3.13
80	MP2C	Z	0	3.13
81	MP2C	Mx	.002	3.13
82	MP3A	X	12.175	2
83	MP3A	Z	0	2
84	MP3A	Mx	.004	2
85	MP3B	X	15.933	2
86	MP3B	Z	0	2
87	MP3B	Mx	-.003	2
88	MP3C	X	15.933	2
89	MP3C	Z	0	2
90	MP3C	Mx	-.003	2
91	MP4A	X	10.271	2
92	MP4A	Z	0	2
93	MP4A	Mx	.003	2
94	MP4B	X	15.457	2
95	MP4B	Z	0	2
96	MP4B	Mx	-.003	2
97	MP4C	X	15.457	2
98	MP4C	Z	0	2
99	MP4C	Mx	-.003	2
100	OVP1	X	34.505	1
101	OVP1	Z	0	1
102	OVP1	Mx	0	1
103	OVP2	X	29.07	1
104	OVP2	Z	0	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	22.448	.25
2	MP3A	Z	12.96	.25
3	MP3A	Mx	-.004	.25
4	MP3A	X	22.448	6
5	MP3A	Z	12.96	6
6	MP3A	Mx	-.004	6
7	MP3B	X	28.897	.25
8	MP3B	Z	16.684	.25
9	MP3B	Mx	-.019	.25
10	MP3B	X	28.897	6
11	MP3B	Z	16.684	6
12	MP3B	Mx	-.019	6
13	MP3C	X	22.448	.25
14	MP3C	Z	12.96	.25
15	MP3C	Mx	.019	.25
16	MP3C	X	22.448	6
17	MP3C	Z	12.96	6
18	MP3C	Mx	.019	6
19	MP3A	X	22.448	.25
20	MP3A	Z	12.96	.25



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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
21	MP3A	Mx	.25
22	MP3A	X	6
23	MP3A	Z	6
24	MP3A	Mx	6
25	MP3B	X	.25
26	MP3B	Z	.25
27	MP3B	Mx	.25
28	MP3B	X	6
29	MP3B	Z	6
30	MP3B	Mx	6
31	MP3C	X	.25
32	MP3C	Z	.25
33	MP3C	Mx	.25
34	MP3C	X	6
35	MP3C	Z	6
36	MP3C	Mx	6
37	MP1A	X	.25
38	MP1A	Z	.25
39	MP1A	Mx	.25
40	MP1A	X	6
41	MP1A	Z	6
42	MP1A	Mx	6
43	MP1B	X	.25
44	MP1B	Z	.25
45	MP1B	Mx	.25
46	MP1B	X	6
47	MP1B	Z	6
48	MP1B	Mx	6
49	MP1C	X	.25
50	MP1C	Z	.25
51	MP1C	Mx	.25
52	MP1C	X	6
53	MP1C	Z	6
54	MP1C	Mx	6
55	MP4A	X	2.13
56	MP4A	Z	2.13
57	MP4A	Mx	2.13
58	MP4A	X	4.13
59	MP4A	Z	4.13
60	MP4A	Mx	4.13
61	MP4B	X	2.13
62	MP4B	Z	2.13
63	MP4B	Mx	2.13
64	MP4B	X	4.13
65	MP4B	Z	4.13
66	MP4B	Mx	4.13
67	MP4C	X	2.13
68	MP4C	Z	2.13
69	MP4C	Mx	2.13
70	MP4C	X	4.13
71	MP4C	Z	4.13
72	MP4C	Mx	4.13
73	MP2A	X	3.13
74	MP2A	Z	3.13
75	MP2A	Mx	3.13
76	MP2B	X	3.13
77	MP2B	Z	3.13



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
78	MP2B	Mx	0	3.13
79	MP2C	X	6.055	3.13
80	MP2C	Z	3.496	3.13
81	MP2C	Mx	.003	3.13
82	MP3A	X	11.629	2
83	MP3A	Z	6.714	2
84	MP3A	Mx	.004	2
85	MP3B	X	14.883	2
86	MP3B	Z	8.593	2
87	MP3B	Mx	0	2
88	MP3C	X	11.629	2
89	MP3C	Z	6.714	2
90	MP3C	Mx	-.004	2
91	MP4A	X	10.392	2
92	MP4A	Z	6	2
93	MP4A	Mx	.003	2
94	MP4B	X	14.883	2
95	MP4B	Z	8.593	2
96	MP4B	Mx	0	2
97	MP4C	X	10.392	2
98	MP4C	Z	6	2
99	MP4C	Mx	-.003	2
100	OVP1	X	28.313	1
101	OVP1	Z	16.347	1
102	OVP1	Mx	0	1
103	OVP2	X	23.607	1
104	OVP2	Z	13.629	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	15.442	.25
2	MP3A	Z	26.747	.25
3	MP3A	Mx	.008	.25
4	MP3A	X	15.442	6
5	MP3A	Z	26.747	6
6	MP3A	Mx	.008	6
7	MP3B	X	15.442	.25
8	MP3B	Z	26.747	.25
9	MP3B	Mx	-.023	.25
10	MP3B	X	15.442	6
11	MP3B	Z	26.747	6
12	MP3B	Mx	-.023	6
13	MP3C	X	11.719	.25
14	MP3C	Z	20.298	.25
15	MP3C	Mx	.012	.25
16	MP3C	X	11.719	6
17	MP3C	Z	20.298	6
18	MP3C	Mx	.012	6
19	MP3A	X	15.442	.25
20	MP3A	Z	26.747	.25
21	MP3A	Mx	-.023	.25
22	MP3A	X	15.442	6
23	MP3A	Z	26.747	6
24	MP3A	Mx	-.023	6
25	MP3B	X	15.442	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
26	MP3B	Z	26.747	.25
27	MP3B	Mx	.008	.25
28	MP3B	X	15.442	6
29	MP3B	Z	26.747	6
30	MP3B	Mx	.008	6
31	MP3C	X	11.719	.25
32	MP3C	Z	20.298	.25
33	MP3C	Mx	.012	.25
34	MP3C	X	11.719	6
35	MP3C	Z	20.298	6
36	MP3C	Mx	.012	6
37	MP1A	X	11.796	.25
38	MP1A	Z	20.432	.25
39	MP1A	Mx	-.006	.25
40	MP1A	X	11.796	6
41	MP1A	Z	20.432	6
42	MP1A	Mx	-.006	6
43	MP1B	X	11.796	.25
44	MP1B	Z	20.432	.25
45	MP1B	Mx	-.006	.25
46	MP1B	X	11.796	6
47	MP1B	Z	20.432	6
48	MP1B	Mx	-.006	6
49	MP1C	X	10.141	.25
50	MP1C	Z	17.565	.25
51	MP1C	Mx	.01	.25
52	MP1C	X	10.141	6
53	MP1C	Z	17.565	6
54	MP1C	Mx	.01	6
55	MP4A	X	8.551	2.13
56	MP4A	Z	14.811	2.13
57	MP4A	Mx	-.004	2.13
58	MP4A	X	8.551	4.13
59	MP4A	Z	14.811	4.13
60	MP4A	Mx	-.004	4.13
61	MP4B	X	8.551	2.13
62	MP4B	Z	14.811	2.13
63	MP4B	Mx	-.004	2.13
64	MP4B	X	8.551	4.13
65	MP4B	Z	14.811	4.13
66	MP4B	Mx	-.004	4.13
67	MP4C	X	4.402	2.13
68	MP4C	Z	7.625	2.13
69	MP4C	Mx	.004	2.13
70	MP4C	X	4.402	4.13
71	MP4C	Z	7.625	4.13
72	MP4C	Mx	.004	4.13
73	MP2A	X	4.527	3.13
74	MP2A	Z	7.841	3.13
75	MP2A	Mx	-.002	3.13
76	MP2B	X	4.527	3.13
77	MP2B	Z	7.841	3.13
78	MP2B	Mx	-.002	3.13
79	MP2C	X	2.98	3.13
80	MP2C	Z	5.162	3.13
81	MP2C	Mx	.003	3.13
82	MP3A	X	7.967	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
83	MP3A	Z	13.799	2
84	MP3A	Mx	.003	2
85	MP3B	X	7.967	2
86	MP3B	Z	13.799	2
87	MP3B	Mx	.003	2
88	MP3C	X	6.087	2
89	MP3C	Z	10.544	2
90	MP3C	Mx	-.004	2
91	MP4A	X	7.729	2
92	MP4A	Z	13.386	2
93	MP4A	Mx	.003	2
94	MP4B	X	7.729	2
95	MP4B	Z	13.386	2
96	MP4B	Mx	.003	2
97	MP4C	X	5.135	2
98	MP4C	Z	8.895	2
99	MP4C	Mx	-.003	2
100	OVP1	X	14.535	1
101	OVP1	Z	25.176	1
102	OVP1	Mx	0	1
103	OVP2	X	14.535	1
104	OVP2	Z	25.176	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	.25
2	MP3A	Z	33.367	.25
3	MP3A	Mx	.019	.25
4	MP3A	X	0	6
5	MP3A	Z	33.367	6
6	MP3A	Mx	.019	6
7	MP3B	X	0	.25
8	MP3B	Z	25.92	.25
9	MP3B	Mx	-.019	.25
10	MP3B	X	0	6
11	MP3B	Z	25.92	6
12	MP3B	Mx	-.019	6
13	MP3C	X	0	.25
14	MP3C	Z	25.92	.25
15	MP3C	Mx	.004	.25
16	MP3C	X	0	6
17	MP3C	Z	25.92	6
18	MP3C	Mx	.004	6
19	MP3A	X	0	.25
20	MP3A	Z	33.367	.25
21	MP3A	Mx	-.019	.25
22	MP3A	X	0	6
23	MP3A	Z	33.367	6
24	MP3A	Mx	-.019	6
25	MP3B	X	0	.25
26	MP3B	Z	25.92	.25
27	MP3B	Mx	-.004	.25
28	MP3B	X	0	6
29	MP3B	Z	25.92	6
30	MP3B	Mx	-.004	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
31	MP3C	X	0	.25
32	MP3C	Z	25.92	.25
33	MP3C	Mx	.019	.25
34	MP3C	X	0	6
35	MP3C	Z	25.92	6
36	MP3C	Mx	.019	6
37	MP1A	X	0	.25
38	MP1A	Z	24.696	.25
39	MP1A	Mx	0	.25
40	MP1A	X	0	6
41	MP1A	Z	24.696	6
42	MP1A	Mx	0	6
43	MP1B	X	0	.25
44	MP1B	Z	21.386	.25
45	MP1B	Mx	-.009	.25
46	MP1B	X	0	6
47	MP1B	Z	21.386	6
48	MP1B	Mx	-.009	6
49	MP1C	X	0	.25
50	MP1C	Z	21.386	.25
51	MP1C	Mx	.009	.25
52	MP1C	X	0	6
53	MP1C	Z	21.386	6
54	MP1C	Mx	.009	6
55	MP4A	X	0	2.13
56	MP4A	Z	19.869	2.13
57	MP4A	Mx	0	2.13
58	MP4A	X	0	4.13
59	MP4A	Z	19.869	4.13
60	MP4A	Mx	0	4.13
61	MP4B	X	0	2.13
62	MP4B	Z	11.571	2.13
63	MP4B	Mx	-.005	2.13
64	MP4B	X	0	4.13
65	MP4B	Z	11.571	4.13
66	MP4B	Mx	-.005	4.13
67	MP4C	X	0	2.13
68	MP4C	Z	11.571	2.13
69	MP4C	Mx	.005	2.13
70	MP4C	X	0	4.13
71	MP4C	Z	11.571	4.13
72	MP4C	Mx	.005	4.13
73	MP2A	X	0	3.13
74	MP2A	Z	10.085	3.13
75	MP2A	Mx	0	3.13
76	MP2B	X	0	3.13
77	MP2B	Z	6.992	3.13
78	MP2B	Mx	-.003	3.13
79	MP2C	X	0	3.13
80	MP2C	Z	6.992	3.13
81	MP2C	Mx	.003	3.13
82	MP3A	X	0	2
83	MP3A	Z	17.186	2
84	MP3A	Mx	0	2
85	MP3B	X	0	2
86	MP3B	Z	13.428	2
87	MP3B	Mx	.004	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
88	MP3C	X	0	2
89	MP3C	Z	13.428	2
90	MP3C	Mx	-.004	2
91	MP4A	X	0	2
92	MP4A	Z	17.186	2
93	MP4A	Mx	0	2
94	MP4B	X	0	2
95	MP4B	Z	11.999	2
96	MP4B	Mx	.003	2
97	MP4C	X	0	2
98	MP4C	Z	11.999	2
99	MP4C	Mx	-.003	2
100	OVP1	X	0	1
101	OVP1	Z	27.259	1
102	OVP1	Mx	0	1
103	OVP2	X	0	1
104	OVP2	Z	32.693	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-15.442	.25
2	MP3A	Z	26.747	.25
3	MP3A	Mx	.023	.25
4	MP3A	X	-15.442	6
5	MP3A	Z	26.747	6
6	MP3A	Mx	.023	6
7	MP3B	X	-11.719	.25
8	MP3B	Z	20.298	.25
9	MP3B	Mx	-.012	.25
10	MP3B	X	-11.719	6
11	MP3B	Z	20.298	6
12	MP3B	Mx	-.012	6
13	MP3C	X	-15.442	.25
14	MP3C	Z	26.747	.25
15	MP3C	Mx	-.008	.25
16	MP3C	X	-15.442	6
17	MP3C	Z	26.747	6
18	MP3C	Mx	-.008	6
19	MP3A	X	-15.442	.25
20	MP3A	Z	26.747	.25
21	MP3A	Mx	-.008	.25
22	MP3A	X	-15.442	6
23	MP3A	Z	26.747	6
24	MP3A	Mx	-.008	6
25	MP3B	X	-11.719	.25
26	MP3B	Z	20.298	.25
27	MP3B	Mx	-.012	.25
28	MP3B	X	-11.719	6
29	MP3B	Z	20.298	6
30	MP3B	Mx	-.012	6
31	MP3C	X	-15.442	.25
32	MP3C	Z	26.747	.25
33	MP3C	Mx	.023	.25
34	MP3C	X	-15.442	6
35	MP3C	Z	26.747	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
36	MP3C	Mx	.023	6
37	MP1A	X	-11.796	.25
38	MP1A	Z	20.432	.25
39	MP1A	Mx	.006	.25
40	MP1A	X	-11.796	6
41	MP1A	Z	20.432	6
42	MP1A	Mx	.006	6
43	MP1B	X	-10.141	.25
44	MP1B	Z	17.565	.25
45	MP1B	Mx	-.01	.25
46	MP1B	X	-10.141	6
47	MP1B	Z	17.565	6
48	MP1B	Mx	-.01	6
49	MP1C	X	-11.796	.25
50	MP1C	Z	20.432	.25
51	MP1C	Mx	.006	.25
52	MP1C	X	-11.796	6
53	MP1C	Z	20.432	6
54	MP1C	Mx	.006	6
55	MP4A	X	-8.551	2.13
56	MP4A	Z	14.811	2.13
57	MP4A	Mx	.004	2.13
58	MP4A	X	-8.551	4.13
59	MP4A	Z	14.811	4.13
60	MP4A	Mx	.004	4.13
61	MP4B	X	-4.402	2.13
62	MP4B	Z	7.625	2.13
63	MP4B	Mx	-.004	2.13
64	MP4B	X	-4.402	4.13
65	MP4B	Z	7.625	4.13
66	MP4B	Mx	-.004	4.13
67	MP4C	X	-8.551	2.13
68	MP4C	Z	14.811	2.13
69	MP4C	Mx	.004	2.13
70	MP4C	X	-8.551	4.13
71	MP4C	Z	14.811	4.13
72	MP4C	Mx	.004	4.13
73	MP2A	X	-4.527	3.13
74	MP2A	Z	7.841	3.13
75	MP2A	Mx	.002	3.13
76	MP2B	X	-2.98	3.13
77	MP2B	Z	5.162	3.13
78	MP2B	Mx	-.003	3.13
79	MP2C	X	-4.527	3.13
80	MP2C	Z	7.841	3.13
81	MP2C	Mx	.002	3.13
82	MP3A	X	-7.967	2
83	MP3A	Z	13.799	2
84	MP3A	Mx	-.003	2
85	MP3B	X	-6.087	2
86	MP3B	Z	10.544	2
87	MP3B	Mx	.004	2
88	MP3C	X	-7.967	2
89	MP3C	Z	13.799	2
90	MP3C	Mx	-.003	2
91	MP4A	X	-7.729	2
92	MP4A	Z	13.386	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
93	MP4A	Mx	-.003	2
94	MP4B	X	-5.135	2
95	MP4B	Z	8.895	2
96	MP4B	Mx	.003	2
97	MP4C	X	-7.729	2
98	MP4C	Z	13.386	2
99	MP4C	Mx	-.003	2
100	OVP1	X	-14.535	1
101	OVP1	Z	25.176	1
102	OVP1	Mx	0	1
103	OVP2	X	-17.252	1
104	OVP2	Z	29.882	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-22.448	.25
2	MP3A	Z	12.96	.25
3	MP3A	Mx	.019	.25
4	MP3A	X	-22.448	6
5	MP3A	Z	12.96	6
6	MP3A	Mx	.019	6
7	MP3B	X	-22.448	.25
8	MP3B	Z	12.96	.25
9	MP3B	Mx	-.004	.25
10	MP3B	X	-22.448	6
11	MP3B	Z	12.96	6
12	MP3B	Mx	-.004	6
13	MP3C	X	-28.897	.25
14	MP3C	Z	16.684	.25
15	MP3C	Mx	-.019	.25
16	MP3C	X	-28.897	6
17	MP3C	Z	16.684	6
18	MP3C	Mx	-.019	6
19	MP3A	X	-22.448	.25
20	MP3A	Z	12.96	.25
21	MP3A	Mx	.004	.25
22	MP3A	X	-22.448	6
23	MP3A	Z	12.96	6
24	MP3A	Mx	.004	6
25	MP3B	X	-22.448	.25
26	MP3B	Z	12.96	.25
27	MP3B	Mx	-.019	.25
28	MP3B	X	-22.448	6
29	MP3B	Z	12.96	6
30	MP3B	Mx	-.019	6
31	MP3C	X	-28.897	.25
32	MP3C	Z	16.684	.25
33	MP3C	Mx	.019	.25
34	MP3C	X	-28.897	6
35	MP3C	Z	16.684	6
36	MP3C	Mx	.019	6
37	MP1A	X	-18.521	.25
38	MP1A	Z	10.693	.25
39	MP1A	Mx	.009	.25
40	MP1A	X	-18.521	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
41	MP1A	Z	10.693	6
42	MP1A	Mx	.009	6
43	MP1B	X	-18.521	.25
44	MP1B	Z	10.693	.25
45	MP1B	Mx	-.009	.25
46	MP1B	X	-18.521	6
47	MP1B	Z	10.693	6
48	MP1B	Mx	-.009	6
49	MP1C	X	-21.388	.25
50	MP1C	Z	12.348	.25
51	MP1C	Mx	0	.25
52	MP1C	X	-21.388	6
53	MP1C	Z	12.348	6
54	MP1C	Mx	0	6
55	MP4A	X	-10.021	2.13
56	MP4A	Z	5.785	2.13
57	MP4A	Mx	.005	2.13
58	MP4A	X	-10.021	4.13
59	MP4A	Z	5.785	4.13
60	MP4A	Mx	.005	4.13
61	MP4B	X	-10.021	2.13
62	MP4B	Z	5.785	2.13
63	MP4B	Mx	-.005	2.13
64	MP4B	X	-10.021	4.13
65	MP4B	Z	5.785	4.13
66	MP4B	Mx	-.005	4.13
67	MP4C	X	-17.207	2.13
68	MP4C	Z	9.934	2.13
69	MP4C	Mx	0	2.13
70	MP4C	X	-17.207	4.13
71	MP4C	Z	9.934	4.13
72	MP4C	Mx	0	4.13
73	MP2A	X	-6.055	3.13
74	MP2A	Z	3.496	3.13
75	MP2A	Mx	.003	3.13
76	MP2B	X	-6.055	3.13
77	MP2B	Z	3.496	3.13
78	MP2B	Mx	-.003	3.13
79	MP2C	X	-8.734	3.13
80	MP2C	Z	5.042	3.13
81	MP2C	Mx	0	3.13
82	MP3A	X	-11.629	2
83	MP3A	Z	6.714	2
84	MP3A	Mx	-.004	2
85	MP3B	X	-11.629	2
86	MP3B	Z	6.714	2
87	MP3B	Mx	.004	2
88	MP3C	X	-14.883	2
89	MP3C	Z	8.593	2
90	MP3C	Mx	0	2
91	MP4A	X	-10.392	2
92	MP4A	Z	6	2
93	MP4A	Mx	-.003	2
94	MP4B	X	-10.392	2
95	MP4B	Z	6	2
96	MP4B	Mx	.003	2
97	MP4C	X	-14.883	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
98	MP4C	Z	8.593	2
99	MP4C	Mx	0	2
100	OVP1	X	-28.313	1
101	OVP1	Z	16.347	1
102	OVP1	Mx	0	1
103	OVP2	X	-28.313	1
104	OVP2	Z	16.347	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-23.438	.25
2	MP3A	Z	0	.25
3	MP3A	Mx	.012	.25
4	MP3A	X	-23.438	6
5	MP3A	Z	0	6
6	MP3A	Mx	.012	6
7	MP3B	X	-30.885	.25
8	MP3B	Z	0	.25
9	MP3B	Mx	.008	.25
10	MP3B	X	-30.885	6
11	MP3B	Z	0	6
12	MP3B	Mx	.008	6
13	MP3C	X	-30.885	.25
14	MP3C	Z	0	.25
15	MP3C	Mx	-.023	.25
16	MP3C	X	-30.885	6
17	MP3C	Z	0	6
18	MP3C	Mx	-.023	6
19	MP3A	X	-23.438	.25
20	MP3A	Z	0	.25
21	MP3A	Mx	.012	.25
22	MP3A	X	-23.438	6
23	MP3A	Z	0	6
24	MP3A	Mx	.012	6
25	MP3B	X	-30.885	.25
26	MP3B	Z	0	.25
27	MP3B	Mx	-.023	.25
28	MP3B	X	-30.885	6
29	MP3B	Z	0	6
30	MP3B	Mx	-.023	6
31	MP3C	X	-30.885	.25
32	MP3C	Z	0	.25
33	MP3C	Mx	.008	.25
34	MP3C	X	-30.885	6
35	MP3C	Z	0	6
36	MP3C	Mx	.008	6
37	MP1A	X	-20.282	.25
38	MP1A	Z	0	.25
39	MP1A	Mx	.01	.25
40	MP1A	X	-20.282	6
41	MP1A	Z	0	6
42	MP1A	Mx	.01	6
43	MP1B	X	-23.593	.25
44	MP1B	Z	0	.25
45	MP1B	Mx	-.006	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
46	MP1B	X	-23.593	6
47	MP1B	Z	0	6
48	MP1B	Mx	-.006	6
49	MP1C	X	-23.593	.25
50	MP1C	Z	0	.25
51	MP1C	Mx	-.006	.25
52	MP1C	X	-23.593	6
53	MP1C	Z	0	6
54	MP1C	Mx	-.006	6
55	MP4A	X	-8.805	2.13
56	MP4A	Z	0	2.13
57	MP4A	Mx	.004	2.13
58	MP4A	X	-8.805	4.13
59	MP4A	Z	0	4.13
60	MP4A	Mx	.004	4.13
61	MP4B	X	-17.103	2.13
62	MP4B	Z	0	2.13
63	MP4B	Mx	-.004	2.13
64	MP4B	X	-17.103	4.13
65	MP4B	Z	0	4.13
66	MP4B	Mx	-.004	4.13
67	MP4C	X	-17.103	2.13
68	MP4C	Z	0	2.13
69	MP4C	Mx	-.004	2.13
70	MP4C	X	-17.103	4.13
71	MP4C	Z	0	4.13
72	MP4C	Mx	-.004	4.13
73	MP2A	X	-5.961	3.13
74	MP2A	Z	0	3.13
75	MP2A	Mx	.003	3.13
76	MP2B	X	-9.054	3.13
77	MP2B	Z	0	3.13
78	MP2B	Mx	-.002	3.13
79	MP2C	X	-9.054	3.13
80	MP2C	Z	0	3.13
81	MP2C	Mx	-.002	3.13
82	MP3A	X	-12.175	2
83	MP3A	Z	0	2
84	MP3A	Mx	-.004	2
85	MP3B	X	-15.933	2
86	MP3B	Z	0	2
87	MP3B	Mx	.003	2
88	MP3C	X	-15.933	2
89	MP3C	Z	0	2
90	MP3C	Mx	.003	2
91	MP4A	X	-10.271	2
92	MP4A	Z	0	2
93	MP4A	Mx	-.003	2
94	MP4B	X	-15.457	2
95	MP4B	Z	0	2
96	MP4B	Mx	.003	2
97	MP4C	X	-15.457	2
98	MP4C	Z	0	2
99	MP4C	Mx	.003	2
100	OVP1	X	-34.505	1
101	OVP1	Z	0	1
102	OVP1	Mx	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
103	OVP2	X	-29.07	1
104	OVP2	Z	0	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-22.448	.25
2	MP3A	Z	-12.96	.25
3	MP3A	Mx	.004	.25
4	MP3A	X	-22.448	6
5	MP3A	Z	-12.96	6
6	MP3A	Mx	.004	6
7	MP3B	X	-28.897	.25
8	MP3B	Z	-16.684	.25
9	MP3B	Mx	.019	.25
10	MP3B	X	-28.897	6
11	MP3B	Z	-16.684	6
12	MP3B	Mx	.019	6
13	MP3C	X	-22.448	.25
14	MP3C	Z	-12.96	.25
15	MP3C	Mx	-.019	.25
16	MP3C	X	-22.448	6
17	MP3C	Z	-12.96	6
18	MP3C	Mx	-.019	6
19	MP3A	X	-22.448	.25
20	MP3A	Z	-12.96	.25
21	MP3A	Mx	.019	.25
22	MP3A	X	-22.448	6
23	MP3A	Z	-12.96	6
24	MP3A	Mx	.019	6
25	MP3B	X	-28.897	.25
26	MP3B	Z	-16.684	.25
27	MP3B	Mx	-.019	.25
28	MP3B	X	-28.897	6
29	MP3B	Z	-16.684	6
30	MP3B	Mx	-.019	6
31	MP3C	X	-22.448	.25
32	MP3C	Z	-12.96	.25
33	MP3C	Mx	-.004	.25
34	MP3C	X	-22.448	6
35	MP3C	Z	-12.96	6
36	MP3C	Mx	-.004	6
37	MP1A	X	-18.521	.25
38	MP1A	Z	-10.693	.25
39	MP1A	Mx	.009	.25
40	MP1A	X	-18.521	6
41	MP1A	Z	-10.693	6
42	MP1A	Mx	.009	6
43	MP1B	X	-21.388	.25
44	MP1B	Z	-12.348	.25
45	MP1B	Mx	0	.25
46	MP1B	X	-21.388	6
47	MP1B	Z	-12.348	6
48	MP1B	Mx	0	6
49	MP1C	X	-18.521	.25
50	MP1C	Z	-10.693	.25



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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
51	MP1C	Mx	.25
52	MP1C	X	6
53	MP1C	Z	6
54	MP1C	Mx	6
55	MP4A	X	2.13
56	MP4A	Z	2.13
57	MP4A	Mx	2.13
58	MP4A	X	4.13
59	MP4A	Z	4.13
60	MP4A	Mx	4.13
61	MP4B	X	2.13
62	MP4B	Z	2.13
63	MP4B	Mx	2.13
64	MP4B	X	4.13
65	MP4B	Z	4.13
66	MP4B	Mx	4.13
67	MP4C	X	2.13
68	MP4C	Z	2.13
69	MP4C	Mx	2.13
70	MP4C	X	4.13
71	MP4C	Z	4.13
72	MP4C	Mx	4.13
73	MP2A	X	3.13
74	MP2A	Z	3.13
75	MP2A	Mx	3.13
76	MP2B	X	3.13
77	MP2B	Z	3.13
78	MP2B	Mx	3.13
79	MP2C	X	3.13
80	MP2C	Z	3.13
81	MP2C	Mx	3.13
82	MP3A	X	2
83	MP3A	Z	2
84	MP3A	Mx	2
85	MP3B	X	2
86	MP3B	Z	2
87	MP3B	Mx	2
88	MP3C	X	2
89	MP3C	Z	2
90	MP3C	Mx	2
91	MP4A	X	2
92	MP4A	Z	2
93	MP4A	Mx	2
94	MP4B	X	2
95	MP4B	Z	2
96	MP4B	Mx	2
97	MP4C	X	2
98	MP4C	Z	2
99	MP4C	Mx	2
100	OVP1	X	1
101	OVP1	Z	1
102	OVP1	Mx	1
103	OVP2	X	1
104	OVP2	Z	1
105	OVP2	Mx	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-15.442	.25
2	MP3A	Z	-26.747	.25
3	MP3A	Mx	-.008	.25
4	MP3A	X	-15.442	6
5	MP3A	Z	-26.747	6
6	MP3A	Mx	-.008	6
7	MP3B	X	-15.442	.25
8	MP3B	Z	-26.747	.25
9	MP3B	Mx	.023	.25
10	MP3B	X	-15.442	6
11	MP3B	Z	-26.747	6
12	MP3B	Mx	.023	6
13	MP3C	X	-11.719	.25
14	MP3C	Z	-20.298	.25
15	MP3C	Mx	-.012	.25
16	MP3C	X	-11.719	6
17	MP3C	Z	-20.298	6
18	MP3C	Mx	-.012	6
19	MP3A	X	-15.442	.25
20	MP3A	Z	-26.747	.25
21	MP3A	Mx	.023	.25
22	MP3A	X	-15.442	6
23	MP3A	Z	-26.747	6
24	MP3A	Mx	.023	6
25	MP3B	X	-15.442	.25
26	MP3B	Z	-26.747	.25
27	MP3B	Mx	-.008	.25
28	MP3B	X	-15.442	6
29	MP3B	Z	-26.747	6
30	MP3B	Mx	-.008	6
31	MP3C	X	-11.719	.25
32	MP3C	Z	-20.298	.25
33	MP3C	Mx	-.012	.25
34	MP3C	X	-11.719	6
35	MP3C	Z	-20.298	6
36	MP3C	Mx	-.012	6
37	MP1A	X	-11.796	.25
38	MP1A	Z	-20.432	.25
39	MP1A	Mx	.006	.25
40	MP1A	X	-11.796	6
41	MP1A	Z	-20.432	6
42	MP1A	Mx	.006	6
43	MP1B	X	-11.796	.25
44	MP1B	Z	-20.432	.25
45	MP1B	Mx	.006	.25
46	MP1B	X	-11.796	6
47	MP1B	Z	-20.432	6
48	MP1B	Mx	.006	6
49	MP1C	X	-10.141	.25
50	MP1C	Z	-17.565	.25
51	MP1C	Mx	-.01	.25
52	MP1C	X	-10.141	6
53	MP1C	Z	-17.565	6
54	MP1C	Mx	-.01	6
55	MP4A	X	-8.551	2.13
56	MP4A	Z	-14.811	2.13
57	MP4A	Mx	.004	2.13



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP4A	X	-8.551	4.13
59	MP4A	Z	-14.811	4.13
60	MP4A	Mx	.004	4.13
61	MP4B	X	-8.551	2.13
62	MP4B	Z	-14.811	2.13
63	MP4B	Mx	.004	2.13
64	MP4B	X	-8.551	4.13
65	MP4B	Z	-14.811	4.13
66	MP4B	Mx	.004	4.13
67	MP4C	X	-4.402	2.13
68	MP4C	Z	-7.625	2.13
69	MP4C	Mx	-.004	2.13
70	MP4C	X	-4.402	4.13
71	MP4C	Z	-7.625	4.13
72	MP4C	Mx	-.004	4.13
73	MP2A	X	-4.527	3.13
74	MP2A	Z	-7.841	3.13
75	MP2A	Mx	.002	3.13
76	MP2B	X	-4.527	3.13
77	MP2B	Z	-7.841	3.13
78	MP2B	Mx	.002	3.13
79	MP2C	X	-2.98	3.13
80	MP2C	Z	-5.162	3.13
81	MP2C	Mx	-.003	3.13
82	MP3A	X	-7.967	2
83	MP3A	Z	-13.799	2
84	MP3A	Mx	-.003	2
85	MP3B	X	-7.967	2
86	MP3B	Z	-13.799	2
87	MP3B	Mx	-.003	2
88	MP3C	X	-6.087	2
89	MP3C	Z	-10.544	2
90	MP3C	Mx	.004	2
91	MP4A	X	-7.729	2
92	MP4A	Z	-13.386	2
93	MP4A	Mx	-.003	2
94	MP4B	X	-7.729	2
95	MP4B	Z	-13.386	2
96	MP4B	Mx	-.003	2
97	MP4C	X	-5.135	2
98	MP4C	Z	-8.895	2
99	MP4C	Mx	.003	2
100	OVP1	X	-14.535	1
101	OVP1	Z	-25.176	1
102	OVP1	Mx	0	1
103	OVP2	X	-14.535	1
104	OVP2	Z	-25.176	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	.25
2	MP3A	Z	-10.401	.25
3	MP3A	Mx	-.006	.25
4	MP3A	X	0	6
5	MP3A	Z	-10.401	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
6	MP3A	Mx	-0.006	6
7	MP3B	X	0	.25
8	MP3B	Z	-7.759	.25
9	MP3B	Mx	.006	.25
10	MP3B	X	0	6
11	MP3B	Z	-7.759	6
12	MP3B	Mx	.006	6
13	MP3C	X	0	.25
14	MP3C	Z	-7.759	.25
15	MP3C	Mx	-.001	.25
16	MP3C	X	0	6
17	MP3C	Z	-7.759	6
18	MP3C	Mx	-.001	6
19	MP3A	X	0	.25
20	MP3A	Z	-10.401	.25
21	MP3A	Mx	.006	.25
22	MP3A	X	0	6
23	MP3A	Z	-10.401	6
24	MP3A	Mx	.006	6
25	MP3B	X	0	.25
26	MP3B	Z	-7.759	.25
27	MP3B	Mx	.001	.25
28	MP3B	X	0	6
29	MP3B	Z	-7.759	6
30	MP3B	Mx	.001	6
31	MP3C	X	0	.25
32	MP3C	Z	-7.759	.25
33	MP3C	Mx	-.006	.25
34	MP3C	X	0	6
35	MP3C	Z	-7.759	6
36	MP3C	Mx	-.006	6
37	MP1A	X	0	.25
38	MP1A	Z	-7.342	.25
39	MP1A	Mx	0	.25
40	MP1A	X	0	6
41	MP1A	Z	-7.342	6
42	MP1A	Mx	0	6
43	MP1B	X	0	.25
44	MP1B	Z	-6.196	.25
45	MP1B	Mx	.003	.25
46	MP1B	X	0	6
47	MP1B	Z	-6.196	6
48	MP1B	Mx	.003	6
49	MP1C	X	0	.25
50	MP1C	Z	-6.196	.25
51	MP1C	Mx	-.003	.25
52	MP1C	X	0	6
53	MP1C	Z	-6.196	6
54	MP1C	Mx	-.003	6
55	MP4A	X	0	2.13
56	MP4A	Z	-5.991	2.13
57	MP4A	Mx	0	2.13
58	MP4A	X	0	4.13
59	MP4A	Z	-5.991	4.13
60	MP4A	Mx	0	4.13
61	MP4B	X	0	2.13
62	MP4B	Z	-3.257	2.13



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
63	MP4B	Mx	.001	2.13
64	MP4B	X	0	4.13
65	MP4B	Z	-3.257	4.13
66	MP4B	Mx	.001	4.13
67	MP4C	X	0	2.13
68	MP4C	Z	-3.257	2.13
69	MP4C	Mx	-.001	2.13
70	MP4C	X	0	4.13
71	MP4C	Z	-3.257	4.13
72	MP4C	Mx	-.001	4.13
73	MP2A	X	0	3.13
74	MP2A	Z	-2.549	3.13
75	MP2A	Mx	0	3.13
76	MP2B	X	0	3.13
77	MP2B	Z	-1.595	3.13
78	MP2B	Mx	.000691	3.13
79	MP2C	X	0	3.13
80	MP2C	Z	-1.595	3.13
81	MP2C	Mx	-.000691	3.13
82	MP3A	X	0	2
83	MP3A	Z	-4.767	2
84	MP3A	Mx	0	2
85	MP3B	X	0	2
86	MP3B	Z	-3.582	2
87	MP3B	Mx	-.001	2
88	MP3C	X	0	2
89	MP3C	Z	-3.582	2
90	MP3C	Mx	.001	2
91	MP4A	X	0	2
92	MP4A	Z	-4.767	2
93	MP4A	Mx	0	2
94	MP4B	X	0	2
95	MP4B	Z	-3.128	2
96	MP4B	Mx	-.000903	2
97	MP4C	X	0	2
98	MP4C	Z	-3.128	2
99	MP4C	Mx	.000903	2
100	OVP1	X	0	1
101	OVP1	Z	-7.897	1
102	OVP1	Mx	0	1
103	OVP2	X	0	1
104	OVP2	Z	-9.737	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	4.76	.25
2	MP3A	Z	-8.245	.25
3	MP3A	Mx	-.007	.25
4	MP3A	X	4.76	6
5	MP3A	Z	-8.245	6
6	MP3A	Mx	-.007	6
7	MP3B	X	3.439	.25
8	MP3B	Z	-5.957	.25
9	MP3B	Mx	.003	.25
10	MP3B	X	3.439	6



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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
11	MP3B	Z	-5.957
12	MP3B	Mx	.003
13	MP3C	X	4.76
14	MP3C	Z	-8.245
15	MP3C	Mx	.002
16	MP3C	X	4.76
17	MP3C	Z	-8.245
18	MP3C	Mx	.002
19	MP3A	X	4.76
20	MP3A	Z	-8.245
21	MP3A	Mx	.002
22	MP3A	X	4.76
23	MP3A	Z	-8.245
24	MP3A	Mx	.002
25	MP3B	X	3.439
26	MP3B	Z	-5.957
27	MP3B	Mx	.003
28	MP3B	X	3.439
29	MP3B	Z	-5.957
30	MP3B	Mx	.003
31	MP3C	X	4.76
32	MP3C	Z	-8.245
33	MP3C	Mx	-.007
34	MP3C	X	4.76
35	MP3C	Z	-8.245
36	MP3C	Mx	-.007
37	MP1A	X	3.48
38	MP1A	Z	-6.028
39	MP1A	Mx	-.002
40	MP1A	X	3.48
41	MP1A	Z	-6.028
42	MP1A	Mx	-.002
43	MP1B	X	2.907
44	MP1B	Z	-5.035
45	MP1B	Mx	.003
46	MP1B	X	2.907
47	MP1B	Z	-5.035
48	MP1B	Mx	.003
49	MP1C	X	3.48
50	MP1C	Z	-6.028
51	MP1C	Mx	-.002
52	MP1C	X	3.48
53	MP1C	Z	-6.028
54	MP1C	Mx	-.002
55	MP4A	X	2.54
56	MP4A	Z	-4.399
57	MP4A	Mx	-.001
58	MP4A	X	2.54
59	MP4A	Z	-4.399
60	MP4A	Mx	-.001
61	MP4B	X	1.173
62	MP4B	Z	-2.031
63	MP4B	Mx	.001
64	MP4B	X	1.173
65	MP4B	Z	-2.031
66	MP4B	Mx	.001
67	MP4C	X	2.54



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
68	MP4C	Z	-4.399	2.13
69	MP4C	Mx	-.001	2.13
70	MP4C	X	2.54	4.13
71	MP4C	Z	-4.399	4.13
72	MP4C	Mx	-.001	4.13
73	MP2A	X	1.116	3.13
74	MP2A	Z	-1.932	3.13
75	MP2A	Mx	-.000558	3.13
76	MP2B	X	.639	3.13
77	MP2B	Z	-1.106	3.13
78	MP2B	Mx	.000639	3.13
79	MP2C	X	1.116	3.13
80	MP2C	Z	-1.932	3.13
81	MP2C	Mx	-.000558	3.13
82	MP3A	X	2.186	2
83	MP3A	Z	-3.786	2
84	MP3A	Mx	.000729	2
85	MP3B	X	1.593	2
86	MP3B	Z	-2.76	2
87	MP3B	Mx	-.001	2
88	MP3C	X	2.186	2
89	MP3C	Z	-3.786	2
90	MP3C	Mx	.000729	2
91	MP4A	X	2.11	2
92	MP4A	Z	-3.655	2
93	MP4A	Mx	.000703	2
94	MP4B	X	1.291	2
95	MP4B	Z	-2.235	2
96	MP4B	Mx	-.00086	2
97	MP4C	X	2.11	2
98	MP4C	Z	-3.655	2
99	MP4C	Mx	.000703	2
100	OVP1	X	4.255	1
101	OVP1	Z	-7.37	1
102	OVP1	Mx	0	1
103	OVP2	X	5.175	1
104	OVP2	Z	-8.964	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	6.72	.25
2	MP3A	Z	-3.88	.25
3	MP3A	Mx	-.006	.25
4	MP3A	X	6.72	6
5	MP3A	Z	-3.88	6
6	MP3A	Mx	-.006	6
7	MP3B	X	6.72	.25
8	MP3B	Z	-3.88	.25
9	MP3B	Mx	.001	.25
10	MP3B	X	6.72	6
11	MP3B	Z	-3.88	6
12	MP3B	Mx	.001	6
13	MP3C	X	9.008	.25
14	MP3C	Z	-5.201	.25
15	MP3C	Mx	.006	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
16	MP3C	X	9.008	6
17	MP3C	Z	-5.201	6
18	MP3C	Mx	.006	6
19	MP3A	X	6.72	.25
20	MP3A	Z	-3.88	.25
21	MP3A	Mx	-.001	.25
22	MP3A	X	6.72	6
23	MP3A	Z	-3.88	6
24	MP3A	Mx	-.001	6
25	MP3B	X	6.72	.25
26	MP3B	Z	-3.88	.25
27	MP3B	Mx	.006	.25
28	MP3B	X	6.72	6
29	MP3B	Z	-3.88	6
30	MP3B	Mx	.006	6
31	MP3C	X	9.008	.25
32	MP3C	Z	-5.201	.25
33	MP3C	Mx	-.006	.25
34	MP3C	X	9.008	6
35	MP3C	Z	-5.201	6
36	MP3C	Mx	-.006	6
37	MP1A	X	5.366	.25
38	MP1A	Z	-3.098	.25
39	MP1A	Mx	-.003	.25
40	MP1A	X	5.366	6
41	MP1A	Z	-3.098	6
42	MP1A	Mx	-.003	6
43	MP1B	X	5.366	.25
44	MP1B	Z	-3.098	.25
45	MP1B	Mx	.003	.25
46	MP1B	X	5.366	6
47	MP1B	Z	-3.098	6
48	MP1B	Mx	.003	6
49	MP1C	X	6.359	.25
50	MP1C	Z	-3.671	.25
51	MP1C	Mx	0	.25
52	MP1C	X	6.359	6
53	MP1C	Z	-3.671	6
54	MP1C	Mx	0	6
55	MP4A	X	2.821	2.13
56	MP4A	Z	-1.628	2.13
57	MP4A	Mx	-.001	2.13
58	MP4A	X	2.821	4.13
59	MP4A	Z	-1.628	4.13
60	MP4A	Mx	-.001	4.13
61	MP4B	X	2.821	2.13
62	MP4B	Z	-1.628	2.13
63	MP4B	Mx	.001	2.13
64	MP4B	X	2.821	4.13
65	MP4B	Z	-1.628	4.13
66	MP4B	Mx	.001	4.13
67	MP4C	X	5.188	2.13
68	MP4C	Z	-2.996	2.13
69	MP4C	Mx	0	2.13
70	MP4C	X	5.188	4.13
71	MP4C	Z	-2.996	4.13
72	MP4C	Mx	0	4.13



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
73	MP2A	X	1.382	3.13
74	MP2A	Z	-.798	3.13
75	MP2A	Mx	-.000691	3.13
76	MP2B	X	1.382	3.13
77	MP2B	Z	-.798	3.13
78	MP2B	Mx	.000691	3.13
79	MP2C	X	2.208	3.13
80	MP2C	Z	-1.275	3.13
81	MP2C	Mx	0	3.13
82	MP3A	X	3.102	2
83	MP3A	Z	-1.791	2
84	MP3A	Mx	.001	2
85	MP3B	X	3.102	2
86	MP3B	Z	-1.791	2
87	MP3B	Mx	-.001	2
88	MP3C	X	4.129	2
89	MP3C	Z	-2.384	2
90	MP3C	Mx	0	2
91	MP4A	X	2.709	2
92	MP4A	Z	-1.564	2
93	MP4A	Mx	.000903	2
94	MP4B	X	2.709	2
95	MP4B	Z	-1.564	2
96	MP4B	Mx	-.000903	2
97	MP4C	X	4.129	2
98	MP4C	Z	-2.384	2
99	MP4C	Mx	0	2
100	OVP1	X	8.433	1
101	OVP1	Z	-4.869	1
102	OVP1	Mx	0	1
103	OVP2	X	8.433	1
104	OVP2	Z	-4.869	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	6.879	.25
2	MP3A	Z	0	.25
3	MP3A	Mx	-.003	.25
4	MP3A	X	6.879	6
5	MP3A	Z	0	6
6	MP3A	Mx	-.003	6
7	MP3B	X	9.521	.25
8	MP3B	Z	0	.25
9	MP3B	Mx	-.002	.25
10	MP3B	X	9.521	6
11	MP3B	Z	0	6
12	MP3B	Mx	-.002	6
13	MP3C	X	9.521	.25
14	MP3C	Z	0	.25
15	MP3C	Mx	.007	.25
16	MP3C	X	9.521	6
17	MP3C	Z	0	6
18	MP3C	Mx	.007	6
19	MP3A	X	6.879	.25
20	MP3A	Z	0	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
21	MP3A	Mx	-.003	.25
22	MP3A	X	6.879	6
23	MP3A	Z	0	6
24	MP3A	Mx	-.003	6
25	MP3B	X	9.521	.25
26	MP3B	Z	0	.25
27	MP3B	Mx	.007	.25
28	MP3B	X	9.521	6
29	MP3B	Z	0	6
30	MP3B	Mx	.007	6
31	MP3C	X	9.521	.25
32	MP3C	Z	0	.25
33	MP3C	Mx	-.002	.25
34	MP3C	X	9.521	6
35	MP3C	Z	0	6
36	MP3C	Mx	-.002	6
37	MP1A	X	5.814	.25
38	MP1A	Z	0	.25
39	MP1A	Mx	-.003	.25
40	MP1A	X	5.814	6
41	MP1A	Z	0	6
42	MP1A	Mx	-.003	6
43	MP1B	X	6.96	.25
44	MP1B	Z	0	.25
45	MP1B	Mx	.002	.25
46	MP1B	X	6.96	6
47	MP1B	Z	0	6
48	MP1B	Mx	.002	6
49	MP1C	X	6.96	.25
50	MP1C	Z	0	.25
51	MP1C	Mx	.002	.25
52	MP1C	X	6.96	6
53	MP1C	Z	0	6
54	MP1C	Mx	.002	6
55	MP4A	X	2.345	2.13
56	MP4A	Z	0	2.13
57	MP4A	Mx	-.001	2.13
58	MP4A	X	2.345	4.13
59	MP4A	Z	0	4.13
60	MP4A	Mx	-.001	4.13
61	MP4B	X	5.08	2.13
62	MP4B	Z	0	2.13
63	MP4B	Mx	.001	2.13
64	MP4B	X	5.08	4.13
65	MP4B	Z	0	4.13
66	MP4B	Mx	.001	4.13
67	MP4C	X	5.08	2.13
68	MP4C	Z	0	2.13
69	MP4C	Mx	.001	2.13
70	MP4C	X	5.08	4.13
71	MP4C	Z	0	4.13
72	MP4C	Mx	.001	4.13
73	MP2A	X	1.277	3.13
74	MP2A	Z	0	3.13
75	MP2A	Mx	-.000638	3.13
76	MP2B	X	2.231	3.13
77	MP2B	Z	0	3.13



