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

November 16, 2021

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

RE: **EM-VER-028-210902** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 812 (a/k/a 856) Middletown Road, Colchester, Connecticut.

Dear Mr. Coleman:

The Connecticut Siting Council (Council) is in receipt of your correspondence of November 9, 2021, submitted in response to the Council's October 18, 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 Bachman
Executive Director

MAB/CMW/laf

From: John Coleman <jcoleman@clinellc.com>
Sent: Tuesday, November 9, 2021 12:26 PM
To: CSC-DL Siting Council <Siting.Council@ct.gov>
Cc: Sharon Bateman <sbateman@clinellc.com>
Subject: EM-VER-028-210902 / VZW Exempt Modification filing / Colchester South CT (411179/13701327) / Colchester South / 469142 / Correction Filing

CDC – DL Siting Council,

Please find attached the electronic copy in response to the Incomplete Memo with the original filing for Verizon Wireless' Exempt Modification at its 812 (a/k/a 856) Middletown Road, Colchester, CT monopole tower facility Colchester South in Colchester.

Attached

- EM-VER-028-210902
- Corrections filing with requested documents

Should you need any further information concerning this request, please reach out to me at any time. I appreciate your consideration.

John Coleman

John Coleman | Project Manager
750 W Center St, Suite 301 | West Bridgewater, MA 02379
Mobile: 240.615.7389
jcoleman@clinellc.com | www.centerlinecommunications.com

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 9, 2021

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

RE: EM-VER-028-210902 – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 812 (a/k/a 856) Middletown Road, Colchester, CT

Dear Ms. Bachman,

In response to the Council's Incomplete Letter to modify an existing telecommunications facility dated October 18, 2021 for the afore mentioned site, please see the following attachments as outlined below per Councils request:

1. Original Facility Approval from the CSC Website.

2. Proof of mailing and delivery confirmation to Chief Elected Official: Mary Bylone.
   a. UPS Label: 1Z9Y45030317288673
   b. Delivery Confirmation.

3. Proof of mailing and delivery confirmation to Zoning Official: Matthew Bordeaux.
   a. UPS Label: Same Address as Chief Official.
   b. Delivery Confirmation.

4. Proof of mailing and delivery confirmation to Property Owner: Lorraine M. Leonette.
   a. USPS Label: 1Z9Y45030300164695
   b. Delivery Confirmation.

5. The Original Filing sent to the CSC on 8/31/2021 – Notice of Exempt Modification // Site: COLCHESTER SOUTH (ATC: 411179) 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

Connecticut Siting Council(/CSC)

Decisions (/CSC/Decisions/Decisions)

Meetings and Minutes (/CSC/Common-Elements/v4-template/Council-Activity)

Pending Matters (/CSC/1_Applications-and-Other-Pending-Matters/Pending-Matters)

About Us (/CSC/Common-Elements/Common-Elements/Connecticut-Siting-Council---Description)

Contact Us (/CSC/Common-Elements/Common-Elements/Contact-Us)

Search Connecticut Siting Council

DOCKET NO. 218 - Cellco Partnership d/b/a Verizon Wireless application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a cellular telecommunications facility on 744 Middletown Road, Lot 65A Westchester Road, or Lot 13 Middletown Road, Colchester, Connecticut.	} } } }	Connecticut Siting Council May 7, 2002

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility at proposed site number three in Colchester, Connecticut, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Crown Atlantic Company LLC and Cellco Partnership d/b/a Verizon Wireless for the construction, maintenance and operation of a cellular telecommunications facility at proposed site number three located at Lot 13 Middletown Road,

Colchester, Connecticut. We deny certification of the proposed number one site located at 744 Middletown Road and the proposed number two site located at Lot 65A Westchester Road, Colchester, Connecticut.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of Cellco and other entities, both public and private, but such tower shall not exceed a height of 180 feet above ground level.

2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be submitted to and approved by the Council prior to the commencement of facility construction and shall include: a final site plan(s) for site development to include the location and specifications for the tower, tower foundation, antennas, equipment building, security fence, access road, utility line, and landscaping plan. The D&M Plan shall also include construction plans to be submitted prior to construction for site clearing, water drainage, and erosion and sedimentation control consistent with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

3. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case modeling of electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall provide a recalculated report of electromagnetic radio frequency power density if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.

4. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.

5. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.

6. If the facility does not initially provide, or permanently ceases to provide wireless services following completion of construction, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.