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
78	MP2B	Mx	.000558	3.13
79	MP2C	X	2.231	3.13
80	MP2C	Z	0	3.13
81	MP2C	Mx	.000558	3.13
82	MP3A	X	3.187	2
83	MP3A	Z	0	2
84	MP3A	Mx	.001	2
85	MP3B	X	4.372	2
86	MP3B	Z	0	2
87	MP3B	Mx	-.000729	2
88	MP3C	X	4.372	2
89	MP3C	Z	0	2
90	MP3C	Mx	-.000729	2
91	MP4A	X	2.581	2
92	MP4A	Z	0	2
93	MP4A	Mx	.00086	2
94	MP4B	X	4.221	2
95	MP4B	Z	0	2
96	MP4B	Mx	-.000704	2
97	MP4C	X	4.221	2
98	MP4C	Z	0	2
99	MP4C	Mx	-.000704	2
100	OVP1	X	10.35	1
101	OVP1	Z	0	1
102	OVP1	Mx	0	1
103	OVP2	X	8.51	1
104	OVP2	Z	0	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	6.72	.25
2	MP3A	Z	3.88	.25
3	MP3A	Mx	-.001	.25
4	MP3A	X	6.72	6
5	MP3A	Z	3.88	6
6	MP3A	Mx	-.001	6
7	MP3B	X	9.008	.25
8	MP3B	Z	5.201	.25
9	MP3B	Mx	-.006	.25
10	MP3B	X	9.008	6
11	MP3B	Z	5.201	6
12	MP3B	Mx	-.006	6
13	MP3C	X	6.72	.25
14	MP3C	Z	3.88	.25
15	MP3C	Mx	.006	.25
16	MP3C	X	6.72	6
17	MP3C	Z	3.88	6
18	MP3C	Mx	.006	6
19	MP3A	X	6.72	.25
20	MP3A	Z	3.88	.25
21	MP3A	Mx	-.006	.25
22	MP3A	X	6.72	6
23	MP3A	Z	3.88	6
24	MP3A	Mx	-.006	6
25	MP3B	X	9.008	.25



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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
26	MP3B	Z	.25
27	MP3B	Mx	.25
28	MP3B	X	6
29	MP3B	Z	6
30	MP3B	Mx	6
31	MP3C	X	.25
32	MP3C	Z	.25
33	MP3C	Mx	.25
34	MP3C	X	6
35	MP3C	Z	6
36	MP3C	Mx	6
37	MP1A	X	.25
38	MP1A	Z	.25
39	MP1A	Mx	.25
40	MP1A	X	6
41	MP1A	Z	6
42	MP1A	Mx	6
43	MP1B	X	.25
44	MP1B	Z	.25
45	MP1B	Mx	.25
46	MP1B	X	6
47	MP1B	Z	6
48	MP1B	Mx	6
49	MP1C	X	.25
50	MP1C	Z	.25
51	MP1C	Mx	.25
52	MP1C	X	6
53	MP1C	Z	6
54	MP1C	Mx	6
55	MP4A	X	2.13
56	MP4A	Z	2.13
57	MP4A	Mx	2.13
58	MP4A	X	4.13
59	MP4A	Z	4.13
60	MP4A	Mx	4.13
61	MP4B	X	2.13
62	MP4B	Z	2.13
63	MP4B	Mx	2.13
64	MP4B	X	4.13
65	MP4B	Z	4.13
66	MP4B	Mx	4.13
67	MP4C	X	2.13
68	MP4C	Z	2.13
69	MP4C	Mx	2.13
70	MP4C	X	4.13
71	MP4C	Z	4.13
72	MP4C	Mx	4.13
73	MP2A	X	3.13
74	MP2A	Z	3.13
75	MP2A	Mx	3.13
76	MP2B	X	3.13
77	MP2B	Z	3.13
78	MP2B	Mx	3.13
79	MP2C	X	3.13
80	MP2C	Z	3.13
81	MP2C	Mx	3.13
82	MP3A	X	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
83	MP3A	Z	1.791	2
84	MP3A	Mx	.001	2
85	MP3B	X	4.129	2
86	MP3B	Z	2.384	2
87	MP3B	Mx	0	2
88	MP3C	X	3.102	2
89	MP3C	Z	1.791	2
90	MP3C	Mx	-.001	2
91	MP4A	X	2.709	2
92	MP4A	Z	1.564	2
93	MP4A	Mx	.000903	2
94	MP4B	X	4.129	2
95	MP4B	Z	2.384	2
96	MP4B	Mx	0	2
97	MP4C	X	2.709	2
98	MP4C	Z	1.564	2
99	MP4C	Mx	-.000903	2
100	OVP1	X	8.433	1
101	OVP1	Z	4.869	1
102	OVP1	Mx	0	1
103	OVP2	X	6.839	1
104	OVP2	Z	3.948	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	4.76	.25
2	MP3A	Z	8.245	.25
3	MP3A	Mx	.002	.25
4	MP3A	X	4.76	6
5	MP3A	Z	8.245	6
6	MP3A	Mx	.002	6
7	MP3B	X	4.76	.25
8	MP3B	Z	8.245	.25
9	MP3B	Mx	-.007	.25
10	MP3B	X	4.76	6
11	MP3B	Z	8.245	6
12	MP3B	Mx	-.007	6
13	MP3C	X	3.439	.25
14	MP3C	Z	5.957	.25
15	MP3C	Mx	.003	.25
16	MP3C	X	3.439	6
17	MP3C	Z	5.957	6
18	MP3C	Mx	.003	6
19	MP3A	X	4.76	.25
20	MP3A	Z	8.245	.25
21	MP3A	Mx	-.007	.25
22	MP3A	X	4.76	6
23	MP3A	Z	8.245	6
24	MP3A	Mx	-.007	6
25	MP3B	X	4.76	.25
26	MP3B	Z	8.245	.25
27	MP3B	Mx	.002	.25
28	MP3B	X	4.76	6
29	MP3B	Z	8.245	6
30	MP3B	Mx	.002	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
31	MP3C	X	3.439	.25
32	MP3C	Z	5.957	.25
33	MP3C	Mx	.003	.25
34	MP3C	X	3.439	6
35	MP3C	Z	5.957	6
36	MP3C	Mx	.003	6
37	MP1A	X	3.48	.25
38	MP1A	Z	6.028	.25
39	MP1A	Mx	-.002	.25
40	MP1A	X	3.48	6
41	MP1A	Z	6.028	6
42	MP1A	Mx	-.002	6
43	MP1B	X	3.48	.25
44	MP1B	Z	6.028	.25
45	MP1B	Mx	-.002	.25
46	MP1B	X	3.48	6
47	MP1B	Z	6.028	6
48	MP1B	Mx	-.002	6
49	MP1C	X	2.907	.25
50	MP1C	Z	5.035	.25
51	MP1C	Mx	.003	.25
52	MP1C	X	2.907	6
53	MP1C	Z	5.035	6
54	MP1C	Mx	.003	6
55	MP4A	X	2.54	2.13
56	MP4A	Z	4.399	2.13
57	MP4A	Mx	-.001	2.13
58	MP4A	X	2.54	4.13
59	MP4A	Z	4.399	4.13
60	MP4A	Mx	-.001	4.13
61	MP4B	X	2.54	2.13
62	MP4B	Z	4.399	2.13
63	MP4B	Mx	-.001	2.13
64	MP4B	X	2.54	4.13
65	MP4B	Z	4.399	4.13
66	MP4B	Mx	-.001	4.13
67	MP4C	X	1.173	2.13
68	MP4C	Z	2.031	2.13
69	MP4C	Mx	.001	2.13
70	MP4C	X	1.173	4.13
71	MP4C	Z	2.031	4.13
72	MP4C	Mx	.001	4.13
73	MP2A	X	1.116	3.13
74	MP2A	Z	1.932	3.13
75	MP2A	Mx	-.000558	3.13
76	MP2B	X	1.116	3.13
77	MP2B	Z	1.932	3.13
78	MP2B	Mx	-.000558	3.13
79	MP2C	X	.639	3.13
80	MP2C	Z	1.106	3.13
81	MP2C	Mx	.000639	3.13
82	MP3A	X	2.186	2
83	MP3A	Z	3.786	2
84	MP3A	Mx	.000729	2
85	MP3B	X	2.186	2
86	MP3B	Z	3.786	2
87	MP3B	Mx	.000729	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
88	MP3C	X	1.593	2
89	MP3C	Z	2.76	2
90	MP3C	Mx	-.001	2
91	MP4A	X	2.11	2
92	MP4A	Z	3.655	2
93	MP4A	Mx	.000703	2
94	MP4B	X	2.11	2
95	MP4B	Z	3.655	2
96	MP4B	Mx	.000703	2
97	MP4C	X	1.291	2
98	MP4C	Z	2.235	2
99	MP4C	Mx	-.00086	2
100	OVP1	X	4.255	1
101	OVP1	Z	7.37	1
102	OVP1	Mx	0	1
103	OVP2	X	4.255	1
104	OVP2	Z	7.37	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	.25
2	MP3A	Z	10.401	.25
3	MP3A	Mx	.006	.25
4	MP3A	X	0	6
5	MP3A	Z	10.401	6
6	MP3A	Mx	.006	6
7	MP3B	X	0	.25
8	MP3B	Z	7.759	.25
9	MP3B	Mx	-.006	.25
10	MP3B	X	0	6
11	MP3B	Z	7.759	6
12	MP3B	Mx	-.006	6
13	MP3C	X	0	.25
14	MP3C	Z	7.759	.25
15	MP3C	Mx	.001	.25
16	MP3C	X	0	6
17	MP3C	Z	7.759	6
18	MP3C	Mx	.001	6
19	MP3A	X	0	.25
20	MP3A	Z	10.401	.25
21	MP3A	Mx	-.006	.25
22	MP3A	X	0	6
23	MP3A	Z	10.401	6
24	MP3A	Mx	-.006	6
25	MP3B	X	0	.25
26	MP3B	Z	7.759	.25
27	MP3B	Mx	-.001	.25
28	MP3B	X	0	6
29	MP3B	Z	7.759	6
30	MP3B	Mx	-.001	6
31	MP3C	X	0	.25
32	MP3C	Z	7.759	.25
33	MP3C	Mx	.006	.25
34	MP3C	X	0	6
35	MP3C	Z	7.759	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
36	MP3C	Mx	.006	6
37	MP1A	X	0	.25
38	MP1A	Z	7.342	.25
39	MP1A	Mx	0	.25
40	MP1A	X	0	6
41	MP1A	Z	7.342	6
42	MP1A	Mx	0	6
43	MP1B	X	0	.25
44	MP1B	Z	6.196	.25
45	MP1B	Mx	-.003	.25
46	MP1B	X	0	6
47	MP1B	Z	6.196	6
48	MP1B	Mx	-.003	6
49	MP1C	X	0	.25
50	MP1C	Z	6.196	.25
51	MP1C	Mx	.003	.25
52	MP1C	X	0	6
53	MP1C	Z	6.196	6
54	MP1C	Mx	.003	6
55	MP4A	X	0	2.13
56	MP4A	Z	5.991	2.13
57	MP4A	Mx	0	2.13
58	MP4A	X	0	4.13
59	MP4A	Z	5.991	4.13
60	MP4A	Mx	0	4.13
61	MP4B	X	0	2.13
62	MP4B	Z	3.257	2.13
63	MP4B	Mx	-.001	2.13
64	MP4B	X	0	4.13
65	MP4B	Z	3.257	4.13
66	MP4B	Mx	-.001	4.13
67	MP4C	X	0	2.13
68	MP4C	Z	3.257	2.13
69	MP4C	Mx	.001	2.13
70	MP4C	X	0	4.13
71	MP4C	Z	3.257	4.13
72	MP4C	Mx	.001	4.13
73	MP2A	X	0	3.13
74	MP2A	Z	2.549	3.13
75	MP2A	Mx	0	3.13
76	MP2B	X	0	3.13
77	MP2B	Z	1.595	3.13
78	MP2B	Mx	-.000691	3.13
79	MP2C	X	0	3.13
80	MP2C	Z	1.595	3.13
81	MP2C	Mx	.000691	3.13
82	MP3A	X	0	2
83	MP3A	Z	4.767	2
84	MP3A	Mx	0	2
85	MP3B	X	0	2
86	MP3B	Z	3.582	2
87	MP3B	Mx	.001	2
88	MP3C	X	0	2
89	MP3C	Z	3.582	2
90	MP3C	Mx	-.001	2
91	MP4A	X	0	2
92	MP4A	Z	4.767	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
93	MP4A	Mx	0	2
94	MP4B	X	0	2
95	MP4B	Z	3.128	2
96	MP4B	Mx	.000903	2
97	MP4C	X	0	2
98	MP4C	Z	3.128	2
99	MP4C	Mx	-.000903	2
100	OVP1	X	0	1
101	OVP1	Z	7.897	1
102	OVP1	Mx	0	1
103	OVP2	X	0	1
104	OVP2	Z	9.737	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-4.76	.25
2	MP3A	Z	8.245	.25
3	MP3A	Mx	.007	.25
4	MP3A	X	-4.76	6
5	MP3A	Z	8.245	6
6	MP3A	Mx	.007	6
7	MP3B	X	-3.439	.25
8	MP3B	Z	5.957	.25
9	MP3B	Mx	-.003	.25
10	MP3B	X	-3.439	6
11	MP3B	Z	5.957	6
12	MP3B	Mx	-.003	6
13	MP3C	X	-4.76	.25
14	MP3C	Z	8.245	.25
15	MP3C	Mx	-.002	.25
16	MP3C	X	-4.76	6
17	MP3C	Z	8.245	6
18	MP3C	Mx	-.002	6
19	MP3A	X	-4.76	.25
20	MP3A	Z	8.245	.25
21	MP3A	Mx	-.002	.25
22	MP3A	X	-4.76	6
23	MP3A	Z	8.245	6
24	MP3A	Mx	-.002	6
25	MP3B	X	-3.439	.25
26	MP3B	Z	5.957	.25
27	MP3B	Mx	-.003	.25
28	MP3B	X	-3.439	6
29	MP3B	Z	5.957	6
30	MP3B	Mx	-.003	6
31	MP3C	X	-4.76	.25
32	MP3C	Z	8.245	.25
33	MP3C	Mx	.007	.25
34	MP3C	X	-4.76	6
35	MP3C	Z	8.245	6
36	MP3C	Mx	.007	6
37	MP1A	X	-3.48	.25
38	MP1A	Z	6.028	.25
39	MP1A	Mx	.002	.25
40	MP1A	X	-3.48	6



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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
41	MP1A	Z	6.028
42	MP1A	Mx	.002
43	MP1B	X	-2.907
44	MP1B	Z	5.035
45	MP1B	Mx	-.003
46	MP1B	X	-2.907
47	MP1B	Z	5.035
48	MP1B	Mx	-.003
49	MP1C	X	-3.48
50	MP1C	Z	6.028
51	MP1C	Mx	.002
52	MP1C	X	-3.48
53	MP1C	Z	6.028
54	MP1C	Mx	.002
55	MP4A	X	-2.54
56	MP4A	Z	4.399
57	MP4A	Mx	.001
58	MP4A	X	-2.54
59	MP4A	Z	4.399
60	MP4A	Mx	.001
61	MP4B	X	-1.173
62	MP4B	Z	2.031
63	MP4B	Mx	-.001
64	MP4B	X	-1.173
65	MP4B	Z	2.031
66	MP4B	Mx	-.001
67	MP4C	X	-2.54
68	MP4C	Z	4.399
69	MP4C	Mx	.001
70	MP4C	X	-2.54
71	MP4C	Z	4.399
72	MP4C	Mx	.001
73	MP2A	X	-1.116
74	MP2A	Z	1.932
75	MP2A	Mx	.000558
76	MP2B	X	-.639
77	MP2B	Z	1.106
78	MP2B	Mx	-.000639
79	MP2C	X	-1.116
80	MP2C	Z	1.932
81	MP2C	Mx	.000558
82	MP3A	X	-2.186
83	MP3A	Z	3.786
84	MP3A	Mx	-.000729
85	MP3B	X	-1.593
86	MP3B	Z	2.76
87	MP3B	Mx	.001
88	MP3C	X	-2.186
89	MP3C	Z	3.786
90	MP3C	Mx	-.000729
91	MP4A	X	-2.11
92	MP4A	Z	3.655
93	MP4A	Mx	-.000703
94	MP4B	X	-1.291
95	MP4B	Z	2.235
96	MP4B	Mx	.00086
97	MP4C	X	-2.11



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
98	MP4C	Z	3.655	2
99	MP4C	Mx	-.000703	2
100	OVP1	X	-4.255	1
101	OVP1	Z	7.37	1
102	OVP1	Mx	0	1
103	OVP2	X	-5.175	1
104	OVP2	Z	8.964	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-6.72	.25
2	MP3A	Z	3.88	.25
3	MP3A	Mx	.006	.25
4	MP3A	X	-6.72	6
5	MP3A	Z	3.88	6
6	MP3A	Mx	.006	6
7	MP3B	X	-6.72	.25
8	MP3B	Z	3.88	.25
9	MP3B	Mx	-.001	.25
10	MP3B	X	-6.72	6
11	MP3B	Z	3.88	6
12	MP3B	Mx	-.001	6
13	MP3C	X	-9.008	.25
14	MP3C	Z	5.201	.25
15	MP3C	Mx	-.006	.25
16	MP3C	X	-9.008	6
17	MP3C	Z	5.201	6
18	MP3C	Mx	-.006	6
19	MP3A	X	-6.72	.25
20	MP3A	Z	3.88	.25
21	MP3A	Mx	.001	.25
22	MP3A	X	-6.72	6
23	MP3A	Z	3.88	6
24	MP3A	Mx	.001	6
25	MP3B	X	-6.72	.25
26	MP3B	Z	3.88	.25
27	MP3B	Mx	-.006	.25
28	MP3B	X	-6.72	6
29	MP3B	Z	3.88	6
30	MP3B	Mx	-.006	6
31	MP3C	X	-9.008	.25
32	MP3C	Z	5.201	.25
33	MP3C	Mx	.006	.25
34	MP3C	X	-9.008	6
35	MP3C	Z	5.201	6
36	MP3C	Mx	.006	6
37	MP1A	X	-5.366	.25
38	MP1A	Z	3.098	.25
39	MP1A	Mx	.003	.25
40	MP1A	X	-5.366	6
41	MP1A	Z	3.098	6
42	MP1A	Mx	.003	6
43	MP1B	X	-5.366	.25
44	MP1B	Z	3.098	.25
45	MP1B	Mx	-.003	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
46	MP1B	X	-5.366	6
47	MP1B	Z	3.098	6
48	MP1B	Mx	-.003	6
49	MP1C	X	-6.359	.25
50	MP1C	Z	3.671	.25
51	MP1C	Mx	0	.25
52	MP1C	X	-6.359	6
53	MP1C	Z	3.671	6
54	MP1C	Mx	0	6
55	MP4A	X	-2.821	2.13
56	MP4A	Z	1.628	2.13
57	MP4A	Mx	.001	2.13
58	MP4A	X	-2.821	4.13
59	MP4A	Z	1.628	4.13
60	MP4A	Mx	.001	4.13
61	MP4B	X	-2.821	2.13
62	MP4B	Z	1.628	2.13
63	MP4B	Mx	-.001	2.13
64	MP4B	X	-2.821	4.13
65	MP4B	Z	1.628	4.13
66	MP4B	Mx	-.001	4.13
67	MP4C	X	-5.188	2.13
68	MP4C	Z	2.996	2.13
69	MP4C	Mx	0	2.13
70	MP4C	X	-5.188	4.13
71	MP4C	Z	2.996	4.13
72	MP4C	Mx	0	4.13
73	MP2A	X	-1.382	3.13
74	MP2A	Z	.798	3.13
75	MP2A	Mx	.000691	3.13
76	MP2B	X	-1.382	3.13
77	MP2B	Z	.798	3.13
78	MP2B	Mx	-.000691	3.13
79	MP2C	X	-2.208	3.13
80	MP2C	Z	1.275	3.13
81	MP2C	Mx	0	3.13
82	MP3A	X	-3.102	2
83	MP3A	Z	1.791	2
84	MP3A	Mx	-.001	2
85	MP3B	X	-3.102	2
86	MP3B	Z	1.791	2
87	MP3B	Mx	.001	2
88	MP3C	X	-4.129	2
89	MP3C	Z	2.384	2
90	MP3C	Mx	0	2
91	MP4A	X	-2.709	2
92	MP4A	Z	1.564	2
93	MP4A	Mx	-.000903	2
94	MP4B	X	-2.709	2
95	MP4B	Z	1.564	2
96	MP4B	Mx	.000903	2
97	MP4C	X	-4.129	2
98	MP4C	Z	2.384	2
99	MP4C	Mx	0	2
100	OVP1	X	-8.433	1
101	OVP1	Z	4.869	1
102	OVP1	Mx	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
103	OVP2	X	-8.433	1
104	OVP2	Z	4.869	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-6.879	.25
2	MP3A	Z	0	.25
3	MP3A	Mx	.003	.25
4	MP3A	X	-6.879	6
5	MP3A	Z	0	6
6	MP3A	Mx	.003	6
7	MP3B	X	-9.521	.25
8	MP3B	Z	0	.25
9	MP3B	Mx	.002	.25
10	MP3B	X	-9.521	6
11	MP3B	Z	0	6
12	MP3B	Mx	.002	6
13	MP3C	X	-9.521	.25
14	MP3C	Z	0	.25
15	MP3C	Mx	-.007	.25
16	MP3C	X	-9.521	6
17	MP3C	Z	0	6
18	MP3C	Mx	-.007	6
19	MP3A	X	-6.879	.25
20	MP3A	Z	0	.25
21	MP3A	Mx	.003	.25
22	MP3A	X	-6.879	6
23	MP3A	Z	0	6
24	MP3A	Mx	.003	6
25	MP3B	X	-9.521	.25
26	MP3B	Z	0	.25
27	MP3B	Mx	-.007	.25
28	MP3B	X	-9.521	6
29	MP3B	Z	0	6
30	MP3B	Mx	-.007	6
31	MP3C	X	-9.521	.25
32	MP3C	Z	0	.25
33	MP3C	Mx	.002	.25
34	MP3C	X	-9.521	6
35	MP3C	Z	0	6
36	MP3C	Mx	.002	6
37	MP1A	X	-5.814	.25
38	MP1A	Z	0	.25
39	MP1A	Mx	.003	.25
40	MP1A	X	-5.814	6
41	MP1A	Z	0	6
42	MP1A	Mx	.003	6
43	MP1B	X	-6.96	.25
44	MP1B	Z	0	.25
45	MP1B	Mx	-.002	.25
46	MP1B	X	-6.96	6
47	MP1B	Z	0	6
48	MP1B	Mx	-.002	6
49	MP1C	X	-6.96	.25
50	MP1C	Z	0	.25

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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
51	MP1C	Mx	.25
52	MP1C	X	6
53	MP1C	Z	6
54	MP1C	Mx	6
55	MP4A	X	2.13
56	MP4A	Z	2.13
57	MP4A	Mx	2.13
58	MP4A	X	4.13
59	MP4A	Z	4.13
60	MP4A	Mx	4.13
61	MP4B	X	2.13
62	MP4B	Z	2.13
63	MP4B	Mx	2.13
64	MP4B	X	4.13
65	MP4B	Z	4.13
66	MP4B	Mx	4.13
67	MP4C	X	2.13
68	MP4C	Z	2.13
69	MP4C	Mx	2.13
70	MP4C	X	4.13
71	MP4C	Z	4.13
72	MP4C	Mx	4.13
73	MP2A	X	3.13
74	MP2A	Z	3.13
75	MP2A	Mx	3.13
76	MP2B	X	3.13
77	MP2B	Z	3.13
78	MP2B	Mx	3.13
79	MP2C	X	3.13
80	MP2C	Z	3.13
81	MP2C	Mx	3.13
82	MP3A	X	2
83	MP3A	Z	2
84	MP3A	Mx	2
85	MP3B	X	2
86	MP3B	Z	2
87	MP3B	Mx	2
88	MP3C	X	2
89	MP3C	Z	2
90	MP3C	Mx	2
91	MP4A	X	2
92	MP4A	Z	2
93	MP4A	Mx	2
94	MP4B	X	2
95	MP4B	Z	2
96	MP4B	Mx	2
97	MP4C	X	2
98	MP4C	Z	2
99	MP4C	Mx	2
100	OVP1	X	1
101	OVP1	Z	1
102	OVP1	Mx	1
103	OVP2	X	1
104	OVP2	Z	1
105	OVP2	Mx	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-6.72	.25
2	MP3A	Z	-3.88	.25
3	MP3A	Mx	.001	.25
4	MP3A	X	-6.72	6
5	MP3A	Z	-3.88	6
6	MP3A	Mx	.001	6
7	MP3B	X	-9.008	.25
8	MP3B	Z	-5.201	.25
9	MP3B	Mx	.006	.25
10	MP3B	X	-9.008	6
11	MP3B	Z	-5.201	6
12	MP3B	Mx	.006	6
13	MP3C	X	-6.72	.25
14	MP3C	Z	-3.88	.25
15	MP3C	Mx	-.006	.25
16	MP3C	X	-6.72	6
17	MP3C	Z	-3.88	6
18	MP3C	Mx	-.006	6
19	MP3A	X	-6.72	.25
20	MP3A	Z	-3.88	.25
21	MP3A	Mx	.006	.25
22	MP3A	X	-6.72	6
23	MP3A	Z	-3.88	6
24	MP3A	Mx	.006	6
25	MP3B	X	-9.008	.25
26	MP3B	Z	-5.201	.25
27	MP3B	Mx	-.006	.25
28	MP3B	X	-9.008	6
29	MP3B	Z	-5.201	6
30	MP3B	Mx	-.006	6
31	MP3C	X	-6.72	.25
32	MP3C	Z	-3.88	.25
33	MP3C	Mx	-.001	.25
34	MP3C	X	-6.72	6
35	MP3C	Z	-3.88	6
36	MP3C	Mx	-.001	6
37	MP1A	X	-5.366	.25
38	MP1A	Z	-3.098	.25
39	MP1A	Mx	.003	.25
40	MP1A	X	-5.366	6
41	MP1A	Z	-3.098	6
42	MP1A	Mx	.003	6
43	MP1B	X	-6.359	.25
44	MP1B	Z	-3.671	.25
45	MP1B	Mx	0	.25
46	MP1B	X	-6.359	6
47	MP1B	Z	-3.671	6
48	MP1B	Mx	0	6
49	MP1C	X	-5.366	.25
50	MP1C	Z	-3.098	.25
51	MP1C	Mx	-.003	.25
52	MP1C	X	-5.366	6
53	MP1C	Z	-3.098	6
54	MP1C	Mx	-.003	6
55	MP4A	X	-2.821	2.13
56	MP4A	Z	-1.628	2.13
57	MP4A	Mx	.001	2.13



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP4A	X	-2.821	4.13
59	MP4A	Z	-1.628	4.13
60	MP4A	Mx	.001	4.13
61	MP4B	X	-5.188	2.13
62	MP4B	Z	-2.996	2.13
63	MP4B	Mx	0	2.13
64	MP4B	X	-5.188	4.13
65	MP4B	Z	-2.996	4.13
66	MP4B	Mx	0	4.13
67	MP4C	X	-2.821	2.13
68	MP4C	Z	-1.628	2.13
69	MP4C	Mx	-.001	2.13
70	MP4C	X	-2.821	4.13
71	MP4C	Z	-1.628	4.13
72	MP4C	Mx	-.001	4.13
73	MP2A	X	-1.382	3.13
74	MP2A	Z	-.798	3.13
75	MP2A	Mx	.000691	3.13
76	MP2B	X	-2.208	3.13
77	MP2B	Z	-1.275	3.13
78	MP2B	Mx	0	3.13
79	MP2C	X	-1.382	3.13
80	MP2C	Z	-.798	3.13
81	MP2C	Mx	-.000691	3.13
82	MP3A	X	-3.102	2
83	MP3A	Z	-1.791	2
84	MP3A	Mx	-.001	2
85	MP3B	X	-4.129	2
86	MP3B	Z	-2.384	2
87	MP3B	Mx	0	2
88	MP3C	X	-3.102	2
89	MP3C	Z	-1.791	2
90	MP3C	Mx	.001	2
91	MP4A	X	-2.709	2
92	MP4A	Z	-1.564	2
93	MP4A	Mx	-.000903	2
94	MP4B	X	-4.129	2
95	MP4B	Z	-2.384	2
96	MP4B	Mx	0	2
97	MP4C	X	-2.709	2
98	MP4C	Z	-1.564	2
99	MP4C	Mx	.000903	2
100	OVP1	X	-8.433	1
101	OVP1	Z	-4.869	1
102	OVP1	Mx	0	1
103	OVP2	X	-6.839	1
104	OVP2	Z	-3.948	1
105	OVP2	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-4.76	.25
2	MP3A	Z	-8.245	.25
3	MP3A	Mx	-.002	.25
4	MP3A	X	-4.76	6
5	MP3A	Z	-8.245	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
6	MP3A	Mx	-0.002	6
7	MP3B	X	-4.76	.25
8	MP3B	Z	-8.245	.25
9	MP3B	Mx	.007	.25
10	MP3B	X	-4.76	6
11	MP3B	Z	-8.245	6
12	MP3B	Mx	.007	6
13	MP3C	X	-3.439	.25
14	MP3C	Z	-5.957	.25
15	MP3C	Mx	-.003	.25
16	MP3C	X	-3.439	6
17	MP3C	Z	-5.957	6
18	MP3C	Mx	-.003	6
19	MP3A	X	-4.76	.25
20	MP3A	Z	-8.245	.25
21	MP3A	Mx	.007	.25
22	MP3A	X	-4.76	6
23	MP3A	Z	-8.245	6
24	MP3A	Mx	.007	6
25	MP3B	X	-4.76	.25
26	MP3B	Z	-8.245	.25
27	MP3B	Mx	-.002	.25
28	MP3B	X	-4.76	6
29	MP3B	Z	-8.245	6
30	MP3B	Mx	-.002	6
31	MP3C	X	-3.439	.25
32	MP3C	Z	-5.957	.25
33	MP3C	Mx	-.003	.25
34	MP3C	X	-3.439	6
35	MP3C	Z	-5.957	6
36	MP3C	Mx	-.003	6
37	MP1A	X	-3.48	.25
38	MP1A	Z	-6.028	.25
39	MP1A	Mx	.002	.25
40	MP1A	X	-3.48	6
41	MP1A	Z	-6.028	6
42	MP1A	Mx	.002	6
43	MP1B	X	-3.48	.25
44	MP1B	Z	-6.028	.25
45	MP1B	Mx	.002	.25
46	MP1B	X	-3.48	6
47	MP1B	Z	-6.028	6
48	MP1B	Mx	.002	6
49	MP1C	X	-2.907	.25
50	MP1C	Z	-5.035	.25
51	MP1C	Mx	-.003	.25
52	MP1C	X	-2.907	6
53	MP1C	Z	-5.035	6
54	MP1C	Mx	-.003	6
55	MP4A	X	-2.54	2.13
56	MP4A	Z	-4.399	2.13
57	MP4A	Mx	.001	2.13
58	MP4A	X	-2.54	4.13
59	MP4A	Z	-4.399	4.13
60	MP4A	Mx	.001	4.13
61	MP4B	X	-2.54	2.13
62	MP4B	Z	-4.399	2.13



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
63	MP4B	Mx	.001	2.13
64	MP4B	X	-2.54	4.13
65	MP4B	Z	-4.399	4.13
66	MP4B	Mx	.001	4.13
67	MP4C	X	-1.173	2.13
68	MP4C	Z	-2.031	2.13
69	MP4C	Mx	-.001	2.13
70	MP4C	X	-1.173	4.13
71	MP4C	Z	-2.031	4.13
72	MP4C	Mx	-.001	4.13
73	MP2A	X	-1.116	3.13
74	MP2A	Z	-1.932	3.13
75	MP2A	Mx	.000558	3.13
76	MP2B	X	-1.116	3.13
77	MP2B	Z	-1.932	3.13
78	MP2B	Mx	.000558	3.13
79	MP2C	X	-.639	3.13
80	MP2C	Z	-1.106	3.13
81	MP2C	Mx	-.000639	3.13
82	MP3A	X	-2.186	2
83	MP3A	Z	-3.786	2
84	MP3A	Mx	-.000729	2
85	MP3B	X	-2.186	2
86	MP3B	Z	-3.786	2
87	MP3B	Mx	-.000729	2
88	MP3C	X	-1.593	2
89	MP3C	Z	-2.76	2
90	MP3C	Mx	.001	2
91	MP4A	X	-2.11	2
92	MP4A	Z	-3.655	2
93	MP4A	Mx	-.000703	2
94	MP4B	X	-2.11	2
95	MP4B	Z	-3.655	2
96	MP4B	Mx	-.000703	2
97	MP4C	X	-1.291	2
98	MP4C	Z	-2.235	2
99	MP4C	Mx	.00086	2
100	OVP1	X	-4.255	1
101	OVP1	Z	-7.37	1
102	OVP1	Mx	0	1
103	OVP2	X	-4.255	1
104	OVP2	Z	-7.37	1
105	OVP2	Mx	0	1

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	M30	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	M32	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

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



Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	M1	Y	-250	%50

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft. ...]	End Magnitude[lb/ft. F...]	Start Location[ft. %]	End Location[ft. %]
1	M1	Y	-10.796	-10.796	0	%100
2	M4	Y	-15.274	-15.274	0	%100
3	M10	Y	-15.274	-15.274	0	%100
4	MP1A	Y	-9.498	-9.498	0	%100
5	M43	Y	-15.274	-15.274	0	%100
6	M46	Y	-16.029	-16.029	0	%100
7	M51B	Y	-9.401	-9.401	0	%100
8	M52B	Y	-9.401	-9.401	0	%100
9	M76	Y	-16.011	-16.011	0	%100
10	M77	Y	-16.011	-16.011	0	%100
11	M80	Y	-16.029	-16.029	0	%100
12	M84	Y	-16.011	-16.011	0	%100
13	M85	Y	-16.011	-16.011	0	%100
14	M91	Y	-16.029	-16.029	0	%100
15	MP2A	Y	-9.498	-9.498	0	%100
16	MP4A	Y	-9.498	-9.498	0	%100
17	MP3A	Y	-9.498	-9.498	0	%100
18	M34	Y	-10.796	-10.796	0	%100
19	M35	Y	-15.274	-15.274	0	%100
20	M36	Y	-15.274	-15.274	0	%100
21	MP1C	Y	-9.498	-9.498	0	%100
22	M39	Y	-15.274	-15.274	0	%100
23	M40	Y	-16.029	-16.029	0	%100
24	M43A	Y	-9.401	-9.401	0	%100
25	M44	Y	-9.401	-9.401	0	%100
26	M48	Y	-16.011	-16.011	0	%100
27	M49	Y	-16.011	-16.011	0	%100
28	M51C	Y	-16.029	-16.029	0	%100
29	M53	Y	-16.011	-16.011	0	%100
30	M54	Y	-16.011	-16.011	0	%100
31	M56	Y	-16.029	-16.029	0	%100
32	MP2C	Y	-9.498	-9.498	0	%100
33	MP4C	Y	-9.498	-9.498	0	%100
34	MP3C	Y	-9.498	-9.498	0	%100
35	M67	Y	-10.796	-10.796	0	%100
36	M68	Y	-15.274	-15.274	0	%100
37	M69	Y	-15.274	-15.274	0	%100
38	MP1B	Y	-9.498	-9.498	0	%100
39	M72	Y	-15.274	-15.274	0	%100
40	M73	Y	-16.029	-16.029	0	%100
41	M76A	Y	-9.401	-9.401	0	%100
42	M77A	Y	-9.401	-9.401	0	%100
43	M81	Y	-16.011	-16.011	0	%100
44	M82	Y	-16.011	-16.011	0	%100
45	M84A	Y	-16.029	-16.029	0	%100
46	M86	Y	-16.011	-16.011	0	%100
47	M87	Y	-16.011	-16.011	0	%100
48	M89	Y	-16.029	-16.029	0	%100
49	MP2B	Y	-9.498	-9.498	0	%100
50	MP4B	Y	-9.498	-9.498	0	%100
51	MP3B	Y	-9.498	-9.498	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
52	M104	Y	-8.46	-8.46	0	%100
53	M109	Y	-8.46	-8.46	0	%100
54	M114	Y	-8.46	-8.46	0	%100
55	M121	Y	-10.869	-10.869	0	%100
56	M122	Y	-10.869	-10.869	0	%100
57	M123	Y	-10.869	-10.869	0	%100
58	OVP1	Y	-9.498	-9.498	0	%100
59	OVP2	Y	-9.498	-9.498	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	-13.751	-13.751	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-11.864	-11.864	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	-11.34	-11.34	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	-11.864	-11.864	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	-23.665	-23.665	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	-3.285	-3.285	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	-3.285	-3.285	0	%100
17	M76	X	0	0	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	-6.026	-6.026	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	-6.347	-6.347	0	%100
23	M84	X	0	0	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	-6.026	-6.026	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	-6.347	-6.347	0	%100
29	MP2A	X	0	0	0	%100
30	MP2A	Z	-11.34	-11.34	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	-11.34	-11.34	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	-11.34	-11.34	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	-3.438	-3.438	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	-10.516	-10.516	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	-2.966	-2.966	0	%100
41	MP1C	X	0	0	0	%100
42	MP1C	Z	-11.34	-11.34	0	%100
43	M39	X	0	0	0	%100
44	M39	Z	-2.966	-2.966	0	%100
45	M40	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, %
46	M40	Z	-5.916	-5.916	0 %100
47	M43A	X	0	0	0 %100
48	M43A	Z	-3.285	-3.285	0 %100
49	M44	X	0	0	0 %100
50	M44	Z	-13.141	-13.141	0 %100
51	M48	X	0	0	0 %100
52	M48	Z	-17.749	-17.749	0 %100
53	M49	X	0	0	0 %100
54	M49	Z	-6.026	-6.026	0 %100
55	M51C	X	0	0	0 %100
56	M51C	Z	-6.347	-6.347	0 %100
57	M53	X	0	0	0 %100
58	M53	Z	-17.749	-17.749	0 %100
59	M54	X	0	0	0 %100
60	M54	Z	-24.103	-24.103	0 %100
61	M56	X	0	0	0 %100
62	M56	Z	-25.387	-25.387	0 %100
63	MP2C	X	0	0	0 %100
64	MP2C	Z	-11.34	-11.34	0 %100
65	MP4C	X	0	0	0 %100
66	MP4C	Z	-11.34	-11.34	0 %100
67	MP3C	X	0	0	0 %100
68	MP3C	Z	-11.34	-11.34	0 %100
69	M67	X	0	0	0 %100
70	M67	Z	-3.438	-3.438	0 %100
71	M68	X	0	0	0 %100
72	M68	Z	-10.516	-10.516	0 %100
73	M69	X	0	0	0 %100
74	M69	Z	-2.966	-2.966	0 %100
75	MP1B	X	0	0	0 %100
76	MP1B	Z	-11.34	-11.34	0 %100
77	M72	X	0	0	0 %100
78	M72	Z	-2.966	-2.966	0 %100
79	M73	X	0	0	0 %100
80	M73	Z	-5.916	-5.916	0 %100
81	M76A	X	0	0	0 %100
82	M76A	Z	-13.141	-13.141	0 %100
83	M77A	X	0	0	0 %100
84	M77A	Z	-3.285	-3.285	0 %100
85	M81	X	0	0	0 %100
86	M81	Z	-17.749	-17.749	0 %100
87	M82	X	0	0	0 %100
88	M82	Z	-24.103	-24.103	0 %100
89	M84A	X	0	0	0 %100
90	M84A	Z	-25.387	-25.387	0 %100
91	M86	X	0	0	0 %100
92	M86	Z	-17.749	-17.749	0 %100
93	M87	X	0	0	0 %100
94	M87	Z	-6.026	-6.026	0 %100
95	M89	X	0	0	0 %100
96	M89	Z	-6.347	-6.347	0 %100
97	MP2B	X	0	0	0 %100
98	MP2B	Z	-11.34	-11.34	0 %100
99	MP4B	X	0	0	0 %100
100	MP4B	Z	-11.34	-11.34	0 %100
101	MP3B	X	0	0	0 %100
102	MP3B	Z	-11.34	-11.34	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, %]
103	M104	X	0	0	0	%100
104	M104	Z	-9.367	-9.367	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	-2.342	-2.342	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	-2.342	-2.342	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	-2.827	-2.827	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	-11.306	-11.306	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	-2.827	-2.827	0	%100
115	OVP1	X	0	0	0	%100
116	OVP1	Z	-8.719	-8.719	0	%100
117	OVP2	X	0	0	0	%100
118	OVP2	Z	-8.719	-8.719	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	5.157	5.157	0	%100
2	M1	Z	-8.931	-8.931	0	%100
3	M4	X	1.753	1.753	0	%100
4	M4	Z	-3.036	-3.036	0	%100
5	M10	X	4.449	4.449	0	%100
6	M10	Z	-7.706	-7.706	0	%100
7	MP1A	X	5.67	5.67	0	%100
8	MP1A	Z	-9.82	-9.82	0	%100
9	M43	X	4.449	4.449	0	%100
10	M43	Z	-7.706	-7.706	0	%100
11	M46	X	8.874	8.874	0	%100
12	M46	Z	-15.371	-15.371	0	%100
13	M51B	X	4.928	4.928	0	%100
14	M51B	Z	-8.535	-8.535	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	2.958	2.958	0	%100
18	M76	Z	-5.124	-5.124	0	%100
19	M77	X	9.039	9.039	0	%100
20	M77	Z	-15.656	-15.656	0	%100
21	M80	X	9.52	9.52	0	%100
22	M80	Z	-16.49	-16.49	0	%100
23	M84	X	2.958	2.958	0	%100
24	M84	Z	-5.124	-5.124	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	0	0	0	%100
29	MP2A	X	5.67	5.67	0	%100
30	MP2A	Z	-9.82	-9.82	0	%100
31	MP4A	X	5.67	5.67	0	%100
32	MP4A	Z	-9.82	-9.82	0	%100
33	MP3A	X	5.67	5.67	0	%100
34	MP3A	Z	-9.82	-9.82	0	%100
35	M34	X	5.157	5.157	0	%100
36	M34	Z	-8.931	-8.931	0	%100
37	M35	X	1.753	1.753	0	%100



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

Member Label	Direction	Start Magnitude lb/ft,...	End Magnitude lb/ft,F...	Start Location ft,%	End Location ft,%
38	M35	Z	-3.036	-3.036	0 %100
39	M36	X	4.449	4.449	0 %100
40	M36	Z	-7.706	-7.706	0 %100
41	MP1C	X	5.67	5.67	0 %100
42	MP1C	Z	-9.82	-9.82	0 %100
43	M39	X	4.449	4.449	0 %100
44	M39	Z	-7.706	-7.706	0 %100
45	M40	X	8.874	8.874	0 %100
46	M40	Z	-15.371	-15.371	0 %100
47	M43A	X	0	0	0 %100
48	M43A	Z	0	0	0 %100
49	M44	X	4.928	4.928	0 %100
50	M44	Z	-8.535	-8.535	0 %100
51	M48	X	2.958	2.958	0 %100
52	M48	Z	-5.124	-5.124	0 %100
53	M49	X	0	0	0 %100
54	M49	Z	0	0	0 %100
55	M51C	X	0	0	0 %100
56	M51C	Z	0	0	0 %100
57	M53	X	2.958	2.958	0 %100
58	M53	Z	-5.124	-5.124	0 %100
59	M54	X	9.039	9.039	0 %100
60	M54	Z	-15.656	-15.656	0 %100
61	M56	X	9.52	9.52	0 %100
62	M56	Z	-16.49	-16.49	0 %100
63	MP2C	X	5.67	5.67	0 %100
64	MP2C	Z	-9.82	-9.82	0 %100
65	MP4C	X	5.67	5.67	0 %100
66	MP4C	Z	-9.82	-9.82	0 %100
67	MP3C	X	5.67	5.67	0 %100
68	MP3C	Z	-9.82	-9.82	0 %100
69	M67	X	0	0	0 %100
70	M67	Z	0	0	0 %100
71	M68	X	7.011	7.011	0 %100
72	M68	Z	-12.143	-12.143	0 %100
73	M69	X	0	0	0 %100
74	M69	Z	0	0	0 %100
75	MP1B	X	5.67	5.67	0 %100
76	MP1B	Z	-9.82	-9.82	0 %100
77	M72	X	0	0	0 %100
78	M72	Z	0	0	0 %100
79	M73	X	0	0	0 %100
80	M73	Z	0	0	0 %100
81	M76A	X	4.928	4.928	0 %100
82	M76A	Z	-8.535	-8.535	0 %100
83	M77A	X	4.928	4.928	0 %100
84	M77A	Z	-8.535	-8.535	0 %100
85	M81	X	11.833	11.833	0 %100
86	M81	Z	-20.495	-20.495	0 %100
87	M82	X	9.039	9.039	0 %100
88	M82	Z	-15.656	-15.656	0 %100
89	M84A	X	9.52	9.52	0 %100
90	M84A	Z	-16.49	-16.49	0 %100
91	M86	X	11.833	11.833	0 %100
92	M86	Z	-20.495	-20.495	0 %100
93	M87	X	9.039	9.039	0 %100
94	M87	Z	-15.656	-15.656	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
95	M89	X	9.52	9.52	0	%100
96	M89	Z	-16.49	-16.49	0	%100
97	MP2B	X	5.67	5.67	0	%100
98	MP2B	Z	-9.82	-9.82	0	%100
99	MP4B	X	5.67	5.67	0	%100
100	MP4B	Z	-9.82	-9.82	0	%100
101	MP3B	X	5.67	5.67	0	%100
102	MP3B	Z	-9.82	-9.82	0	%100
103	M104	X	3.513	3.513	0	%100
104	M104	Z	-6.084	-6.084	0	%100
105	M109	X	3.513	3.513	0	%100
106	M109	Z	-6.084	-6.084	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	0	0	0	%100
109	M121	X	4.24	4.24	0	%100
110	M121	Z	-7.344	-7.344	0	%100
111	M122	X	4.24	4.24	0	%100
112	M122	Z	-7.344	-7.344	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	0	0	0	%100
115	OVP1	X	4.36	4.36	0	%100
116	OVP1	Z	-7.551	-7.551	0	%100
117	OVP2	X	4.36	4.36	0	%100
118	OVP2	Z	-7.551	-7.551	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	2.977	2.977	0	%100
2	M1	Z	-1.719	-1.719	0	%100
3	M4	X	9.107	9.107	0	%100
4	M4	Z	-5.258	-5.258	0	%100
5	M10	X	2.569	2.569	0	%100
6	M10	Z	-1.483	-1.483	0	%100
7	MP1A	X	9.82	9.82	0	%100
8	MP1A	Z	-5.67	-5.67	0	%100
9	M43	X	2.569	2.569	0	%100
10	M43	Z	-1.483	-1.483	0	%100
11	M46	X	5.124	5.124	0	%100
12	M46	Z	-2.958	-2.958	0	%100
13	M51B	X	11.38	11.38	0	%100
14	M51B	Z	-6.57	-6.57	0	%100
15	M52B	X	2.845	2.845	0	%100
16	M52B	Z	-1.643	-1.643	0	%100
17	M76	X	15.371	15.371	0	%100
18	M76	Z	-8.874	-8.874	0	%100
19	M77	X	20.874	20.874	0	%100
20	M77	Z	-12.052	-12.052	0	%100
21	M80	X	21.986	21.986	0	%100
22	M80	Z	-12.694	-12.694	0	%100
23	M84	X	15.371	15.371	0	%100
24	M84	Z	-8.874	-8.874	0	%100
25	M85	X	5.219	5.219	0	%100
26	M85	Z	-3.013	-3.013	0	%100
27	M91	X	5.497	5.497	0	%100
28	M91	Z	-3.173	-3.173	0	%100
29	MP2A	X	9.82	9.82	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
30	MP2A	Z	-5.67	-5.67	0 %100
31	MP4A	X	9.82	9.82	0 %100
32	MP4A	Z	-5.67	-5.67	0 %100
33	MP3A	X	9.82	9.82	0 %100
34	MP3A	Z	-5.67	-5.67	0 %100
35	M34	X	11.909	11.909	0 %100
36	M34	Z	-6.875	-6.875	0 %100
37	M35	X	0	0	0 %100
38	M35	Z	0	0	0 %100
39	M36	X	10.275	10.275	0 %100
40	M36	Z	-5.932	-5.932	0 %100
41	MP1C	X	9.82	9.82	0 %100
42	MP1C	Z	-5.67	-5.67	0 %100
43	M39	X	10.275	10.275	0 %100
44	M39	Z	-5.932	-5.932	0 %100
45	M40	X	20.495	20.495	0 %100
46	M40	Z	-11.833	-11.833	0 %100
47	M43A	X	2.845	2.845	0 %100
48	M43A	Z	-1.643	-1.643	0 %100
49	M44	X	2.845	2.845	0 %100
50	M44	Z	-1.643	-1.643	0 %100
51	M48	X	0	0	0 %100
52	M48	Z	0	0	0 %100
53	M49	X	5.219	5.219	0 %100
54	M49	Z	-3.013	-3.013	0 %100
55	M51C	X	5.497	5.497	0 %100
56	M51C	Z	-3.173	-3.173	0 %100
57	M53	X	0	0	0 %100
58	M53	Z	0	0	0 %100
59	M54	X	5.219	5.219	0 %100
60	M54	Z	-3.013	-3.013	0 %100
61	M56	X	5.497	5.497	0 %100
62	M56	Z	-3.173	-3.173	0 %100
63	MP2C	X	9.82	9.82	0 %100
64	MP2C	Z	-5.67	-5.67	0 %100
65	MP4C	X	9.82	9.82	0 %100
66	MP4C	Z	-5.67	-5.67	0 %100
67	MP3C	X	9.82	9.82	0 %100
68	MP3C	Z	-5.67	-5.67	0 %100
69	M67	X	2.977	2.977	0 %100
70	M67	Z	-1.719	-1.719	0 %100
71	M68	X	9.107	9.107	0 %100
72	M68	Z	-5.258	-5.258	0 %100
73	M69	X	2.569	2.569	0 %100
74	M69	Z	-1.483	-1.483	0 %100
75	MP1B	X	9.82	9.82	0 %100
76	MP1B	Z	-5.67	-5.67	0 %100
77	M72	X	2.569	2.569	0 %100
78	M72	Z	-1.483	-1.483	0 %100
79	M73	X	5.124	5.124	0 %100
80	M73	Z	-2.958	-2.958	0 %100
81	M76A	X	2.845	2.845	0 %100
82	M76A	Z	-1.643	-1.643	0 %100
83	M77A	X	11.38	11.38	0 %100
84	M77A	Z	-6.57	-6.57	0 %100
85	M81	X	15.371	15.371	0 %100
86	M81	Z	-8.874	-8.874	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
87	M82	X	5.219	5.219	0	%100
88	M82	Z	-3.013	-3.013	0	%100
89	M84A	X	5.497	5.497	0	%100
90	M84A	Z	-3.173	-3.173	0	%100
91	M86	X	15.371	15.371	0	%100
92	M86	Z	-8.874	-8.874	0	%100
93	M87	X	20.874	20.874	0	%100
94	M87	Z	-12.052	-12.052	0	%100
95	M89	X	21.986	21.986	0	%100
96	M89	Z	-12.694	-12.694	0	%100
97	MP2B	X	9.82	9.82	0	%100
98	MP2B	Z	-5.67	-5.67	0	%100
99	MP4B	X	9.82	9.82	0	%100
100	MP4B	Z	-5.67	-5.67	0	%100
101	MP3B	X	9.82	9.82	0	%100
102	MP3B	Z	-5.67	-5.67	0	%100
103	M104	X	2.028	2.028	0	%100
104	M104	Z	-1.171	-1.171	0	%100
105	M109	X	8.112	8.112	0	%100
106	M109	Z	-4.684	-4.684	0	%100
107	M114	X	2.028	2.028	0	%100
108	M114	Z	-1.171	-1.171	0	%100
109	M121	X	9.792	9.792	0	%100
110	M121	Z	-5.653	-5.653	0	%100
111	M122	X	2.448	2.448	0	%100
112	M122	Z	-1.413	-1.413	0	%100
113	M123	X	2.448	2.448	0	%100
114	M123	Z	-1.413	-1.413	0	%100
115	OVP1	X	7.551	7.551	0	%100
116	OVP1	Z	-4.36	-4.36	0	%100
117	OVP2	X	7.551	7.551	0	%100
118	OVP2	Z	-4.36	-4.36	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	14.021	14.021	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP1A	X	11.34	11.34	0	%100
8	MP1A	Z	0	0	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	0	0	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	0	0	0	%100
13	M51B	X	9.856	9.856	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	9.856	9.856	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	23.665	23.665	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	18.077	18.077	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	19.041	19.041	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
22	M80	Z	0	0	0	%100
23	M84	X	23.665	23.665	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	18.077	18.077	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	19.041	19.041	0	%100
28	M91	Z	0	0	0	%100
29	MP2A	X	11.34	11.34	0	%100
30	MP2A	Z	0	0	0	%100
31	MP4A	X	11.34	11.34	0	%100
32	MP4A	Z	0	0	0	%100
33	MP3A	X	11.34	11.34	0	%100
34	MP3A	Z	0	0	0	%100
35	M34	X	10.313	10.313	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	3.505	3.505	0	%100
38	M35	Z	0	0	0	%100
39	M36	X	8.898	8.898	0	%100
40	M36	Z	0	0	0	%100
41	MP1C	X	11.34	11.34	0	%100
42	MP1C	Z	0	0	0	%100
43	M39	X	8.898	8.898	0	%100
44	M39	Z	0	0	0	%100
45	M40	X	17.749	17.749	0	%100
46	M40	Z	0	0	0	%100
47	M43A	X	9.856	9.856	0	%100
48	M43A	Z	0	0	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	0	0	0	%100
51	M48	X	5.916	5.916	0	%100
52	M48	Z	0	0	0	%100
53	M49	X	18.077	18.077	0	%100
54	M49	Z	0	0	0	%100
55	M51C	X	19.041	19.041	0	%100
56	M51C	Z	0	0	0	%100
57	M53	X	5.916	5.916	0	%100
58	M53	Z	0	0	0	%100
59	M54	X	0	0	0	%100
60	M54	Z	0	0	0	%100
61	M56	X	0	0	0	%100
62	M56	Z	0	0	0	%100
63	MP2C	X	11.34	11.34	0	%100
64	MP2C	Z	0	0	0	%100
65	MP4C	X	11.34	11.34	0	%100
66	MP4C	Z	0	0	0	%100
67	MP3C	X	11.34	11.34	0	%100
68	MP3C	Z	0	0	0	%100
69	M67	X	10.313	10.313	0	%100
70	M67	Z	0	0	0	%100
71	M68	X	3.505	3.505	0	%100
72	M68	Z	0	0	0	%100
73	M69	X	8.898	8.898	0	%100
74	M69	Z	0	0	0	%100
75	MP1B	X	11.34	11.34	0	%100
76	MP1B	Z	0	0	0	%100
77	M72	X	8.898	8.898	0	%100
78	M72	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
79	M73	X	17.749	17.749	0	%100
80	M73	Z	0	0	0	%100
81	M76A	X	0	0	0	%100
82	M76A	Z	0	0	0	%100
83	M77A	X	9.856	9.856	0	%100
84	M77A	Z	0	0	0	%100
85	M81	X	5.916	5.916	0	%100
86	M81	Z	0	0	0	%100
87	M82	X	0	0	0	%100
88	M82	Z	0	0	0	%100
89	M84A	X	0	0	0	%100
90	M84A	Z	0	0	0	%100
91	M86	X	5.916	5.916	0	%100
92	M86	Z	0	0	0	%100
93	M87	X	18.077	18.077	0	%100
94	M87	Z	0	0	0	%100
95	M89	X	19.041	19.041	0	%100
96	M89	Z	0	0	0	%100
97	MP2B	X	11.34	11.34	0	%100
98	MP2B	Z	0	0	0	%100
99	MP4B	X	11.34	11.34	0	%100
100	MP4B	Z	0	0	0	%100
101	MP3B	X	11.34	11.34	0	%100
102	MP3B	Z	0	0	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	0	0	0	%100
105	M109	X	7.026	7.026	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	7.026	7.026	0	%100
108	M114	Z	0	0	0	%100
109	M121	X	8.48	8.48	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	8.48	8.48	0	%100
114	M123	Z	0	0	0	%100
115	OVP1	X	8.719	8.719	0	%100
116	OVP1	Z	0	0	0	%100
117	OVP2	X	8.719	8.719	0	%100
118	OVP2	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	2.977	2.977	0	%100
2	M1	Z	1.719	1.719	0	%100
3	M4	X	9.107	9.107	0	%100
4	M4	Z	5.258	5.258	0	%100
5	M10	X	2.569	2.569	0	%100
6	M10	Z	1.483	1.483	0	%100
7	MP1A	X	9.82	9.82	0	%100
8	MP1A	Z	5.67	5.67	0	%100
9	M43	X	2.569	2.569	0	%100
10	M43	Z	1.483	1.483	0	%100
11	M46	X	5.124	5.124	0	%100
12	M46	Z	2.958	2.958	0	%100
13	M51B	X	2.845	2.845	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
14	M51B	Z	1.643	1.643	0	%100
15	M52B	X	11.38	11.38	0	%100
16	M52B	Z	6.57	6.57	0	%100
17	M76	X	15.371	15.371	0	%100
18	M76	Z	8.874	8.874	0	%100
19	M77	X	5.219	5.219	0	%100
20	M77	Z	3.013	3.013	0	%100
21	M80	X	5.497	5.497	0	%100
22	M80	Z	3.173	3.173	0	%100
23	M84	X	15.371	15.371	0	%100
24	M84	Z	8.874	8.874	0	%100
25	M85	X	20.874	20.874	0	%100
26	M85	Z	12.052	12.052	0	%100
27	M91	X	21.986	21.986	0	%100
28	M91	Z	12.694	12.694	0	%100
29	MP2A	X	9.82	9.82	0	%100
30	MP2A	Z	5.67	5.67	0	%100
31	MP4A	X	9.82	9.82	0	%100
32	MP4A	Z	5.67	5.67	0	%100
33	MP3A	X	9.82	9.82	0	%100
34	MP3A	Z	5.67	5.67	0	%100
35	M34	X	2.977	2.977	0	%100
36	M34	Z	1.719	1.719	0	%100
37	M35	X	9.107	9.107	0	%100
38	M35	Z	5.258	5.258	0	%100
39	M36	X	2.569	2.569	0	%100
40	M36	Z	1.483	1.483	0	%100
41	MP1C	X	9.82	9.82	0	%100
42	MP1C	Z	5.67	5.67	0	%100
43	M39	X	2.569	2.569	0	%100
44	M39	Z	1.483	1.483	0	%100
45	M40	X	5.124	5.124	0	%100
46	M40	Z	2.958	2.958	0	%100
47	M43A	X	11.38	11.38	0	%100
48	M43A	Z	6.57	6.57	0	%100
49	M44	X	2.845	2.845	0	%100
50	M44	Z	1.643	1.643	0	%100
51	M48	X	15.371	15.371	0	%100
52	M48	Z	8.874	8.874	0	%100
53	M49	X	20.874	20.874	0	%100
54	M49	Z	12.052	12.052	0	%100
55	M51C	X	21.986	21.986	0	%100
56	M51C	Z	12.694	12.694	0	%100
57	M53	X	15.371	15.371	0	%100
58	M53	Z	8.874	8.874	0	%100
59	M54	X	5.219	5.219	0	%100
60	M54	Z	3.013	3.013	0	%100
61	M56	X	5.497	5.497	0	%100
62	M56	Z	3.173	3.173	0	%100
63	MP2C	X	9.82	9.82	0	%100
64	MP2C	Z	5.67	5.67	0	%100
65	MP4C	X	9.82	9.82	0	%100
66	MP4C	Z	5.67	5.67	0	%100
67	MP3C	X	9.82	9.82	0	%100
68	MP3C	Z	5.67	5.67	0	%100
69	M67	X	11.909	11.909	0	%100
70	M67	Z	6.875	6.875	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
71	M68	X	0	0	0	%100
72	M68	Z	0	0	0	%100
73	M69	X	10.275	10.275	0	%100
74	M69	Z	5.932	5.932	0	%100
75	MP1B	X	9.82	9.82	0	%100
76	MP1B	Z	5.67	5.67	0	%100
77	M72	X	10.275	10.275	0	%100
78	M72	Z	5.932	5.932	0	%100
79	M73	X	20.495	20.495	0	%100
80	M73	Z	11.833	11.833	0	%100
81	M76A	X	2.845	2.845	0	%100
82	M76A	Z	1.643	1.643	0	%100
83	M77A	X	2.845	2.845	0	%100
84	M77A	Z	1.643	1.643	0	%100
85	M81	X	0	0	0	%100
86	M81	Z	0	0	0	%100
87	M82	X	5.219	5.219	0	%100
88	M82	Z	3.013	3.013	0	%100
89	M84A	X	5.497	5.497	0	%100
90	M84A	Z	3.173	3.173	0	%100
91	M86	X	0	0	0	%100
92	M86	Z	0	0	0	%100
93	M87	X	5.219	5.219	0	%100
94	M87	Z	3.013	3.013	0	%100
95	M89	X	5.497	5.497	0	%100
96	M89	Z	3.173	3.173	0	%100
97	MP2B	X	9.82	9.82	0	%100
98	MP2B	Z	5.67	5.67	0	%100
99	MP4B	X	9.82	9.82	0	%100
100	MP4B	Z	5.67	5.67	0	%100
101	MP3B	X	9.82	9.82	0	%100
102	MP3B	Z	5.67	5.67	0	%100
103	M104	X	2.028	2.028	0	%100
104	M104	Z	1.171	1.171	0	%100
105	M109	X	2.028	2.028	0	%100
106	M109	Z	1.171	1.171	0	%100
107	M114	X	8.112	8.112	0	%100
108	M114	Z	4.684	4.684	0	%100
109	M121	X	2.448	2.448	0	%100
110	M121	Z	1.413	1.413	0	%100
111	M122	X	2.448	2.448	0	%100
112	M122	Z	1.413	1.413	0	%100
113	M123	X	9.792	9.792	0	%100
114	M123	Z	5.653	5.653	0	%100
115	OVP1	X	7.551	7.551	0	%100
116	OVP1	Z	4.36	4.36	0	%100
117	OVP2	X	7.551	7.551	0	%100
118	OVP2	Z	4.36	4.36	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	5.157	5.157	0	%100
2	M1	Z	8.931	8.931	0	%100
3	M4	X	1.753	1.753	0	%100
4	M4	Z	3.036	3.036	0	%100
5	M10	X	4.449	4.449	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, %]
6	M10	Z	7.706	7.706	0	%100
7	MP1A	X	5.67	5.67	0	%100
8	MP1A	Z	9.82	9.82	0	%100
9	M43	X	4.449	4.449	0	%100
10	M43	Z	7.706	7.706	0	%100
11	M46	X	8.874	8.874	0	%100
12	M46	Z	15.371	15.371	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	4.928	4.928	0	%100
16	M52B	Z	8.535	8.535	0	%100
17	M76	X	2.958	2.958	0	%100
18	M76	Z	5.124	5.124	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	2.958	2.958	0	%100
24	M84	Z	5.124	5.124	0	%100
25	M85	X	9.039	9.039	0	%100
26	M85	Z	15.656	15.656	0	%100
27	M91	X	9.52	9.52	0	%100
28	M91	Z	16.49	16.49	0	%100
29	MP2A	X	5.67	5.67	0	%100
30	MP2A	Z	9.82	9.82	0	%100
31	MP4A	X	5.67	5.67	0	%100
32	MP4A	Z	9.82	9.82	0	%100
33	MP3A	X	5.67	5.67	0	%100
34	MP3A	Z	9.82	9.82	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	7.011	7.011	0	%100
38	M35	Z	12.143	12.143	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	0	0	0	%100
41	MP1C	X	5.67	5.67	0	%100
42	MP1C	Z	9.82	9.82	0	%100
43	M39	X	0	0	0	%100
44	M39	Z	0	0	0	%100
45	M40	X	0	0	0	%100
46	M40	Z	0	0	0	%100
47	M43A	X	4.928	4.928	0	%100
48	M43A	Z	8.535	8.535	0	%100
49	M44	X	4.928	4.928	0	%100
50	M44	Z	8.535	8.535	0	%100
51	M48	X	11.833	11.833	0	%100
52	M48	Z	20.495	20.495	0	%100
53	M49	X	9.039	9.039	0	%100
54	M49	Z	15.656	15.656	0	%100
55	M51C	X	9.52	9.52	0	%100
56	M51C	Z	16.49	16.49	0	%100
57	M53	X	11.833	11.833	0	%100
58	M53	Z	20.495	20.495	0	%100
59	M54	X	9.039	9.039	0	%100
60	M54	Z	15.656	15.656	0	%100
61	M56	X	9.52	9.52	0	%100
62	M56	Z	16.49	16.49	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, %]
63	MP2C	X	5.67	5.67	0 %100
64	MP2C	Z	9.82	9.82	0 %100
65	MP4C	X	5.67	5.67	0 %100
66	MP4C	Z	9.82	9.82	0 %100
67	MP3C	X	5.67	5.67	0 %100
68	MP3C	Z	9.82	9.82	0 %100
69	M67	X	5.157	5.157	0 %100
70	M67	Z	8.931	8.931	0 %100
71	M68	X	1.753	1.753	0 %100
72	M68	Z	3.036	3.036	0 %100
73	M69	X	4.449	4.449	0 %100
74	M69	Z	7.706	7.706	0 %100
75	MP1B	X	5.67	5.67	0 %100
76	MP1B	Z	9.82	9.82	0 %100
77	M72	X	4.449	4.449	0 %100
78	M72	Z	7.706	7.706	0 %100
79	M73	X	8.874	8.874	0 %100
80	M73	Z	15.371	15.371	0 %100
81	M76A	X	4.928	4.928	0 %100
82	M76A	Z	8.535	8.535	0 %100
83	M77A	X	0	0	0 %100
84	M77A	Z	0	0	0 %100
85	M81	X	2.958	2.958	0 %100
86	M81	Z	5.124	5.124	0 %100
87	M82	X	9.039	9.039	0 %100
88	M82	Z	15.656	15.656	0 %100
89	M84A	X	9.52	9.52	0 %100
90	M84A	Z	16.49	16.49	0 %100
91	M86	X	2.958	2.958	0 %100
92	M86	Z	5.124	5.124	0 %100
93	M87	X	0	0	0 %100
94	M87	Z	0	0	0 %100
95	M89	X	0	0	0 %100
96	M89	Z	0	0	0 %100
97	MP2B	X	5.67	5.67	0 %100
98	MP2B	Z	9.82	9.82	0 %100
99	MP4B	X	5.67	5.67	0 %100
100	MP4B	Z	9.82	9.82	0 %100
101	MP3B	X	5.67	5.67	0 %100
102	MP3B	Z	9.82	9.82	0 %100
103	M104	X	3.513	3.513	0 %100
104	M104	Z	6.084	6.084	0 %100
105	M109	X	0	0	0 %100
106	M109	Z	0	0	0 %100
107	M114	X	3.513	3.513	0 %100
108	M114	Z	6.084	6.084	0 %100
109	M121	X	0	0	0 %100
110	M121	Z	0	0	0 %100
111	M122	X	4.24	4.24	0 %100
112	M122	Z	7.344	7.344	0 %100
113	M123	X	4.24	4.24	0 %100
114	M123	Z	7.344	7.344	0 %100
115	OVP1	X	4.36	4.36	0 %100
116	OVP1	Z	7.551	7.551	0 %100
117	OVP2	X	4.36	4.36	0 %100
118	OVP2	Z	7.551	7.551	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	13.751	13.751	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	11.864	11.864	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	11.34	11.34	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	11.864	11.864	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	23.665	23.665	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	3.285	3.285	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	3.285	3.285	0	%100
17	M76	X	0	0	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	6.026	6.026	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	6.347	6.347	0	%100
23	M84	X	0	0	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	6.026	6.026	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	6.347	6.347	0	%100
29	MP2A	X	0	0	0	%100
30	MP2A	Z	11.34	11.34	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	11.34	11.34	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	11.34	11.34	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	3.438	3.438	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	10.516	10.516	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	2.966	2.966	0	%100
41	MP1C	X	0	0	0	%100
42	MP1C	Z	11.34	11.34	0	%100
43	M39	X	0	0	0	%100
44	M39	Z	2.966	2.966	0	%100
45	M40	X	0	0	0	%100
46	M40	Z	5.916	5.916	0	%100
47	M43A	X	0	0	0	%100
48	M43A	Z	3.285	3.285	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	13.141	13.141	0	%100
51	M48	X	0	0	0	%100
52	M48	Z	17.749	17.749	0	%100
53	M49	X	0	0	0	%100
54	M49	Z	6.026	6.026	0	%100
55	M51C	X	0	0	0	%100
56	M51C	Z	6.347	6.347	0	%100
57	M53	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M53	Z	17.749	17.749	0 %100
59	M54	X	0	0	0 %100
60	M54	Z	24.103	24.103	0 %100
61	M56	X	0	0	0 %100
62	M56	Z	25.387	25.387	0 %100
63	MP2C	X	0	0	0 %100
64	MP2C	Z	11.34	11.34	0 %100
65	MP4C	X	0	0	0 %100
66	MP4C	Z	11.34	11.34	0 %100
67	MP3C	X	0	0	0 %100
68	MP3C	Z	11.34	11.34	0 %100
69	M67	X	0	0	0 %100
70	M67	Z	3.438	3.438	0 %100
71	M68	X	0	0	0 %100
72	M68	Z	10.516	10.516	0 %100
73	M69	X	0	0	0 %100
74	M69	Z	2.966	2.966	0 %100
75	MP1B	X	0	0	0 %100
76	MP1B	Z	11.34	11.34	0 %100
77	M72	X	0	0	0 %100
78	M72	Z	2.966	2.966	0 %100
79	M73	X	0	0	0 %100
80	M73	Z	5.916	5.916	0 %100
81	M76A	X	0	0	0 %100
82	M76A	Z	13.141	13.141	0 %100
83	M77A	X	0	0	0 %100
84	M77A	Z	3.285	3.285	0 %100
85	M81	X	0	0	0 %100
86	M81	Z	17.749	17.749	0 %100
87	M82	X	0	0	0 %100
88	M82	Z	24.103	24.103	0 %100
89	M84A	X	0	0	0 %100
90	M84A	Z	25.387	25.387	0 %100
91	M86	X	0	0	0 %100
92	M86	Z	17.749	17.749	0 %100
93	M87	X	0	0	0 %100
94	M87	Z	6.026	6.026	0 %100
95	M89	X	0	0	0 %100
96	M89	Z	6.347	6.347	0 %100
97	MP2B	X	0	0	0 %100
98	MP2B	Z	11.34	11.34	0 %100
99	MP4B	X	0	0	0 %100
100	MP4B	Z	11.34	11.34	0 %100
101	MP3B	X	0	0	0 %100
102	MP3B	Z	11.34	11.34	0 %100
103	M104	X	0	0	0 %100
104	M104	Z	9.367	9.367	0 %100
105	M109	X	0	0	0 %100
106	M109	Z	2.342	2.342	0 %100
107	M114	X	0	0	0 %100
108	M114	Z	2.342	2.342	0 %100
109	M121	X	0	0	0 %100
110	M121	Z	2.827	2.827	0 %100
111	M122	X	0	0	0 %100
112	M122	Z	11.306	11.306	0 %100
113	M123	X	0	0	0 %100
114	M123	Z	2.827	2.827	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, %]
115	OVP1	X	0	0	0	%100
116	OVP1	Z	8.719	8.719	0	%100
117	OVP2	X	0	0	0	%100
118	OVP2	Z	8.719	8.719	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-5.157	-5.157	0	%100
2	M1	Z	8.931	8.931	0	%100
3	M4	X	-1.753	-1.753	0	%100
4	M4	Z	3.036	3.036	0	%100
5	M10	X	-4.449	-4.449	0	%100
6	M10	Z	7.706	7.706	0	%100
7	MP1A	X	-5.67	-5.67	0	%100
8	MP1A	Z	9.82	9.82	0	%100
9	M43	X	-4.449	-4.449	0	%100
10	M43	Z	7.706	7.706	0	%100
11	M46	X	-8.874	-8.874	0	%100
12	M46	Z	15.371	15.371	0	%100
13	M51B	X	-4.928	-4.928	0	%100
14	M51B	Z	8.535	8.535	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	-2.958	-2.958	0	%100
18	M76	Z	5.124	5.124	0	%100
19	M77	X	-9.039	-9.039	0	%100
20	M77	Z	15.656	15.656	0	%100
21	M80	X	-9.52	-9.52	0	%100
22	M80	Z	16.49	16.49	0	%100
23	M84	X	-2.958	-2.958	0	%100
24	M84	Z	5.124	5.124	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	0	0	0	%100
29	MP2A	X	-5.67	-5.67	0	%100
30	MP2A	Z	9.82	9.82	0	%100
31	MP4A	X	-5.67	-5.67	0	%100
32	MP4A	Z	9.82	9.82	0	%100
33	MP3A	X	-5.67	-5.67	0	%100
34	MP3A	Z	9.82	9.82	0	%100
35	M34	X	-5.157	-5.157	0	%100
36	M34	Z	8.931	8.931	0	%100
37	M35	X	-1.753	-1.753	0	%100
38	M35	Z	3.036	3.036	0	%100
39	M36	X	-4.449	-4.449	0	%100
40	M36	Z	7.706	7.706	0	%100
41	MP1C	X	-5.67	-5.67	0	%100
42	MP1C	Z	9.82	9.82	0	%100
43	M39	X	-4.449	-4.449	0	%100
44	M39	Z	7.706	7.706	0	%100
45	M40	X	-8.874	-8.874	0	%100
46	M40	Z	15.371	15.371	0	%100
47	M43A	X	0	0	0	%100
48	M43A	Z	0	0	0	%100
49	M44	X	-4.928	-4.928	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
50	M44	Z	8.535	8.535	0 %100
51	M48	X	-2.958	-2.958	0 %100
52	M48	Z	5.124	5.124	0 %100
53	M49	X	0	0	0 %100
54	M49	Z	0	0	0 %100
55	M51C	X	0	0	0 %100
56	M51C	Z	0	0	0 %100
57	M53	X	-2.958	-2.958	0 %100
58	M53	Z	5.124	5.124	0 %100
59	M54	X	-9.039	-9.039	0 %100
60	M54	Z	15.656	15.656	0 %100
61	M56	X	-9.52	-9.52	0 %100
62	M56	Z	16.49	16.49	0 %100
63	MP2C	X	-5.67	-5.67	0 %100
64	MP2C	Z	9.82	9.82	0 %100
65	MP4C	X	-5.67	-5.67	0 %100
66	MP4C	Z	9.82	9.82	0 %100
67	MP3C	X	-5.67	-5.67	0 %100
68	MP3C	Z	9.82	9.82	0 %100
69	M67	X	0	0	0 %100
70	M67	Z	0	0	0 %100
71	M68	X	-7.011	-7.011	0 %100
72	M68	Z	12.143	12.143	0 %100
73	M69	X	0	0	0 %100
74	M69	Z	0	0	0 %100
75	MP1B	X	-5.67	-5.67	0 %100
76	MP1B	Z	9.82	9.82	0 %100
77	M72	X	0	0	0 %100
78	M72	Z	0	0	0 %100
79	M73	X	0	0	0 %100
80	M73	Z	0	0	0 %100
81	M76A	X	-4.928	-4.928	0 %100
82	M76A	Z	8.535	8.535	0 %100
83	M77A	X	-4.928	-4.928	0 %100
84	M77A	Z	8.535	8.535	0 %100
85	M81	X	-11.833	-11.833	0 %100
86	M81	Z	20.495	20.495	0 %100
87	M82	X	-9.039	-9.039	0 %100
88	M82	Z	15.656	15.656	0 %100
89	M84A	X	-9.52	-9.52	0 %100
90	M84A	Z	16.49	16.49	0 %100
91	M86	X	-11.833	-11.833	0 %100
92	M86	Z	20.495	20.495	0 %100
93	M87	X	-9.039	-9.039	0 %100
94	M87	Z	15.656	15.656	0 %100
95	M89	X	-9.52	-9.52	0 %100
96	M89	Z	16.49	16.49	0 %100
97	MP2B	X	-5.67	-5.67	0 %100
98	MP2B	Z	9.82	9.82	0 %100
99	MP4B	X	-5.67	-5.67	0 %100
100	MP4B	Z	9.82	9.82	0 %100
101	MP3B	X	-5.67	-5.67	0 %100
102	MP3B	Z	9.82	9.82	0 %100
103	M104	X	-3.513	-3.513	0 %100
104	M104	Z	6.084	6.084	0 %100
105	M109	X	-3.513	-3.513	0 %100
106	M109	Z	6.084	6.084	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
107	M114	X	0	0	0	%100
108	M114	Z	0	0	0	%100
109	M121	X	-4.24	-4.24	0	%100
110	M121	Z	7.344	7.344	0	%100
111	M122	X	-4.24	-4.24	0	%100
112	M122	Z	7.344	7.344	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	0	0	0	%100
115	OVP1	X	-4.36	-4.36	0	%100
116	OVP1	Z	7.551	7.551	0	%100
117	OVP2	X	-4.36	-4.36	0	%100
118	OVP2	Z	7.551	7.551	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-2.977	-2.977	0	%100
2	M1	Z	1.719	1.719	0	%100
3	M4	X	-9.107	-9.107	0	%100
4	M4	Z	5.258	5.258	0	%100
5	M10	X	-2.569	-2.569	0	%100
6	M10	Z	1.483	1.483	0	%100
7	MP1A	X	-9.82	-9.82	0	%100
8	MP1A	Z	5.67	5.67	0	%100
9	M43	X	-2.569	-2.569	0	%100
10	M43	Z	1.483	1.483	0	%100
11	M46	X	-5.124	-5.124	0	%100
12	M46	Z	2.958	2.958	0	%100
13	M51B	X	-11.38	-11.38	0	%100
14	M51B	Z	6.57	6.57	0	%100
15	M52B	X	-2.845	-2.845	0	%100
16	M52B	Z	1.643	1.643	0	%100
17	M76	X	-15.371	-15.371	0	%100
18	M76	Z	8.874	8.874	0	%100
19	M77	X	-20.874	-20.874	0	%100
20	M77	Z	12.052	12.052	0	%100
21	M80	X	-21.986	-21.986	0	%100
22	M80	Z	12.694	12.694	0	%100
23	M84	X	-15.371	-15.371	0	%100
24	M84	Z	8.874	8.874	0	%100
25	M85	X	-5.219	-5.219	0	%100
26	M85	Z	3.013	3.013	0	%100
27	M91	X	-5.497	-5.497	0	%100
28	M91	Z	3.173	3.173	0	%100
29	MP2A	X	-9.82	-9.82	0	%100
30	MP2A	Z	5.67	5.67	0	%100
31	MP4A	X	-9.82	-9.82	0	%100
32	MP4A	Z	5.67	5.67	0	%100
33	MP3A	X	-9.82	-9.82	0	%100
34	MP3A	Z	5.67	5.67	0	%100
35	M34	X	-11.909	-11.909	0	%100
36	M34	Z	6.875	6.875	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	0	0	0	%100
39	M36	X	-10.275	-10.275	0	%100
40	M36	Z	5.932	5.932	0	%100
41	MP1C	X	-9.82	-9.82	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,%]
42	MP1C	Z	5.67	5.67	0	%100
43	M39	X	-10.275	-10.275	0	%100
44	M39	Z	5.932	5.932	0	%100
45	M40	X	-20.495	-20.495	0	%100
46	M40	Z	11.833	11.833	0	%100
47	M43A	X	-2.845	-2.845	0	%100
48	M43A	Z	1.643	1.643	0	%100
49	M44	X	-2.845	-2.845	0	%100
50	M44	Z	1.643	1.643	0	%100
51	M48	X	0	0	0	%100
52	M48	Z	0	0	0	%100
53	M49	X	-5.219	-5.219	0	%100
54	M49	Z	3.013	3.013	0	%100
55	M51C	X	-5.497	-5.497	0	%100
56	M51C	Z	3.173	3.173	0	%100
57	M53	X	0	0	0	%100
58	M53	Z	0	0	0	%100
59	M54	X	-5.219	-5.219	0	%100
60	M54	Z	3.013	3.013	0	%100
61	M56	X	-5.497	-5.497	0	%100
62	M56	Z	3.173	3.173	0	%100
63	MP2C	X	-9.82	-9.82	0	%100
64	MP2C	Z	5.67	5.67	0	%100
65	MP4C	X	-9.82	-9.82	0	%100
66	MP4C	Z	5.67	5.67	0	%100
67	MP3C	X	-9.82	-9.82	0	%100
68	MP3C	Z	5.67	5.67	0	%100
69	M67	X	-2.977	-2.977	0	%100
70	M67	Z	1.719	1.719	0	%100
71	M68	X	-9.107	-9.107	0	%100
72	M68	Z	5.258	5.258	0	%100
73	M69	X	-2.569	-2.569	0	%100
74	M69	Z	1.483	1.483	0	%100
75	MP1B	X	-9.82	-9.82	0	%100
76	MP1B	Z	5.67	5.67	0	%100
77	M72	X	-2.569	-2.569	0	%100
78	M72	Z	1.483	1.483	0	%100
79	M73	X	-5.124	-5.124	0	%100
80	M73	Z	2.958	2.958	0	%100
81	M76A	X	-2.845	-2.845	0	%100
82	M76A	Z	1.643	1.643	0	%100
83	M77A	X	-11.38	-11.38	0	%100
84	M77A	Z	6.57	6.57	0	%100
85	M81	X	-15.371	-15.371	0	%100
86	M81	Z	8.874	8.874	0	%100
87	M82	X	-5.219	-5.219	0	%100
88	M82	Z	3.013	3.013	0	%100
89	M84A	X	-5.497	-5.497	0	%100
90	M84A	Z	3.173	3.173	0	%100
91	M86	X	-15.371	-15.371	0	%100
92	M86	Z	8.874	8.874	0	%100
93	M87	X	-20.874	-20.874	0	%100
94	M87	Z	12.052	12.052	0	%100
95	M89	X	-21.986	-21.986	0	%100
96	M89	Z	12.694	12.694	0	%100
97	MP2B	X	-9.82	-9.82	0	%100
98	MP2B	Z	5.67	5.67	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.%]
99	MP4B	X	-9.82	-9.82	0	%100
100	MP4B	Z	5.67	5.67	0	%100
101	MP3B	X	-9.82	-9.82	0	%100
102	MP3B	Z	5.67	5.67	0	%100
103	M104	X	-2.028	-2.028	0	%100
104	M104	Z	1.171	1.171	0	%100
105	M109	X	-8.112	-8.112	0	%100
106	M109	Z	4.684	4.684	0	%100
107	M114	X	-2.028	-2.028	0	%100
108	M114	Z	1.171	1.171	0	%100
109	M121	X	-9.792	-9.792	0	%100
110	M121	Z	5.653	5.653	0	%100
111	M122	X	-2.448	-2.448	0	%100
112	M122	Z	1.413	1.413	0	%100
113	M123	X	-2.448	-2.448	0	%100
114	M123	Z	1.413	1.413	0	%100
115	OVP1	X	-7.551	-7.551	0	%100
116	OVP1	Z	4.36	4.36	0	%100
117	OVP2	X	-7.551	-7.551	0	%100
118	OVP2	Z	4.36	4.36	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-14.021	-14.021	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP1A	X	-11.34	-11.34	0	%100
8	MP1A	Z	0	0	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	0	0	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	0	0	0	%100
13	M51B	X	-9.856	-9.856	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	-9.856	-9.856	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	-23.665	-23.665	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	-18.077	-18.077	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	-19.041	-19.041	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	-23.665	-23.665	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	-18.077	-18.077	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	-19.041	-19.041	0	%100
28	M91	Z	0	0	0	%100
29	MP2A	X	-11.34	-11.34	0	%100
30	MP2A	Z	0	0	0	%100
31	MP4A	X	-11.34	-11.34	0	%100
32	MP4A	Z	0	0	0	%100
33	MP3A	X	-11.34	-11.34	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
34	MP3A	Z	0	0	0	%100
35	M34	X	-10.313	-10.313	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	-3.505	-3.505	0	%100
38	M35	Z	0	0	0	%100
39	M36	X	-8.898	-8.898	0	%100
40	M36	Z	0	0	0	%100
41	MP1C	X	-11.34	-11.34	0	%100
42	MP1C	Z	0	0	0	%100
43	M39	X	-8.898	-8.898	0	%100
44	M39	Z	0	0	0	%100
45	M40	X	-17.749	-17.749	0	%100
46	M40	Z	0	0	0	%100
47	M43A	X	-9.856	-9.856	0	%100
48	M43A	Z	0	0	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	0	0	0	%100
51	M48	X	-5.916	-5.916	0	%100
52	M48	Z	0	0	0	%100
53	M49	X	-18.077	-18.077	0	%100
54	M49	Z	0	0	0	%100
55	M51C	X	-19.041	-19.041	0	%100
56	M51C	Z	0	0	0	%100
57	M53	X	-5.916	-5.916	0	%100
58	M53	Z	0	0	0	%100
59	M54	X	0	0	0	%100
60	M54	Z	0	0	0	%100
61	M56	X	0	0	0	%100
62	M56	Z	0	0	0	%100
63	MP2C	X	-11.34	-11.34	0	%100
64	MP2C	Z	0	0	0	%100
65	MP4C	X	-11.34	-11.34	0	%100
66	MP4C	Z	0	0	0	%100
67	MP3C	X	-11.34	-11.34	0	%100
68	MP3C	Z	0	0	0	%100
69	M67	X	-10.313	-10.313	0	%100
70	M67	Z	0	0	0	%100
71	M68	X	-3.505	-3.505	0	%100
72	M68	Z	0	0	0	%100
73	M69	X	-8.898	-8.898	0	%100
74	M69	Z	0	0	0	%100
75	MP1B	X	-11.34	-11.34	0	%100
76	MP1B	Z	0	0	0	%100
77	M72	X	-8.898	-8.898	0	%100
78	M72	Z	0	0	0	%100
79	M73	X	-17.749	-17.749	0	%100
80	M73	Z	0	0	0	%100
81	M76A	X	0	0	0	%100
82	M76A	Z	0	0	0	%100
83	M77A	X	-9.856	-9.856	0	%100
84	M77A	Z	0	0	0	%100
85	M81	X	-5.916	-5.916	0	%100
86	M81	Z	0	0	0	%100
87	M82	X	0	0	0	%100
88	M82	Z	0	0	0	%100
89	M84A	X	0	0	0	%100
90	M84A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
91	M86	X	-5.916	-5.916	0	%100
92	M86	Z	0	0	0	%100
93	M87	X	-18.077	-18.077	0	%100
94	M87	Z	0	0	0	%100
95	M89	X	-19.041	-19.041	0	%100
96	M89	Z	0	0	0	%100
97	MP2B	X	-11.34	-11.34	0	%100
98	MP2B	Z	0	0	0	%100
99	MP4B	X	-11.34	-11.34	0	%100
100	MP4B	Z	0	0	0	%100
101	MP3B	X	-11.34	-11.34	0	%100
102	MP3B	Z	0	0	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	0	0	0	%100
105	M109	X	-7.026	-7.026	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	-7.026	-7.026	0	%100
108	M114	Z	0	0	0	%100
109	M121	X	-8.48	-8.48	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	-8.48	-8.48	0	%100
114	M123	Z	0	0	0	%100
115	OVP1	X	-8.719	-8.719	0	%100
116	OVP1	Z	0	0	0	%100
117	OVP2	X	-8.719	-8.719	0	%100
118	OVP2	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-2.977	-2.977	0	%100
2	M1	Z	-1.719	-1.719	0	%100
3	M4	X	-9.107	-9.107	0	%100
4	M4	Z	-5.258	-5.258	0	%100
5	M10	X	-2.569	-2.569	0	%100
6	M10	Z	-1.483	-1.483	0	%100
7	MP1A	X	-9.82	-9.82	0	%100
8	MP1A	Z	-5.67	-5.67	0	%100
9	M43	X	-2.569	-2.569	0	%100
10	M43	Z	-1.483	-1.483	0	%100
11	M46	X	-5.124	-5.124	0	%100
12	M46	Z	-2.958	-2.958	0	%100
13	M51B	X	-2.845	-2.845	0	%100
14	M51B	Z	-1.643	-1.643	0	%100
15	M52B	X	-11.38	-11.38	0	%100
16	M52B	Z	-6.57	-6.57	0	%100
17	M76	X	-15.371	-15.371	0	%100
18	M76	Z	-8.874	-8.874	0	%100
19	M77	X	-5.219	-5.219	0	%100
20	M77	Z	-3.013	-3.013	0	%100
21	M80	X	-5.497	-5.497	0	%100
22	M80	Z	-3.173	-3.173	0	%100
23	M84	X	-15.371	-15.371	0	%100
24	M84	Z	-8.874	-8.874	0	%100
25	M85	X	-20.874	-20.874	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
26	M85	Z	-12.052	-12.052	0 %100
27	M91	X	-21.986	-21.986	0 %100
28	M91	Z	-12.694	-12.694	0 %100
29	MP2A	X	-9.82	-9.82	0 %100
30	MP2A	Z	-5.67	-5.67	0 %100
31	MP4A	X	-9.82	-9.82	0 %100
32	MP4A	Z	-5.67	-5.67	0 %100
33	MP3A	X	-9.82	-9.82	0 %100
34	MP3A	Z	-5.67	-5.67	0 %100
35	M34	X	-2.977	-2.977	0 %100
36	M34	Z	-1.719	-1.719	0 %100
37	M35	X	-9.107	-9.107	0 %100
38	M35	Z	-5.258	-5.258	0 %100
39	M36	X	-2.569	-2.569	0 %100
40	M36	Z	-1.483	-1.483	0 %100
41	MP1C	X	-9.82	-9.82	0 %100
42	MP1C	Z	-5.67	-5.67	0 %100
43	M39	X	-2.569	-2.569	0 %100
44	M39	Z	-1.483	-1.483	0 %100
45	M40	X	-5.124	-5.124	0 %100
46	M40	Z	-2.958	-2.958	0 %100
47	M43A	X	-11.38	-11.38	0 %100
48	M43A	Z	-6.57	-6.57	0 %100
49	M44	X	-2.845	-2.845	0 %100
50	M44	Z	-1.643	-1.643	0 %100
51	M48	X	-15.371	-15.371	0 %100
52	M48	Z	-8.874	-8.874	0 %100
53	M49	X	-20.874	-20.874	0 %100
54	M49	Z	-12.052	-12.052	0 %100
55	M51C	X	-21.986	-21.986	0 %100
56	M51C	Z	-12.694	-12.694	0 %100
57	M53	X	-15.371	-15.371	0 %100
58	M53	Z	-8.874	-8.874	0 %100
59	M54	X	-5.219	-5.219	0 %100
60	M54	Z	-3.013	-3.013	0 %100
61	M56	X	-5.497	-5.497	0 %100
62	M56	Z	-3.173	-3.173	0 %100
63	MP2C	X	-9.82	-9.82	0 %100
64	MP2C	Z	-5.67	-5.67	0 %100
65	MP4C	X	-9.82	-9.82	0 %100
66	MP4C	Z	-5.67	-5.67	0 %100
67	MP3C	X	-9.82	-9.82	0 %100
68	MP3C	Z	-5.67	-5.67	0 %100
69	M67	X	-11.909	-11.909	0 %100
70	M67	Z	-6.875	-6.875	0 %100
71	M68	X	0	0	0 %100
72	M68	Z	0	0	0 %100
73	M69	X	-10.275	-10.275	0 %100
74	M69	Z	-5.932	-5.932	0 %100
75	MP1B	X	-9.82	-9.82	0 %100
76	MP1B	Z	-5.67	-5.67	0 %100
77	M72	X	-10.275	-10.275	0 %100
78	M72	Z	-5.932	-5.932	0 %100
79	M73	X	-20.495	-20.495	0 %100
80	M73	Z	-11.833	-11.833	0 %100
81	M76A	X	-2.845	-2.845	0 %100
82	M76A	Z	-1.643	-1.643	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
83	M77A	X	-2.845	-2.845	0	%100
84	M77A	Z	-1.643	-1.643	0	%100
85	M81	X	0	0	0	%100
86	M81	Z	0	0	0	%100
87	M82	X	-5.219	-5.219	0	%100
88	M82	Z	-3.013	-3.013	0	%100
89	M84A	X	-5.497	-5.497	0	%100
90	M84A	Z	-3.173	-3.173	0	%100
91	M86	X	0	0	0	%100
92	M86	Z	0	0	0	%100
93	M87	X	-5.219	-5.219	0	%100
94	M87	Z	-3.013	-3.013	0	%100
95	M89	X	-5.497	-5.497	0	%100
96	M89	Z	-3.173	-3.173	0	%100
97	MP2B	X	-9.82	-9.82	0	%100
98	MP2B	Z	-5.67	-5.67	0	%100
99	MP4B	X	-9.82	-9.82	0	%100
100	MP4B	Z	-5.67	-5.67	0	%100
101	MP3B	X	-9.82	-9.82	0	%100
102	MP3B	Z	-5.67	-5.67	0	%100
103	M104	X	-2.028	-2.028	0	%100
104	M104	Z	-1.171	-1.171	0	%100
105	M109	X	-2.028	-2.028	0	%100
106	M109	Z	-1.171	-1.171	0	%100
107	M114	X	-8.112	-8.112	0	%100
108	M114	Z	-4.684	-4.684	0	%100
109	M121	X	-2.448	-2.448	0	%100
110	M121	Z	-1.413	-1.413	0	%100
111	M122	X	-2.448	-2.448	0	%100
112	M122	Z	-1.413	-1.413	0	%100
113	M123	X	-9.792	-9.792	0	%100
114	M123	Z	-5.653	-5.653	0	%100
115	OVP1	X	-7.551	-7.551	0	%100
116	OVP1	Z	-4.36	-4.36	0	%100
117	OVP2	X	-7.551	-7.551	0	%100
118	OVP2	Z	-4.36	-4.36	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-5.157	-5.157	0	%100
2	M1	Z	-8.931	-8.931	0	%100
3	M4	X	-1.753	-1.753	0	%100
4	M4	Z	-3.036	-3.036	0	%100
5	M10	X	-4.449	-4.449	0	%100
6	M10	Z	-7.706	-7.706	0	%100
7	MP1A	X	-5.67	-5.67	0	%100
8	MP1A	Z	-9.82	-9.82	0	%100
9	M43	X	-4.449	-4.449	0	%100
10	M43	Z	-7.706	-7.706	0	%100
11	M46	X	-8.874	-8.874	0	%100
12	M46	Z	-15.371	-15.371	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	-4.928	-4.928	0	%100
16	M52B	Z	-8.535	-8.535	0	%100
17	M76	X	-2.958	-2.958	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
18	M76	Z	-5.124	-5.124	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	-2.958	-2.958	0	%100
24	M84	Z	-5.124	-5.124	0	%100
25	M85	X	-9.039	-9.039	0	%100
26	M85	Z	-15.656	-15.656	0	%100
27	M91	X	-9.52	-9.52	0	%100
28	M91	Z	-16.49	-16.49	0	%100
29	MP2A	X	-5.67	-5.67	0	%100
30	MP2A	Z	-9.82	-9.82	0	%100
31	MP4A	X	-5.67	-5.67	0	%100
32	MP4A	Z	-9.82	-9.82	0	%100
33	MP3A	X	-5.67	-5.67	0	%100
34	MP3A	Z	-9.82	-9.82	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	-7.011	-7.011	0	%100
38	M35	Z	-12.143	-12.143	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	0	0	0	%100
41	MP1C	X	-5.67	-5.67	0	%100
42	MP1C	Z	-9.82	-9.82	0	%100
43	M39	X	0	0	0	%100
44	M39	Z	0	0	0	%100
45	M40	X	0	0	0	%100
46	M40	Z	0	0	0	%100
47	M43A	X	-4.928	-4.928	0	%100
48	M43A	Z	-8.535	-8.535	0	%100
49	M44	X	-4.928	-4.928	0	%100
50	M44	Z	-8.535	-8.535	0	%100
51	M48	X	-11.833	-11.833	0	%100
52	M48	Z	-20.495	-20.495	0	%100
53	M49	X	-9.039	-9.039	0	%100
54	M49	Z	-15.656	-15.656	0	%100
55	M51C	X	-9.52	-9.52	0	%100
56	M51C	Z	-16.49	-16.49	0	%100
57	M53	X	-11.833	-11.833	0	%100
58	M53	Z	-20.495	-20.495	0	%100
59	M54	X	-9.039	-9.039	0	%100
60	M54	Z	-15.656	-15.656	0	%100
61	M56	X	-9.52	-9.52	0	%100
62	M56	Z	-16.49	-16.49	0	%100
63	MP2C	X	-5.67	-5.67	0	%100
64	MP2C	Z	-9.82	-9.82	0	%100
65	MP4C	X	-5.67	-5.67	0	%100
66	MP4C	Z	-9.82	-9.82	0	%100
67	MP3C	X	-5.67	-5.67	0	%100
68	MP3C	Z	-9.82	-9.82	0	%100
69	M67	X	-5.157	-5.157	0	%100
70	M67	Z	-8.931	-8.931	0	%100
71	M68	X	-1.753	-1.753	0	%100
72	M68	Z	-3.036	-3.036	0	%100
73	M69	X	-4.449	-4.449	0	%100
74	M69	Z	-7.706	-7.706	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
75	MP1B	X	-5.67	-5.67	0	%100
76	MP1B	Z	-9.82	-9.82	0	%100
77	M72	X	-4.449	-4.449	0	%100
78	M72	Z	-7.706	-7.706	0	%100
79	M73	X	-8.874	-8.874	0	%100
80	M73	Z	-15.371	-15.371	0	%100
81	M76A	X	-4.928	-4.928	0	%100
82	M76A	Z	-8.535	-8.535	0	%100
83	M77A	X	0	0	0	%100
84	M77A	Z	0	0	0	%100
85	M81	X	-2.958	-2.958	0	%100
86	M81	Z	-5.124	-5.124	0	%100
87	M82	X	-9.039	-9.039	0	%100
88	M82	Z	-15.656	-15.656	0	%100
89	M84A	X	-9.52	-9.52	0	%100
90	M84A	Z	-16.49	-16.49	0	%100
91	M86	X	-2.958	-2.958	0	%100
92	M86	Z	-5.124	-5.124	0	%100
93	M87	X	0	0	0	%100
94	M87	Z	0	0	0	%100
95	M89	X	0	0	0	%100
96	M89	Z	0	0	0	%100
97	MP2B	X	-5.67	-5.67	0	%100
98	MP2B	Z	-9.82	-9.82	0	%100
99	MP4B	X	-5.67	-5.67	0	%100
100	MP4B	Z	-9.82	-9.82	0	%100
101	MP3B	X	-5.67	-5.67	0	%100
102	MP3B	Z	-9.82	-9.82	0	%100
103	M104	X	-3.513	-3.513	0	%100
104	M104	Z	-6.084	-6.084	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	-3.513	-3.513	0	%100
108	M114	Z	-6.084	-6.084	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	-4.24	-4.24	0	%100
112	M122	Z	-7.344	-7.344	0	%100
113	M123	X	-4.24	-4.24	0	%100
114	M123	Z	-7.344	-7.344	0	%100
115	OVP1	X	-4.36	-4.36	0	%100
116	OVP1	Z	-7.551	-7.551	0	%100
117	OVP2	X	-4.36	-4.36	0	%100
118	OVP2	Z	-7.551	-7.551	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	-4.886	-4.886	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-3.797	-3.797	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	-4.443	-4.443	0	%100
9	M43	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
10	M43	Z	-3.797	-3.797	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	-5.704	-5.704	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	-1.077	-1.077	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	-1.077	-1.077	0	%100
17	M76	X	0	0	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	-1.433	-1.433	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	-1.491	-1.491	0	%100
23	M84	X	0	0	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	-1.433	-1.433	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	-1.491	-1.491	0	%100
29	MP2A	X	0	0	0	%100
30	MP2A	Z	-4.443	-4.443	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	-4.443	-4.443	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	-4.443	-4.443	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	-1.221	-1.221	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	-3.47	-3.47	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	-0.949	-0.949	0	%100
41	MP1C	X	0	0	0	%100
42	MP1C	Z	-4.443	-4.443	0	%100
43	M39	X	0	0	0	%100
44	M39	Z	-0.949	-0.949	0	%100
45	M40	X	0	0	0	%100
46	M40	Z	-1.426	-1.426	0	%100
47	M43A	X	0	0	0	%100
48	M43A	Z	-1.077	-1.077	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	-4.307	-4.307	0	%100
51	M48	X	0	0	0	%100
52	M48	Z	-4.24	-4.24	0	%100
53	M49	X	0	0	0	%100
54	M49	Z	-1.433	-1.433	0	%100
55	M51C	X	0	0	0	%100
56	M51C	Z	-1.491	-1.491	0	%100
57	M53	X	0	0	0	%100
58	M53	Z	-4.24	-4.24	0	%100
59	M54	X	0	0	0	%100
60	M54	Z	-5.732	-5.732	0	%100
61	M56	X	0	0	0	%100
62	M56	Z	-5.964	-5.964	0	%100
63	MP2C	X	0	0	0	%100
64	MP2C	Z	-4.443	-4.443	0	%100
65	MP4C	X	0	0	0	%100
66	MP4C	Z	-4.443	-4.443	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, %]
67	MP3C	X	0	0	0	%100
68	MP3C	Z	-4.443	-4.443	0	%100
69	M67	X	0	0	0	%100
70	M67	Z	-1.221	-1.221	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	-3.47	-3.47	0	%100
73	M69	X	0	0	0	%100
74	M69	Z	-.949	-.949	0	%100
75	MP1B	X	0	0	0	%100
76	MP1B	Z	-4.443	-4.443	0	%100
77	M72	X	0	0	0	%100
78	M72	Z	-.949	-.949	0	%100
79	M73	X	0	0	0	%100
80	M73	Z	-1.426	-1.426	0	%100
81	M76A	X	0	0	0	%100
82	M76A	Z	-4.307	-4.307	0	%100
83	M77A	X	0	0	0	%100
84	M77A	Z	-1.077	-1.077	0	%100
85	M81	X	0	0	0	%100
86	M81	Z	-4.24	-4.24	0	%100
87	M82	X	0	0	0	%100
88	M82	Z	-5.732	-5.732	0	%100
89	M84A	X	0	0	0	%100
90	M84A	Z	-5.964	-5.964	0	%100
91	M86	X	0	0	0	%100
92	M86	Z	-4.24	-4.24	0	%100
93	M87	X	0	0	0	%100
94	M87	Z	-1.433	-1.433	0	%100
95	M89	X	0	0	0	%100
96	M89	Z	-1.491	-1.491	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	-4.443	-4.443	0	%100
99	MP4B	X	0	0	0	%100
100	MP4B	Z	-4.443	-4.443	0	%100
101	MP3B	X	0	0	0	%100
102	MP3B	Z	-4.443	-4.443	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	-4.089	-4.089	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	-1.022	-1.022	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	-1.022	-1.022	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	-.884	-.884	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	-3.534	-3.534	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	-.884	-.884	0	%100
115	OVP1	X	0	0	0	%100
116	OVP1	Z	-3.33	-3.33	0	%100
117	OVP2	X	0	0	0	%100
118	OVP2	Z	-3.33	-3.33	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.832	1.832	0	%100