7. Any antenna that becomes obsolete and ceases to function shall be removed within 60 days after such antennas become obsolete and ceases to function.

8. Unless otherwise approved by the Council, this Decision and Order shall be void if the facility authorized herein is not operational within one year of the effective date of this Decision and Order or within one year after all appeals to this Decision and Order have been resolved.

Pursuant to General Statutes § 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in The Hartford Courant, and the Middletown Press.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of Connecticut State Agencies.

The parties and intervenors to this proceeding are:

Applicant	**Its Representative**
Crown Atlantic Company LLC and Cellco Partnership d/b/a Verizon Wireless	Robert Stanford Crown Atlantic Company LLC 703 Hebron Avenue Glastonbury, CT 06033
Kenneth C. Baldwin, Esq. Joey Lee Miranda, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103-3597	

UPS CampusShip: View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.

2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. **GETTING YOUR SHIPMENT TO UPS**
   Customers with a Daily Pickup
   Your driver will pickup your shipment(s) as usual.

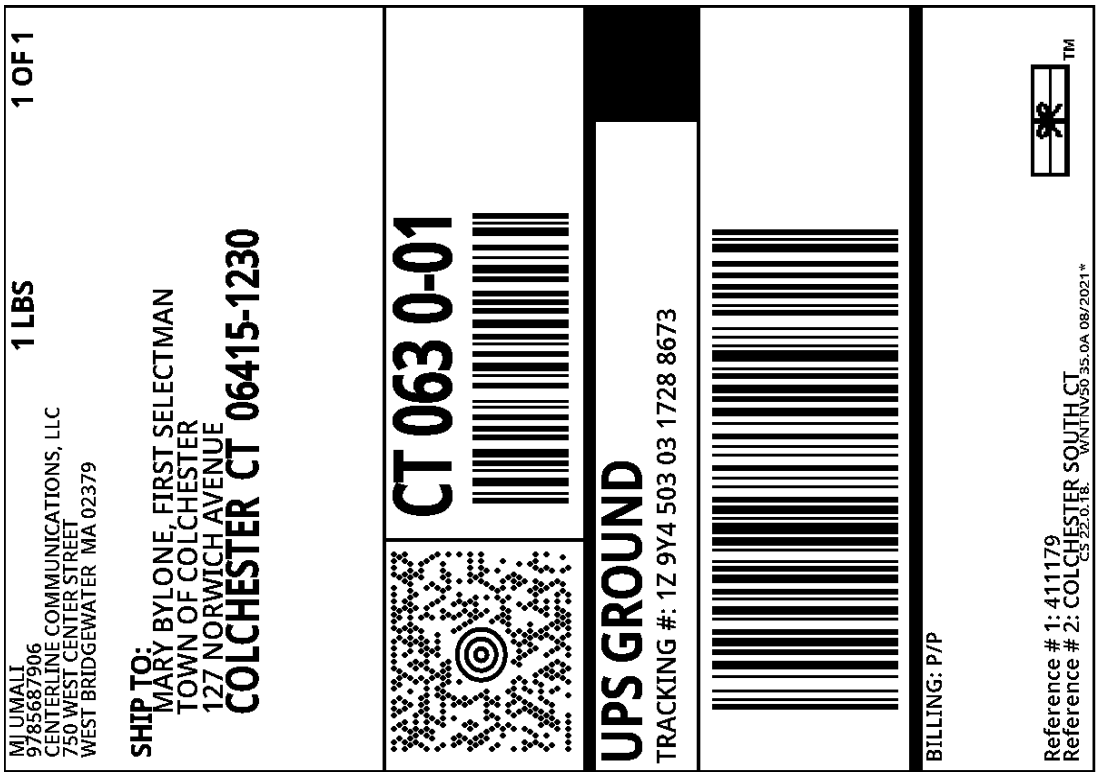
   Customers without a Daily Pickup
   Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.
   Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.
   Hand the package to any UPS driver in your area.

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

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

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

FOLD HERE



Proof of Delivery

Dear Customer,

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

Tracking Number
1Z9Y45030317288673

Weight
1.00 LBS

Service

UPS Ground

Shipped / Billed On
08/31/2021

Delivered On

10/14/2021 1:04 P.M.

Delivered To
COLCHESTER, CT, US

Received By

FURMAN

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: 10/22/2021 8:11 A.M. EST

UPS CampusShip: View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.