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

	Member Label	Direction	Start Magnitude lb/ft,...	End Magnitude lb/ft,F...	Start Location ft, %	End Location ft, %
2	M1	Z	-3.173	-3.173	0	%100
3	M4	X	.578	.578	0	%100
4	M4	Z	-1.002	-1.002	0	%100
5	M10	X	1.424	1.424	0	%100
6	M10	Z	-2.466	-2.466	0	%100
7	MP1A	X	2.221	2.221	0	%100
8	MP1A	Z	-3.848	-3.848	0	%100
9	M43	X	1.424	1.424	0	%100
10	M43	Z	-2.466	-2.466	0	%100
11	M46	X	2.139	2.139	0	%100
12	M46	Z	-3.705	-3.705	0	%100
13	M51B	X	1.615	1.615	0	%100
14	M51B	Z	-2.797	-2.797	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	.707	.707	0	%100
18	M76	Z	-1.224	-1.224	0	%100
19	M77	X	2.149	2.149	0	%100
20	M77	Z	-3.723	-3.723	0	%100
21	M80	X	2.236	2.236	0	%100
22	M80	Z	-3.873	-3.873	0	%100
23	M84	X	.707	.707	0	%100
24	M84	Z	-1.224	-1.224	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	0	0	0	%100
29	MP2A	X	2.221	2.221	0	%100
30	MP2A	Z	-3.848	-3.848	0	%100
31	MP4A	X	2.221	2.221	0	%100
32	MP4A	Z	-3.848	-3.848	0	%100
33	MP3A	X	2.221	2.221	0	%100
34	MP3A	Z	-3.848	-3.848	0	%100
35	M34	X	1.832	1.832	0	%100
36	M34	Z	-3.173	-3.173	0	%100
37	M35	X	.578	.578	0	%100
38	M35	Z	-1.002	-1.002	0	%100
39	M36	X	1.424	1.424	0	%100
40	M36	Z	-2.466	-2.466	0	%100
41	MP1C	X	2.221	2.221	0	%100
42	MP1C	Z	-3.848	-3.848	0	%100
43	M39	X	1.424	1.424	0	%100
44	M39	Z	-2.466	-2.466	0	%100
45	M40	X	2.139	2.139	0	%100
46	M40	Z	-3.705	-3.705	0	%100
47	M43A	X	0	0	0	%100
48	M43A	Z	0	0	0	%100
49	M44	X	1.615	1.615	0	%100
50	M44	Z	-2.797	-2.797	0	%100
51	M48	X	.707	.707	0	%100
52	M48	Z	-1.224	-1.224	0	%100
53	M49	X	0	0	0	%100
54	M49	Z	0	0	0	%100
55	M51C	X	0	0	0	%100
56	M51C	Z	0	0	0	%100
57	M53	X	.707	.707	0	%100
58	M53	Z	-1.224	-1.224	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
59	M54	X	2.149	2.149	0 %100
60	M54	Z	-3.723	-3.723	0 %100
61	M56	X	2.236	2.236	0 %100
62	M56	Z	-3.873	-3.873	0 %100
63	MP2C	X	2.221	2.221	0 %100
64	MP2C	Z	-3.848	-3.848	0 %100
65	MP4C	X	2.221	2.221	0 %100
66	MP4C	Z	-3.848	-3.848	0 %100
67	MP3C	X	2.221	2.221	0 %100
68	MP3C	Z	-3.848	-3.848	0 %100
69	M67	X	0	0	0 %100
70	M67	Z	0	0	0 %100
71	M68	X	2.313	2.313	0 %100
72	M68	Z	-4.007	-4.007	0 %100
73	M69	X	0	0	0 %100
74	M69	Z	0	0	0 %100
75	MP1B	X	2.221	2.221	0 %100
76	MP1B	Z	-3.848	-3.848	0 %100
77	M72	X	0	0	0 %100
78	M72	Z	0	0	0 %100
79	M73	X	0	0	0 %100
80	M73	Z	0	0	0 %100
81	M76A	X	1.615	1.615	0 %100
82	M76A	Z	-2.797	-2.797	0 %100
83	M77A	X	1.615	1.615	0 %100
84	M77A	Z	-2.797	-2.797	0 %100
85	M81	X	2.827	2.827	0 %100
86	M81	Z	-4.896	-4.896	0 %100
87	M82	X	2.149	2.149	0 %100
88	M82	Z	-3.723	-3.723	0 %100
89	M84A	X	2.236	2.236	0 %100
90	M84A	Z	-3.873	-3.873	0 %100
91	M86	X	2.827	2.827	0 %100
92	M86	Z	-4.896	-4.896	0 %100
93	M87	X	2.149	2.149	0 %100
94	M87	Z	-3.723	-3.723	0 %100
95	M89	X	2.236	2.236	0 %100
96	M89	Z	-3.873	-3.873	0 %100
97	MP2B	X	2.221	2.221	0 %100
98	MP2B	Z	-3.848	-3.848	0 %100
99	MP4B	X	2.221	2.221	0 %100
100	MP4B	Z	-3.848	-3.848	0 %100
101	MP3B	X	2.221	2.221	0 %100
102	MP3B	Z	-3.848	-3.848	0 %100
103	M104	X	1.533	1.533	0 %100
104	M104	Z	-2.656	-2.656	0 %100
105	M109	X	1.533	1.533	0 %100
106	M109	Z	-2.656	-2.656	0 %100
107	M114	X	0	0	0 %100
108	M114	Z	0	0	0 %100
109	M121	X	1.325	1.325	0 %100
110	M121	Z	-2.296	-2.296	0 %100
111	M122	X	1.325	1.325	0 %100
112	M122	Z	-2.296	-2.296	0 %100
113	M123	X	0	0	0 %100
114	M123	Z	0	0	0 %100
115	OVP1	X	1.665	1.665	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
116	OVP1	Z	-2.884	-2.884	0	%100
117	OVP2	X	1.665	1.665	0	%100
118	OVP2	Z	-2.884	-2.884	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.058	1.058	0	%100
2	M1	Z	-.611	-.611	0	%100
3	M4	X	3.005	3.005	0	%100
4	M4	Z	-1.735	-1.735	0	%100
5	M10	X	.822	.822	0	%100
6	M10	Z	-.475	-.475	0	%100
7	MP1A	X	3.848	3.848	0	%100
8	MP1A	Z	-2.221	-2.221	0	%100
9	M43	X	.822	.822	0	%100
10	M43	Z	-.475	-.475	0	%100
11	M46	X	1.235	1.235	0	%100
12	M46	Z	-.713	-.713	0	%100
13	M51B	X	3.73	3.73	0	%100
14	M51B	Z	-2.153	-2.153	0	%100
15	M52B	X	.932	.932	0	%100
16	M52B	Z	-.538	-.538	0	%100
17	M76	X	3.672	3.672	0	%100
18	M76	Z	-2.12	-2.12	0	%100
19	M77	X	4.964	4.964	0	%100
20	M77	Z	-2.866	-2.866	0	%100
21	M80	X	5.165	5.165	0	%100
22	M80	Z	-2.982	-2.982	0	%100
23	M84	X	3.672	3.672	0	%100
24	M84	Z	-2.12	-2.12	0	%100
25	M85	X	1.241	1.241	0	%100
26	M85	Z	-.716	-.716	0	%100
27	M91	X	1.291	1.291	0	%100
28	M91	Z	-.745	-.745	0	%100
29	MP2A	X	3.848	3.848	0	%100
30	MP2A	Z	-2.221	-2.221	0	%100
31	MP4A	X	3.848	3.848	0	%100
32	MP4A	Z	-2.221	-2.221	0	%100
33	MP3A	X	3.848	3.848	0	%100
34	MP3A	Z	-2.221	-2.221	0	%100
35	M34	X	4.231	4.231	0	%100
36	M34	Z	-2.443	-2.443	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	0	0	0	%100
39	M36	X	3.288	3.288	0	%100
40	M36	Z	-1.898	-1.898	0	%100
41	MP1C	X	3.848	3.848	0	%100
42	MP1C	Z	-2.221	-2.221	0	%100
43	M39	X	3.288	3.288	0	%100
44	M39	Z	-1.898	-1.898	0	%100
45	M40	X	4.94	4.94	0	%100
46	M40	Z	-2.852	-2.852	0	%100
47	M43A	X	.932	.932	0	%100
48	M43A	Z	-.538	-.538	0	%100
49	M44	X	.932	.932	0	%100
50	M44	Z	-.538	-.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, %]
51	M48	X	0	0	%100
52	M48	Z	0	0	%100
53	M49	X	1.241	1.241	%100
54	M49	Z	-716	-716	%100
55	M51C	X	1.291	1.291	%100
56	M51C	Z	-745	-745	%100
57	M53	X	0	0	%100
58	M53	Z	0	0	%100
59	M54	X	1.241	1.241	%100
60	M54	Z	-716	-716	%100
61	M56	X	1.291	1.291	%100
62	M56	Z	-745	-745	%100
63	MP2C	X	3.848	3.848	%100
64	MP2C	Z	-2.221	-2.221	%100
65	MP4C	X	3.848	3.848	%100
66	MP4C	Z	-2.221	-2.221	%100
67	MP3C	X	3.848	3.848	%100
68	MP3C	Z	-2.221	-2.221	%100
69	M67	X	1.058	1.058	%100
70	M67	Z	-611	-611	%100
71	M68	X	3.005	3.005	%100
72	M68	Z	-1.735	-1.735	%100
73	M69	X	.822	.822	%100
74	M69	Z	-475	-475	%100
75	MP1B	X	3.848	3.848	%100
76	MP1B	Z	-2.221	-2.221	%100
77	M72	X	.822	.822	%100
78	M72	Z	-475	-475	%100
79	M73	X	1.235	1.235	%100
80	M73	Z	-713	-713	%100
81	M76A	X	.932	.932	%100
82	M76A	Z	-538	-538	%100
83	M77A	X	3.73	3.73	%100
84	M77A	Z	-2.153	-2.153	%100
85	M81	X	3.672	3.672	%100
86	M81	Z	-2.12	-2.12	%100
87	M82	X	1.241	1.241	%100
88	M82	Z	-716	-716	%100
89	M84A	X	1.291	1.291	%100
90	M84A	Z	-745	-745	%100
91	M86	X	3.672	3.672	%100
92	M86	Z	-2.12	-2.12	%100
93	M87	X	4.964	4.964	%100
94	M87	Z	-2.866	-2.866	%100
95	M89	X	5.165	5.165	%100
96	M89	Z	-2.982	-2.982	%100
97	MP2B	X	3.848	3.848	%100
98	MP2B	Z	-2.221	-2.221	%100
99	MP4B	X	3.848	3.848	%100
100	MP4B	Z	-2.221	-2.221	%100
101	MP3B	X	3.848	3.848	%100
102	MP3B	Z	-2.221	-2.221	%100
103	M104	X	.885	.885	%100
104	M104	Z	-511	-511	%100
105	M109	X	3.541	3.541	%100
106	M109	Z	-2.044	-2.044	%100
107	M114	X	.885	.885	%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, %]
108	M114	Z	-511	-511	0	%100
109	M121	X	3.061	3.061	0	%100
110	M121	Z	-1.767	-1.767	0	%100
111	M122	X	.765	.765	0	%100
112	M122	Z	-.442	-.442	0	%100
113	M123	X	.765	.765	0	%100
114	M123	Z	-.442	-.442	0	%100
115	OVP1	X	2.884	2.884	0	%100
116	OVP1	Z	-1.665	-1.665	0	%100
117	OVP2	X	2.884	2.884	0	%100
118	OVP2	Z	-1.665	-1.665	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	4.626	4.626	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP1A	X	4.443	4.443	0	%100
8	MP1A	Z	0	0	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	0	0	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	0	0	0	%100
13	M51B	X	3.23	3.23	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	3.23	3.23	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	5.653	5.653	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	4.299	4.299	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	4.473	4.473	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	5.653	5.653	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	4.299	4.299	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	4.473	4.473	0	%100
28	M91	Z	0	0	0	%100
29	MP2A	X	4.443	4.443	0	%100
30	MP2A	Z	0	0	0	%100
31	MP4A	X	4.443	4.443	0	%100
32	MP4A	Z	0	0	0	%100
33	MP3A	X	4.443	4.443	0	%100
34	MP3A	Z	0	0	0	%100
35	M34	X	3.664	3.664	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	1.157	1.157	0	%100
38	M35	Z	0	0	0	%100
39	M36	X	2.847	2.847	0	%100
40	M36	Z	0	0	0	%100
41	MP1C	X	4.443	4.443	0	%100
42	MP1C	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
43	M39	X	2.847	2.847	0	%100
44	M39	Z	0	0	0	%100
45	M40	X	4.278	4.278	0	%100
46	M40	Z	0	0	0	%100
47	M43A	X	3.23	3.23	0	%100
48	M43A	Z	0	0	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	0	0	0	%100
51	M48	X	1.413	1.413	0	%100
52	M48	Z	0	0	0	%100
53	M49	X	4.299	4.299	0	%100
54	M49	Z	0	0	0	%100
55	M51C	X	4.473	4.473	0	%100
56	M51C	Z	0	0	0	%100
57	M53	X	1.413	1.413	0	%100
58	M53	Z	0	0	0	%100
59	M54	X	0	0	0	%100
60	M54	Z	0	0	0	%100
61	M56	X	0	0	0	%100
62	M56	Z	0	0	0	%100
63	MP2C	X	4.443	4.443	0	%100
64	MP2C	Z	0	0	0	%100
65	MP4C	X	4.443	4.443	0	%100
66	MP4C	Z	0	0	0	%100
67	MP3C	X	4.443	4.443	0	%100
68	MP3C	Z	0	0	0	%100
69	M67	X	3.664	3.664	0	%100
70	M67	Z	0	0	0	%100
71	M68	X	1.157	1.157	0	%100
72	M68	Z	0	0	0	%100
73	M69	X	2.847	2.847	0	%100
74	M69	Z	0	0	0	%100
75	MP1B	X	4.443	4.443	0	%100
76	MP1B	Z	0	0	0	%100
77	M72	X	2.847	2.847	0	%100
78	M72	Z	0	0	0	%100
79	M73	X	4.278	4.278	0	%100
80	M73	Z	0	0	0	%100
81	M76A	X	0	0	0	%100
82	M76A	Z	0	0	0	%100
83	M77A	X	3.23	3.23	0	%100
84	M77A	Z	0	0	0	%100
85	M81	X	1.413	1.413	0	%100
86	M81	Z	0	0	0	%100
87	M82	X	0	0	0	%100
88	M82	Z	0	0	0	%100
89	M84A	X	0	0	0	%100
90	M84A	Z	0	0	0	%100
91	M86	X	1.413	1.413	0	%100
92	M86	Z	0	0	0	%100
93	M87	X	4.299	4.299	0	%100
94	M87	Z	0	0	0	%100
95	M89	X	4.473	4.473	0	%100
96	M89	Z	0	0	0	%100
97	MP2B	X	4.443	4.443	0	%100
98	MP2B	Z	0	0	0	%100
99	MP4B	X	4.443	4.443	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, %]
100	MP4B	Z	0	0	0	%100
101	MP3B	X	4.443	4.443	0	%100
102	MP3B	Z	0	0	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	0	0	0	%100
105	M109	X	3.067	3.067	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	3.067	3.067	0	%100
108	M114	Z	0	0	0	%100
109	M121	X	2.651	2.651	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	2.651	2.651	0	%100
114	M123	Z	0	0	0	%100
115	OVP1	X	3.33	3.33	0	%100
116	OVP1	Z	0	0	0	%100
117	OVP2	X	3.33	3.33	0	%100
118	OVP2	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.058	1.058	0	%100
2	M1	Z	.611	.611	0	%100
3	M4	X	3.005	3.005	0	%100
4	M4	Z	1.735	1.735	0	%100
5	M10	X	.822	.822	0	%100
6	M10	Z	.475	.475	0	%100
7	MP1A	X	3.848	3.848	0	%100
8	MP1A	Z	2.221	2.221	0	%100
9	M43	X	.822	.822	0	%100
10	M43	Z	.475	.475	0	%100
11	M46	X	1.235	1.235	0	%100
12	M46	Z	.713	.713	0	%100
13	M51B	X	.932	.932	0	%100
14	M51B	Z	.538	.538	0	%100
15	M52B	X	3.73	3.73	0	%100
16	M52B	Z	2.153	2.153	0	%100
17	M76	X	3.672	3.672	0	%100
18	M76	Z	2.12	2.12	0	%100
19	M77	X	1.241	1.241	0	%100
20	M77	Z	.716	.716	0	%100
21	M80	X	1.291	1.291	0	%100
22	M80	Z	.745	.745	0	%100
23	M84	X	3.672	3.672	0	%100
24	M84	Z	2.12	2.12	0	%100
25	M85	X	4.964	4.964	0	%100
26	M85	Z	2.866	2.866	0	%100
27	M91	X	5.165	5.165	0	%100
28	M91	Z	2.982	2.982	0	%100
29	MP2A	X	3.848	3.848	0	%100
30	MP2A	Z	2.221	2.221	0	%100
31	MP4A	X	3.848	3.848	0	%100
32	MP4A	Z	2.221	2.221	0	%100
33	MP3A	X	3.848	3.848	0	%100
34	MP3A	Z	2.221	2.221	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
35	M34	X	1.058	1.058	0	%100
36	M34	Z	.611	.611	0	%100
37	M35	X	3.005	3.005	0	%100
38	M35	Z	1.735	1.735	0	%100
39	M36	X	.822	.822	0	%100
40	M36	Z	.475	.475	0	%100
41	MP1C	X	3.848	3.848	0	%100
42	MP1C	Z	2.221	2.221	0	%100
43	M39	X	.822	.822	0	%100
44	M39	Z	.475	.475	0	%100
45	M40	X	1.235	1.235	0	%100
46	M40	Z	.713	.713	0	%100
47	M43A	X	3.73	3.73	0	%100
48	M43A	Z	2.153	2.153	0	%100
49	M44	X	.932	.932	0	%100
50	M44	Z	.538	.538	0	%100
51	M48	X	3.672	3.672	0	%100
52	M48	Z	2.12	2.12	0	%100
53	M49	X	4.964	4.964	0	%100
54	M49	Z	2.866	2.866	0	%100
55	M51C	X	5.165	5.165	0	%100
56	M51C	Z	2.982	2.982	0	%100
57	M53	X	3.672	3.672	0	%100
58	M53	Z	2.12	2.12	0	%100
59	M54	X	1.241	1.241	0	%100
60	M54	Z	.716	.716	0	%100
61	M56	X	1.291	1.291	0	%100
62	M56	Z	.745	.745	0	%100
63	MP2C	X	3.848	3.848	0	%100
64	MP2C	Z	2.221	2.221	0	%100
65	MP4C	X	3.848	3.848	0	%100
66	MP4C	Z	2.221	2.221	0	%100
67	MP3C	X	3.848	3.848	0	%100
68	MP3C	Z	2.221	2.221	0	%100
69	M67	X	4.231	4.231	0	%100
70	M67	Z	2.443	2.443	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	0	0	0	%100
73	M69	X	3.288	3.288	0	%100
74	M69	Z	1.898	1.898	0	%100
75	MP1B	X	3.848	3.848	0	%100
76	MP1B	Z	2.221	2.221	0	%100
77	M72	X	3.288	3.288	0	%100
78	M72	Z	1.898	1.898	0	%100
79	M73	X	4.94	4.94	0	%100
80	M73	Z	2.852	2.852	0	%100
81	M76A	X	.932	.932	0	%100
82	M76A	Z	.538	.538	0	%100
83	M77A	X	.932	.932	0	%100
84	M77A	Z	.538	.538	0	%100
85	M81	X	0	0	0	%100
86	M81	Z	0	0	0	%100
87	M82	X	1.241	1.241	0	%100
88	M82	Z	.716	.716	0	%100
89	M84A	X	1.291	1.291	0	%100
90	M84A	Z	.745	.745	0	%100
91	M86	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
92	M86	Z	0	0	0	%100
93	M87	X	1.241	1.241	0	%100
94	M87	Z	.716	.716	0	%100
95	M89	X	1.291	1.291	0	%100
96	M89	Z	.745	.745	0	%100
97	MP2B	X	3.848	3.848	0	%100
98	MP2B	Z	2.221	2.221	0	%100
99	MP4B	X	3.848	3.848	0	%100
100	MP4B	Z	2.221	2.221	0	%100
101	MP3B	X	3.848	3.848	0	%100
102	MP3B	Z	2.221	2.221	0	%100
103	M104	X	.885	.885	0	%100
104	M104	Z	.511	.511	0	%100
105	M109	X	.885	.885	0	%100
106	M109	Z	.511	.511	0	%100
107	M114	X	3.541	3.541	0	%100
108	M114	Z	2.044	2.044	0	%100
109	M121	X	.765	.765	0	%100
110	M121	Z	.442	.442	0	%100
111	M122	X	.765	.765	0	%100
112	M122	Z	.442	.442	0	%100
113	M123	X	3.061	3.061	0	%100
114	M123	Z	1.767	1.767	0	%100
115	OVP1	X	2.884	2.884	0	%100
116	OVP1	Z	1.665	1.665	0	%100
117	OVP2	X	2.884	2.884	0	%100
118	OVP2	Z	1.665	1.665	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.832	1.832	0	%100
2	M1	Z	3.173	3.173	0	%100
3	M4	X	.578	.578	0	%100
4	M4	Z	1.002	1.002	0	%100
5	M10	X	1.424	1.424	0	%100
6	M10	Z	2.466	2.466	0	%100
7	MP1A	X	2.221	2.221	0	%100
8	MP1A	Z	3.848	3.848	0	%100
9	M43	X	1.424	1.424	0	%100
10	M43	Z	2.466	2.466	0	%100
11	M46	X	2.139	2.139	0	%100
12	M46	Z	3.705	3.705	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	1.615	1.615	0	%100
16	M52B	Z	2.797	2.797	0	%100
17	M76	X	.707	.707	0	%100
18	M76	Z	1.224	1.224	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	.707	.707	0	%100
24	M84	Z	1.224	1.224	0	%100
25	M85	X	2.149	2.149	0	%100
26	M85	Z	3.723	3.723	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, %]
27	M91	X	2.236	2.236	0	%100
28	M91	Z	3.873	3.873	0	%100
29	MP2A	X	2.221	2.221	0	%100
30	MP2A	Z	3.848	3.848	0	%100
31	MP4A	X	2.221	2.221	0	%100
32	MP4A	Z	3.848	3.848	0	%100
33	MP3A	X	2.221	2.221	0	%100
34	MP3A	Z	3.848	3.848	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	2.313	2.313	0	%100
38	M35	Z	4.007	4.007	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	0	0	0	%100
41	MP1C	X	2.221	2.221	0	%100
42	MP1C	Z	3.848	3.848	0	%100
43	M39	X	0	0	0	%100
44	M39	Z	0	0	0	%100
45	M40	X	0	0	0	%100
46	M40	Z	0	0	0	%100
47	M43A	X	1.615	1.615	0	%100
48	M43A	Z	2.797	2.797	0	%100
49	M44	X	1.615	1.615	0	%100
50	M44	Z	2.797	2.797	0	%100
51	M48	X	2.827	2.827	0	%100
52	M48	Z	4.896	4.896	0	%100
53	M49	X	2.149	2.149	0	%100
54	M49	Z	3.723	3.723	0	%100
55	M51C	X	2.236	2.236	0	%100
56	M51C	Z	3.873	3.873	0	%100
57	M53	X	2.827	2.827	0	%100
58	M53	Z	4.896	4.896	0	%100
59	M54	X	2.149	2.149	0	%100
60	M54	Z	3.723	3.723	0	%100
61	M56	X	2.236	2.236	0	%100
62	M56	Z	3.873	3.873	0	%100
63	MP2C	X	2.221	2.221	0	%100
64	MP2C	Z	3.848	3.848	0	%100
65	MP4C	X	2.221	2.221	0	%100
66	MP4C	Z	3.848	3.848	0	%100
67	MP3C	X	2.221	2.221	0	%100
68	MP3C	Z	3.848	3.848	0	%100
69	M67	X	1.832	1.832	0	%100
70	M67	Z	3.173	3.173	0	%100
71	M68	X	.578	.578	0	%100
72	M68	Z	1.002	1.002	0	%100
73	M69	X	1.424	1.424	0	%100
74	M69	Z	2.466	2.466	0	%100
75	MP1B	X	2.221	2.221	0	%100
76	MP1B	Z	3.848	3.848	0	%100
77	M72	X	1.424	1.424	0	%100
78	M72	Z	2.466	2.466	0	%100
79	M73	X	2.139	2.139	0	%100
80	M73	Z	3.705	3.705	0	%100
81	M76A	X	1.615	1.615	0	%100
82	M76A	Z	2.797	2.797	0	%100
83	M77A	X	0	0	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, %]
84	M77A	Z	0	0	0	%100
85	M81	X	.707	.707	0	%100
86	M81	Z	1.224	1.224	0	%100
87	M82	X	2.149	2.149	0	%100
88	M82	Z	3.723	3.723	0	%100
89	M84A	X	2.236	2.236	0	%100
90	M84A	Z	3.873	3.873	0	%100
91	M86	X	.707	.707	0	%100
92	M86	Z	1.224	1.224	0	%100
93	M87	X	0	0	0	%100
94	M87	Z	0	0	0	%100
95	M89	X	0	0	0	%100
96	M89	Z	0	0	0	%100
97	MP2B	X	2.221	2.221	0	%100
98	MP2B	Z	3.848	3.848	0	%100
99	MP4B	X	2.221	2.221	0	%100
100	MP4B	Z	3.848	3.848	0	%100
101	MP3B	X	2.221	2.221	0	%100
102	MP3B	Z	3.848	3.848	0	%100
103	M104	X	1.533	1.533	0	%100
104	M104	Z	2.656	2.656	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	1.533	1.533	0	%100
108	M114	Z	2.656	2.656	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	1.325	1.325	0	%100
112	M122	Z	2.296	2.296	0	%100
113	M123	X	1.325	1.325	0	%100
114	M123	Z	2.296	2.296	0	%100
115	OVP1	X	1.665	1.665	0	%100
116	OVP1	Z	2.884	2.884	0	%100
117	OVP2	X	1.665	1.665	0	%100
118	OVP2	Z	2.884	2.884	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	4.886	4.886	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	3.797	3.797	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	4.443	4.443	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	3.797	3.797	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	5.704	5.704	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	1.077	1.077	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	1.077	1.077	0	%100
17	M76	X	0	0	0	%100
18	M76	Z	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, %]
19	M77	X	0	0	0	%100
20	M77	Z	1.433	1.433	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	1.491	1.491	0	%100
23	M84	X	0	0	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	1.433	1.433	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	1.491	1.491	0	%100
29	MP2A	X	0	0	0	%100
30	MP2A	Z	4.443	4.443	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	4.443	4.443	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	4.443	4.443	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	1.221	1.221	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	3.47	3.47	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	.949	.949	0	%100
41	MP1C	X	0	0	0	%100
42	MP1C	Z	4.443	4.443	0	%100
43	M39	X	0	0	0	%100
44	M39	Z	.949	.949	0	%100
45	M40	X	0	0	0	%100
46	M40	Z	1.426	1.426	0	%100
47	M43A	X	0	0	0	%100
48	M43A	Z	1.077	1.077	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	4.307	4.307	0	%100
51	M48	X	0	0	0	%100
52	M48	Z	4.24	4.24	0	%100
53	M49	X	0	0	0	%100
54	M49	Z	1.433	1.433	0	%100
55	M51C	X	0	0	0	%100
56	M51C	Z	1.491	1.491	0	%100
57	M53	X	0	0	0	%100
58	M53	Z	4.24	4.24	0	%100
59	M54	X	0	0	0	%100
60	M54	Z	5.732	5.732	0	%100
61	M56	X	0	0	0	%100
62	M56	Z	5.964	5.964	0	%100
63	MP2C	X	0	0	0	%100
64	MP2C	Z	4.443	4.443	0	%100
65	MP4C	X	0	0	0	%100
66	MP4C	Z	4.443	4.443	0	%100
67	MP3C	X	0	0	0	%100
68	MP3C	Z	4.443	4.443	0	%100
69	M67	X	0	0	0	%100
70	M67	Z	1.221	1.221	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	3.47	3.47	0	%100
73	M69	X	0	0	0	%100
74	M69	Z	.949	.949	0	%100
75	MP1B	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	MP1B	Z	4.443	4.443	0	%100
77	M72	X	0	0	0	%100
78	M72	Z	.949	.949	0	%100
79	M73	X	0	0	0	%100
80	M73	Z	1.426	1.426	0	%100
81	M76A	X	0	0	0	%100
82	M76A	Z	4.307	4.307	0	%100
83	M77A	X	0	0	0	%100
84	M77A	Z	1.077	1.077	0	%100
85	M81	X	0	0	0	%100
86	M81	Z	4.24	4.24	0	%100
87	M82	X	0	0	0	%100
88	M82	Z	5.732	5.732	0	%100
89	M84A	X	0	0	0	%100
90	M84A	Z	5.964	5.964	0	%100
91	M86	X	0	0	0	%100
92	M86	Z	4.24	4.24	0	%100
93	M87	X	0	0	0	%100
94	M87	Z	1.433	1.433	0	%100
95	M89	X	0	0	0	%100
96	M89	Z	1.491	1.491	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	4.443	4.443	0	%100
99	MP4B	X	0	0	0	%100
100	MP4B	Z	4.443	4.443	0	%100
101	MP3B	X	0	0	0	%100
102	MP3B	Z	4.443	4.443	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	4.089	4.089	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	1.022	1.022	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	1.022	1.022	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	.884	.884	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	3.534	3.534	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	.884	.884	0	%100
115	OVP1	X	0	0	0	%100
116	OVP1	Z	3.33	3.33	0	%100
117	OVP2	X	0	0	0	%100
118	OVP2	Z	3.33	3.33	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	M1	X	-1.832	-1.832	0	%100
2	M1	Z	3.173	3.173	0	%100
3	M4	X	-.578	-.578	0	%100
4	M4	Z	1.002	1.002	0	%100
5	M10	X	-1.424	-1.424	0	%100
6	M10	Z	2.466	2.466	0	%100
7	MP1A	X	-2.221	-2.221	0	%100
8	MP1A	Z	3.848	3.848	0	%100
9	M43	X	-1.424	-1.424	0	%100
10	M43	Z	2.466	2.466	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
11	M46	X	-2.139	-2.139	0	%100
12	M46	Z	3.705	3.705	0	%100
13	M51B	X	-1.615	-1.615	0	%100
14	M51B	Z	2.797	2.797	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	-.707	-.707	0	%100
18	M76	Z	1.224	1.224	0	%100
19	M77	X	-2.149	-2.149	0	%100
20	M77	Z	3.723	3.723	0	%100
21	M80	X	-2.236	-2.236	0	%100
22	M80	Z	3.873	3.873	0	%100
23	M84	X	-.707	-.707	0	%100
24	M84	Z	1.224	1.224	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	0	0	0	%100
29	MP2A	X	-2.221	-2.221	0	%100
30	MP2A	Z	3.848	3.848	0	%100
31	MP4A	X	-2.221	-2.221	0	%100
32	MP4A	Z	3.848	3.848	0	%100
33	MP3A	X	-2.221	-2.221	0	%100
34	MP3A	Z	3.848	3.848	0	%100
35	M34	X	-1.832	-1.832	0	%100
36	M34	Z	3.173	3.173	0	%100
37	M35	X	-.578	-.578	0	%100
38	M35	Z	1.002	1.002	0	%100
39	M36	X	-1.424	-1.424	0	%100
40	M36	Z	2.466	2.466	0	%100
41	MP1C	X	-2.221	-2.221	0	%100
42	MP1C	Z	3.848	3.848	0	%100
43	M39	X	-1.424	-1.424	0	%100
44	M39	Z	2.466	2.466	0	%100
45	M40	X	-2.139	-2.139	0	%100
46	M40	Z	3.705	3.705	0	%100
47	M43A	X	0	0	0	%100
48	M43A	Z	0	0	0	%100
49	M44	X	-1.615	-1.615	0	%100
50	M44	Z	2.797	2.797	0	%100
51	M48	X	-.707	-.707	0	%100
52	M48	Z	1.224	1.224	0	%100
53	M49	X	0	0	0	%100
54	M49	Z	0	0	0	%100
55	M51C	X	0	0	0	%100
56	M51C	Z	0	0	0	%100
57	M53	X	-.707	-.707	0	%100
58	M53	Z	1.224	1.224	0	%100
59	M54	X	-2.149	-2.149	0	%100
60	M54	Z	3.723	3.723	0	%100
61	M56	X	-2.236	-2.236	0	%100
62	M56	Z	3.873	3.873	0	%100
63	MP2C	X	-2.221	-2.221	0	%100
64	MP2C	Z	3.848	3.848	0	%100
65	MP4C	X	-2.221	-2.221	0	%100
66	MP4C	Z	3.848	3.848	0	%100
67	MP3C	X	-2.221	-2.221	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
68	MP3C	Z	3.848	3.848	0	%100
69	M67	X	0	0	0	%100
70	M67	Z	0	0	0	%100
71	M68	X	-2.313	-2.313	0	%100
72	M68	Z	4.007	4.007	0	%100
73	M69	X	0	0	0	%100
74	M69	Z	0	0	0	%100
75	MP1B	X	-2.221	-2.221	0	%100
76	MP1B	Z	3.848	3.848	0	%100
77	M72	X	0	0	0	%100
78	M72	Z	0	0	0	%100
79	M73	X	0	0	0	%100
80	M73	Z	0	0	0	%100
81	M76A	X	-1.615	-1.615	0	%100
82	M76A	Z	2.797	2.797	0	%100
83	M77A	X	-1.615	-1.615	0	%100
84	M77A	Z	2.797	2.797	0	%100
85	M81	X	-2.827	-2.827	0	%100
86	M81	Z	4.896	4.896	0	%100
87	M82	X	-2.149	-2.149	0	%100
88	M82	Z	3.723	3.723	0	%100
89	M84A	X	-2.236	-2.236	0	%100
90	M84A	Z	3.873	3.873	0	%100
91	M86	X	-2.827	-2.827	0	%100
92	M86	Z	4.896	4.896	0	%100
93	M87	X	-2.149	-2.149	0	%100
94	M87	Z	3.723	3.723	0	%100
95	M89	X	-2.236	-2.236	0	%100
96	M89	Z	3.873	3.873	0	%100
97	MP2B	X	-2.221	-2.221	0	%100
98	MP2B	Z	3.848	3.848	0	%100
99	MP4B	X	-2.221	-2.221	0	%100
100	MP4B	Z	3.848	3.848	0	%100
101	MP3B	X	-2.221	-2.221	0	%100
102	MP3B	Z	3.848	3.848	0	%100
103	M104	X	-1.533	-1.533	0	%100
104	M104	Z	2.656	2.656	0	%100
105	M109	X	-1.533	-1.533	0	%100
106	M109	Z	2.656	2.656	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	0	0	0	%100
109	M121	X	-1.325	-1.325	0	%100
110	M121	Z	2.296	2.296	0	%100
111	M122	X	-1.325	-1.325	0	%100
112	M122	Z	2.296	2.296	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	0	0	0	%100
115	OVP1	X	-1.665	-1.665	0	%100
116	OVP1	Z	2.884	2.884	0	%100
117	OVP2	X	-1.665	-1.665	0	%100
118	OVP2	Z	2.884	2.884	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.058	-1.058	0	%100
2	M1	Z	.611	.611	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
3	M4	X	-3.005	-3.005	0 %100
4	M4	Z	1.735	1.735	0 %100
5	M10	X	-.822	-.822	0 %100
6	M10	Z	.475	.475	0 %100
7	MP1A	X	-3.848	-3.848	0 %100
8	MP1A	Z	2.221	2.221	0 %100
9	M43	X	-.822	-.822	0 %100
10	M43	Z	.475	.475	0 %100
11	M46	X	-1.235	-1.235	0 %100
12	M46	Z	.713	.713	0 %100
13	M51B	X	-3.73	-3.73	0 %100
14	M51B	Z	2.153	2.153	0 %100
15	M52B	X	-.932	-.932	0 %100
16	M52B	Z	.538	.538	0 %100
17	M76	X	-3.672	-3.672	0 %100
18	M76	Z	2.12	2.12	0 %100
19	M77	X	-4.964	-4.964	0 %100
20	M77	Z	2.866	2.866	0 %100
21	M80	X	-5.165	-5.165	0 %100
22	M80	Z	2.982	2.982	0 %100
23	M84	X	-3.672	-3.672	0 %100
24	M84	Z	2.12	2.12	0 %100
25	M85	X	-1.241	-1.241	0 %100
26	M85	Z	.716	.716	0 %100
27	M91	X	-1.291	-1.291	0 %100
28	M91	Z	.745	.745	0 %100
29	MP2A	X	-3.848	-3.848	0 %100
30	MP2A	Z	2.221	2.221	0 %100
31	MP4A	X	-3.848	-3.848	0 %100
32	MP4A	Z	2.221	2.221	0 %100
33	MP3A	X	-3.848	-3.848	0 %100
34	MP3A	Z	2.221	2.221	0 %100
35	M34	X	-4.231	-4.231	0 %100
36	M34	Z	2.443	2.443	0 %100
37	M35	X	0	0	0 %100
38	M35	Z	0	0	0 %100
39	M36	X	-3.288	-3.288	0 %100
40	M36	Z	1.898	1.898	0 %100
41	MP1C	X	-3.848	-3.848	0 %100
42	MP1C	Z	2.221	2.221	0 %100
43	M39	X	-3.288	-3.288	0 %100
44	M39	Z	1.898	1.898	0 %100
45	M40	X	-4.94	-4.94	0 %100
46	M40	Z	2.852	2.852	0 %100
47	M43A	X	-.932	-.932	0 %100
48	M43A	Z	.538	.538	0 %100
49	M44	X	-.932	-.932	0 %100
50	M44	Z	.538	.538	0 %100
51	M48	X	0	0	0 %100
52	M48	Z	0	0	0 %100
53	M49	X	-1.241	-1.241	0 %100
54	M49	Z	.716	.716	0 %100
55	M51C	X	-1.291	-1.291	0 %100
56	M51C	Z	.745	.745	0 %100
57	M53	X	0	0	0 %100
58	M53	Z	0	0	0 %100
59	M54	X	-1.241	-1.241	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
60	M54	Z	.716	.716	0 %100
61	M56	X	-1.291	-1.291	0 %100
62	M56	Z	.745	.745	0 %100
63	MP2C	X	-3.848	-3.848	0 %100
64	MP2C	Z	2.221	2.221	0 %100
65	MP4C	X	-3.848	-3.848	0 %100
66	MP4C	Z	2.221	2.221	0 %100
67	MP3C	X	-3.848	-3.848	0 %100
68	MP3C	Z	2.221	2.221	0 %100
69	M67	X	-1.058	-1.058	0 %100
70	M67	Z	.611	.611	0 %100
71	M68	X	-3.005	-3.005	0 %100
72	M68	Z	1.735	1.735	0 %100
73	M69	X	-.822	-.822	0 %100
74	M69	Z	.475	.475	0 %100
75	MP1B	X	-3.848	-3.848	0 %100
76	MP1B	Z	2.221	2.221	0 %100
77	M72	X	-.822	-.822	0 %100
78	M72	Z	.475	.475	0 %100
79	M73	X	-1.235	-1.235	0 %100
80	M73	Z	.713	.713	0 %100
81	M76A	X	-.932	-.932	0 %100
82	M76A	Z	.538	.538	0 %100
83	M77A	X	-3.73	-3.73	0 %100
84	M77A	Z	2.153	2.153	0 %100
85	M81	X	-3.672	-3.672	0 %100
86	M81	Z	2.12	2.12	0 %100
87	M82	X	-1.241	-1.241	0 %100
88	M82	Z	.716	.716	0 %100
89	M84A	X	-1.291	-1.291	0 %100
90	M84A	Z	.745	.745	0 %100
91	M86	X	-3.672	-3.672	0 %100
92	M86	Z	2.12	2.12	0 %100
93	M87	X	-4.964	-4.964	0 %100
94	M87	Z	2.866	2.866	0 %100
95	M89	X	-5.165	-5.165	0 %100
96	M89	Z	2.982	2.982	0 %100
97	MP2B	X	-3.848	-3.848	0 %100
98	MP2B	Z	2.221	2.221	0 %100
99	MP4B	X	-3.848	-3.848	0 %100
100	MP4B	Z	2.221	2.221	0 %100
101	MP3B	X	-3.848	-3.848	0 %100
102	MP3B	Z	2.221	2.221	0 %100
103	M104	X	-.885	-.885	0 %100
104	M104	Z	.511	.511	0 %100
105	M109	X	-3.541	-3.541	0 %100
106	M109	Z	2.044	2.044	0 %100
107	M114	X	-.885	-.885	0 %100
108	M114	Z	.511	.511	0 %100
109	M121	X	-3.061	-3.061	0 %100
110	M121	Z	1.767	1.767	0 %100
111	M122	X	-.765	-.765	0 %100
112	M122	Z	.442	.442	0 %100
113	M123	X	-.765	-.765	0 %100
114	M123	Z	.442	.442	0 %100
115	OVP1	X	-2.884	-2.884	0 %100
116	OVP1	Z	1.665	1.665	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
117	OVP2	X	-2.884	-2.884	0	%100
118	OVP2	Z	1.665	1.665	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-4.626	-4.626	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP1A	X	-4.443	-4.443	0	%100
8	MP1A	Z	0	0	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	0	0	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	0	0	0	%100
13	M51B	X	-3.23	-3.23	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	-3.23	-3.23	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	-5.653	-5.653	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	-4.299	-4.299	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	-4.473	-4.473	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	-5.653	-5.653	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	-4.299	-4.299	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	-4.473	-4.473	0	%100
28	M91	Z	0	0	0	%100
29	MP2A	X	-4.443	-4.443	0	%100
30	MP2A	Z	0	0	0	%100
31	MP4A	X	-4.443	-4.443	0	%100
32	MP4A	Z	0	0	0	%100
33	MP3A	X	-4.443	-4.443	0	%100
34	MP3A	Z	0	0	0	%100
35	M34	X	-3.664	-3.664	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	-1.157	-1.157	0	%100
38	M35	Z	0	0	0	%100
39	M36	X	-2.847	-2.847	0	%100
40	M36	Z	0	0	0	%100
41	MP1C	X	-4.443	-4.443	0	%100
42	MP1C	Z	0	0	0	%100
43	M39	X	-2.847	-2.847	0	%100
44	M39	Z	0	0	0	%100
45	M40	X	-4.278	-4.278	0	%100
46	M40	Z	0	0	0	%100
47	M43A	X	-3.23	-3.23	0	%100
48	M43A	Z	0	0	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	0	0	0	%100
51	M48	X	-1.413	-1.413	0	%100