2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. **GETTING YOUR SHIPMENT TO UPS**
   Customers with a Daily Pickup
   Your driver will pickup your shipment(s) as usual.

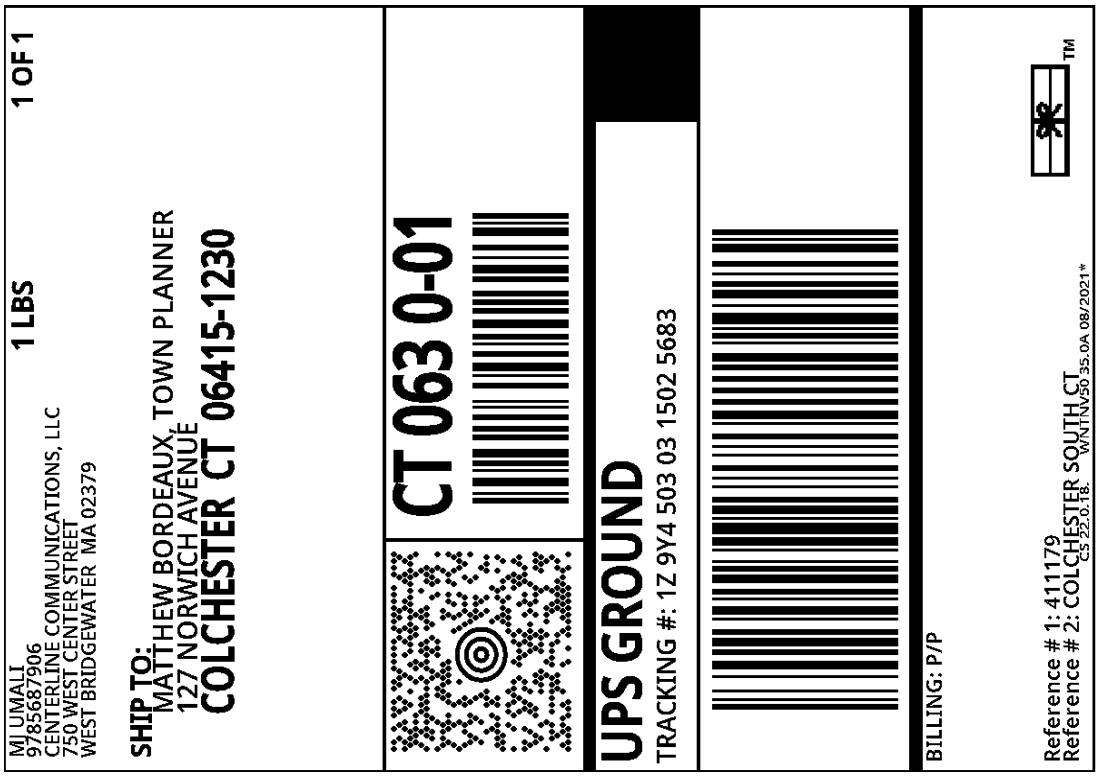
   Customers without a Daily Pickup
   Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.
   Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.
   Hand the package to any UPS driver in your area.

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

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

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

FOLD HERE



Proof of Delivery

Dear Customer,

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

Tracking Number
1Z9Y45030315025683

Weight
1.00 LBS

Service

UPS Ground

Shipped / Billed On
08/31/2021

Delivered On

10/14/2021 1:03 P.M.

Delivered To
COLCHESTER, CT, US

Received By

GEATO

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: 10/22/2021 8:19 A.M. EST

UPS CampusShip: View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.

2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. **GETTING YOUR SHIPMENT TO UPS**
   Customers with a Daily Pickup
   Your driver will pickup your shipment(s) as usual.

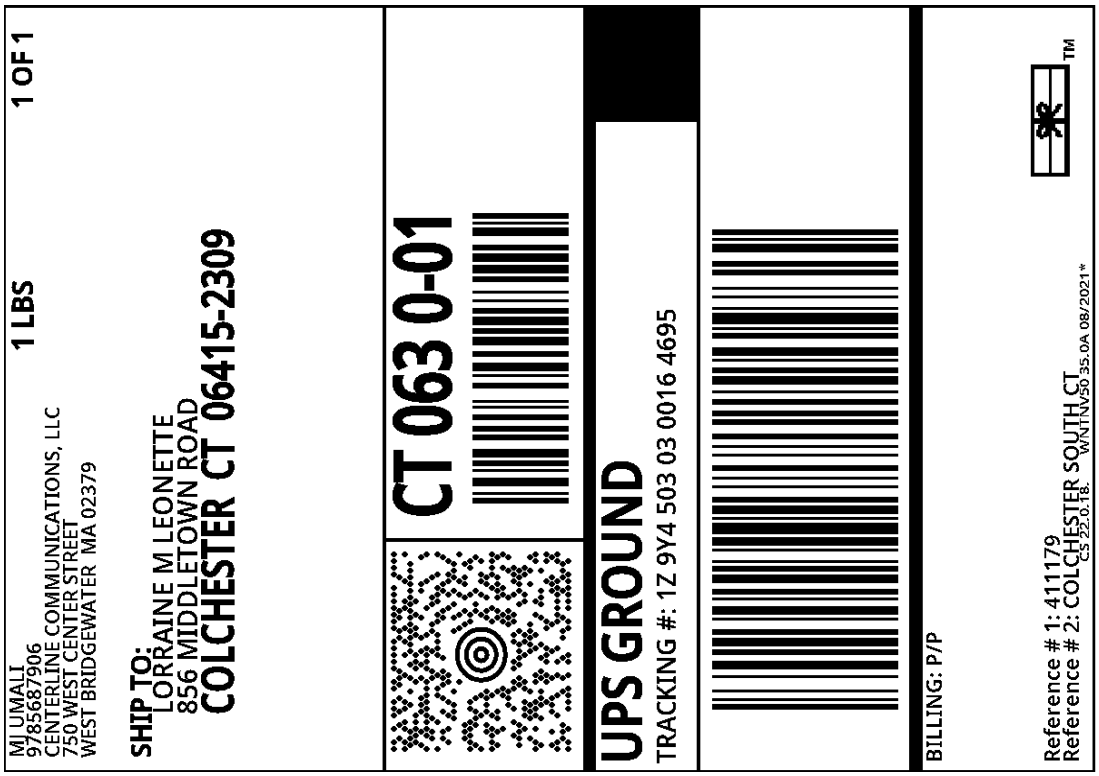
   Customers without a Daily Pickup
   Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.
   Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.
   Hand the package to any UPS driver in your area.

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

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

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

FOLD HERE



Proof of Delivery

Dear Customer,

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

Tracking Number
1Z9Y45030300164695

Weight
1.00 LBS

Service

UPS Ground

Shipped / Billed On
08/31/2021

Delivered On

11/02/2021 2:29 P.M.

Delivered To
COLCHESTER, CT, US

Received By

DRIVER RELEASE

Left At
Front porch

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: 11/08/2021 4:09 P.M. EST

Centerline Communications LLC

028447

CONNECTICUT SITING COUNCIL

Check: 28447
Date: 8/25/2021
Vendor: 0

Invoice	P.O. Num.	Invoice Amt	Prior Balance	Retention	Discount	Amt. Paid
531682-004 13701327ATC - VERIZON-		625.00	625.00	0.00	0.00	625.00
		625.00	625.00	0.00	0.00	625.00

028447

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

28447

DATE 8/25/2021

AMOUNT **********625.00

PAY TO THE ORDER OF CONNECTICUT SITING COUNCIL

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

VOID AFTER 90 DAYS

Security features. Details on back

AUTHORIZED SIGNATURE

⑈028447⑈

2MJ 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 31, 2021

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

RE: Notice of Exempt Modification // Site: COLCHESTER SOUTH (ATC: 411179)
856 (812) Middletown Road, Colchester, CT 06415
N 415516 // W 72.4257

Dear Ms. Bachman,

Cellco Partnership d/b/a Verizon Wireless currently maintains 15 antennas at the 180-ft level on the existing 179-foot monopole tower, located at 856 (812) Middletown Road, Colchester, CT. The tower is owned by American Tower. The property is also owned by Lorraine M Leonette. 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 3 Remote Radio Heads (RRHs) and replace with 6 new ones and remove (2) Hybrid 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 Mary Bylone, First Selectman of the Town of Colchester, its Town Planner, Matthew Bordeaux, the tower owner, American Tower, and the property owner, Lorraine M Leonette.

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 August 10, 2021, by Colliers Engineering & Design, a structural analysis dated July 23, 2021, by Tower Engineering Professionals, 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 15, 2021, and a structural mount analysis by Maser Consulting Connecticut, dated June 30, 2021, pursuant to certain conditions defined therein. Design and engineering is fully illustrated within final construction drawings, signed and stamped dated August 10, 2021.