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

Member Label	Direction	Start Magnitude lb/ft,...	End Magnitude lb/ft,F...	Start Location ft,%	End Location ft,%
52	M48	Z	0	0	%100
53	M49	X	-4.299	-4.299	%100
54	M49	Z	0	0	%100
55	M51C	X	-4.473	-4.473	%100
56	M51C	Z	0	0	%100
57	M53	X	-1.413	-1.413	%100
58	M53	Z	0	0	%100
59	M54	X	0	0	%100
60	M54	Z	0	0	%100
61	M56	X	0	0	%100
62	M56	Z	0	0	%100
63	MP2C	X	-4.443	-4.443	%100
64	MP2C	Z	0	0	%100
65	MP4C	X	-4.443	-4.443	%100
66	MP4C	Z	0	0	%100
67	MP3C	X	-4.443	-4.443	%100
68	MP3C	Z	0	0	%100
69	M67	X	-3.664	-3.664	%100
70	M67	Z	0	0	%100
71	M68	X	-1.157	-1.157	%100
72	M68	Z	0	0	%100
73	M69	X	-2.847	-2.847	%100
74	M69	Z	0	0	%100
75	MP1B	X	-4.443	-4.443	%100
76	MP1B	Z	0	0	%100
77	M72	X	-2.847	-2.847	%100
78	M72	Z	0	0	%100
79	M73	X	-4.278	-4.278	%100
80	M73	Z	0	0	%100
81	M76A	X	0	0	%100
82	M76A	Z	0	0	%100
83	M77A	X	-3.23	-3.23	%100
84	M77A	Z	0	0	%100
85	M81	X	-1.413	-1.413	%100
86	M81	Z	0	0	%100
87	M82	X	0	0	%100
88	M82	Z	0	0	%100
89	M84A	X	0	0	%100
90	M84A	Z	0	0	%100
91	M86	X	-1.413	-1.413	%100
92	M86	Z	0	0	%100
93	M87	X	-4.299	-4.299	%100
94	M87	Z	0	0	%100
95	M89	X	-4.473	-4.473	%100
96	M89	Z	0	0	%100
97	MP2B	X	-4.443	-4.443	%100
98	MP2B	Z	0	0	%100
99	MP4B	X	-4.443	-4.443	%100
100	MP4B	Z	0	0	%100
101	MP3B	X	-4.443	-4.443	%100
102	MP3B	Z	0	0	%100
103	M104	X	0	0	%100
104	M104	Z	0	0	%100
105	M109	X	-3.067	-3.067	%100
106	M109	Z	0	0	%100
107	M114	X	-3.067	-3.067	%100
108	M114	Z	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
109	M121	X	-2.651	-2.651	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	-2.651	-2.651	0	%100
114	M123	Z	0	0	0	%100
115	OVP1	X	-3.33	-3.33	0	%100
116	OVP1	Z	0	0	0	%100
117	OVP2	X	-3.33	-3.33	0	%100
118	OVP2	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	M1	X	-1.058	-1.058	0	%100
2	M1	Z	-.611	-.611	0	%100
3	M4	X	-3.005	-3.005	0	%100
4	M4	Z	-1.735	-1.735	0	%100
5	M10	X	-.822	-.822	0	%100
6	M10	Z	-.475	-.475	0	%100
7	MP1A	X	-3.848	-3.848	0	%100
8	MP1A	Z	-2.221	-2.221	0	%100
9	M43	X	-.822	-.822	0	%100
10	M43	Z	-.475	-.475	0	%100
11	M46	X	-1.235	-1.235	0	%100
12	M46	Z	-.713	-.713	0	%100
13	M51B	X	-.932	-.932	0	%100
14	M51B	Z	-.538	-.538	0	%100
15	M52B	X	-3.73	-3.73	0	%100
16	M52B	Z	-2.153	-2.153	0	%100
17	M76	X	-3.672	-3.672	0	%100
18	M76	Z	-2.12	-2.12	0	%100
19	M77	X	-1.241	-1.241	0	%100
20	M77	Z	-.716	-.716	0	%100
21	M80	X	-1.291	-1.291	0	%100
22	M80	Z	-.745	-.745	0	%100
23	M84	X	-3.672	-3.672	0	%100
24	M84	Z	-2.12	-2.12	0	%100
25	M85	X	-4.964	-4.964	0	%100
26	M85	Z	-2.866	-2.866	0	%100
27	M91	X	-5.165	-5.165	0	%100
28	M91	Z	-2.982	-2.982	0	%100
29	MP2A	X	-3.848	-3.848	0	%100
30	MP2A	Z	-2.221	-2.221	0	%100
31	MP4A	X	-3.848	-3.848	0	%100
32	MP4A	Z	-2.221	-2.221	0	%100
33	MP3A	X	-3.848	-3.848	0	%100
34	MP3A	Z	-2.221	-2.221	0	%100
35	M34	X	-1.058	-1.058	0	%100
36	M34	Z	-.611	-.611	0	%100
37	M35	X	-3.005	-3.005	0	%100
38	M35	Z	-1.735	-1.735	0	%100
39	M36	X	-.822	-.822	0	%100
40	M36	Z	-.475	-.475	0	%100
41	MP1C	X	-3.848	-3.848	0	%100
42	MP1C	Z	-2.221	-2.221	0	%100
43	M39	X	-.822	-.822	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
44	M39	Z	-475	-475	0	%100
45	M40	X	-1.235	-1.235	0	%100
46	M40	Z	-713	-713	0	%100
47	M43A	X	-3.73	-3.73	0	%100
48	M43A	Z	-2.153	-2.153	0	%100
49	M44	X	-932	-932	0	%100
50	M44	Z	-538	-538	0	%100
51	M48	X	-3.672	-3.672	0	%100
52	M48	Z	-2.12	-2.12	0	%100
53	M49	X	-4.964	-4.964	0	%100
54	M49	Z	-2.866	-2.866	0	%100
55	M51C	X	-5.165	-5.165	0	%100
56	M51C	Z	-2.982	-2.982	0	%100
57	M53	X	-3.672	-3.672	0	%100
58	M53	Z	-2.12	-2.12	0	%100
59	M54	X	-1.241	-1.241	0	%100
60	M54	Z	-716	-716	0	%100
61	M56	X	-1.291	-1.291	0	%100
62	M56	Z	-745	-745	0	%100
63	MP2C	X	-3.848	-3.848	0	%100
64	MP2C	Z	-2.221	-2.221	0	%100
65	MP4C	X	-3.848	-3.848	0	%100
66	MP4C	Z	-2.221	-2.221	0	%100
67	MP3C	X	-3.848	-3.848	0	%100
68	MP3C	Z	-2.221	-2.221	0	%100
69	M67	X	-4.231	-4.231	0	%100
70	M67	Z	-2.443	-2.443	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	0	0	0	%100
73	M69	X	-3.288	-3.288	0	%100
74	M69	Z	-1.898	-1.898	0	%100
75	MP1B	X	-3.848	-3.848	0	%100
76	MP1B	Z	-2.221	-2.221	0	%100
77	M72	X	-3.288	-3.288	0	%100
78	M72	Z	-1.898	-1.898	0	%100
79	M73	X	-4.94	-4.94	0	%100
80	M73	Z	-2.852	-2.852	0	%100
81	M76A	X	-932	-932	0	%100
82	M76A	Z	-538	-538	0	%100
83	M77A	X	-932	-932	0	%100
84	M77A	Z	-538	-538	0	%100
85	M81	X	0	0	0	%100
86	M81	Z	0	0	0	%100
87	M82	X	-1.241	-1.241	0	%100
88	M82	Z	-716	-716	0	%100
89	M84A	X	-1.291	-1.291	0	%100
90	M84A	Z	-745	-745	0	%100
91	M86	X	0	0	0	%100
92	M86	Z	0	0	0	%100
93	M87	X	-1.241	-1.241	0	%100
94	M87	Z	-716	-716	0	%100
95	M89	X	-1.291	-1.291	0	%100
96	M89	Z	-745	-745	0	%100
97	MP2B	X	-3.848	-3.848	0	%100
98	MP2B	Z	-2.221	-2.221	0	%100
99	MP4B	X	-3.848	-3.848	0	%100
100	MP4B	Z	-2.221	-2.221	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
101	MP3B	X	-3.848	-3.848	0	%100
102	MP3B	Z	-2.221	-2.221	0	%100
103	M104	X	-.885	-.885	0	%100
104	M104	Z	-.511	-.511	0	%100
105	M109	X	-.885	-.885	0	%100
106	M109	Z	-.511	-.511	0	%100
107	M114	X	-3.541	-3.541	0	%100
108	M114	Z	-2.044	-2.044	0	%100
109	M121	X	-.765	-.765	0	%100
110	M121	Z	-.442	-.442	0	%100
111	M122	X	-.765	-.765	0	%100
112	M122	Z	-.442	-.442	0	%100
113	M123	X	-3.061	-3.061	0	%100
114	M123	Z	-1.767	-1.767	0	%100
115	OVP1	X	-2.884	-2.884	0	%100
116	OVP1	Z	-1.665	-1.665	0	%100
117	OVP2	X	-2.884	-2.884	0	%100
118	OVP2	Z	-1.665	-1.665	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.832	-1.832	0	%100
2	M1	Z	-3.173	-3.173	0	%100
3	M4	X	-.578	-.578	0	%100
4	M4	Z	-1.002	-1.002	0	%100
5	M10	X	-1.424	-1.424	0	%100
6	M10	Z	-2.466	-2.466	0	%100
7	MP1A	X	-2.221	-2.221	0	%100
8	MP1A	Z	-3.848	-3.848	0	%100
9	M43	X	-1.424	-1.424	0	%100
10	M43	Z	-2.466	-2.466	0	%100
11	M46	X	-2.139	-2.139	0	%100
12	M46	Z	-3.705	-3.705	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	-1.615	-1.615	0	%100
16	M52B	Z	-2.797	-2.797	0	%100
17	M76	X	-.707	-.707	0	%100
18	M76	Z	-1.224	-1.224	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	-.707	-.707	0	%100
24	M84	Z	-1.224	-1.224	0	%100
25	M85	X	-2.149	-2.149	0	%100
26	M85	Z	-3.723	-3.723	0	%100
27	M91	X	-2.236	-2.236	0	%100
28	M91	Z	-3.873	-3.873	0	%100
29	MP2A	X	-2.221	-2.221	0	%100
30	MP2A	Z	-3.848	-3.848	0	%100
31	MP4A	X	-2.221	-2.221	0	%100
32	MP4A	Z	-3.848	-3.848	0	%100
33	MP3A	X	-2.221	-2.221	0	%100
34	MP3A	Z	-3.848	-3.848	0	%100
35	M34	X	0	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
36	M34	Z	0	0	%100
37	M35	X	-2.313	-2.313	%100
38	M35	Z	-4.007	-4.007	%100
39	M36	X	0	0	%100
40	M36	Z	0	0	%100
41	MP1C	X	-2.221	-2.221	%100
42	MP1C	Z	-3.848	-3.848	%100
43	M39	X	0	0	%100
44	M39	Z	0	0	%100
45	M40	X	0	0	%100
46	M40	Z	0	0	%100
47	M43A	X	-1.615	-1.615	%100
48	M43A	Z	-2.797	-2.797	%100
49	M44	X	-1.615	-1.615	%100
50	M44	Z	-2.797	-2.797	%100
51	M48	X	-2.827	-2.827	%100
52	M48	Z	-4.896	-4.896	%100
53	M49	X	-2.149	-2.149	%100
54	M49	Z	-3.723	-3.723	%100
55	M51C	X	-2.236	-2.236	%100
56	M51C	Z	-3.873	-3.873	%100
57	M53	X	-2.827	-2.827	%100
58	M53	Z	-4.896	-4.896	%100
59	M54	X	-2.149	-2.149	%100
60	M54	Z	-3.723	-3.723	%100
61	M56	X	-2.236	-2.236	%100
62	M56	Z	-3.873	-3.873	%100
63	MP2C	X	-2.221	-2.221	%100
64	MP2C	Z	-3.848	-3.848	%100
65	MP4C	X	-2.221	-2.221	%100
66	MP4C	Z	-3.848	-3.848	%100
67	MP3C	X	-2.221	-2.221	%100
68	MP3C	Z	-3.848	-3.848	%100
69	M67	X	-1.832	-1.832	%100
70	M67	Z	-3.173	-3.173	%100
71	M68	X	-.578	-.578	%100
72	M68	Z	-1.002	-1.002	%100
73	M69	X	-1.424	-1.424	%100
74	M69	Z	-2.466	-2.466	%100
75	MP1B	X	-2.221	-2.221	%100
76	MP1B	Z	-3.848	-3.848	%100
77	M72	X	-1.424	-1.424	%100
78	M72	Z	-2.466	-2.466	%100
79	M73	X	-2.139	-2.139	%100
80	M73	Z	-3.705	-3.705	%100
81	M76A	X	-1.615	-1.615	%100
82	M76A	Z	-2.797	-2.797	%100
83	M77A	X	0	0	%100
84	M77A	Z	0	0	%100
85	M81	X	-.707	-.707	%100
86	M81	Z	-1.224	-1.224	%100
87	M82	X	-2.149	-2.149	%100
88	M82	Z	-3.723	-3.723	%100
89	M84A	X	-2.236	-2.236	%100
90	M84A	Z	-3.873	-3.873	%100
91	M86	X	-.707	-.707	%100
92	M86	Z	-1.224	-1.224	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
93	M87	X	0	0	0	%100
94	M87	Z	0	0	0	%100
95	M89	X	0	0	0	%100
96	M89	Z	0	0	0	%100
97	MP2B	X	-2.221	-2.221	0	%100
98	MP2B	Z	-3.848	-3.848	0	%100
99	MP4B	X	-2.221	-2.221	0	%100
100	MP4B	Z	-3.848	-3.848	0	%100
101	MP3B	X	-2.221	-2.221	0	%100
102	MP3B	Z	-3.848	-3.848	0	%100
103	M104	X	-1.533	-1.533	0	%100
104	M104	Z	-2.656	-2.656	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	-1.533	-1.533	0	%100
108	M114	Z	-2.656	-2.656	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	-1.325	-1.325	0	%100
112	M122	Z	-2.296	-2.296	0	%100
113	M123	X	-1.325	-1.325	0	%100
114	M123	Z	-2.296	-2.296	0	%100
115	OVP1	X	-1.665	-1.665	0	%100
116	OVP1	Z	-2.884	-2.884	0	%100
117	OVP2	X	-1.665	-1.665	0	%100
118	OVP2	Z	-2.884	-2.884	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	-.889	-.889	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-.767	-.767	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	-.733	-.733	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	-.767	-.767	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	-1.53	-1.53	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	-.212	-.212	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	-.212	-.212	0	%100
17	M76	X	0	0	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	-.389	-.389	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	-.41	-.41	0	%100
23	M84	X	0	0	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	-.389	-.389	0	%100
27	M91	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude lb/ft,...	End Magnitude lb/ft,F...	Start Location ft,%	End Location ft,%
28	M91	Z	-.41	-.41	0	%100
29	MP2A	X	0	0	0	%100
30	MP2A	Z	-.733	-.733	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	-.733	-.733	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	-.733	-.733	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	-.222	-.222	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	-.68	-.68	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	-.192	-.192	0	%100
41	MP1C	X	0	0	0	%100
42	MP1C	Z	-.733	-.733	0	%100
43	M39	X	0	0	0	%100
44	M39	Z	-.192	-.192	0	%100
45	M40	X	0	0	0	%100
46	M40	Z	-.382	-.382	0	%100
47	M43A	X	0	0	0	%100
48	M43A	Z	-.212	-.212	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	-.849	-.849	0	%100
51	M48	X	0	0	0	%100
52	M48	Z	-1.147	-1.147	0	%100
53	M49	X	0	0	0	%100
54	M49	Z	-.389	-.389	0	%100
55	M51C	X	0	0	0	%100
56	M51C	Z	-.41	-.41	0	%100
57	M53	X	0	0	0	%100
58	M53	Z	-1.147	-1.147	0	%100
59	M54	X	0	0	0	%100
60	M54	Z	-1.558	-1.558	0	%100
61	M56	X	0	0	0	%100
62	M56	Z	-1.641	-1.641	0	%100
63	MP2C	X	0	0	0	%100
64	MP2C	Z	-.733	-.733	0	%100
65	MP4C	X	0	0	0	%100
66	MP4C	Z	-.733	-.733	0	%100
67	MP3C	X	0	0	0	%100
68	MP3C	Z	-.733	-.733	0	%100
69	M67	X	0	0	0	%100
70	M67	Z	-.222	-.222	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	-.68	-.68	0	%100
73	M69	X	0	0	0	%100
74	M69	Z	-.192	-.192	0	%100
75	MP1B	X	0	0	0	%100
76	MP1B	Z	-.733	-.733	0	%100
77	M72	X	0	0	0	%100
78	M72	Z	-.192	-.192	0	%100
79	M73	X	0	0	0	%100
80	M73	Z	-.382	-.382	0	%100
81	M76A	X	0	0	0	%100
82	M76A	Z	-.849	-.849	0	%100
83	M77A	X	0	0	0	%100
84	M77A	Z	-.212	-.212	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, %]
85	M81	X	0	0	0	%100
86	M81	Z	-1.147	-1.147	0	%100
87	M82	X	0	0	0	%100
88	M82	Z	-1.558	-1.558	0	%100
89	M84A	X	0	0	0	%100
90	M84A	Z	-1.641	-1.641	0	%100
91	M86	X	0	0	0	%100
92	M86	Z	-1.147	-1.147	0	%100
93	M87	X	0	0	0	%100
94	M87	Z	-.389	-.389	0	%100
95	M89	X	0	0	0	%100
96	M89	Z	-.41	-.41	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	-.733	-.733	0	%100
99	MP4B	X	0	0	0	%100
100	MP4B	Z	-.733	-.733	0	%100
101	MP3B	X	0	0	0	%100
102	MP3B	Z	-.733	-.733	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	-.605	-.605	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	-.151	-.151	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	-.151	-.151	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	-.183	-.183	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	-.731	-.731	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	-.183	-.183	0	%100
115	OVP1	X	0	0	0	%100
116	OVP1	Z	-.564	-.564	0	%100
117	OVP2	X	0	0	0	%100
118	OVP2	Z	-.564	-.564	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.333	.333	0	%100
2	M1	Z	-.577	-.577	0	%100
3	M4	X	.113	.113	0	%100
4	M4	Z	-.196	-.196	0	%100
5	M10	X	.288	.288	0	%100
6	M10	Z	-.498	-.498	0	%100
7	MP1A	X	.366	.366	0	%100
8	MP1A	Z	-.635	-.635	0	%100
9	M43	X	.288	.288	0	%100
10	M43	Z	-.498	-.498	0	%100
11	M46	X	.574	.574	0	%100
12	M46	Z	-.994	-.994	0	%100
13	M51B	X	.319	.319	0	%100
14	M51B	Z	-.552	-.552	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	.191	.191	0	%100
18	M76	Z	-.331	-.331	0	%100
19	M77	X	.584	.584	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,%]
20	M77	Z	-1.012	-1.012	0 %100
21	M80	X	.615	.615	0 %100
22	M80	Z	-1.066	-1.066	0 %100
23	M84	X	.191	.191	0 %100
24	M84	Z	-.331	-.331	0 %100
25	M85	X	0	0	0 %100
26	M85	Z	0	0	0 %100
27	M91	X	0	0	0 %100
28	M91	Z	0	0	0 %100
29	MP2A	X	.366	.366	0 %100
30	MP2A	Z	-.635	-.635	0 %100
31	MP4A	X	.366	.366	0 %100
32	MP4A	Z	-.635	-.635	0 %100
33	MP3A	X	.366	.366	0 %100
34	MP3A	Z	-.635	-.635	0 %100
35	M34	X	.333	.333	0 %100
36	M34	Z	-.577	-.577	0 %100
37	M35	X	.113	.113	0 %100
38	M35	Z	-.196	-.196	0 %100
39	M36	X	.288	.288	0 %100
40	M36	Z	-.498	-.498	0 %100
41	MP1C	X	.366	.366	0 %100
42	MP1C	Z	-.635	-.635	0 %100
43	M39	X	.288	.288	0 %100
44	M39	Z	-.498	-.498	0 %100
45	M40	X	.574	.574	0 %100
46	M40	Z	-.994	-.994	0 %100
47	M43A	X	0	0	0 %100
48	M43A	Z	0	0	0 %100
49	M44	X	.319	.319	0 %100
50	M44	Z	-.552	-.552	0 %100
51	M48	X	.191	.191	0 %100
52	M48	Z	-.331	-.331	0 %100
53	M49	X	0	0	0 %100
54	M49	Z	0	0	0 %100
55	M51C	X	0	0	0 %100
56	M51C	Z	0	0	0 %100
57	M53	X	.191	.191	0 %100
58	M53	Z	-.331	-.331	0 %100
59	M54	X	.584	.584	0 %100
60	M54	Z	-1.012	-1.012	0 %100
61	M56	X	.615	.615	0 %100
62	M56	Z	-1.066	-1.066	0 %100
63	MP2C	X	.366	.366	0 %100
64	MP2C	Z	-.635	-.635	0 %100
65	MP4C	X	.366	.366	0 %100
66	MP4C	Z	-.635	-.635	0 %100
67	MP3C	X	.366	.366	0 %100
68	MP3C	Z	-.635	-.635	0 %100
69	M67	X	0	0	0 %100
70	M67	Z	0	0	0 %100
71	M68	X	.453	.453	0 %100
72	M68	Z	-.785	-.785	0 %100
73	M69	X	0	0	0 %100
74	M69	Z	0	0	0 %100
75	MP1B	X	.366	.366	0 %100
76	MP1B	Z	-.635	-.635	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, %]
77	M72	X	0	0	0	%100
78	M72	Z	0	0	0	%100
79	M73	X	0	0	0	%100
80	M73	Z	0	0	0	%100
81	M76A	X	.319	.319	0	%100
82	M76A	Z	-.552	-.552	0	%100
83	M77A	X	.319	.319	0	%100
84	M77A	Z	-.552	-.552	0	%100
85	M81	X	.765	.765	0	%100
86	M81	Z	-1.325	-1.325	0	%100
87	M82	X	.584	.584	0	%100
88	M82	Z	-1.012	-1.012	0	%100
89	M84A	X	.615	.615	0	%100
90	M84A	Z	-1.066	-1.066	0	%100
91	M86	X	.765	.765	0	%100
92	M86	Z	-1.325	-1.325	0	%100
93	M87	X	.584	.584	0	%100
94	M87	Z	-1.012	-1.012	0	%100
95	M89	X	.615	.615	0	%100
96	M89	Z	-1.066	-1.066	0	%100
97	MP2B	X	.366	.366	0	%100
98	MP2B	Z	-.635	-.635	0	%100
99	MP4B	X	.366	.366	0	%100
100	MP4B	Z	-.635	-.635	0	%100
101	MP3B	X	.366	.366	0	%100
102	MP3B	Z	-.635	-.635	0	%100
103	M104	X	.227	.227	0	%100
104	M104	Z	-.393	-.393	0	%100
105	M109	X	.227	.227	0	%100
106	M109	Z	-.393	-.393	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	0	0	0	%100
109	M121	X	.274	.274	0	%100
110	M121	Z	-.475	-.475	0	%100
111	M122	X	.274	.274	0	%100
112	M122	Z	-.475	-.475	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	0	0	0	%100
115	OVP1	X	.282	.282	0	%100
116	OVP1	Z	-.488	-.488	0	%100
117	OVP2	X	.282	.282	0	%100
118	OVP2	Z	-.488	-.488	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.192	.192	0	%100
2	M1	Z	-.111	-.111	0	%100
3	M4	X	.589	.589	0	%100
4	M4	Z	-.34	-.34	0	%100
5	M10	X	.166	.166	0	%100
6	M10	Z	-.096	-.096	0	%100
7	MP1A	X	.635	.635	0	%100
8	MP1A	Z	-.366	-.366	0	%100
9	M43	X	.166	.166	0	%100
10	M43	Z	-.096	-.096	0	%100
11	M46	X	.331	.331	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
12	M46	Z	-.191	-.191	0	%100
13	M51B	X	.736	.736	0	%100
14	M51B	Z	-.425	-.425	0	%100
15	M52B	X	.184	.184	0	%100
16	M52B	Z	-.106	-.106	0	%100
17	M76	X	.994	.994	0	%100
18	M76	Z	-.574	-.574	0	%100
19	M77	X	1.349	1.349	0	%100
20	M77	Z	-.779	-.779	0	%100
21	M80	X	1.421	1.421	0	%100
22	M80	Z	-.82	-.82	0	%100
23	M84	X	.994	.994	0	%100
24	M84	Z	-.574	-.574	0	%100
25	M85	X	.337	.337	0	%100
26	M85	Z	-.195	-.195	0	%100
27	M91	X	.355	.355	0	%100
28	M91	Z	-.205	-.205	0	%100
29	MP2A	X	.635	.635	0	%100
30	MP2A	Z	-.366	-.366	0	%100
31	MP4A	X	.635	.635	0	%100
32	MP4A	Z	-.366	-.366	0	%100
33	MP3A	X	.635	.635	0	%100
34	MP3A	Z	-.366	-.366	0	%100
35	M34	X	.77	.77	0	%100
36	M34	Z	-.444	-.444	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	0	0	0	%100
39	M36	X	.664	.664	0	%100
40	M36	Z	-.383	-.383	0	%100
41	MP1C	X	.635	.635	0	%100
42	MP1C	Z	-.366	-.366	0	%100
43	M39	X	.664	.664	0	%100
44	M39	Z	-.383	-.383	0	%100
45	M40	X	1.325	1.325	0	%100
46	M40	Z	-.765	-.765	0	%100
47	M43A	X	.184	.184	0	%100
48	M43A	Z	-.106	-.106	0	%100
49	M44	X	.184	.184	0	%100
50	M44	Z	-.106	-.106	0	%100
51	M48	X	0	0	0	%100
52	M48	Z	0	0	0	%100
53	M49	X	.337	.337	0	%100
54	M49	Z	-.195	-.195	0	%100
55	M51C	X	.355	.355	0	%100
56	M51C	Z	-.205	-.205	0	%100
57	M53	X	0	0	0	%100
58	M53	Z	0	0	0	%100
59	M54	X	.337	.337	0	%100
60	M54	Z	-.195	-.195	0	%100
61	M56	X	.355	.355	0	%100
62	M56	Z	-.205	-.205	0	%100
63	MP2C	X	.635	.635	0	%100
64	MP2C	Z	-.366	-.366	0	%100
65	MP4C	X	.635	.635	0	%100
66	MP4C	Z	-.366	-.366	0	%100
67	MP3C	X	.635	.635	0	%100
68	MP3C	Z	-.366	-.366	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
69	M67	X	.192	.192	0	%100
70	M67	Z	-.111	-.111	0	%100
71	M68	X	.589	.589	0	%100
72	M68	Z	-.34	-.34	0	%100
73	M69	X	.166	.166	0	%100
74	M69	Z	-.096	-.096	0	%100
75	MP1B	X	.635	.635	0	%100
76	MP1B	Z	-.366	-.366	0	%100
77	M72	X	.166	.166	0	%100
78	M72	Z	-.096	-.096	0	%100
79	M73	X	.331	.331	0	%100
80	M73	Z	-.191	-.191	0	%100
81	M76A	X	.184	.184	0	%100
82	M76A	Z	-.106	-.106	0	%100
83	M77A	X	.736	.736	0	%100
84	M77A	Z	-.425	-.425	0	%100
85	M81	X	.994	.994	0	%100
86	M81	Z	-.574	-.574	0	%100
87	M82	X	.337	.337	0	%100
88	M82	Z	-.195	-.195	0	%100
89	M84A	X	.355	.355	0	%100
90	M84A	Z	-.205	-.205	0	%100
91	M86	X	.994	.994	0	%100
92	M86	Z	-.574	-.574	0	%100
93	M87	X	1.349	1.349	0	%100
94	M87	Z	-.779	-.779	0	%100
95	M89	X	1.421	1.421	0	%100
96	M89	Z	-.82	-.82	0	%100
97	MP2B	X	.635	.635	0	%100
98	MP2B	Z	-.366	-.366	0	%100
99	MP4B	X	.635	.635	0	%100
100	MP4B	Z	-.366	-.366	0	%100
101	MP3B	X	.635	.635	0	%100
102	MP3B	Z	-.366	-.366	0	%100
103	M104	X	.131	.131	0	%100
104	M104	Z	-.076	-.076	0	%100
105	M109	X	.524	.524	0	%100
106	M109	Z	-.303	-.303	0	%100
107	M114	X	.131	.131	0	%100
108	M114	Z	-.076	-.076	0	%100
109	M121	X	.633	.633	0	%100
110	M121	Z	-.365	-.365	0	%100
111	M122	X	.158	.158	0	%100
112	M122	Z	-.091	-.091	0	%100
113	M123	X	.158	.158	0	%100
114	M123	Z	-.091	-.091	0	%100
115	OVP1	X	.488	.488	0	%100
116	OVP1	Z	-.282	-.282	0	%100
117	OVP2	X	.488	.488	0	%100
118	OVP2	Z	-.282	-.282	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	.906	.906	0	%100