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

Sincerely,

MJ Umali

_____

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

Attachments

cc: Mary Bylone, First Selectman of the Town of Colchester – Chief Elected Official
Matthew Bordeaux, Town Planner - as P&Z official
American Tower Corporation - as tower owner
Lorraine M Leonette - as ground owner

UPS CampusShip: View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.

2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. **GETTING YOUR SHIPMENT TO UPS**
   Customers with a Daily Pickup
   Your driver will pickup your shipment(s) as usual.

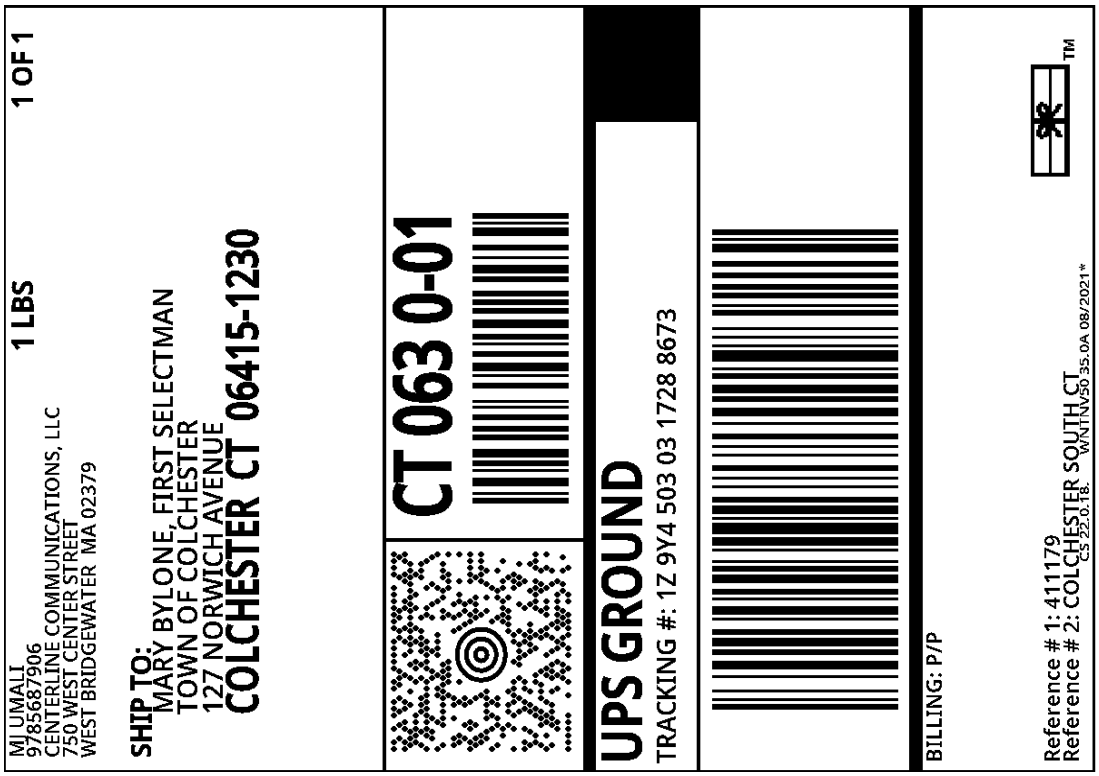
   Customers without a Daily Pickup
   Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.
   Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.
   Hand the package to any UPS driver in your area.

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

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

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

FOLD HERE



UPS CampusShip: View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.

2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. **GETTING YOUR SHIPMENT TO UPS**
   Customers with a Daily Pickup
   Your driver will pickup your shipment(s) as usual.

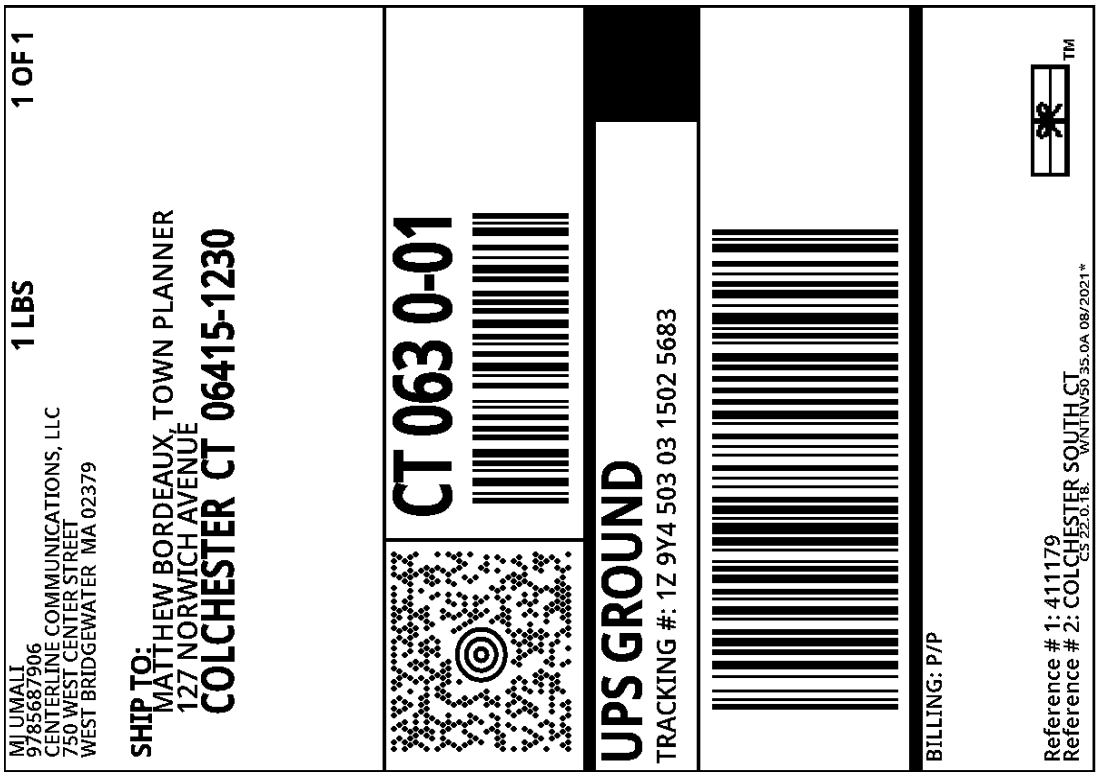
   Customers without a Daily Pickup
   Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.
   Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.
   Hand the package to any UPS driver in your area.

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

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

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

FOLD HERE



UPS CampusShip: View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.

2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. **GETTING YOUR SHIPMENT TO UPS**
   Customers with a Daily Pickup
   Your driver will pickup your shipment(s) as usual.

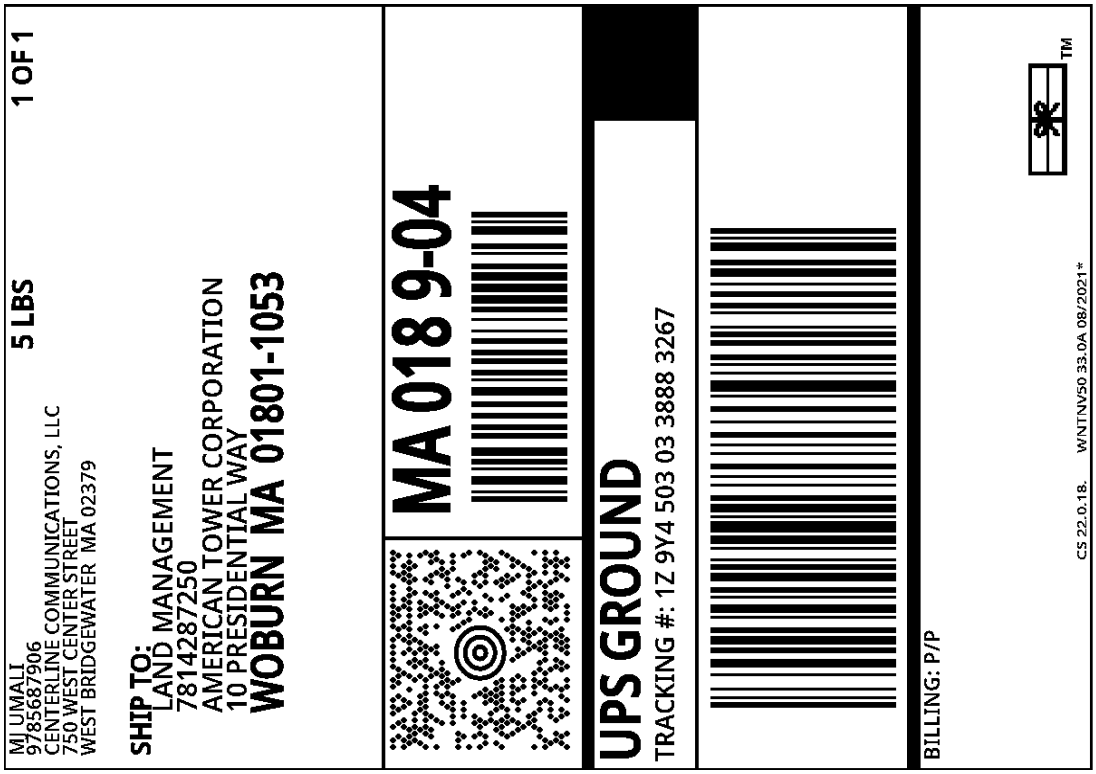
   Customers without a Daily Pickup
   Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.
   Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.
   Hand the package to any UPS driver in your area.