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

	Member Label	Direction	Start Magnitude lb/ft,...	End Magnitude lb/ft,F...	Start Location ft,%	End Location ft,%
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP1A	X	.733	.733	0	%100
8	MP1A	Z	0	0	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	0	0	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	0	0	0	%100
13	M51B	X	.637	.637	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	.637	.637	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	1.53	1.53	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	1.168	1.168	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	1.231	1.231	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	1.53	1.53	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	1.168	1.168	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	1.231	1.231	0	%100
28	M91	Z	0	0	0	%100
29	MP2A	X	.733	.733	0	%100
30	MP2A	Z	0	0	0	%100
31	MP4A	X	.733	.733	0	%100
32	MP4A	Z	0	0	0	%100
33	MP3A	X	.733	.733	0	%100
34	MP3A	Z	0	0	0	%100
35	M34	X	.667	.667	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	.227	.227	0	%100
38	M35	Z	0	0	0	%100
39	M36	X	.575	.575	0	%100
40	M36	Z	0	0	0	%100
41	MP1C	X	.733	.733	0	%100
42	MP1C	Z	0	0	0	%100
43	M39	X	.575	.575	0	%100
44	M39	Z	0	0	0	%100
45	M40	X	1.147	1.147	0	%100
46	M40	Z	0	0	0	%100
47	M43A	X	.637	.637	0	%100
48	M43A	Z	0	0	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	0	0	0	%100
51	M48	X	.382	.382	0	%100
52	M48	Z	0	0	0	%100
53	M49	X	1.168	1.168	0	%100
54	M49	Z	0	0	0	%100
55	M51C	X	1.231	1.231	0	%100
56	M51C	Z	0	0	0	%100
57	M53	X	.382	.382	0	%100
58	M53	Z	0	0	0	%100
59	M54	X	0	0	0	%100
60	M54	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
61	M56	X	0	0	0	%100
62	M56	Z	0	0	0	%100
63	MP2C	X	.733	.733	0	%100
64	MP2C	Z	0	0	0	%100
65	MP4C	X	.733	.733	0	%100
66	MP4C	Z	0	0	0	%100
67	MP3C	X	.733	.733	0	%100
68	MP3C	Z	0	0	0	%100
69	M67	X	.667	.667	0	%100
70	M67	Z	0	0	0	%100
71	M68	X	.227	.227	0	%100
72	M68	Z	0	0	0	%100
73	M69	X	.575	.575	0	%100
74	M69	Z	0	0	0	%100
75	MP1B	X	.733	.733	0	%100
76	MP1B	Z	0	0	0	%100
77	M72	X	.575	.575	0	%100
78	M72	Z	0	0	0	%100
79	M73	X	1.147	1.147	0	%100
80	M73	Z	0	0	0	%100
81	M76A	X	0	0	0	%100
82	M76A	Z	0	0	0	%100
83	M77A	X	.637	.637	0	%100
84	M77A	Z	0	0	0	%100
85	M81	X	.382	.382	0	%100
86	M81	Z	0	0	0	%100
87	M82	X	0	0	0	%100
88	M82	Z	0	0	0	%100
89	M84A	X	0	0	0	%100
90	M84A	Z	0	0	0	%100
91	M86	X	.382	.382	0	%100
92	M86	Z	0	0	0	%100
93	M87	X	1.168	1.168	0	%100
94	M87	Z	0	0	0	%100
95	M89	X	1.231	1.231	0	%100
96	M89	Z	0	0	0	%100
97	MP2B	X	.733	.733	0	%100
98	MP2B	Z	0	0	0	%100
99	MP4B	X	.733	.733	0	%100
100	MP4B	Z	0	0	0	%100
101	MP3B	X	.733	.733	0	%100
102	MP3B	Z	0	0	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	0	0	0	%100
105	M109	X	.454	.454	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	.454	.454	0	%100
108	M114	Z	0	0	0	%100
109	M121	X	.548	.548	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	.548	.548	0	%100
114	M123	Z	0	0	0	%100
115	OVP1	X	.564	.564	0	%100
116	OVP1	Z	0	0	0	%100
117	OVP2	X	.564	.564	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
118	OVP2	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	M1	X	.192	.192	0	%100
2	M1	Z	.111	.111	0	%100
3	M4	X	.589	.589	0	%100
4	M4	Z	.34	.34	0	%100
5	M10	X	.166	.166	0	%100
6	M10	Z	.096	.096	0	%100
7	MP1A	X	.635	.635	0	%100
8	MP1A	Z	.366	.366	0	%100
9	M43	X	.166	.166	0	%100
10	M43	Z	.096	.096	0	%100
11	M46	X	.331	.331	0	%100
12	M46	Z	.191	.191	0	%100
13	M51B	X	.184	.184	0	%100
14	M51B	Z	.106	.106	0	%100
15	M52B	X	.736	.736	0	%100
16	M52B	Z	.425	.425	0	%100
17	M76	X	.994	.994	0	%100
18	M76	Z	.574	.574	0	%100
19	M77	X	.337	.337	0	%100
20	M77	Z	.195	.195	0	%100
21	M80	X	.355	.355	0	%100
22	M80	Z	.205	.205	0	%100
23	M84	X	.994	.994	0	%100
24	M84	Z	.574	.574	0	%100
25	M85	X	1.349	1.349	0	%100
26	M85	Z	.779	.779	0	%100
27	M91	X	1.421	1.421	0	%100
28	M91	Z	.82	.82	0	%100
29	MP2A	X	.635	.635	0	%100
30	MP2A	Z	.366	.366	0	%100
31	MP4A	X	.635	.635	0	%100
32	MP4A	Z	.366	.366	0	%100
33	MP3A	X	.635	.635	0	%100
34	MP3A	Z	.366	.366	0	%100
35	M34	X	.192	.192	0	%100
36	M34	Z	.111	.111	0	%100
37	M35	X	.589	.589	0	%100
38	M35	Z	.34	.34	0	%100
39	M36	X	.166	.166	0	%100
40	M36	Z	.096	.096	0	%100
41	MP1C	X	.635	.635	0	%100
42	MP1C	Z	.366	.366	0	%100
43	M39	X	.166	.166	0	%100
44	M39	Z	.096	.096	0	%100
45	M40	X	.331	.331	0	%100
46	M40	Z	.191	.191	0	%100
47	M43A	X	.736	.736	0	%100
48	M43A	Z	.425	.425	0	%100
49	M44	X	.184	.184	0	%100
50	M44	Z	.106	.106	0	%100
51	M48	X	.994	.994	0	%100
52	M48	Z	.574	.574	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
53	M49	X	1.349	1.349	0 %100
54	M49	Z	.779	.779	0 %100
55	M51C	X	1.421	1.421	0 %100
56	M51C	Z	.82	.82	0 %100
57	M53	X	.994	.994	0 %100
58	M53	Z	.574	.574	0 %100
59	M54	X	.337	.337	0 %100
60	M54	Z	.195	.195	0 %100
61	M56	X	.355	.355	0 %100
62	M56	Z	.205	.205	0 %100
63	MP2C	X	.635	.635	0 %100
64	MP2C	Z	.366	.366	0 %100
65	MP4C	X	.635	.635	0 %100
66	MP4C	Z	.366	.366	0 %100
67	MP3C	X	.635	.635	0 %100
68	MP3C	Z	.366	.366	0 %100
69	M67	X	.77	.77	0 %100
70	M67	Z	.444	.444	0 %100
71	M68	X	0	0	0 %100
72	M68	Z	0	0	0 %100
73	M69	X	.664	.664	0 %100
74	M69	Z	.383	.383	0 %100
75	MP1B	X	.635	.635	0 %100
76	MP1B	Z	.366	.366	0 %100
77	M72	X	.664	.664	0 %100
78	M72	Z	.383	.383	0 %100
79	M73	X	1.325	1.325	0 %100
80	M73	Z	.765	.765	0 %100
81	M76A	X	.184	.184	0 %100
82	M76A	Z	.106	.106	0 %100
83	M77A	X	.184	.184	0 %100
84	M77A	Z	.106	.106	0 %100
85	M81	X	0	0	0 %100
86	M81	Z	0	0	0 %100
87	M82	X	.337	.337	0 %100
88	M82	Z	.195	.195	0 %100
89	M84A	X	.355	.355	0 %100
90	M84A	Z	.205	.205	0 %100
91	M86	X	0	0	0 %100
92	M86	Z	0	0	0 %100
93	M87	X	.337	.337	0 %100
94	M87	Z	.195	.195	0 %100
95	M89	X	.355	.355	0 %100
96	M89	Z	.205	.205	0 %100
97	MP2B	X	.635	.635	0 %100
98	MP2B	Z	.366	.366	0 %100
99	MP4B	X	.635	.635	0 %100
100	MP4B	Z	.366	.366	0 %100
101	MP3B	X	.635	.635	0 %100
102	MP3B	Z	.366	.366	0 %100
103	M104	X	.131	.131	0 %100
104	M104	Z	.076	.076	0 %100
105	M109	X	.131	.131	0 %100
106	M109	Z	.076	.076	0 %100
107	M114	X	.524	.524	0 %100
108	M114	Z	.303	.303	0 %100
109	M121	X	.158	.158	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
110	M121	Z	.091	.091	0	%100
111	M122	X	.158	.158	0	%100
112	M122	Z	.091	.091	0	%100
113	M123	X	.633	.633	0	%100
114	M123	Z	.365	.365	0	%100
115	OVP1	X	.488	.488	0	%100
116	OVP1	Z	.282	.282	0	%100
117	OVP2	X	.488	.488	0	%100
118	OVP2	Z	.282	.282	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.333	.333	0	%100
2	M1	Z	.577	.577	0	%100
3	M4	X	.113	.113	0	%100
4	M4	Z	.196	.196	0	%100
5	M10	X	.288	.288	0	%100
6	M10	Z	.498	.498	0	%100
7	MP1A	X	.366	.366	0	%100
8	MP1A	Z	.635	.635	0	%100
9	M43	X	.288	.288	0	%100
10	M43	Z	.498	.498	0	%100
11	M46	X	.574	.574	0	%100
12	M46	Z	.994	.994	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	.319	.319	0	%100
16	M52B	Z	.552	.552	0	%100
17	M76	X	.191	.191	0	%100
18	M76	Z	.331	.331	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	.191	.191	0	%100
24	M84	Z	.331	.331	0	%100
25	M85	X	.584	.584	0	%100
26	M85	Z	1.012	1.012	0	%100
27	M91	X	.615	.615	0	%100
28	M91	Z	1.066	1.066	0	%100
29	MP2A	X	.366	.366	0	%100
30	MP2A	Z	.635	.635	0	%100
31	MP4A	X	.366	.366	0	%100
32	MP4A	Z	.635	.635	0	%100
33	MP3A	X	.366	.366	0	%100
34	MP3A	Z	.635	.635	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	.453	.453	0	%100
38	M35	Z	.785	.785	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	0	0	0	%100
41	MP1C	X	.366	.366	0	%100
42	MP1C	Z	.635	.635	0	%100
43	M39	X	0	0	0	%100
44	M39	Z	0	0	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, %]
45	M40	X	0	0	0	%100
46	M40	Z	0	0	0	%100
47	M43A	X	.319	.319	0	%100
48	M43A	Z	.552	.552	0	%100
49	M44	X	.319	.319	0	%100
50	M44	Z	.552	.552	0	%100
51	M48	X	.765	.765	0	%100
52	M48	Z	1.325	1.325	0	%100
53	M49	X	.584	.584	0	%100
54	M49	Z	1.012	1.012	0	%100
55	M51C	X	.615	.615	0	%100
56	M51C	Z	1.066	1.066	0	%100
57	M53	X	.765	.765	0	%100
58	M53	Z	1.325	1.325	0	%100
59	M54	X	.584	.584	0	%100
60	M54	Z	1.012	1.012	0	%100
61	M56	X	.615	.615	0	%100
62	M56	Z	1.066	1.066	0	%100
63	MP2C	X	.366	.366	0	%100
64	MP2C	Z	.635	.635	0	%100
65	MP4C	X	.366	.366	0	%100
66	MP4C	Z	.635	.635	0	%100
67	MP3C	X	.366	.366	0	%100
68	MP3C	Z	.635	.635	0	%100
69	M67	X	.333	.333	0	%100
70	M67	Z	.577	.577	0	%100
71	M68	X	.113	.113	0	%100
72	M68	Z	.196	.196	0	%100
73	M69	X	.288	.288	0	%100
74	M69	Z	.498	.498	0	%100
75	MP1B	X	.366	.366	0	%100
76	MP1B	Z	.635	.635	0	%100
77	M72	X	.288	.288	0	%100
78	M72	Z	.498	.498	0	%100
79	M73	X	.574	.574	0	%100
80	M73	Z	.994	.994	0	%100
81	M76A	X	.319	.319	0	%100
82	M76A	Z	.552	.552	0	%100
83	M77A	X	0	0	0	%100
84	M77A	Z	0	0	0	%100
85	M81	X	.191	.191	0	%100
86	M81	Z	.331	.331	0	%100
87	M82	X	.584	.584	0	%100
88	M82	Z	1.012	1.012	0	%100
89	M84A	X	.615	.615	0	%100
90	M84A	Z	1.066	1.066	0	%100
91	M86	X	.191	.191	0	%100
92	M86	Z	.331	.331	0	%100
93	M87	X	0	0	0	%100
94	M87	Z	0	0	0	%100
95	M89	X	0	0	0	%100
96	M89	Z	0	0	0	%100
97	MP2B	X	.366	.366	0	%100
98	MP2B	Z	.635	.635	0	%100
99	MP4B	X	.366	.366	0	%100
100	MP4B	Z	.635	.635	0	%100
101	MP3B	X	.366	.366	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, %]
102	MP3B	Z	.635	.635	0	%100
103	M104	X	.227	.227	0	%100
104	M104	Z	.393	.393	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	.227	.227	0	%100
108	M114	Z	.393	.393	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	.274	.274	0	%100
112	M122	Z	.475	.475	0	%100
113	M123	X	.274	.274	0	%100
114	M123	Z	.475	.475	0	%100
115	OVP1	X	.282	.282	0	%100
116	OVP1	Z	.488	.488	0	%100
117	OVP2	X	.282	.282	0	%100
118	OVP2	Z	.488	.488	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	.889	.889	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	.767	.767	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	.733	.733	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	.767	.767	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	1.53	1.53	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	.212	.212	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	.212	.212	0	%100
17	M76	X	0	0	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	.389	.389	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	.41	.41	0	%100
23	M84	X	0	0	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	.389	.389	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	.41	.41	0	%100
29	MP2A	X	0	0	0	%100
30	MP2A	Z	.733	.733	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	.733	.733	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	.733	.733	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	.222	.222	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, %]
37	M35	X	0	0	0	%100
38	M35	Z	.68	.68	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	.192	.192	0	%100
41	MP1C	X	0	0	0	%100
42	MP1C	Z	.733	.733	0	%100
43	M39	X	0	0	0	%100
44	M39	Z	.192	.192	0	%100
45	M40	X	0	0	0	%100
46	M40	Z	.382	.382	0	%100
47	M43A	X	0	0	0	%100
48	M43A	Z	.212	.212	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	.849	.849	0	%100
51	M48	X	0	0	0	%100
52	M48	Z	1.147	1.147	0	%100
53	M49	X	0	0	0	%100
54	M49	Z	.389	.389	0	%100
55	M51C	X	0	0	0	%100
56	M51C	Z	.41	.41	0	%100
57	M53	X	0	0	0	%100
58	M53	Z	1.147	1.147	0	%100
59	M54	X	0	0	0	%100
60	M54	Z	1.558	1.558	0	%100
61	M56	X	0	0	0	%100
62	M56	Z	1.641	1.641	0	%100
63	MP2C	X	0	0	0	%100
64	MP2C	Z	.733	.733	0	%100
65	MP4C	X	0	0	0	%100
66	MP4C	Z	.733	.733	0	%100
67	MP3C	X	0	0	0	%100
68	MP3C	Z	.733	.733	0	%100
69	M67	X	0	0	0	%100
70	M67	Z	.222	.222	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	.68	.68	0	%100
73	M69	X	0	0	0	%100
74	M69	Z	.192	.192	0	%100
75	MP1B	X	0	0	0	%100
76	MP1B	Z	.733	.733	0	%100
77	M72	X	0	0	0	%100
78	M72	Z	.192	.192	0	%100
79	M73	X	0	0	0	%100
80	M73	Z	.382	.382	0	%100
81	M76A	X	0	0	0	%100
82	M76A	Z	.849	.849	0	%100
83	M77A	X	0	0	0	%100
84	M77A	Z	.212	.212	0	%100
85	M81	X	0	0	0	%100
86	M81	Z	1.147	1.147	0	%100
87	M82	X	0	0	0	%100
88	M82	Z	1.558	1.558	0	%100
89	M84A	X	0	0	0	%100
90	M84A	Z	1.641	1.641	0	%100
91	M86	X	0	0	0	%100
92	M86	Z	1.147	1.147	0	%100
93	M87	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
94	M87	Z	.389	.389	0	%100
95	M89	X	0	0	0	%100
96	M89	Z	.41	.41	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	.733	.733	0	%100
99	MP4B	X	0	0	0	%100
100	MP4B	Z	.733	.733	0	%100
101	MP3B	X	0	0	0	%100
102	MP3B	Z	.733	.733	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	.605	.605	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	.151	.151	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	.151	.151	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	.183	.183	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	.731	.731	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	.183	.183	0	%100
115	OVP1	X	0	0	0	%100
116	OVP1	Z	.564	.564	0	%100
117	OVP2	X	0	0	0	%100
118	OVP2	Z	.564	.564	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.333	-.333	0	%100
2	M1	Z	.577	.577	0	%100
3	M4	X	-.113	-.113	0	%100
4	M4	Z	.196	.196	0	%100
5	M10	X	-.288	-.288	0	%100
6	M10	Z	.498	.498	0	%100
7	MP1A	X	-.366	-.366	0	%100
8	MP1A	Z	.635	.635	0	%100
9	M43	X	-.288	-.288	0	%100
10	M43	Z	.498	.498	0	%100
11	M46	X	-.574	-.574	0	%100
12	M46	Z	.994	.994	0	%100
13	M51B	X	-.319	-.319	0	%100
14	M51B	Z	.552	.552	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	-.191	-.191	0	%100
18	M76	Z	.331	.331	0	%100
19	M77	X	-.584	-.584	0	%100
20	M77	Z	1.012	1.012	0	%100
21	M80	X	-.615	-.615	0	%100
22	M80	Z	1.066	1.066	0	%100
23	M84	X	-.191	-.191	0	%100
24	M84	Z	.331	.331	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
29	MP2A	X	-.366	-.366	0	%100
30	MP2A	Z	.635	.635	0	%100
31	MP4A	X	-.366	-.366	0	%100
32	MP4A	Z	.635	.635	0	%100
33	MP3A	X	-.366	-.366	0	%100
34	MP3A	Z	.635	.635	0	%100
35	M34	X	-.333	-.333	0	%100
36	M34	Z	.577	.577	0	%100
37	M35	X	-.113	-.113	0	%100
38	M35	Z	.196	.196	0	%100
39	M36	X	-.288	-.288	0	%100
40	M36	Z	.498	.498	0	%100
41	MP1C	X	-.366	-.366	0	%100
42	MP1C	Z	.635	.635	0	%100
43	M39	X	-.288	-.288	0	%100
44	M39	Z	.498	.498	0	%100
45	M40	X	-.574	-.574	0	%100
46	M40	Z	.994	.994	0	%100
47	M43A	X	0	0	0	%100
48	M43A	Z	0	0	0	%100
49	M44	X	-.319	-.319	0	%100
50	M44	Z	.552	.552	0	%100
51	M48	X	-.191	-.191	0	%100
52	M48	Z	.331	.331	0	%100
53	M49	X	0	0	0	%100
54	M49	Z	0	0	0	%100
55	M51C	X	0	0	0	%100
56	M51C	Z	0	0	0	%100
57	M53	X	-.191	-.191	0	%100
58	M53	Z	.331	.331	0	%100
59	M54	X	-.584	-.584	0	%100
60	M54	Z	1.012	1.012	0	%100
61	M56	X	-.615	-.615	0	%100
62	M56	Z	1.066	1.066	0	%100
63	MP2C	X	-.366	-.366	0	%100
64	MP2C	Z	.635	.635	0	%100
65	MP4C	X	-.366	-.366	0	%100
66	MP4C	Z	.635	.635	0	%100
67	MP3C	X	-.366	-.366	0	%100
68	MP3C	Z	.635	.635	0	%100
69	M67	X	0	0	0	%100
70	M67	Z	0	0	0	%100
71	M68	X	-.453	-.453	0	%100
72	M68	Z	.785	.785	0	%100
73	M69	X	0	0	0	%100
74	M69	Z	0	0	0	%100
75	MP1B	X	-.366	-.366	0	%100
76	MP1B	Z	.635	.635	0	%100
77	M72	X	0	0	0	%100
78	M72	Z	0	0	0	%100
79	M73	X	0	0	0	%100
80	M73	Z	0	0	0	%100
81	M76A	X	-.319	-.319	0	%100
82	M76A	Z	.552	.552	0	%100
83	M77A	X	-.319	-.319	0	%100
84	M77A	Z	.552	.552	0	%100
85	M81	X	-.765	-.765	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, %]
86	M81	Z	1.325	1.325	0	%100
87	M82	X	-584	-584	0	%100
88	M82	Z	1.012	1.012	0	%100
89	M84A	X	-.615	-.615	0	%100
90	M84A	Z	1.066	1.066	0	%100
91	M86	X	-.765	-.765	0	%100
92	M86	Z	1.325	1.325	0	%100
93	M87	X	-.584	-.584	0	%100
94	M87	Z	1.012	1.012	0	%100
95	M89	X	-.615	-.615	0	%100
96	M89	Z	1.066	1.066	0	%100
97	MP2B	X	-.366	-.366	0	%100
98	MP2B	Z	.635	.635	0	%100
99	MP4B	X	-.366	-.366	0	%100
100	MP4B	Z	.635	.635	0	%100
101	MP3B	X	-.366	-.366	0	%100
102	MP3B	Z	.635	.635	0	%100
103	M104	X	-.227	-.227	0	%100
104	M104	Z	.393	.393	0	%100
105	M109	X	-.227	-.227	0	%100
106	M109	Z	.393	.393	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	0	0	0	%100
109	M121	X	-.274	-.274	0	%100
110	M121	Z	.475	.475	0	%100
111	M122	X	-.274	-.274	0	%100
112	M122	Z	.475	.475	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	0	0	0	%100
115	OVP1	X	-.282	-.282	0	%100
116	OVP1	Z	.488	.488	0	%100
117	OVP2	X	-.282	-.282	0	%100
118	OVP2	Z	.488	.488	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.192	-.192	0	%100
2	M1	Z	.111	.111	0	%100
3	M4	X	-.589	-.589	0	%100
4	M4	Z	.34	.34	0	%100
5	M10	X	-.166	-.166	0	%100
6	M10	Z	.096	.096	0	%100
7	MP1A	X	-.635	-.635	0	%100
8	MP1A	Z	.366	.366	0	%100
9	M43	X	-.166	-.166	0	%100
10	M43	Z	.096	.096	0	%100
11	M46	X	-.331	-.331	0	%100
12	M46	Z	.191	.191	0	%100
13	M51B	X	-.736	-.736	0	%100
14	M51B	Z	.425	.425	0	%100
15	M52B	X	-.184	-.184	0	%100
16	M52B	Z	.106	.106	0	%100
17	M76	X	-.994	-.994	0	%100
18	M76	Z	.574	.574	0	%100
19	M77	X	-1.349	-1.349	0	%100
20	M77	Z	.779	.779	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
21	M80	X	-1.421	-1.421	0 %100
22	M80	Z	.82	.82	0 %100
23	M84	X	-.994	-.994	0 %100
24	M84	Z	.574	.574	0 %100
25	M85	X	-.337	-.337	0 %100
26	M85	Z	.195	.195	0 %100
27	M91	X	-.355	-.355	0 %100
28	M91	Z	.205	.205	0 %100
29	MP2A	X	-.635	-.635	0 %100
30	MP2A	Z	.366	.366	0 %100
31	MP4A	X	-.635	-.635	0 %100
32	MP4A	Z	.366	.366	0 %100
33	MP3A	X	-.635	-.635	0 %100
34	MP3A	Z	.366	.366	0 %100
35	M34	X	-.77	-.77	0 %100
36	M34	Z	.444	.444	0 %100
37	M35	X	0	0	0 %100
38	M35	Z	0	0	0 %100
39	M36	X	-.664	-.664	0 %100
40	M36	Z	.383	.383	0 %100
41	MP1C	X	-.635	-.635	0 %100
42	MP1C	Z	.366	.366	0 %100
43	M39	X	-.664	-.664	0 %100
44	M39	Z	.383	.383	0 %100
45	M40	X	-1.325	-1.325	0 %100
46	M40	Z	.765	.765	0 %100
47	M43A	X	-.184	-.184	0 %100
48	M43A	Z	.106	.106	0 %100
49	M44	X	-.184	-.184	0 %100
50	M44	Z	.106	.106	0 %100
51	M48	X	0	0	0 %100
52	M48	Z	0	0	0 %100
53	M49	X	-.337	-.337	0 %100
54	M49	Z	.195	.195	0 %100
55	M51C	X	-.355	-.355	0 %100
56	M51C	Z	.205	.205	0 %100
57	M53	X	0	0	0 %100
58	M53	Z	0	0	0 %100
59	M54	X	-.337	-.337	0 %100
60	M54	Z	.195	.195	0 %100
61	M56	X	-.355	-.355	0 %100
62	M56	Z	.205	.205	0 %100
63	MP2C	X	-.635	-.635	0 %100
64	MP2C	Z	.366	.366	0 %100
65	MP4C	X	-.635	-.635	0 %100
66	MP4C	Z	.366	.366	0 %100
67	MP3C	X	-.635	-.635	0 %100
68	MP3C	Z	.366	.366	0 %100
69	M67	X	-.192	-.192	0 %100
70	M67	Z	.111	.111	0 %100
71	M68	X	-.589	-.589	0 %100
72	M68	Z	.34	.34	0 %100
73	M69	X	-.166	-.166	0 %100
74	M69	Z	.096	.096	0 %100
75	MP1B	X	-.635	-.635	0 %100
76	MP1B	Z	.366	.366	0 %100
77	M72	X	-.166	-.166	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
78	M72	Z	.096	.096	0	%100
79	M73	X	-.331	-.331	0	%100
80	M73	Z	.191	.191	0	%100
81	M76A	X	-.184	-.184	0	%100
82	M76A	Z	.106	.106	0	%100
83	M77A	X	-.736	-.736	0	%100
84	M77A	Z	.425	.425	0	%100
85	M81	X	-.994	-.994	0	%100
86	M81	Z	.574	.574	0	%100
87	M82	X	-.337	-.337	0	%100
88	M82	Z	.195	.195	0	%100
89	M84A	X	-.355	-.355	0	%100
90	M84A	Z	.205	.205	0	%100
91	M86	X	-.994	-.994	0	%100
92	M86	Z	.574	.574	0	%100
93	M87	X	-1.349	-1.349	0	%100
94	M87	Z	.779	.779	0	%100
95	M89	X	-1.421	-1.421	0	%100
96	M89	Z	.82	.82	0	%100
97	MP2B	X	-.635	-.635	0	%100
98	MP2B	Z	.366	.366	0	%100
99	MP4B	X	-.635	-.635	0	%100
100	MP4B	Z	.366	.366	0	%100
101	MP3B	X	-.635	-.635	0	%100
102	MP3B	Z	.366	.366	0	%100
103	M104	X	-.131	-.131	0	%100
104	M104	Z	.076	.076	0	%100
105	M109	X	-.524	-.524	0	%100
106	M109	Z	.303	.303	0	%100
107	M114	X	-.131	-.131	0	%100
108	M114	Z	.076	.076	0	%100
109	M121	X	-.633	-.633	0	%100
110	M121	Z	.365	.365	0	%100
111	M122	X	-.158	-.158	0	%100
112	M122	Z	.091	.091	0	%100
113	M123	X	-.158	-.158	0	%100
114	M123	Z	.091	.091	0	%100
115	OVP1	X	-.488	-.488	0	%100
116	OVP1	Z	.282	.282	0	%100
117	OVP2	X	-.488	-.488	0	%100
118	OVP2	Z	.282	.282	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-.906	-.906	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP1A	X	-.733	-.733	0	%100
8	MP1A	Z	0	0	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	0	0	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
13	M51B	X	-.637	-.637	0 %100
14	M51B	Z	0	0	0 %100
15	M52B	X	-.637	-.637	0 %100
16	M52B	Z	0	0	0 %100
17	M76	X	-1.53	-1.53	0 %100
18	M76	Z	0	0	0 %100
19	M77	X	-1.168	-1.168	0 %100
20	M77	Z	0	0	0 %100
21	M80	X	-1.231	-1.231	0 %100
22	M80	Z	0	0	0 %100
23	M84	X	-1.53	-1.53	0 %100
24	M84	Z	0	0	0 %100
25	M85	X	-1.168	-1.168	0 %100
26	M85	Z	0	0	0 %100
27	M91	X	-1.231	-1.231	0 %100
28	M91	Z	0	0	0 %100
29	MP2A	X	-.733	-.733	0 %100
30	MP2A	Z	0	0	0 %100
31	MP4A	X	-.733	-.733	0 %100
32	MP4A	Z	0	0	0 %100
33	MP3A	X	-.733	-.733	0 %100
34	MP3A	Z	0	0	0 %100
35	M34	X	-.667	-.667	0 %100
36	M34	Z	0	0	0 %100
37	M35	X	-.227	-.227	0 %100
38	M35	Z	0	0	0 %100
39	M36	X	-.575	-.575	0 %100
40	M36	Z	0	0	0 %100
41	MP1C	X	-.733	-.733	0 %100
42	MP1C	Z	0	0	0 %100
43	M39	X	-.575	-.575	0 %100
44	M39	Z	0	0	0 %100
45	M40	X	-1.147	-1.147	0 %100
46	M40	Z	0	0	0 %100
47	M43A	X	-.637	-.637	0 %100
48	M43A	Z	0	0	0 %100
49	M44	X	0	0	0 %100
50	M44	Z	0	0	0 %100
51	M48	X	-.382	-.382	0 %100
52	M48	Z	0	0	0 %100
53	M49	X	-1.168	-1.168	0 %100
54	M49	Z	0	0	0 %100
55	M51C	X	-1.231	-1.231	0 %100
56	M51C	Z	0	0	0 %100
57	M53	X	-.382	-.382	0 %100
58	M53	Z	0	0	0 %100
59	M54	X	0	0	0 %100
60	M54	Z	0	0	0 %100
61	M56	X	0	0	0 %100
62	M56	Z	0	0	0 %100
63	MP2C	X	-.733	-.733	0 %100
64	MP2C	Z	0	0	0 %100
65	MP4C	X	-.733	-.733	0 %100
66	MP4C	Z	0	0	0 %100
67	MP3C	X	-.733	-.733	0 %100
68	MP3C	Z	0	0	0 %100
69	M67	X	-.667	-.667	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
70	M67	Z	0	0	0	%100
71	M68	X	-0.227	-0.227	0	%100
72	M68	Z	0	0	0	%100
73	M69	X	-0.575	-0.575	0	%100
74	M69	Z	0	0	0	%100
75	MP1B	X	-0.733	-0.733	0	%100
76	MP1B	Z	0	0	0	%100
77	M72	X	-0.575	-0.575	0	%100
78	M72	Z	0	0	0	%100
79	M73	X	-1.147	-1.147	0	%100
80	M73	Z	0	0	0	%100
81	M76A	X	0	0	0	%100
82	M76A	Z	0	0	0	%100
83	M77A	X	-0.637	-0.637	0	%100
84	M77A	Z	0	0	0	%100
85	M81	X	-0.382	-0.382	0	%100
86	M81	Z	0	0	0	%100
87	M82	X	0	0	0	%100
88	M82	Z	0	0	0	%100
89	M84A	X	0	0	0	%100
90	M84A	Z	0	0	0	%100
91	M86	X	-0.382	-0.382	0	%100
92	M86	Z	0	0	0	%100
93	M87	X	-1.168	-1.168	0	%100
94	M87	Z	0	0	0	%100
95	M89	X	-1.231	-1.231	0	%100
96	M89	Z	0	0	0	%100
97	MP2B	X	-0.733	-0.733	0	%100
98	MP2B	Z	0	0	0	%100
99	MP4B	X	-0.733	-0.733	0	%100
100	MP4B	Z	0	0	0	%100
101	MP3B	X	-0.733	-0.733	0	%100
102	MP3B	Z	0	0	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	0	0	0	%100
105	M109	X	-0.454	-0.454	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	-0.454	-0.454	0	%100
108	M114	Z	0	0	0	%100
109	M121	X	-0.548	-0.548	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	-0.548	-0.548	0	%100
114	M123	Z	0	0	0	%100
115	OVP1	X	-0.564	-0.564	0	%100
116	OVP1	Z	0	0	0	%100
117	OVP2	X	-0.564	-0.564	0	%100
118	OVP2	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	M1	X	-0.192	-0.192	0	%100
2	M1	Z	-0.111	-0.111	0	%100
3	M4	X	-0.589	-0.589	0	%100
4	M4	Z	-0.34	-0.34	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, %]
5	M10	X	-166	-166	0	%100
6	M10	Z	-096	-096	0	%100
7	MP1A	X	-635	-635	0	%100
8	MP1A	Z	-366	-366	0	%100
9	M43	X	-166	-166	0	%100
10	M43	Z	-096	-096	0	%100
11	M46	X	-331	-331	0	%100
12	M46	Z	-191	-191	0	%100
13	M51B	X	-184	-184	0	%100
14	M51B	Z	-106	-106	0	%100
15	M52B	X	-736	-736	0	%100
16	M52B	Z	-425	-425	0	%100
17	M76	X	-994	-994	0	%100
18	M76	Z	-574	-574	0	%100
19	M77	X	-337	-337	0	%100
20	M77	Z	-195	-195	0	%100
21	M80	X	-355	-355	0	%100
22	M80	Z	-205	-205	0	%100
23	M84	X	-994	-994	0	%100
24	M84	Z	-574	-574	0	%100
25	M85	X	-1.349	-1.349	0	%100
26	M85	Z	-779	-779	0	%100
27	M91	X	-1.421	-1.421	0	%100
28	M91	Z	-.82	-.82	0	%100
29	MP2A	X	-635	-635	0	%100
30	MP2A	Z	-366	-366	0	%100
31	MP4A	X	-635	-635	0	%100
32	MP4A	Z	-366	-366	0	%100
33	MP3A	X	-635	-635	0	%100
34	MP3A	Z	-366	-366	0	%100
35	M34	X	-192	-192	0	%100
36	M34	Z	-111	-111	0	%100
37	M35	X	-589	-589	0	%100
38	M35	Z	-.34	-.34	0	%100
39	M36	X	-166	-166	0	%100
40	M36	Z	-096	-096	0	%100
41	MP1C	X	-635	-635	0	%100
42	MP1C	Z	-366	-366	0	%100
43	M39	X	-166	-166	0	%100
44	M39	Z	-096	-096	0	%100
45	M40	X	-331	-331	0	%100
46	M40	Z	-191	-191	0	%100
47	M43A	X	-736	-736	0	%100
48	M43A	Z	-425	-425	0	%100
49	M44	X	-184	-184	0	%100
50	M44	Z	-106	-106	0	%100
51	M48	X	-994	-994	0	%100
52	M48	Z	-574	-574	0	%100
53	M49	X	-1.349	-1.349	0	%100
54	M49	Z	-779	-779	0	%100
55	M51C	X	-1.421	-1.421	0	%100
56	M51C	Z	-.82	-.82	0	%100
57	M53	X	-994	-994	0	%100
58	M53	Z	-574	-574	0	%100
59	M54	X	-337	-337	0	%100
60	M54	Z	-195	-195	0	%100
61	M56	X	-355	-355	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,%]
62	M56	Z	-205	-205	0 %100
63	MP2C	X	-635	-635	0 %100
64	MP2C	Z	-366	-366	0 %100
65	MP4C	X	-635	-635	0 %100
66	MP4C	Z	-366	-366	0 %100
67	MP3C	X	-635	-635	0 %100
68	MP3C	Z	-366	-366	0 %100
69	M67	X	-77	-77	0 %100
70	M67	Z	-444	-444	0 %100
71	M68	X	0	0	0 %100
72	M68	Z	0	0	0 %100
73	M69	X	-664	-664	0 %100
74	M69	Z	-383	-383	0 %100
75	MP1B	X	-635	-635	0 %100
76	MP1B	Z	-366	-366	0 %100
77	M72	X	-664	-664	0 %100
78	M72	Z	-383	-383	0 %100
79	M73	X	-1.325	-1.325	0 %100
80	M73	Z	-765	-765	0 %100
81	M76A	X	-184	-184	0 %100
82	M76A	Z	-106	-106	0 %100
83	M77A	X	-184	-184	0 %100
84	M77A	Z	-106	-106	0 %100
85	M81	X	0	0	0 %100
86	M81	Z	0	0	0 %100
87	M82	X	-337	-337	0 %100
88	M82	Z	-195	-195	0 %100
89	M84A	X	-355	-355	0 %100
90	M84A	Z	-205	-205	0 %100
91	M86	X	0	0	0 %100
92	M86	Z	0	0	0 %100
93	M87	X	-337	-337	0 %100
94	M87	Z	-195	-195	0 %100
95	M89	X	-355	-355	0 %100
96	M89	Z	-205	-205	0 %100
97	MP2B	X	-635	-635	0 %100
98	MP2B	Z	-366	-366	0 %100
99	MP4B	X	-635	-635	0 %100
100	MP4B	Z	-366	-366	0 %100
101	MP3B	X	-635	-635	0 %100
102	MP3B	Z	-366	-366	0 %100
103	M104	X	-131	-131	0 %100
104	M104	Z	-076	-076	0 %100
105	M109	X	-131	-131	0 %100
106	M109	Z	-076	-076	0 %100
107	M114	X	-524	-524	0 %100
108	M114	Z	-303	-303	0 %100
109	M121	X	-158	-158	0 %100
110	M121	Z	-091	-091	0 %100
111	M122	X	-158	-158	0 %100
112	M122	Z	-091	-091	0 %100
113	M123	X	-633	-633	0 %100
114	M123	Z	-365	-365	0 %100
115	OVP1	X	-488	-488	0 %100
116	OVP1	Z	-282	-282	0 %100
117	OVP2	X	-488	-488	0 %100
118	OVP2	Z	-282	-282	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	M1	X	-333	-333	0	%100
2	M1	Z	-577	-577	0	%100
3	M4	X	-113	-113	0	%100
4	M4	Z	-196	-196	0	%100
5	M10	X	-288	-288	0	%100
6	M10	Z	-498	-498	0	%100
7	MP1A	X	-366	-366	0	%100
8	MP1A	Z	-635	-635	0	%100
9	M43	X	-288	-288	0	%100
10	M43	Z	-498	-498	0	%100
11	M46	X	-574	-574	0	%100
12	M46	Z	-994	-994	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	-319	-319	0	%100
16	M52B	Z	-552	-552	0	%100
17	M76	X	-191	-191	0	%100
18	M76	Z	-331	-331	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	-191	-191	0	%100
24	M84	Z	-331	-331	0	%100
25	M85	X	-584	-584	0	%100
26	M85	Z	-1.012	-1.012	0	%100
27	M91	X	-615	-615	0	%100
28	M91	Z	-1.066	-1.066	0	%100
29	MP2A	X	-366	-366	0	%100
30	MP2A	Z	-635	-635	0	%100
31	MP4A	X	-366	-366	0	%100
32	MP4A	Z	-635	-635	0	%100
33	MP3A	X	-366	-366	0	%100
34	MP3A	Z	-635	-635	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	-453	-453	0	%100
38	M35	Z	-785	-785	0	%100
39	M36	X	0	0	0	%100
40	M36	Z	0	0	0	%100
41	MP1C	X	-366	-366	0	%100
42	MP1C	Z	-635	-635	0	%100
43	M39	X	0	0	0	%100
44	M39	Z	0	0	0	%100
45	M40	X	0	0	0	%100
46	M40	Z	0	0	0	%100
47	M43A	X	-319	-319	0	%100
48	M43A	Z	-552	-552	0	%100
49	M44	X	-319	-319	0	%100
50	M44	Z	-552	-552	0	%100
51	M48	X	-765	-765	0	%100
52	M48	Z	-1.325	-1.325	0	%100
53	M49	X	-584	-584	0	%100
54	M49	Z	-1.012	-1.012	0	%100
55	M51C	X	-615	-615	0	%100
56	M51C	Z	-1.066	-1.066	0	%100
57	M53	X	-765	-765	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M53	Z	-1.325	-1.325	0 %100
59	M54	X	-584	-584	0 %100
60	M54	Z	-1.012	-1.012	0 %100
61	M56	X	-615	-615	0 %100
62	M56	Z	-1.066	-1.066	0 %100
63	MP2C	X	-366	-366	0 %100
64	MP2C	Z	-635	-635	0 %100
65	MP4C	X	-366	-366	0 %100
66	MP4C	Z	-635	-635	0 %100
67	MP3C	X	-366	-366	0 %100
68	MP3C	Z	-635	-635	0 %100
69	M67	X	-333	-333	0 %100
70	M67	Z	-577	-577	0 %100
71	M68	X	-113	-113	0 %100
72	M68	Z	-196	-196	0 %100
73	M69	X	-288	-288	0 %100
74	M69	Z	-498	-498	0 %100
75	MP1B	X	-366	-366	0 %100
76	MP1B	Z	-635	-635	0 %100
77	M72	X	-288	-288	0 %100
78	M72	Z	-498	-498	0 %100
79	M73	X	-574	-574	0 %100
80	M73	Z	-994	-994	0 %100
81	M76A	X	-319	-319	0 %100
82	M76A	Z	-552	-552	0 %100
83	M77A	X	0	0	0 %100
84	M77A	Z	0	0	0 %100
85	M81	X	-191	-191	0 %100
86	M81	Z	-331	-331	0 %100
87	M82	X	-584	-584	0 %100
88	M82	Z	-1.012	-1.012	0 %100
89	M84A	X	-615	-615	0 %100
90	M84A	Z	-1.066	-1.066	0 %100
91	M86	X	-191	-191	0 %100
92	M86	Z	-331	-331	0 %100
93	M87	X	0	0	0 %100
94	M87	Z	0	0	0 %100
95	M89	X	0	0	0 %100
96	M89	Z	0	0	0 %100
97	MP2B	X	-366	-366	0 %100
98	MP2B	Z	-635	-635	0 %100
99	MP4B	X	-366	-366	0 %100
100	MP4B	Z	-635	-635	0 %100
101	MP3B	X	-366	-366	0 %100
102	MP3B	Z	-635	-635	0 %100
103	M104	X	-227	-227	0 %100
104	M104	Z	-393	-393	0 %100
105	M109	X	0	0	0 %100
106	M109	Z	0	0	0 %100
107	M114	X	-227	-227	0 %100
108	M114	Z	-393	-393	0 %100
109	M121	X	0	0	0 %100
110	M121	Z	0	0	0 %100
111	M122	X	-274	-274	0 %100
112	M122	Z	-475	-475	0 %100
113	M123	X	-274	-274	0 %100
114	M123	Z	-475	-475	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
115	OVP1	X	-282	-282	0	%100
116	OVP1	Z	-488	-488	0	%100
117	OVP2	X	-282	-282	0	%100
118	OVP2	Z	-488	-488	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	M76A	Y	-1.601	-4.064	0	.832
2	M76A	Y	-4.064	-6.634	.832	1.665
3	M76A	Y	-6.634	-7.874	1.665	2.497
4	M76A	Y	-7.874	-6.293	2.497	3.329
5	M76A	Y	-6.293	-3.33	3.329	4.162
6	M77A	Y	-3.336	-6.325	0	.832
7	M77A	Y	-6.325	-7.939	.832	1.665
8	M77A	Y	-7.939	-6.771	1.665	2.497
9	M77A	Y	-6.771	-4.258	2.497	3.329
10	M77A	Y	-4.258	-1.807	3.329	4.162
11	M51B	Y	-1.597	-4.066	0	.832
12	M51B	Y	-4.066	-6.636	.832	1.665
13	M51B	Y	-6.636	-7.874	1.665	2.497
14	M51B	Y	-7.874	-6.293	2.497	3.329
15	M51B	Y	-6.293	-3.33	3.329	4.162
16	M52B	Y	-3.329	-6.32	0	.832
17	M52B	Y	-6.32	-7.943	.832	1.665
18	M52B	Y	-7.943	-6.773	1.665	2.497
19	M52B	Y	-6.773	-4.256	2.497	3.329
20	M52B	Y	-4.256	-1.812	3.329	4.162
21	M43A	Y	-1.807	-4.258	0	.832
22	M43A	Y	-4.258	-6.771	.832	1.665
23	M43A	Y	-6.771	-7.939	1.665	2.497
24	M43A	Y	-7.939	-6.325	2.497	3.329
25	M43A	Y	-6.325	-3.336	3.329	4.162
26	M44	Y	-3.33	-6.293	0	.832
27	M44	Y	-6.293	-7.874	.832	1.665
28	M44	Y	-7.874	-6.634	1.665	2.497
29	M44	Y	-6.634	-4.064	2.497	3.329
30	M44	Y	-4.064	-1.601	3.329	4.162

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	M76A	Y	-3.843	-9.754	0	.832
2	M76A	Y	-9.754	-15.923	.832	1.665
3	M76A	Y	-15.923	-18.897	1.665	2.497
4	M76A	Y	-18.897	-15.103	2.497	3.329
5	M76A	Y	-15.103	-7.991	3.329	4.162
6	M77A	Y	-8.007	-15.18	0	.832
7	M77A	Y	-15.18	-19.053	.832	1.665
8	M77A	Y	-19.053	-16.25	1.665	2.497
9	M77A	Y	-16.25	-10.219	2.497	3.329
10	M77A	Y	-10.219	-4.337	3.329	4.162
11	M51B	Y	-3.834	-9.758	0	.832
12	M51B	Y	-9.758	-15.927	.832	1.665
13	M51B	Y	-15.927	-18.897	1.665	2.497
14	M51B	Y	-18.897	-15.103	2.497	3.329
15	M51B	Y	-15.103	-7.992	3.329	4.162
16	M52B	Y	-7.988	-15.169	0	.832



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, %]
17	M52B	Y	-15.169	-19.062	.832	1.665
18	M52B	Y	-19.062	-16.256	1.665	2.497
19	M52B	Y	-16.256	-10.214	2.497	3.329
20	M52B	Y	-10.214	-4.349	3.329	4.162
21	M43A	Y	-4.337	-10.219	0	.832
22	M43A	Y	-10.219	-16.25	.832	1.665
23	M43A	Y	-16.25	-19.053	1.665	2.497
24	M43A	Y	-19.053	-15.18	2.497	3.329
25	M43A	Y	-15.18	-8.007	3.329	4.162
26	M44	Y	-7.991	-15.103	0	.832
27	M44	Y	-15.103	-18.897	.832	1.665
28	M44	Y	-18.897	-15.923	1.665	2.497
29	M44	Y	-15.923	-9.754	2.497	3.329
30	M44	Y	-9.754	-3.843	3.329	4.162

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N99	N98	N124	N126	Y	Two Way	-.005
2	N6	N7	N87B	N87C	Y	Two Way	-.005
3	N52	N53	N80	N78	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N99	N98	N124	N126	Y	Two Way	-.012
2	N6	N7	N87B	N87C	Y	Two Way	-.012
3	N52	N53	N80	N78	Y	Two Way	-.012

Envelope Joint Reactions

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N3	max	1230.188	10	3056.503	13	2443.123	1	6.246	13	1.725	4
2		min	-1242.036	4	579.588	7	-2590.968	7	.376	7	-1.749	10
3	N50	max	1941.977	9	2844.145	21	1589.573	1	-.389	3	1.608	12
4		min	-2063.179	3	523.945	3	-1505.309	7	-3.323	21	-1.633	6
5	N96	max	2376.029	10	3058.512	17	1313.24	1	-.031	11	1.73	8
6		min	-2239.591	4	579.935	11	-1249.659	7	-2.851	17	-1.755	2
7	Totals:	max	5364.821	10	8594.926	19	5345.936	1				
8		min	-5364.817	4	3090.386	1	-5345.935	7				

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

Member	Shape	Code Check	Loc[... LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc...	phi*Pnt...	phi*Mn...	phi*Mn...	Cb	Eqn	
1	M1	PIPE 3.0	.164	4.427	17	.077	8.203	18	28250.5...	65205	5.749	5.749	1...H1-1b	
2	M4	HSS4X4X4	.394	0	23	.104	0	y	23	124657...	139518	16.181	16.181	3...H1-1b
3	M10	HSS4X4X4	.195	2.375	14	.055	2.375	y	23	136263...	139518	16.181	16.181	1...H1-1b
4	MP1A	PIPE 2.0	.311	4	21	.091	4		8	14916.0...	32130	1.872	1.872	1...H1-1b
5	M43	HSS4X4X4	.197	0	24	.068	0	y	16	136263...	139518	16.181	16.181	1...H1-1b
6	M46	PL1/2x6	.196	.516	2	.131	.516	y	15	66009.2...	97200	1.012	12.15	1...H1-1b
7	M51B	L2x2x3	.147	4.162	2	.015	0	y	17	9823.122	23392.8	.558	1.094	1... H2-1
8	M52B	L2x2x3	.171	0	12	.013	0	y	21	9823.122	23392.8	.558	1.092	1... H2-1
9	M76	PL3/8x6	.241	0	2	.327	0	y	18	70677.9...	72900	.57	9.113	1...H1-1b
10	M77	PL3/8x6	.259	.167	8	.379	0	y	13	71601.7...	72900	.57	9.113	1...H1-1b
11	M80	PL1/2x6	.059	.112	1	.070	.112	y	5	96757.5...	97200	1.012	12.15	1...H1-1b
12	M84	PL3/8x6	.211	0	10	.170	0	y	20	70677.9...	72900	.57	9.113	1...H1-1b



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

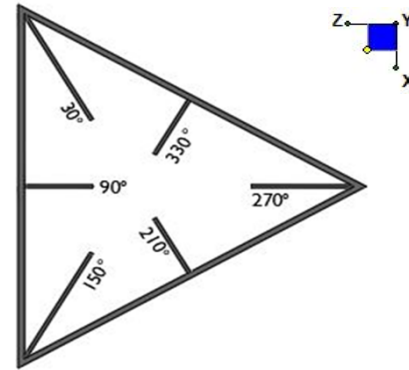
Member	Shape	Code Check	Loc[...]	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc...	phi*Pnt...	phi*Mn...	phi*Mn...	Cb	Eqn
13	M85	PL3/8x6	.282	.167	6	.403	0	y	24	71601.7...	72900	.57	9.113	1...H1-1b
14	M91	PL1/2x6	.048	.112	1	.080	0	y	3	96757.5...	97200	1.012	12.15	1...H1-1b
15	MP2A	PIPE 2.0	.347	4	9	.080	4		7	14916.0...	32130	1.872	1.872	1...H1-1b
16	MP4A	PIPE 2.0	.256	4	17	.109	1		7	14916.0...	32130	1.872	1.872	1...H1-1b
17	MP3A	PIPE 2.5	.308	4	5	.083	1		8	30038.4...	50715	3.596	3.596	1...H1-1b
18	M34	PIPE 3.0	.165	4.427	13	.077	8.203		14	28250.5...	65205	5.749	5.749	1...H1-1b
19	M35	HSS4X4X4	.382	0	19	.108	0	y	44	124657...	139518	16.181	16.181	3...H1-1b
20	M36	HSS4X4X4	.195	2.375	22	.055	2.375	y	19	136263...	139518	16.181	16.181	1...H1-1b
21	MP1C	PIPE 2.0	.312	4	17	.091	4		4	14916.0...	32130	1.872	1.872	1...H1-1b
22	M39	HSS4X4X4	.197	0	20	.068	0	y	24	136263...	139518	16.181	16.181	1...H1-1b
23	M40	PL1/2x6	.196	.516	10	.163	.516	y	35	66009.2...	97200	1.012	12.15	1...H1-1b
24	M43A	L2x2x3	.147	4.162	10	.015	0	y	13	9823.122	23392.8	.558	1.092	1...H2-1
25	M44	L2x2x3	.170	0	8	.013	0	y	17	9823.122	23392.8	.558	1.094	1...H2-1
26	M48	PL3/8x6	.240	0	10	.327	0	y	14	70677.9...	72900	.57	9.113	1...H1-1b
27	M49	PL3/8x6	.259	.167	4	.379	0	y	21	71601.7...	72900	.57	9.113	1...H1-1b
28	M51C	PL1/2x6	.059	.112	9	.079	.112	y	25	96757.5...	97200	1.012	12.15	1...H1-1b
29	M53	PL3/8x6	.212	0	6	.171	0	y	16	70677.9...	72900	.57	9.113	1...H1-1b
30	M54	PL3/8x6	.282	.167	2	.403	0	y	20	71601.7...	72900	.57	9.113	1...H1-1b
31	M56	PL1/2x6	.048	.112	9	.164	0	y	35	96757.5...	97200	1.012	12.15	1...H1-1b
32	MP2C	PIPE 2.0	.348	4	5	.080	4		3	14916.0...	32130	1.872	1.872	1...H1-1b
33	MP4C	PIPE 2.0	.256	4	13	.109	1		3	14916.0...	32130	1.872	1.872	1...H1-1b
34	MP3C	PIPE 2.5	.308	4	2	.083	1		4	30038.4...	50715	3.596	3.596	1...H1-1b
35	M67	PIPE 3.0	.165	4.427	21	.077	8.203		22	28250.5...	65205	5.749	5.749	1...H1-1b
36	M68	HSS4X4X4	.394	0	15	.105	0	y	15	124657...	139518	16.181	16.181	3...H1-1b
37	M69	HSS4X4X4	.194	2.375	18	.055	2.375	y	15	136263...	139518	16.181	16.181	1...H1-1b
38	MP1B	PIPE 2.0	.312	4	13	.091	4		12	14916.0...	32130	1.872	1.872	1...H1-1b
39	M72	HSS4X4X4	.197	0	16	.068	0	y	20	136263...	139518	16.181	16.181	1...H1-1b
40	M73	PL1/2x6	.195	.516	6	.131	.516	y	19	66009.2...	97200	1.012	12.15	1...H1-1b
41	M76A	L2x2x3	.147	4.162	6	.015	0	y	21	9823.122	23392.8	.558	1.094	1...H2-1
42	M77A	L2x2x3	.171	0	4	.013	0	y	13	9823.122	23392.8	.558	1.092	1...H2-1
43	M81	PL3/8x6	.239	0	6	.327	0	y	22	70677.9...	72900	.57	9.113	1...H1-1b
44	M82	PL3/8x6	.259	.167	12	.379	0	y	17	71601.7...	72900	.57	9.113	1...H1-1b
45	M84A	PL1/2x6	.059	.112	5	.069	.112	y	9	96757.5...	97200	1.012	12.15	1...H1-1b
46	M86	PL3/8x6	.211	0	2	.172	0	y	24	70677.9...	72900	.57	9.113	1...H1-1b
47	M87	PL3/8x6	.282	.167	10	.404	0	y	16	71601.7...	72900	.57	9.113	1...H1-1b
48	M89	PL1/2x6	.048	.112	5	.081	0	y	7	96757.5...	97200	1.012	12.15	1...H1-1b
49	MP2B	PIPE 2.0	.349	4	1	.080	4		11	14916.0...	32130	1.872	1.872	1...H1-1b
50	MP4B	PIPE 2.0	.256	4	21	.109	1		11	14916.0...	32130	1.872	1.872	1...H1-1b
51	MP3B	PIPE 2.5	.307	4	9	.083	1		12	30038.4...	50715	3.596	3.596	1...H1-1b
52	M104	PIPE 2.0	.241	3.776	5	.131	.781		7	6295.422	32130	1.872	1.872	2...H1-1b
53	M109	PIPE 2.0	.241	8.724	17	.131	.781		3	6295.422	32130	1.872	1.872	2...H1-1b
54	M114	PIPE 2.0	.241	8.724	13	.131	.781		11	6295.422	32130	1.872	1.872	2...H1-1b
55	M121	L2.5x2.5x4	.305	1.346	7	.053	0	z	12	36343.6...	38556	1.114	2.537	2...H2-1
56	M122	L2.5x2.5x4	.305	1.346	11	.052	0	z	4	36343.6...	38556	1.114	2.537	2...H2-1
57	M123	L2.5x2.5x4	.305	1.346	3	.052	0	z	8	36343.6...	38556	1.114	2.537	2...H2-1
58	OVP1	PIPE 2.0	.096	2	10	.018	2		10	28843.4...	32130	1.872	1.872	2...H1-1b
59	OVP2	PIPE 2.0	.096	2	2	.018	2		2	28843.4...	32130	1.872	1.872	2...H1-1b



I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N50	30
N96	150
N3	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):

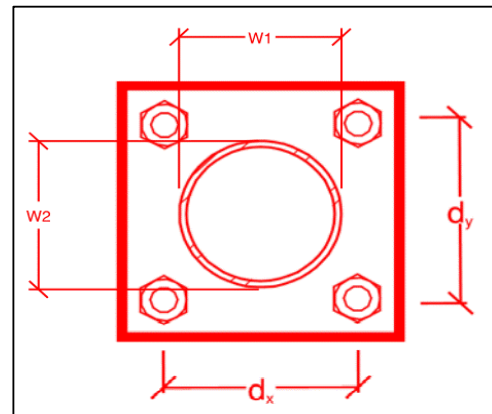
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
4
6
6
A325N
0.625
25.5
5.1
20.7
12.4
30.7%*
10.3%



*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):

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

Required Weld Strength (kip/in):

Plate Bending Capacity:

Weld Capacity:

Rect
8.25
8.25
4
4
35
0.75
6
8.35
3.56
35.1%
42.6%

Max Plate Bending Strengths

$M_{u_{xx}}$ (kip-in):	12.1
$\Phi * M_{n_{xx}}$ (kip-in):	36.5
$M_{u_{yy}}$ (kip-in):	0.7
$\Phi * M_{n_{yy}}$ (kip-in):	36.5

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – New Mount Passing MA

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, this includes safety issues.

Base Requirements:

- Any special photos outside of the standard requirements will be indicated on the passing MA
- Verification that loading is as communicated in the Mount Analysis. NOTE If loading is different than what is conveyed in the modification drawing contact Maser Consulting Connecticut immediately.
- Verification that the New Mount Installed is as specified in the MA
- 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 new mount;
- Photos taken at Mount Elevation
 - Photos showing each individual sector before and also after installation of equipment.
 - These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
 - Photos showing the newly installed mount that is as specified in the Mount Analysis

Special Instructions / Validation as required from the MA or any other information the contractor deems necessary to share that was identified:

Issue:

Contractor shall install new Support Rail kit (Site Pro 1 Part #: HRK-12) 36" above the proposed mount face members.


















Contractor shall replace mount pipe in position 3 (Position 1 being on the right when looking from behind) with a new 96" long P2.5 STD mount pipe . Connect new pipe to proposed support rail using new crossover plates (Site Pro 1 Part #: SCX2-K).

Contractor shall install one (1) new 36" long P2.0 STD equipment pipe for proposed OVP units connected to the proposed standoff horizontal members between the Alpha/gamma sector and the Beta/Gamma sectors. Connect the new pipe to the standoff 9" from the tower connection using new crossover plates (Site Pro 1 Part #: SQCX4-K).

Response:

--

Schedule A – Photo & Document File Structure

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

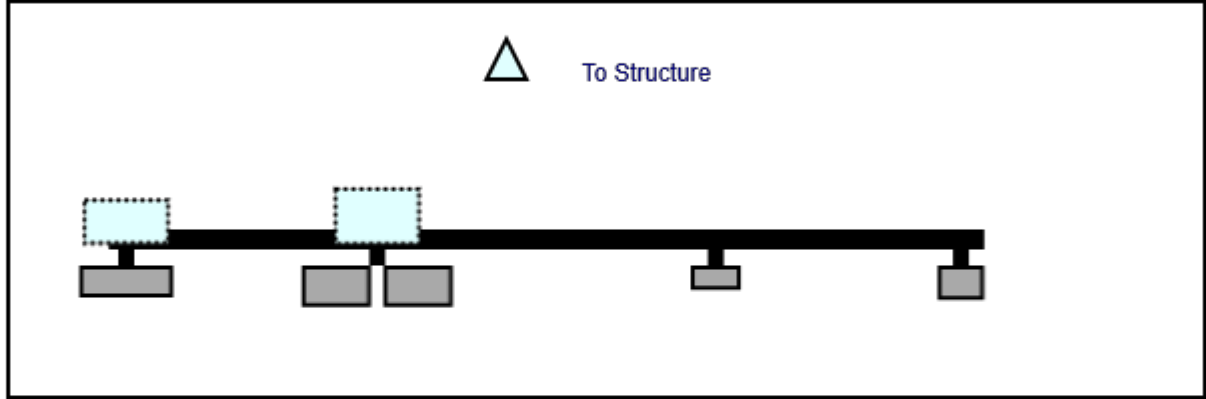
Sector: **A**
 Structure Type: Monopole
 Mount Elev: 115.50

7/6/2021

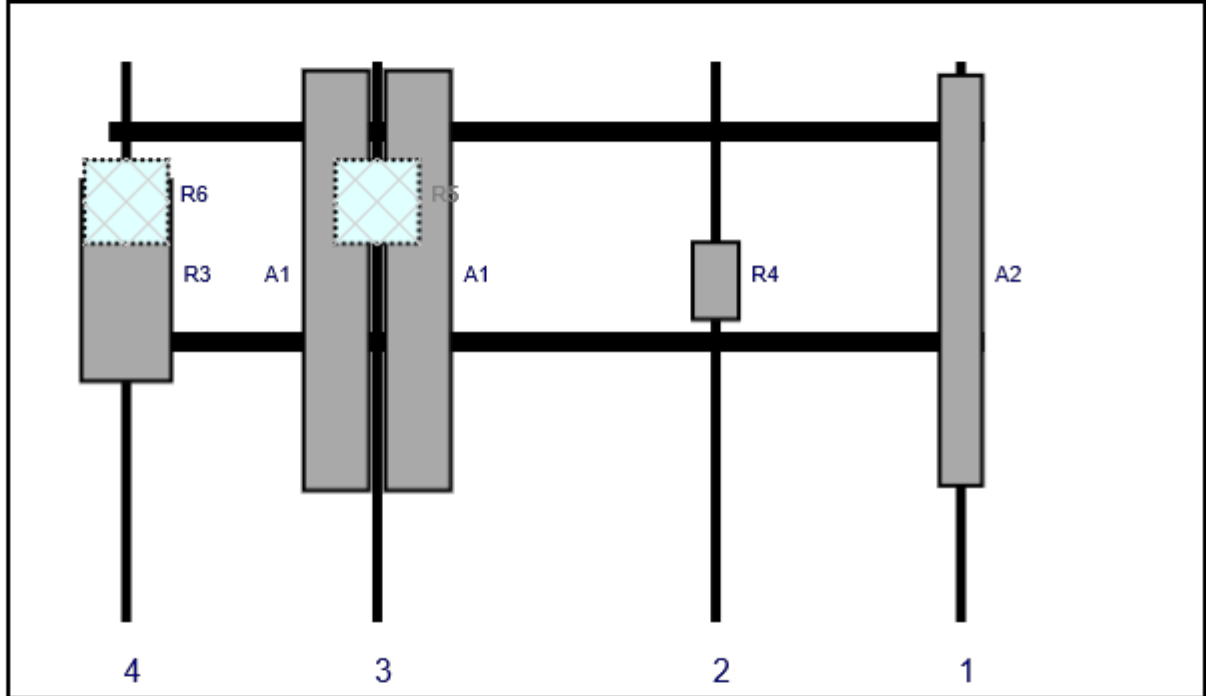


Page: 1

Plan View

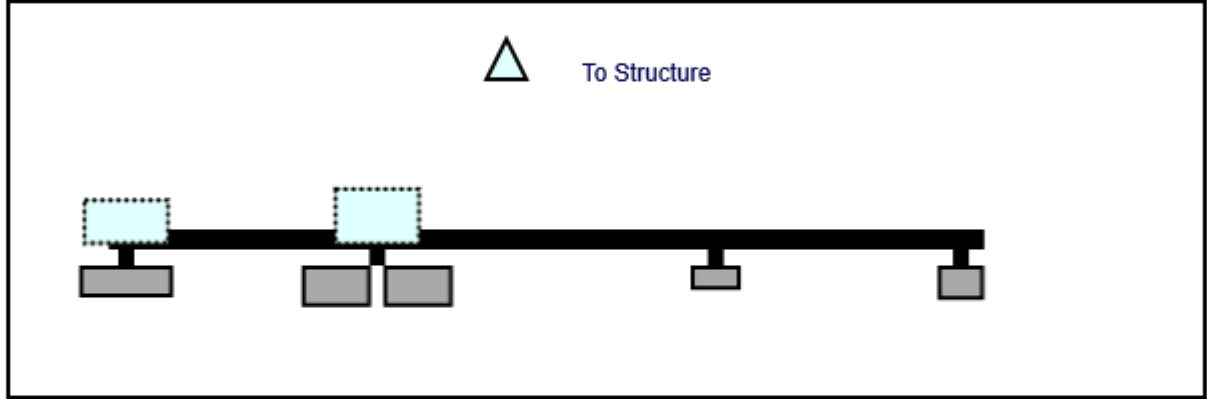


Front View
Looking at Structure

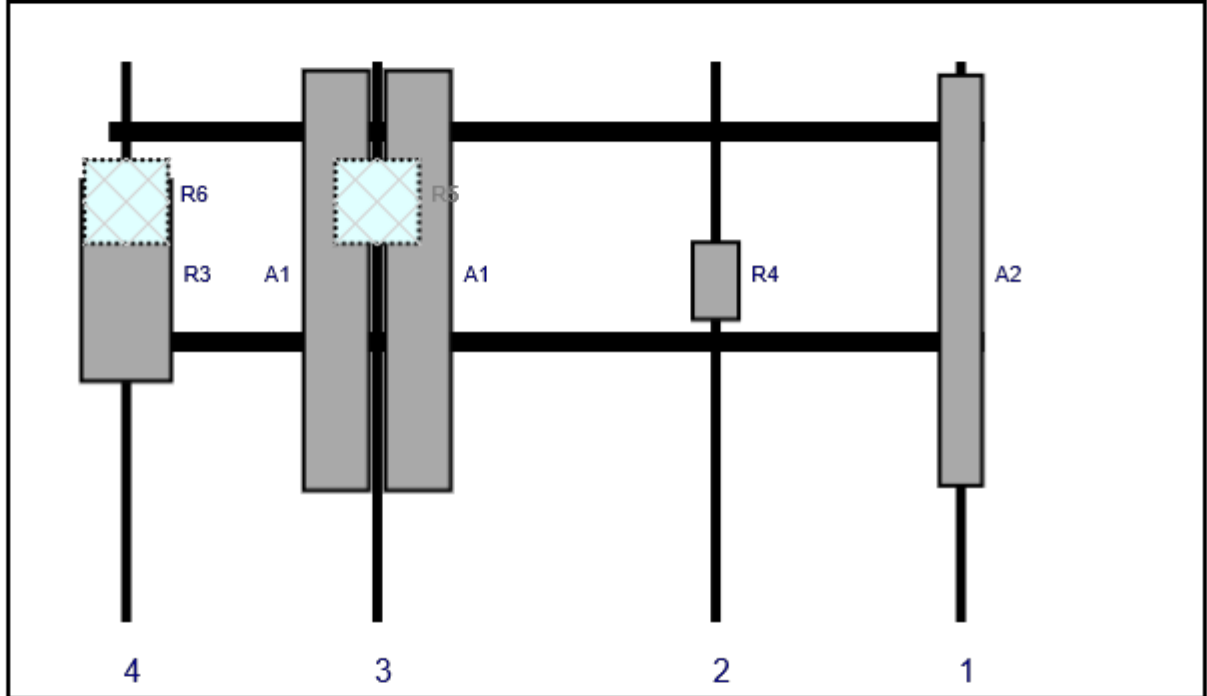


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	BXA-70080-6CF-EDIN-4	71	8	146	1	a	Front	37.5	0	Added	
R4	XXDWMM-12.5-65-8T-CBRS	13.9	8.6	104	2	a	Front	37.56	0	Added	
A1	SBNHH-1D65B	72.6	11.9	46	3	a	Front	37.5	7	Retained	
A1	SBNHH-1D65B	72.6	11.9	46	3	b	Front	37.5	-7	Retained	
R5	B2/B66A RRRH-BR049	15	15	46	3	a	Behind	24	0	Added	
R3	MT6407-77A	35.1	16.1	3	4	a	Front	37.56	0	Added	
R6	B5/B13 RRRH-BR04C	15	15	3	4	a	Behind	24	0	Added	

Plan View

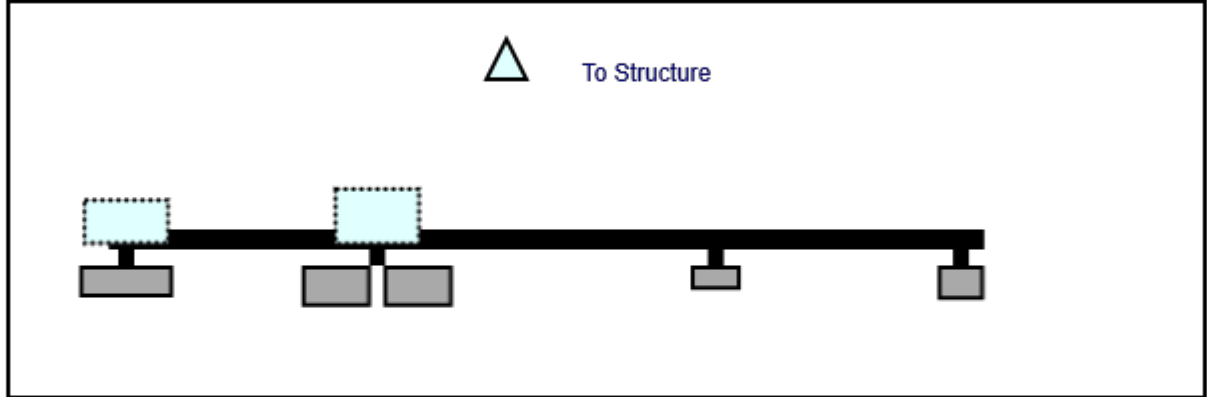


Front View
Looking at Structure

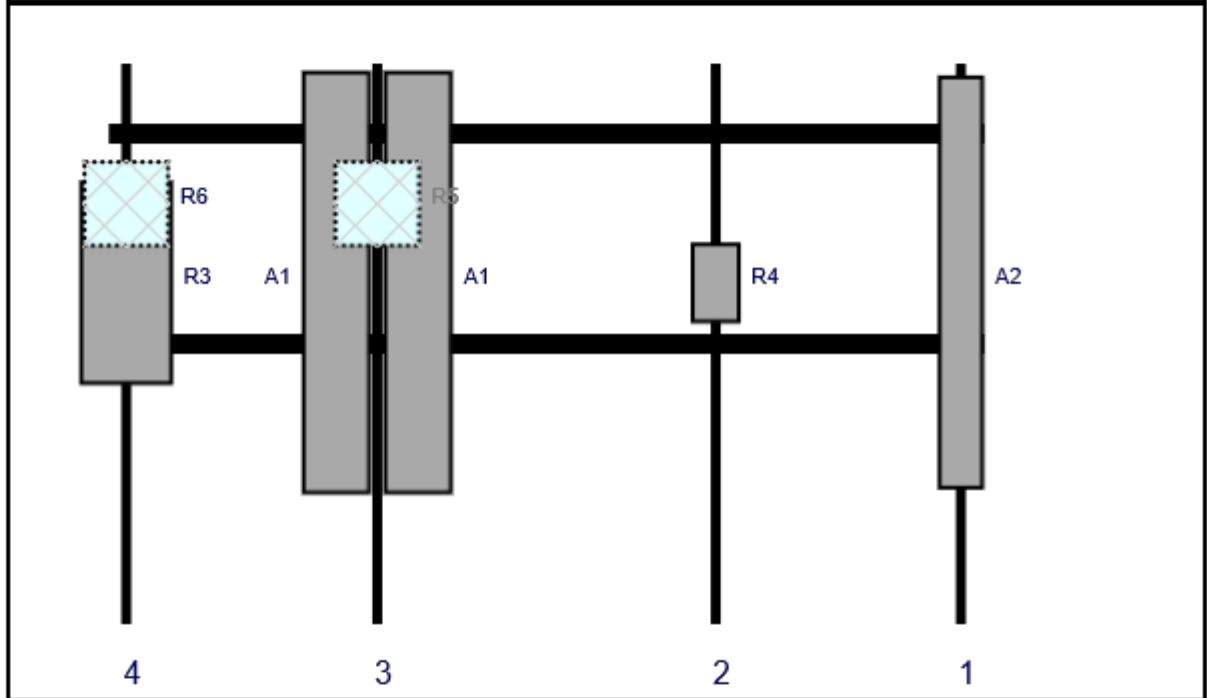


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
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R3	MT6407-77A	35.1	16.1	3	4	a	Front	37.56	0	Added	
R6	B5/B13 RRR-BR04C	15	15	3	4	a	Behind	24	0	Added	

Plan View



Front View
 Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
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R5	B2/B66A RRRH-BR049	15	15	46	3	a	Behind	24	0	Added	
R3	MT6407-77A	35.1	16.1	3	4	a	Front	37.56	0	Added	
R6	B5/B13 RRRH-BR04C	15	15	3	4	a	Behind	24	0	Added	

Maser Consulting Connecticut

Subject

TIA-222-H Usage

Site Information

Site ID: 468246-VZW / BERLIN 2 CT
Site Name: BERLIN 2 CT
Carrier Name: Verizon Wireless
Address: 260 Beckley Rd
Berlin, Connecticut 06037
Hartford County
Latitude: 41.631711°
Longitude: -72.729914°

Structure Information

Tower Type: 152-Ft Monopole
Mount Type: 12.50-Ft Platform

FUZE ID # 2552218

To Whom It May Concern,

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

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

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

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

Sincerely,

Dejian Xu, PE
Technical Manager

Site Name: **BERLIN 2 CT**
 Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm ²)	(mW/cm ²)	(%)
VZW 700	751	4	660	2640	116	0.0071	0.5007	1.41%
VZW CDMA	869	2	394	789	116	0.0021	0.5793	0.36%
VZW Cellular	869	4	800	3200	116	0.0086	0.5793	1.48%
VZW PCS	1970	4	1395	5580	116	0.0149	1.0000	1.49%
VZW AWS	2110	4	1478	5912	116	0.0158	1.0000	1.58%
VZW CBAND	3730.08	4	6531	26124	116	0.0698	1.0000	6.98%
VZW CBRS	3625	4	12	48	116	0.0001	1.0000	0.01%
Total Percentage of Maximum Permissible Exposure								13.32%

*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

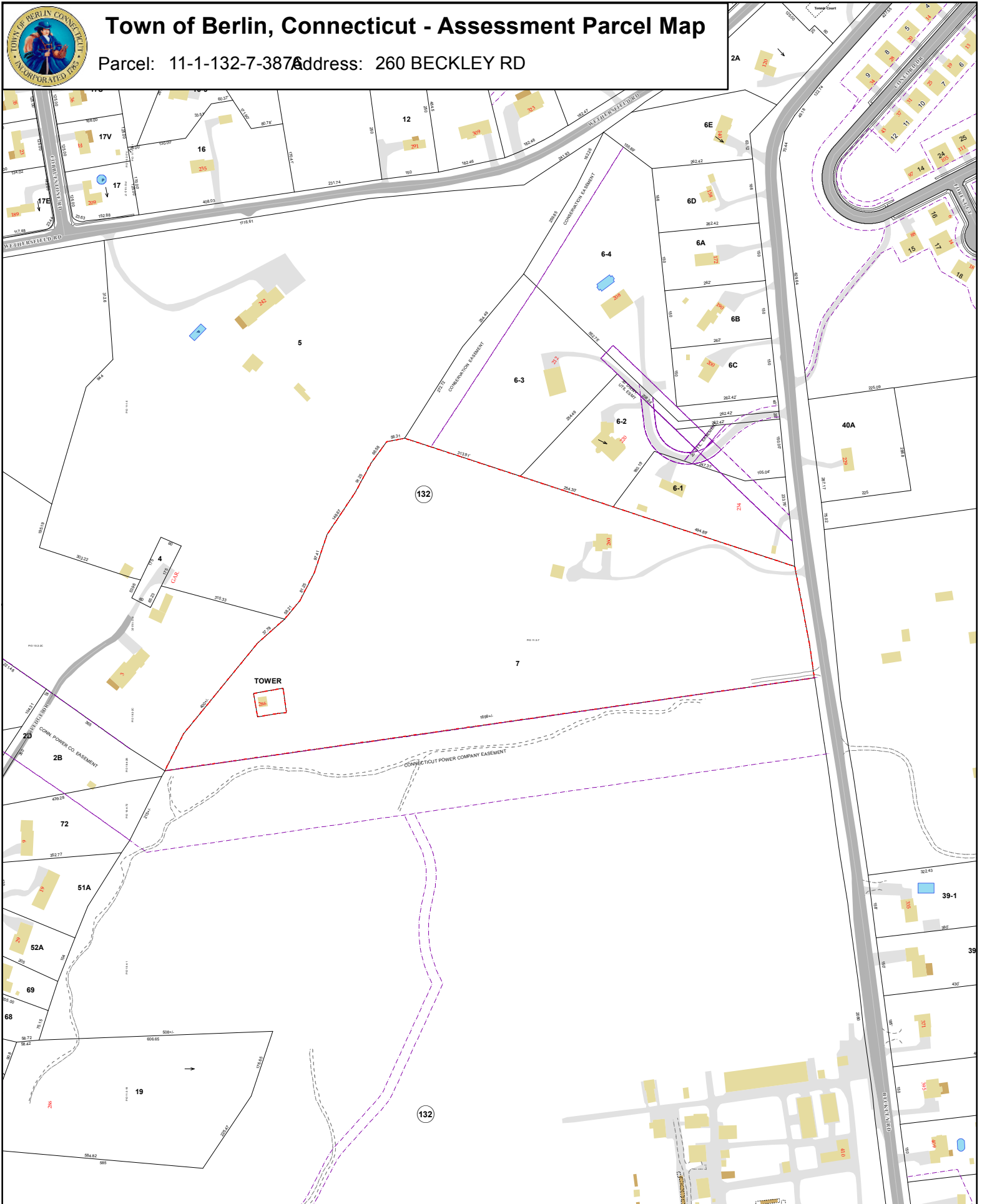
ERP = Effective Radiated Power

Absolute worst case maximum values used.

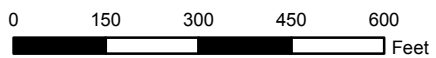


Town of Berlin, Connecticut - Assessment Parcel Map

Parcel: 11-1-132-7-387 Address: 260 BECKLEY RD



Approximate Scale: 1 inch = 311 feet



Map Produced: January 2021

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



Town of Berlin, CT

Property Listing Report

Map Block Lot

11-1-132-7-3876

Building # 1

PID

3876

Account

1040690

Property Information

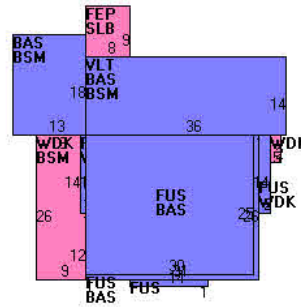
Property Location	260 BECKLEY RD
Owner	MATULIS ELAINE E & JOHN C JR
Co-Owner	
Mailing Address	260 BECKLEY RD BERLIN CT 06037
Land Use	1010 Single Family
Land Class	R
Zoning Code	R-43
Census Tract	4001

District	0
Acreage	17.9
Utilities	All Public
Book / Page	0234/0913

Photo



Sketch

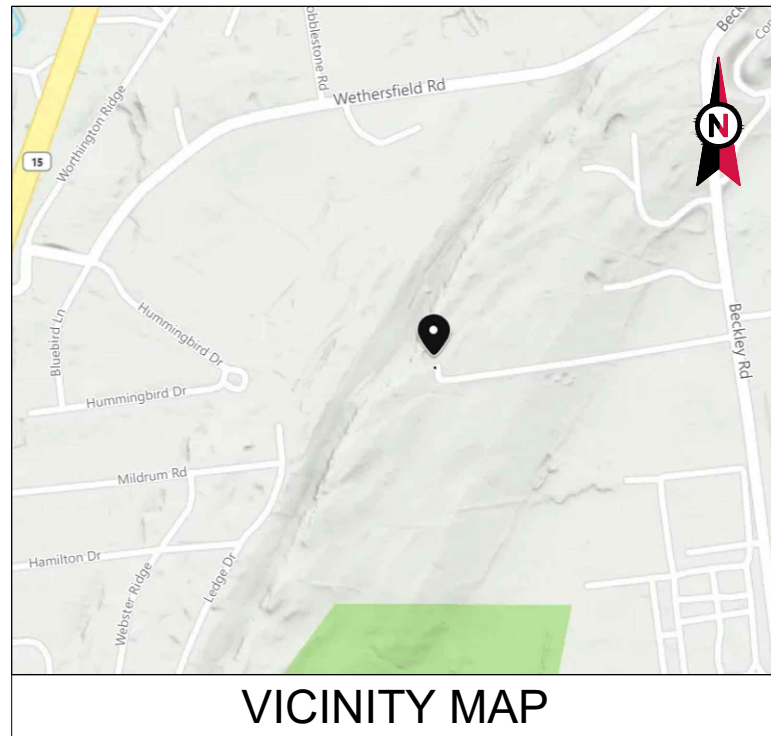


Primary Construction Details

Year Built	1981
Building Desc.	Single Family
Building Style	Contemp
Stories	2
Occupancy	1.00
Exterior Walls	Clapboard
Exterior Walls 2	
Roof Style	Gable
Roof Cover	Asph/F Gls/Cmp
Interior Walls	Drywall
Interior Walls 2	
Interior Floors 1	Hardwood
Interior Floors 2	

Heating Fuel	Oil/Gas
Heating Type	Forced Air-Duc
AC Type	Central
Bedrooms	4 Bedrooms
Full Bathrooms	2
Half Bathrooms	1
Extra Fixtures	0
Total Rooms	8
Bath Style	Average
Kitchen Style	Average
Fin BSMT Area	340
Fin BSMT Quality	Rec Room Fin
Fin BSMT Area 2	
Fin BSMT Qual 2	

BSMT Garages	2
Fireplaces	3
Whirlpool Tub	1
Building Use	Residential
Building Condition	A
Industrial / Commercial Details (*Residential Not Applicable)	
Heat / AC	NA
Frame Type	NA
Baths / Plumbing	NA
Ceiling / Wall	NA
Rooms / Prtns	NA
Wall Height	NA
First Floor Use	NA



VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: BRIN - BERLIN
 ATC SITE NUMBER: 302483
 VERIZON SITE NAME: BERLIN II CT
 VERIZON SITE NUMBER: 468246
 SITE ADDRESS: 260 BECKLEY ROAD
 BERLIN, CT 06037



LOCATION MAP

**VERIZON
 ANTENNA AMENDMENT PLAN**

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
<p>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.</p> <ol style="list-style-type: none"> 2015 INTERNATIONAL BUILDING CODE (IBC) 2017 NATIONAL ELECTRIC CODE (NEC) 2018 CONNECTICUT STATE BUILDING CODE CITY/COUNTY ORDINANCES 	<p><u>SITE ADDRESS:</u> 260 BECKLEY ROAD BERLIN, CT 06037 COUNTY: HARTFORD</p> <p><u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.63172222 LONGITUDE: -72.7299 GROUND ELEVATION: 185' AMSL</p>	<p>THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: <u>TOWER WORK:</u> REINFORCE/MODIFY EXISTING MOUNT AS PER MASER CONSULTING MA DATED JULY 8, 2021</p> <p>REMOVE (9) ANTENNA(s), (9) RRH(s), (2) OVP(s) AND (12) 1-5/8" COAX CABLE(s)</p> <p>INSTALL (9) ANTENNA(s), (9) RRH(s) AND (2) OVP(s)</p> <p>EXISTING (6) ANTENNA(s), (6) 1-5/8" COAX CABLE(s) AND (2) 6X12 HYBRID CABLE(s) TO REMAIN</p> <p>AC ELECTRICAL POWER DESIGN TO BE PERFORMED BY OTHERS</p>	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
	<p><u>PROJECT TEAM</u></p> <p><u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801</p> <p><u>ENGINEER:</u> CLS ENGINEERING PLLC 319 CHAPANOKE RD, SUITE 118 RALEIGH, NC 27603 PH: (405) 348-5460 FAX: (405) 341-4625</p> <p><u>PROPERTY OWNER:</u> JOHN C MATULIS JR 286 BECKLEY ROAD BERLIN, CT 06037</p>	<p><u>PROJECT NOTES</u></p> <ol style="list-style-type: none"> THE FACILITY IS UNMANNED. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. HANDICAP ACCESS IS NOT REQUIRED. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7). 	G-001	TITLE SHEET	0	07/22/21	JT
	<p><u>PROJECT LOCATION DIRECTIONS</u></p> <p>I-91 S VIA EXIT 52 TOWARD NEW HAVEN. 10.9 MIMAP AVOID 5: MERGE ONTO CT-9 N VIA EXIT 22N TOWARD NEW BRITAIN. 2.2 MIMAP AVOID 6: TAKE THE CT-372 E EXIT, EXIT 21, TOWARD EAST BERLIN. 0.3 MIMAP AVOID 7: TURN LEFT ONTO CT-372/MILL ST. 0.4 MIMAP AVOID 8: TURN LEFT ONTO BERLIN ST. 0.1 MIMAP AVOID 9: TURN LEFT ONTO BECKLEY RD. 1.1 MIMAP AVOID 10: END AT 261 BECKLEY RD BERLIN, CT 06037-2505 MAP ESTIMATED TIME: 20 MINUTES ESTIMATED DISTANCE: 16.12 MILES</p>	<p><u>PROJECT TEAM</u></p> <p><u>APPLICANT:</u> VERIZON</p>	G-002	GENERAL NOTES	0	07/22/21	JT
<p><u>UTILITY COMPANIES</u></p> <p>POWER COMPANY: EVERSOURCE PHONE: (877) 659-6326</p> <p>TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: (800) 376-6843</p>	<p><u>PROJECT TEAM</u></p> <p><u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801</p> <p><u>ENGINEER:</u> CLS ENGINEERING PLLC 319 CHAPANOKE RD, SUITE 118 RALEIGH, NC 27603 PH: (405) 348-5460 FAX: (405) 341-4625</p> <p><u>PROPERTY OWNER:</u> JOHN C MATULIS JR 286 BECKLEY ROAD BERLIN, CT 06037</p>	<p>REMOVE (9) ANTENNA(s), (9) RRH(s), (2) OVP(s) AND (12) 1-5/8" COAX CABLE(s)</p> <p>INSTALL (9) ANTENNA(s), (9) RRH(s) AND (2) OVP(s)</p> <p>EXISTING (6) ANTENNA(s), (6) 1-5/8" COAX CABLE(s) AND (2) 6X12 HYBRID CABLE(s) TO REMAIN</p> <p>AC ELECTRICAL POWER DESIGN TO BE PERFORMED BY OTHERS</p>	C-101	DETAILED SITE PLAN	0	07/22/21	JT
<p>811 Know what's below. Call before you dig.</p>	<p><u>PROJECT TEAM</u></p> <p><u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801</p> <p><u>ENGINEER:</u> CLS ENGINEERING PLLC 319 CHAPANOKE RD, SUITE 118 RALEIGH, NC 27603 PH: (405) 348-5460 FAX: (405) 341-4625</p> <p><u>PROPERTY OWNER:</u> JOHN C MATULIS JR 286 BECKLEY ROAD BERLIN, CT 06037</p>	<p>AC ELECTRICAL POWER DESIGN TO BE PERFORMED BY OTHERS</p>	C-201	TOWER ELEVATION	0	07/22/21	JT
			C-401	ANTENNA INFORMATION & SCHEDULE	0	07/22/21	JT
			C-501	CONSTRUCTION DETAILS	0	07/22/21	JT
			E-501	GROUNDING DETAILS	0	07/22/21	JT
			R-601	SUPPLEMENTAL			
			R-602	SUPPLEMENTAL			
			R-603	SUPPLEMENTAL			
			R-604	SUPPLEMENTAL			



CLS ENGINEERING PLLC
 319 CHAPANOKE ROAD, SUITE 118, RALEIGH, NC 27603
 PH: (405)348-5460 FAX: (405)341-4625

COA# PEC.001833 EXP: 08/14/2021

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JRL	06/17/21
0	FOR CONSTRUCTION	JT	07/22/21

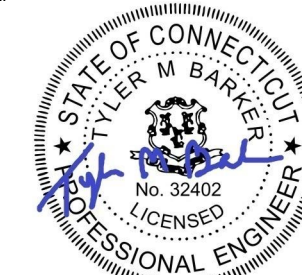
ATC SITE NUMBER:
 302483

ATC SITE NAME:
 BRIN - BERLIN

VERIZON SITE NAME:
 BERLIN II CT

SITE ADDRESS:
 260 BECKLEY ROAD
 BERLIN, CT 06037

SEAL:



Tyler M. Barker
 CLS Engineering PLLC
 PE # 32402 Exp. 1/31/2022
 COA # PEC.001833 Exp. 8/14/2022
 07/25/2021

PE# 32402 EXP: 01/31/2022



DATE DRAWN:	07/22/21
ATC JOB NO:	13673539_D1
CUSTOMER ID:	BERLIN II CT
CUSTOMER #:	468246

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 GREDDED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPICE WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.



CLS ENGINEERING
PLLC
319 CHAPANOKE ROAD, SUITE 118, RALEIGH, NC 27603
PH: (405)348-5460 FAX: (405)341-4625

COA# PEC.001833 EXP: 08/14/2021

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JRL	06/17/21
0	FOR CONSTRUCTION	JT	07/22/21

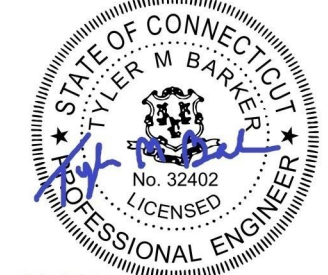
ATC SITE NUMBER:
302483

ATC SITE NAME:
BRIN - BERLIN

VERIZON SITE NAME:
BERLIN II CT

SITE ADDRESS:
260 BECKLEY ROAD
BERLIN, CT 06037

SEAL:



Tyler M. Barker
CLS Engineering PLLC
PE # 32402 Exp. 1/31/2022
COA # PEC.001833 Exp. 8/14/2022
07/25/2021

PE# 32402 EXP: 01/31/2022



DATE DRAWN:	07/22/21
ATC JOB NO:	13673539_D1
CUSTOMER ID:	BERLIN II CT
CUSTOMER #:	468246

GENERAL NOTES

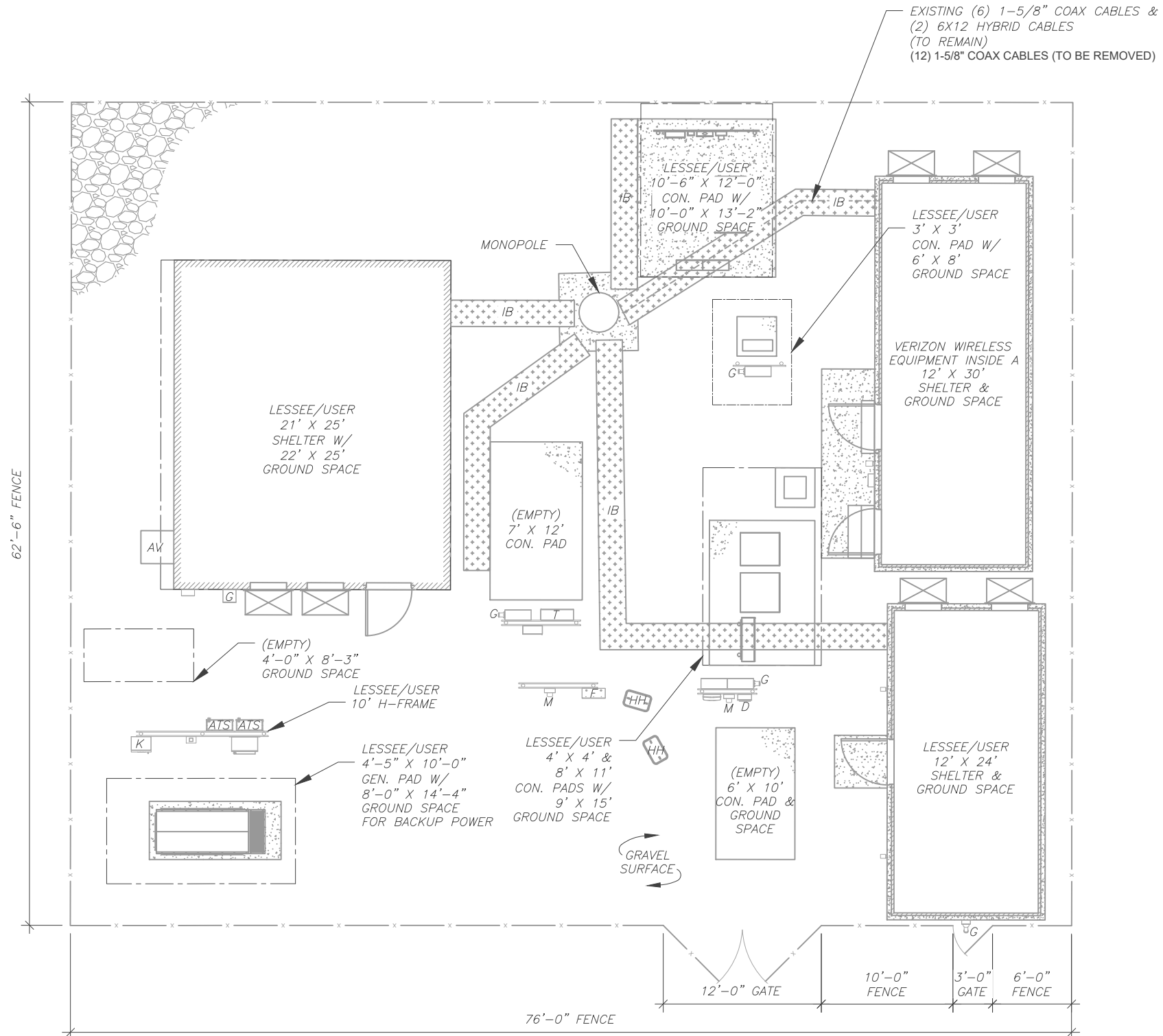
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REVISION:
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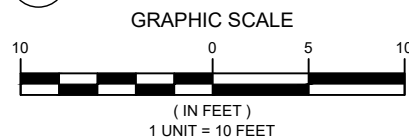
SITE PLAN NOTES:

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



1 DETAILED SITE PLAN



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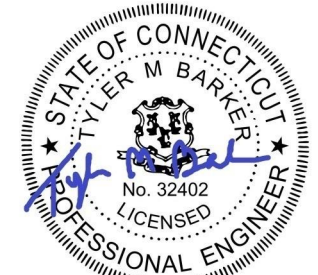
ATC SITE NUMBER:
302483

ATC SITE NAME:
BRIN - BERLIN

VERIZON SITE NAME:
BERLIN II CT

SITE ADDRESS:
260 BECKLEY ROAD
BERLIN, CT 06037

SEAL:



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PE# 32402 EXP: 01/31/2022

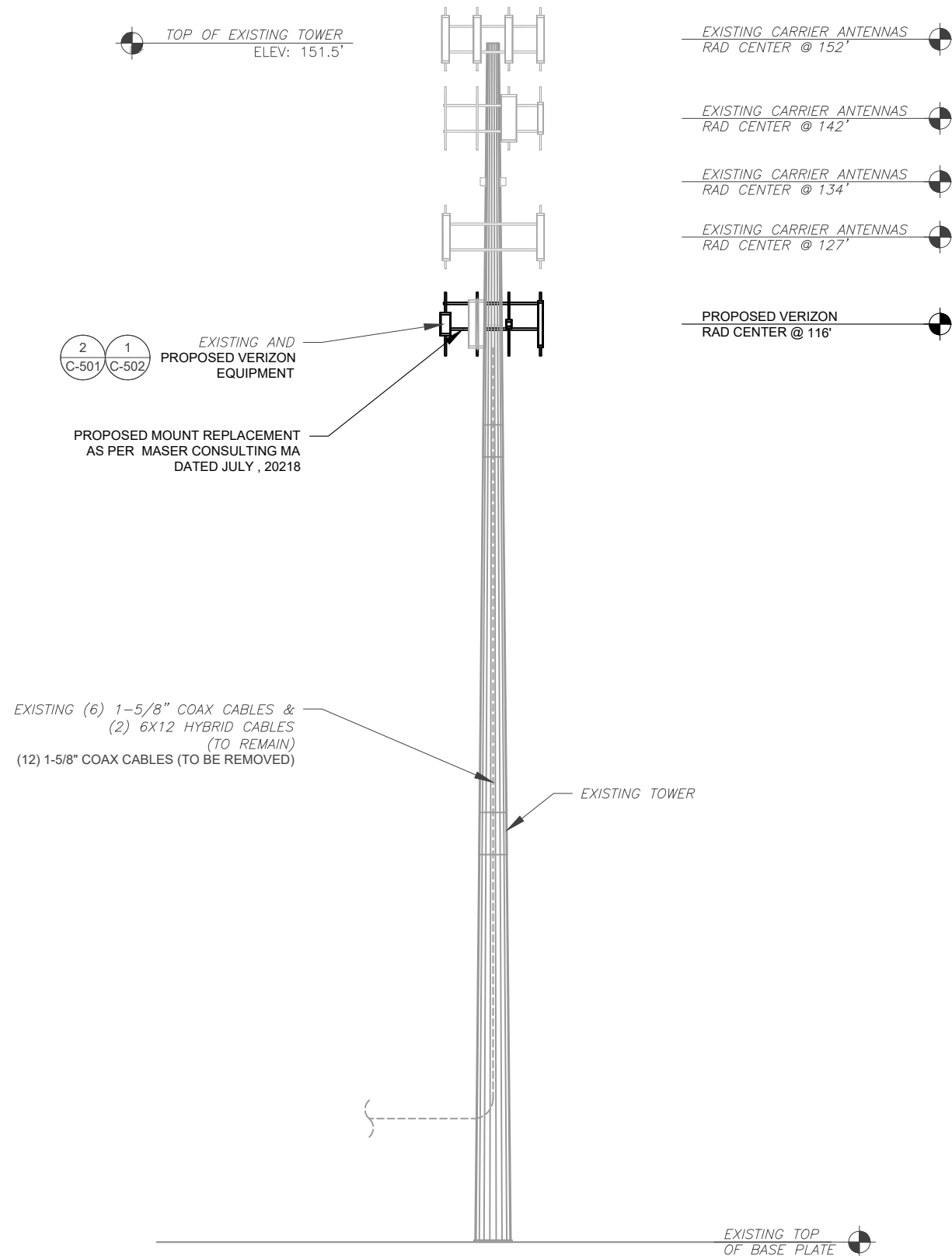


DATE DRAWN:	07/22/21
ATC JOB NO:	13673539_D1
CUSTOMER ID:	BERLIN II CT
CUSTOMER #:	468246

DETAILED SITE PLAN

SHEET NUMBER:
C-101

REVISION:
0



PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING, DATED JULY 8, 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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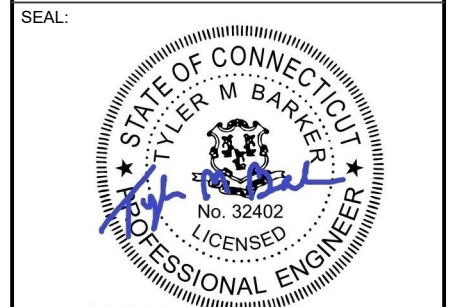
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PE# 32402 EXP: 01/31/2022



DATE DRAWN:	07/22/21
ATC JOB NO:	13673539_D1
CUSTOMER ID:	BERLIN II CT
CUSTOMER #:	468246

TOWER ELEVATION

SHEET NUMBER: C-201	REVISION: A
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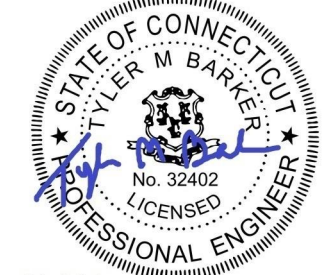
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PE# 32402 EXP: 01/31/2022



DATE DRAWN: 07/22/21
 ATC JOB NO: 13673539_D1
 CUSTOMER ID: BERLIN II CT
 CUSTOMER #: 468246

ANTENNA INFORMATION & SCHEDULE

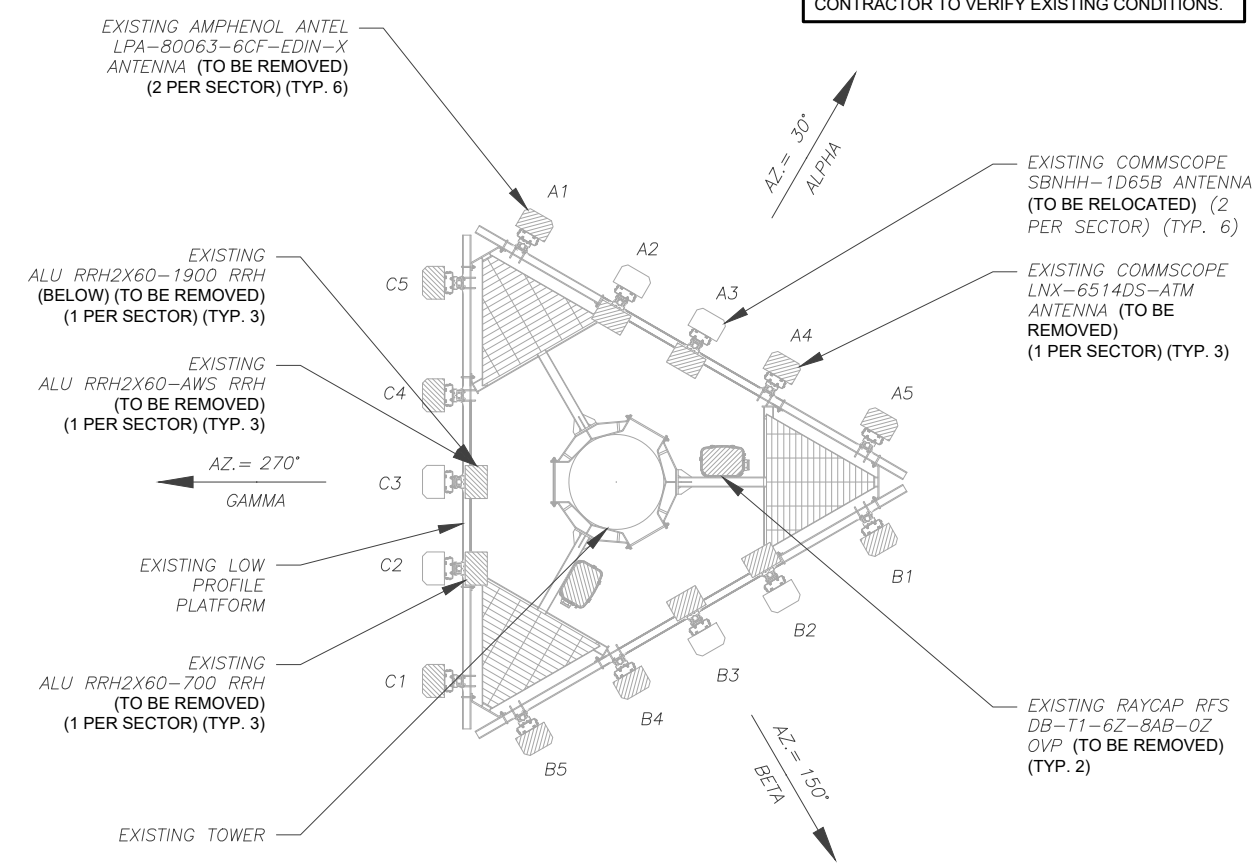
SHEET NUMBER:
C-401
 REVISION:
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EXISTING CONFIGURATIONS ARE BASED ON RFDS.
 CONTRACTOR TO VERIFY EXISTING CONDITIONS.