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

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

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

FOLD HERE



UPS CampusShip: View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.

2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. **GETTING YOUR SHIPMENT TO UPS**
   Customers with a Daily Pickup
   Your driver will pickup your shipment(s) as usual.

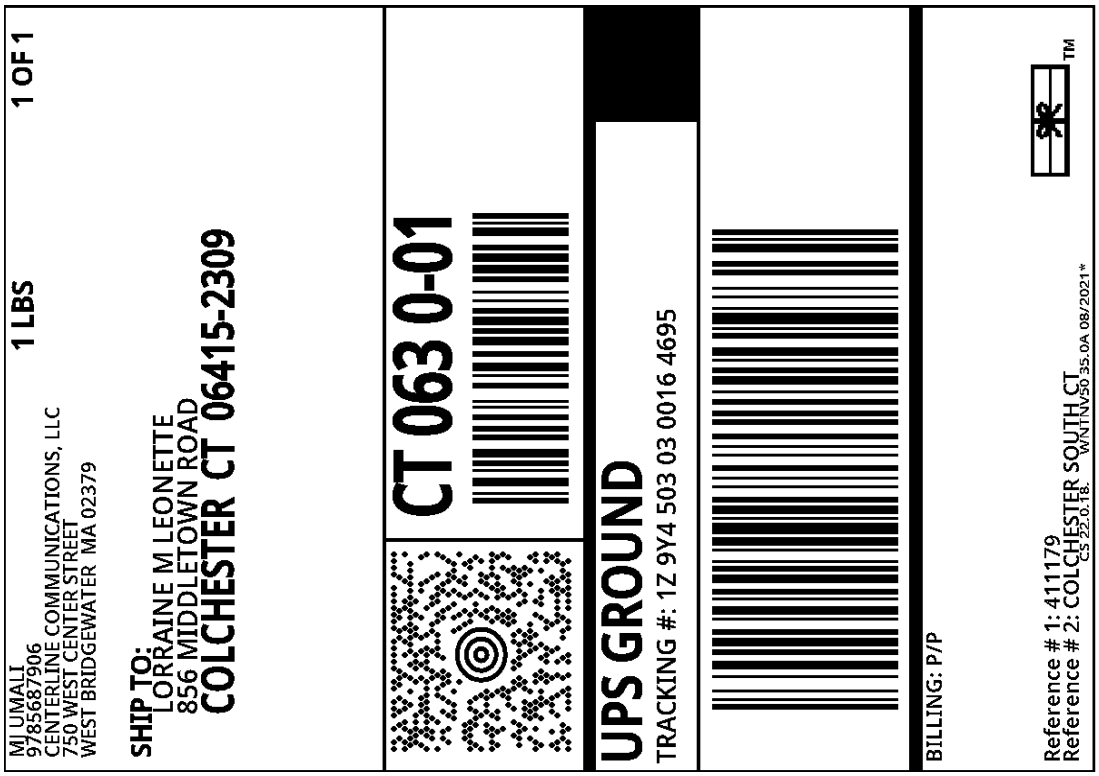
   Customers without a Daily Pickup
   Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.
   Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.
   Hand the package to any UPS driver in your area.