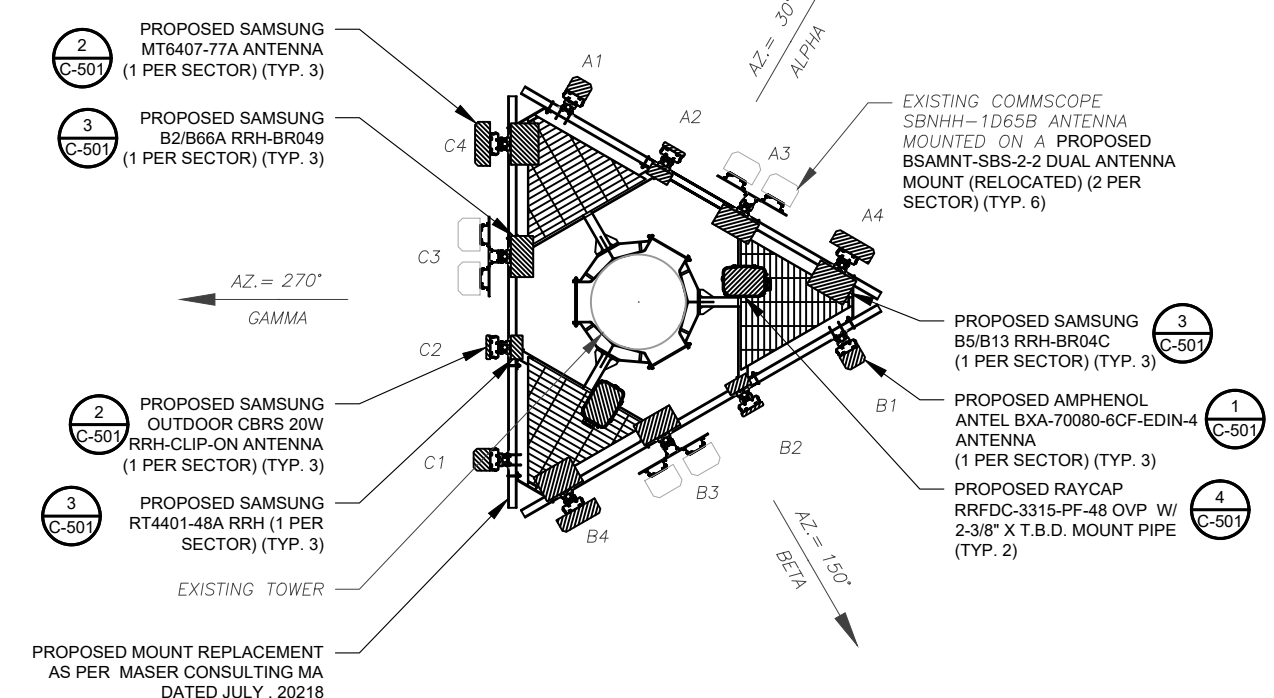
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CONTRACTOR SHALL RE-ORIENT ANTENNA MOUNT(S) AS NECESSARY TO ACHIEVE PROPOSED ANTENNA AZIMUTHS

PROPOSED RRUs MUST BE INSTALLED A MINIMUM OF 12" AWAY FROM ALL ANTENNAS



1 EXISTING ANTENNA PLAN
 SCALE: N.T.S.



2 FINAL ANTENNA PLAN
 SCALE: N.T.S.

EXISTING ANTENNA SCHEDULE									
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	116'	30°	A1	AMPHENOL ANTEL LPA-80063-6CF-EDIN-X	CDMA 850	-	RMV	-	-
			A2	COMMSCOPE SBNHH-1D65B	LTE 700	0/12	REL	ALU RRH2X60-700	RMV
			A3	COMMSCOPE SBNHH-1D65B	LTE 2100	0/5	RMN	ALU RRH2X60-AWS ALU RRH2X60-1900	RMV
			A4	COMMSCOPE LNX-6514DS-ATM	-	-	RMV	-	-
			A5	AMPHENOL ANTEL LPA-80063-6CF-EDIN-X	CDMA 850	-	RMV	-	-
BETA	116'	150°	B1	AMPHENOL ANTEL LPA-80063-6CF-EDIN-X	CDMA 850	-	RMV	-	-
			B2	COMMSCOPE SBNHH-1D65B	LTE 700	0/12	REL	ALU RRH2X60-700	RMV
			B3	COMMSCOPE SBNHH-1D65B	LTE 2100	0/5	RMN	ALU RRH2X60-AWS ALU RRH2X60-1900	RMV
			B4	COMMSCOPE LNX-6514DS-ATM	-	-	RMV	-	-
			B5	AMPHENOL ANTEL LPA-80063-6CF-EDIN-X	CDMA 850	-	RMV	-	-
GAMMA	116'	270°	C1	AMPHENOL ANTEL LPA-80063-6CF-EDIN-X	CDMA 850	-	RMV	-	-
			C2	COMMSCOPE SBNHH-1D65B	LTE 700	0/12	REL	ALU RRH2X60-700	RMV
			C3	COMMSCOPE SBNHH-1D65B	LTE 2100	0/5	RMN	ALU RRH2X60-AWS ALU RRH2X60-1900	RMV
			C4	COMMSCOPE LNX-6514DS-ATM	-	-	RMV	-	-
			C5	AMPHENOL ANTEL LPA-80063-6CF-EDIN-X	CDMA 850	-	RMV	-	-

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

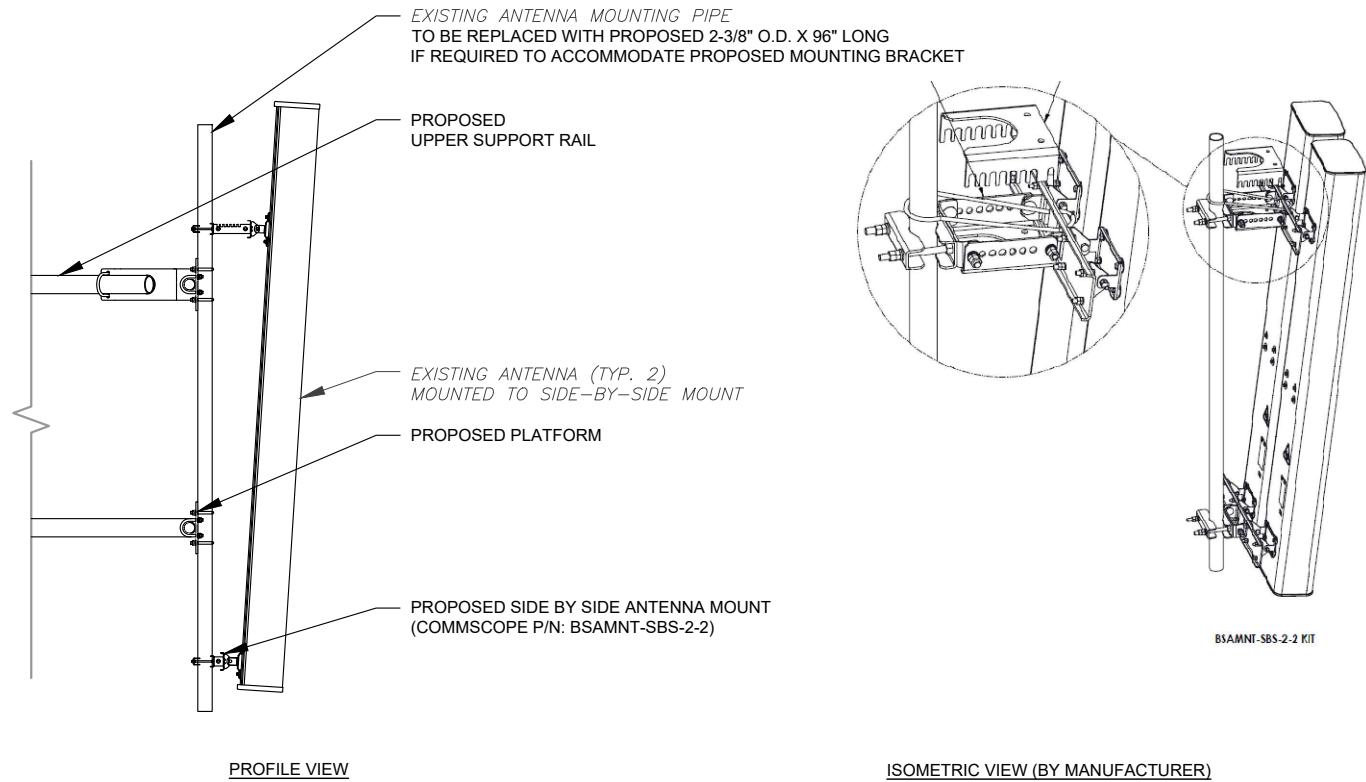
JUNCTION BOX TO RRU: 15'
 RRU TO ANTENNA: 10'

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	116'	30°	A1	AMPHENOL ANTEL BXA-70080-6CF-EDIN-1	CDMA 850	2/4	ADD	-	-
			A2	SAMSUNG OUTDOOR CBRS 20W RRH-CLIP-ON	LTE CBRS	0/8	ADD	SAMSUNG RT4401-48A	ADD
			A3	(2) COMMSCOPE SBNHH-1D65B	LTE 700/LTE 850/LTE 1900/LTE 2100	0/5	RMN	SAMSUNG B2/B66A RRH-BR049	ADD
			A4	SAMSUNG MT6407-77A	5G L-SUB6	0/6	ADD	SAMSUNG B5/B13 RRH-BR04C	ADD
BETA	116'	150°	B1	AMPHENOL ANTEL BXA-70080-6CF-EDIN-1	CDMA 850	2/4	ADD	-	-
			B2	SAMSUNG OUTDOOR CBRS 20W RRH-CLIP-ON	LTE CBRS	0/8	ADD	SAMSUNG RT4401-48A	ADD
			B3	(2) COMMSCOPE SBNHH-1D65B	LTE 700/LTE 850/LTE 1900/LTE 2100	0/5	RMN	SAMSUNG B2/B66A RRH-BR049	ADD
			B4	SAMSUNG MT6407-77A	5G L-SUB6	0/6	ADD	SAMSUNG B5/B13 RRH-BR04C	ADD
GAMMA	116'	270°	C1	AMPHENOL ANTEL BXA-70080-6CF-EDIN-1	CDMA 850	2/4	ADD	-	-
			C2	SAMSUNG OUTDOOR CBRS 20W RRH-CLIP-ON	LTE CBRS	0/8	ADD	SAMSUNG RT4401-48A	ADD
			C3	(2) COMMSCOPE SBNHH-1D65B	LTE 700/LTE 850/LTE 1900/LTE 2100	0/5	RMN	SAMSUNG B2/B66A RRH-BR049	ADD
			C4	SAMSUNG MT6407-77A	5G L-SUB6	0/6	ADD	SAMSUNG B5/B13 RRH-BR04C	ADD

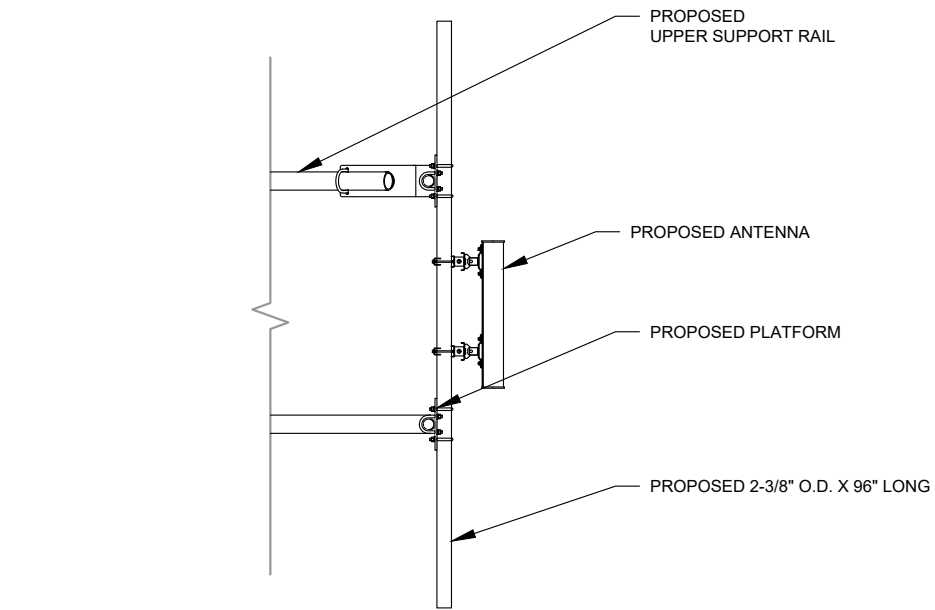
EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(2) RAYCAP DB-T1-6Z-8AB-OZ OVP	RMV	(12) 1-5/8"	-	RMV
-	-	(6) 1-5/8"	(2) 6X12 HYBRID	RMN

3 EQUIPMENT SCHEDULES

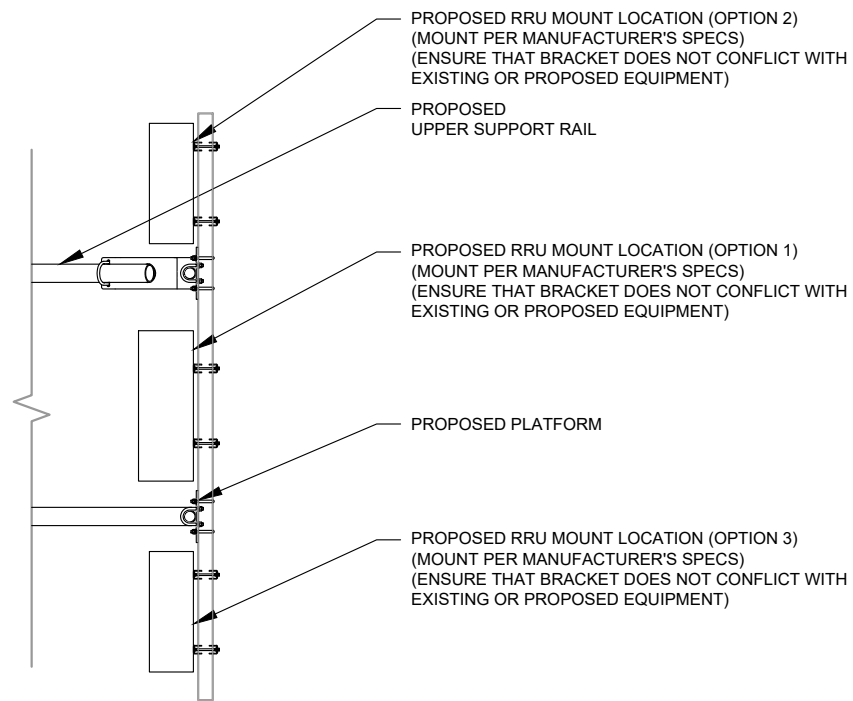
FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(2) RAYCAP RRFDC-3315-PF-48 OVP	ADD	(6) 1-5/8"	(2) 6X12 HYBRID	RMN



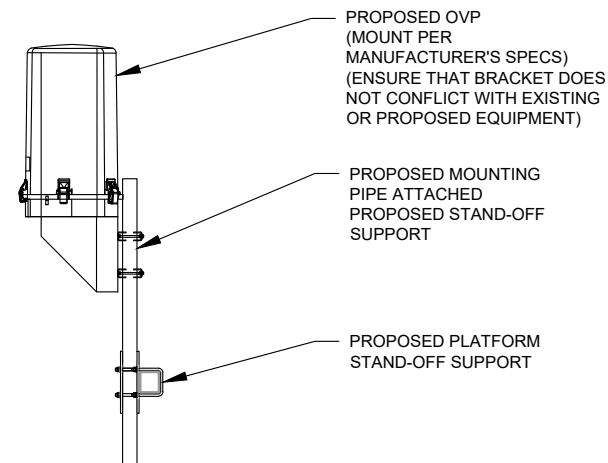
1 PROPOSED SIDE-BY-SIDE MOUNT
SCALE: NOT TO SCALE



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



3 PROPOSED RRU MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



4 PROPOSED OVP MOUNTING
SCALE: N.T.S.



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VERIZON SITE NAME:
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SITE ADDRESS:
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SEAL:



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PE # 32402 Exp. 1/31/2022
COA # PEC.001833 Exp. 8/14/2022

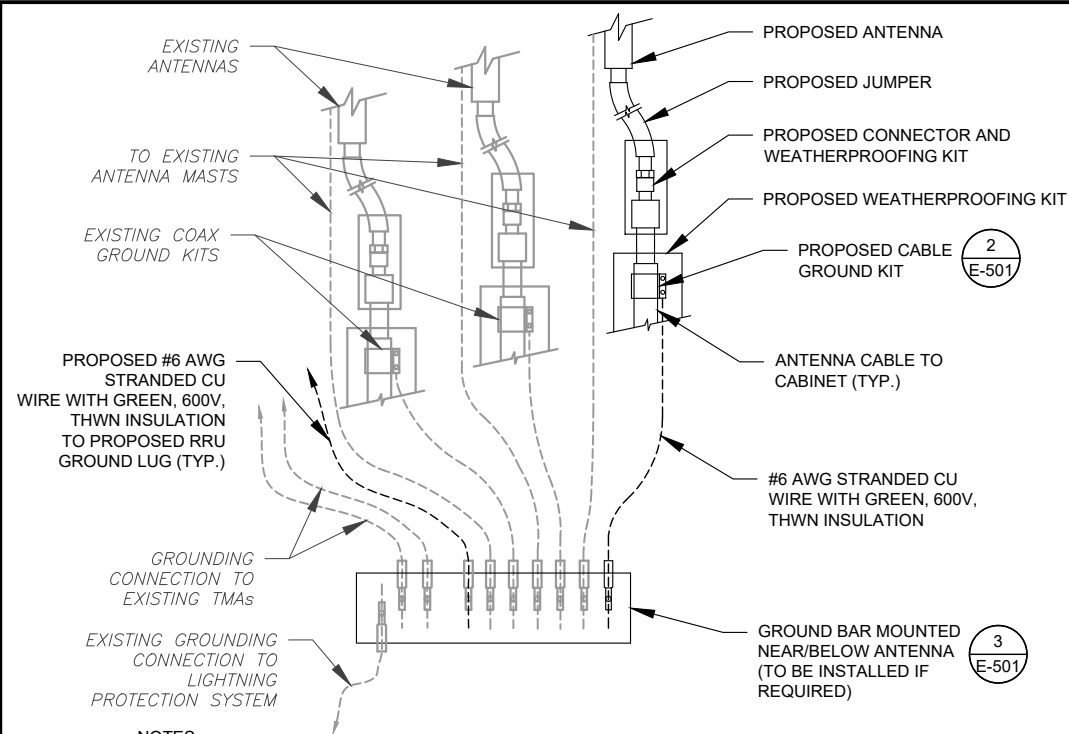
PE# 32402 EXP: 01/31/2022



DATE DRAWN:	07/22/21
ATC JOB NO:	13673539_D1
CUSTOMER ID:	BERLIN II CT
CUSTOMER #:	468246

CONSTRUCTION
DETAILS

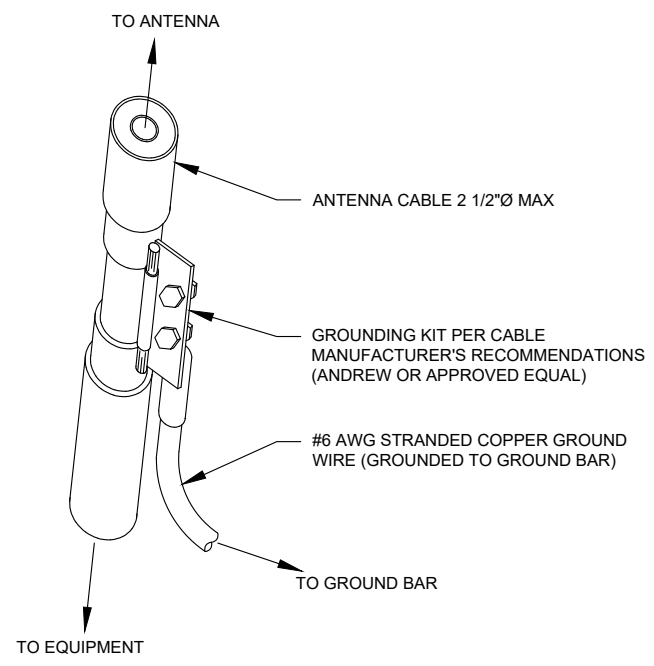
SHEET NUMBER:	REVISION:
C-501	0



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.

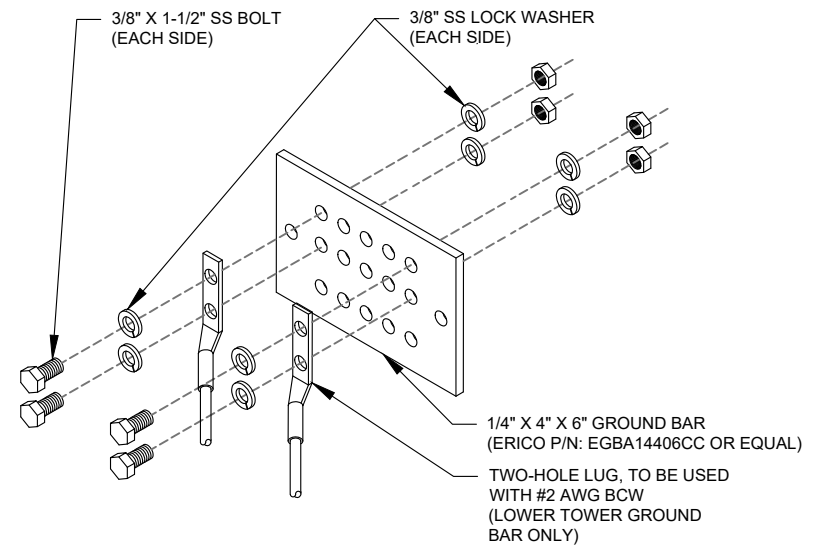
1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.



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.



CLS ENGINEERING PLLC
319 CHAPANOKE ROAD, SUITE 118, RALEIGH, NC 27603
PH: (405)348-5460 FAX: (405)341-4625

COA# PEC.001833 EXP: 08/14/2021

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JRL	06/17/21
0	FOR CONSTRUCTION	JT	07/22/21

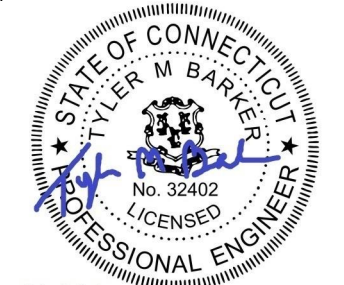
ATC SITE NUMBER:
302483

ATC SITE NAME:
BRIN - BERLIN

VERIZON SITE NAME:
BERLIN II CT

SITE ADDRESS:
260 BECKLEY ROAD
BERLIN, CT 06037

SEAL:



Tyler M. Barker
CLS Engineering PLLC
PE # 32402 Exp. 1/31/2022
COA # PEC.001833 Exp. 8/14/2022
07/25/2021

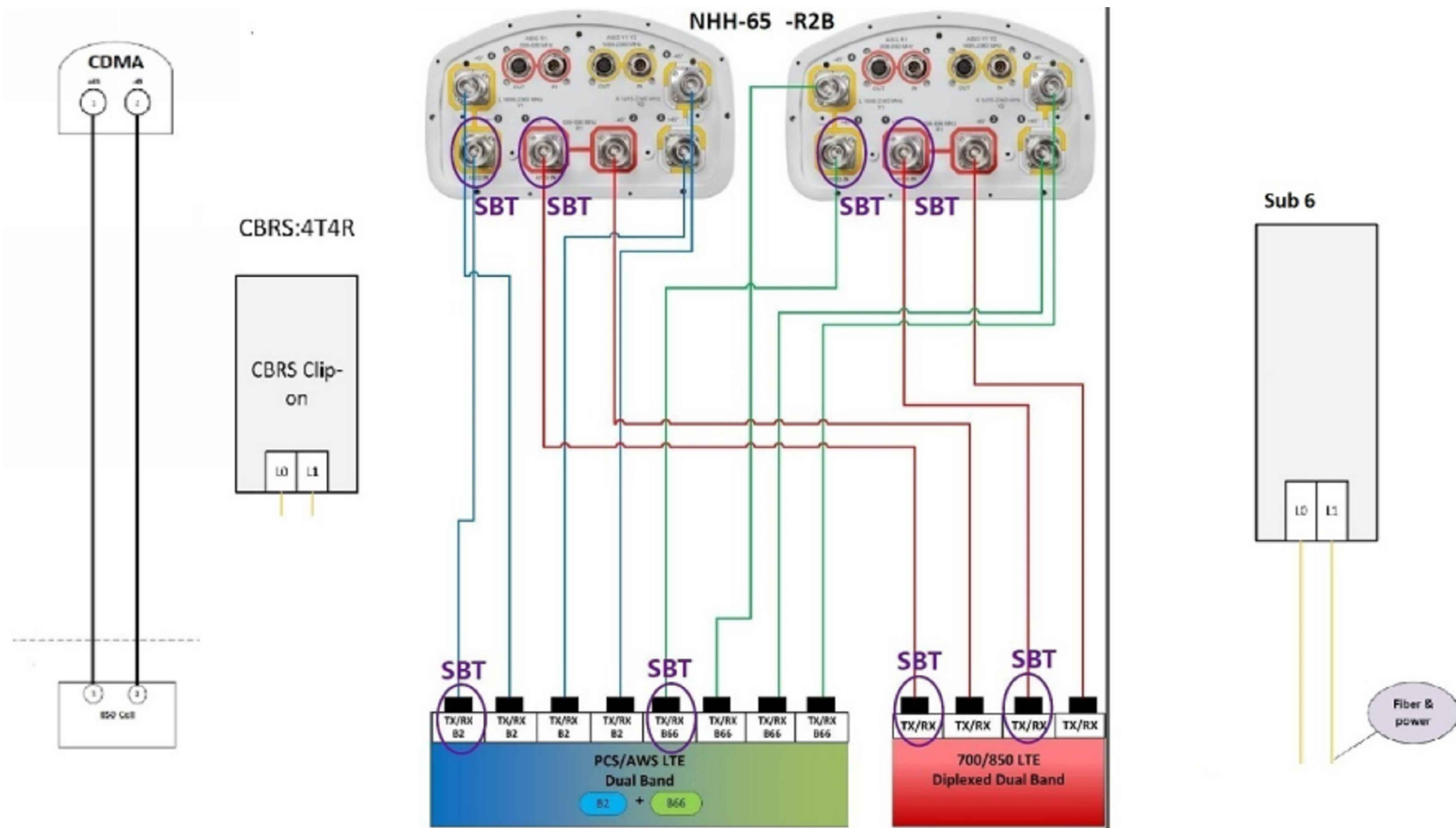
PE# 32402 EXP: 01/31/2022



DATE DRAWN:	07/22/21
ATC JOB NO:	13673539_D1
CUSTOMER ID:	BERLIN II CT
CUSTOMER #:	468246

GROUNDING DETAILS

SHEET NUMBER: E-501	REVISION: 0
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SUPPLEMENTAL

SHEET NUMBER:

R-601

REVISION:

-



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

New/Replacement Antenna Mount Analysis Report and PMI Requirements

Mount Analysis-R

SMART Tool Project #: 10062491
 Maser Consulting Connecticut Project #: 21777888A

July 8, 2021

Site Information

Site ID: 468246-VZW / BERLIN 2 CT
 Site Name: BERLIN 2 CT
 Carrier Name: Verizon Wireless
 Address: 260 Beckley Rd
 Berlin, Connecticut 06037
 Hartford County
 Latitude: 41.631711°
 Longitude: -72.729914°

Structure Information

Tower Type: 152-Ft Monopole
 Mount Type: 12.50-Ft Platform

FUZE ID # 2552218

Analysis Results

Platform: 42.6% Pass



Digitally signed by Taj Khawaja
 Date: 2021.07.09 09:34:09-0400'

***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

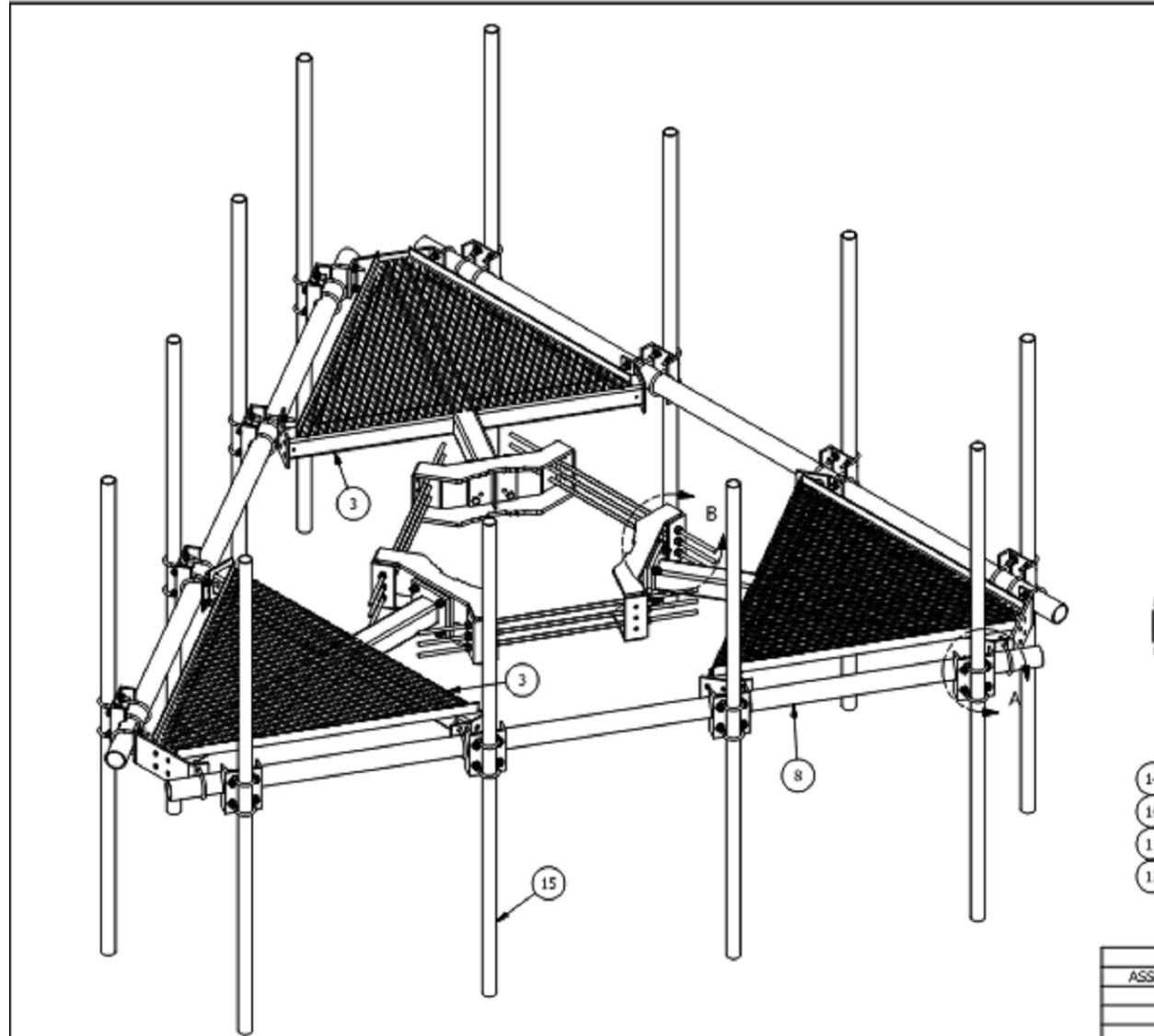
Requirements also Noted on Mount Modification Drawings

Requirements may also be Noted on A & E drawings

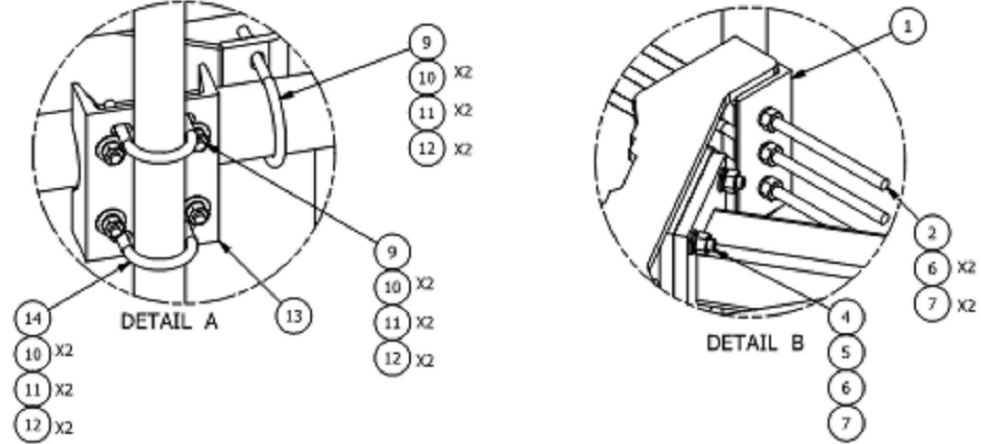
Report Prepared By: Nathan Laporte

SUPPLEMENTAL

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONTRUCTION.



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-LWRM	RING MOUNT WELDMENT		68.81	206.42
2	9	G58R-48	5/8" x 48" THREADED ROD (HDG.)		0.40	3.59
2	9	G58R-24	5/8" x 24" THREADED ROD (HDG.)		0.40	3.59
3	3	X-SV196	LOW PROFILE PLATFORM CORNER		212.10	636.31
4	12	A58234	5/8" x 2-3/4" HDG A325 HEX BOLT	2.75	0.36	4.27
5	12	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.41
6	30	G58LW	5/8" HDG LOCKWASHER		0.03	0.78
7	30	A58NUT	5/8" HDG A325 HEX NUT		0.13	3.90
8	3	P3150	3-1/2" X 150" SCH 40 GALVANIZED PIPE	150.000 in	94.80	284.40
9	36	X-UB1306	1/2" X 3-5/8" X 6" X 3" U-BOLT (HDG.)		0.26	9.25
10	120	G12FW	1/2" HDG USS FLATWASHER		0.03	4.09
11	120	G12LW	1/2" HDG LOCKWASHER		0.01	1.67
12	120	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	8.60
13	12	X-SP219	SMALL SUPPORT CROSS PLATE	8.250 in	8.61	103.33
14	24	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.26	6.17
15	12	B	ANTENNA MOUNTING PIPE	C	D	E

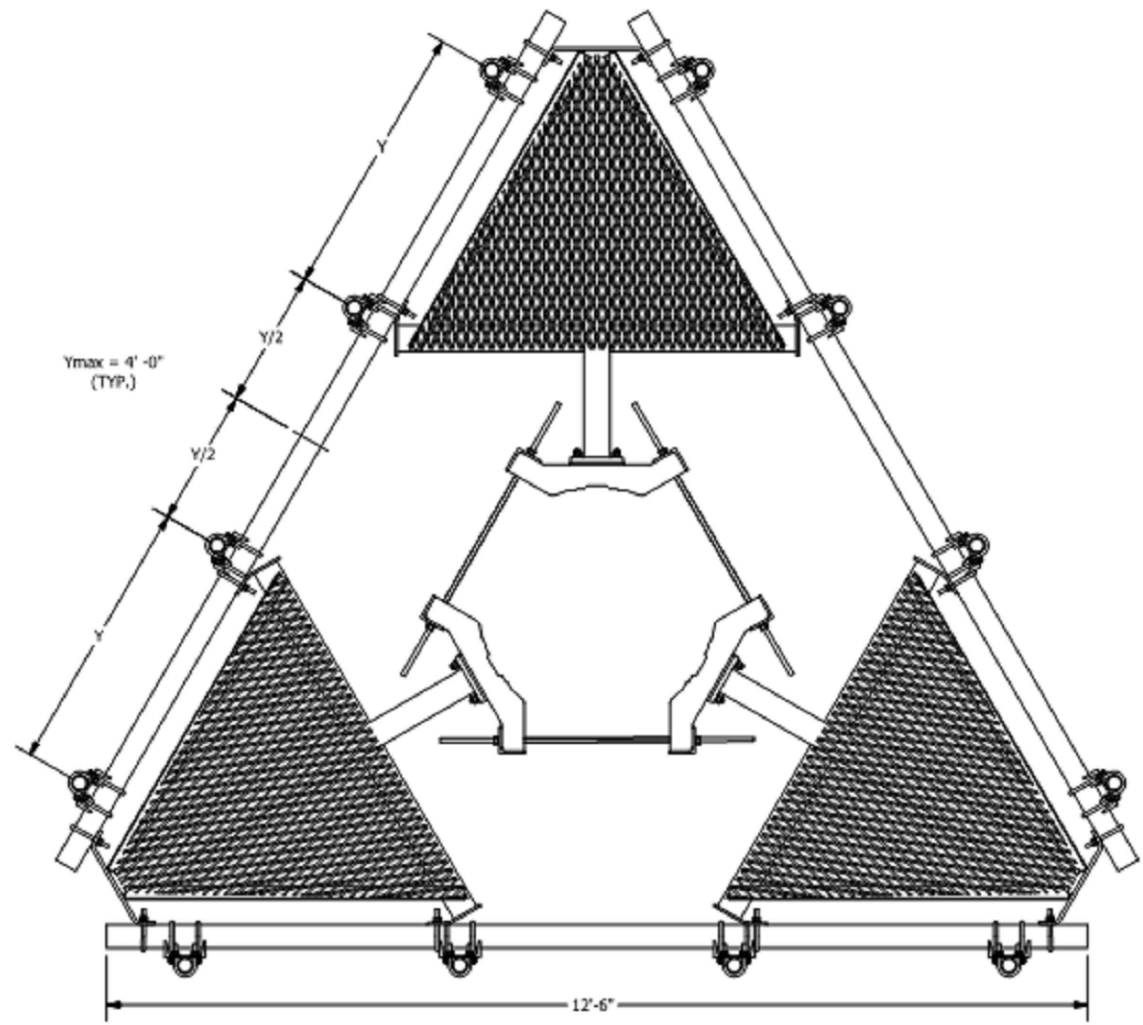


2-3/8" O.D. VERTICAL MOUNTING PIPES					
ASSEMBLY NO. "A"	PART NO. "B"	LENGTH, "C"	UNIT WEIGHT, "D"	NET WEIGHT, "E"	TOTAL WEIGHT
RMQP-463	P263	63"	20.18	242.16	1591.11
RMQP-472	P272	72"	23.07	276.84	1625.79
RMQP-484	P284	84"	26.91	322.92	1671.87
RMQP-496	P296	96"	30.76	369.12	1718.07
RMQP-4126	P2126	126"	40.75	489.00	1837.95

TOLERANCE NOTE 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 ($\pm 0.060"$)				DESCRIPTION LOW PROFILE CO-LOCATION PLATFORM FOR 12 ANTENNAS WITH 12' 6" FACE WIDTH FOR 12" - 38" DIAMETER POLES		Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX Engineering Support Team: 1-888-753-7446	
				DRAWN BY CEK 1/20/2012	CPD NO. semb	DRAWING USAGE CUSTOMER	PART NO. SEE ASSEMBLY NO. "A"
REVISION HISTORY				PROPRIETARY NOTE THE DATA AND TECHNIQUE 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.		1 OF 2	

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	ADDED 10' 6" ANTENNA MOUNTING PIPES		CEK	7/9/2015

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REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	ADDED 10" 6" ANTENNA MOUNTING PIPES		CEK	7/9/2015

TOLERANCE NOTE
 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 TECHNIQUE 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 LOW PROFILE CO-LOCATION PLATFORM FOR 12 ANTENNAS WITH 12' 6" FACE WIDTH FOR 12" - 38" DIAMETER POLES	
DRAWN BY CEK 1/20/2012	CPD NO. semb
ENG. APPROVAL	CHECKED BY BMC 7/9/2015
DRAWING USAGE CUSTOMER	PART NO. SEE ASSEMBLY NO. "A"
	DWG. NO. RMQP-4XX

SITE PRO 1
A valmont COMPANY

Locations:
 New York, NY
 Atlanta, GA
 Los Angeles, CA
 Plymouth, IN
 Salem, OR
 Dallas, TX

Engineering Support Team:
 1-888-753-7446

PAGE 2 OF 2

1 MOUNT ANALYSIS

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SUPPLEMENTAL

SHEET NUMBER: R-604	REVISION: -
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