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

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

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

FOLD HERE



AMERICAN TOWER®
CORPORATION

This report was prepared for American Tower Corporation by

TOWER ENGINEERING PROFESSIONALS

Structural Analysis Report

Structure	:	**179 ft Monopole**
ATC Site Name	:	**COLCHESTER SOUTH CT,CT**
ATC Site Number	:	**411179**
Engineering Number	:	**13701327_C3_03**
Proposed Carrier	:	**VERIZON WIRELESS**
Carrier Site Name	:	**COLCHESTER SOUTH**
Carrier Site Number	:	**469142**
Site Location	:	**856 Middletown Road** **Colchester, CT 06415-2309** **41.5516, -72.4258**
County	:	**New London**
Date	:	**August 10, 2021**
Max Usage	:	**57%**
Result	:	**Pass**

Prepared By:

Reviewed By:

STATE OF CONNECTICUT
AARON THOMAS RUCKER
32608
LICENSED PROFESSIONAL ENGINEER

08/10/2021

COA : PEC.0001553

Table of Contents

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 179 ft Monopole to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower Drawings	EEI project# 11294, dated November 3, 2003
Foundation Drawing	EEI project# 11294, dated October 30, 2003
Geotechnical Report	CHA project# 11869.1003.1502, dated September 20, 2002
Mount Modification Drawings	Master Consulting Job# 21777720A, dated July 8, 2021

Analysis

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

Basic Wind Speed:	121 mph (3-second gust)
Basic Wind Speed w/ Ice:	50 mph (3-second gust) w/ 1.00" 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
Spectral Response:	Ss = 0.21, S_1 = 0.06
Site Class:	D - Stiff Soil - Default

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
180.0	6	Amphenol Antel LPA-80080-4CF-EDIN-0	Low Profile Platform	(2) 1 5/8" (1.63"-41.3mm) Fiber (18) 1 5/8" Coax	VERIZON WIRELESS
160.0	6	Powerwave Allgon LGP21901	Sector Frames	(1) 0.33" (8.7mm) Fiber (1) 0.39" (10mm) Fiber Trunk (8) 0.78" (19.7mm) 8 AWG 6 (12) 1 5/8" Coax (2) 2" conduit (1) 3" conduit (3) 3/8" (0.38"-9.5mm) RET Control Cable	AT&T MOBILITY
	1	Raycap DC6-48-60-0-8C-EV			
	1	Raycap DC6-48-60-18-8F(32.8 lbs)			
	3	Ericsson RRUS 8843 B2, B66A			
	3	Kathrein Scala Smart Bias Tee			
	3	Ericsson RRUS 4478 B14			
	3	Ericsson RRUS 4449 B5, B12			
	1	Raycap DC6-48-60-18-8C			
	3	Powerwave Allgon 7770.00			
	2	Kathrein Scala 80010964			
	4	Kathrein Scala 80010966			
155.9	6	Powerwave Allgon LGP21401			

Equipment to be Removed

Elev.[1] (ft)	Qty	Equipment	Mount Type	Lines	Carrier
180.0	2	RFS DB-T1-6Z-8AB-0Z	-	(2) 1 1/4" Hybriflex Cable	VERIZON WIRELESS
	6	Commscope HBXX-6517DS-A2M			
	3	Andrew LNX-6514DS-A1M			
	3	Alcatel-Lucent RRH2X60-1900A-4R			
	3	Alcatel-Lucent RRH2X60-AWS Band 4			

Proposed Equipment

Elev.[1] (ft)	Qty	Equipment	Mount Type	Lines	Carrier
180.0	3	Samsung B2/B66A RRH-BR049	Platform with Handrails	-	VERIZON WIRELESS
	3	Samsung B5/B13 RRH-BR04C			
	1	RFS DB-C1-12C-24AB-0Z			
	3	Samsung MT6407-77A			
	6	JMA Wireless MX06FRO660-03			

[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	51%	Pass
Shaft	49%	Pass
Base Plate	40%	Pass

Foundations

Reaction Component	Original Design Reactions	Factored Design Reactions*	Analysis Reactions	% of Design
Moment (Kips-Ft)	3806.8	5139.2	2877.4	56%
Shear (Kips)	30.4	41.0	23.3	57%
* The design reactions are factored by 1.35 per ANSI/TIA-222-H, Sec. 15.6.2				

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

Deflection, Twist and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
180.0	Samsung B2/B66A RRH-BR049	VERIZON WIRELESS	1.853	1.170
	Samsung B5/B13 RRH-BR04C			
	JMA Wireless MX06FRO660-03			
	Samsung MT6407-77A			
	RFS DB-C1-12C-24AB-0Z			

***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.

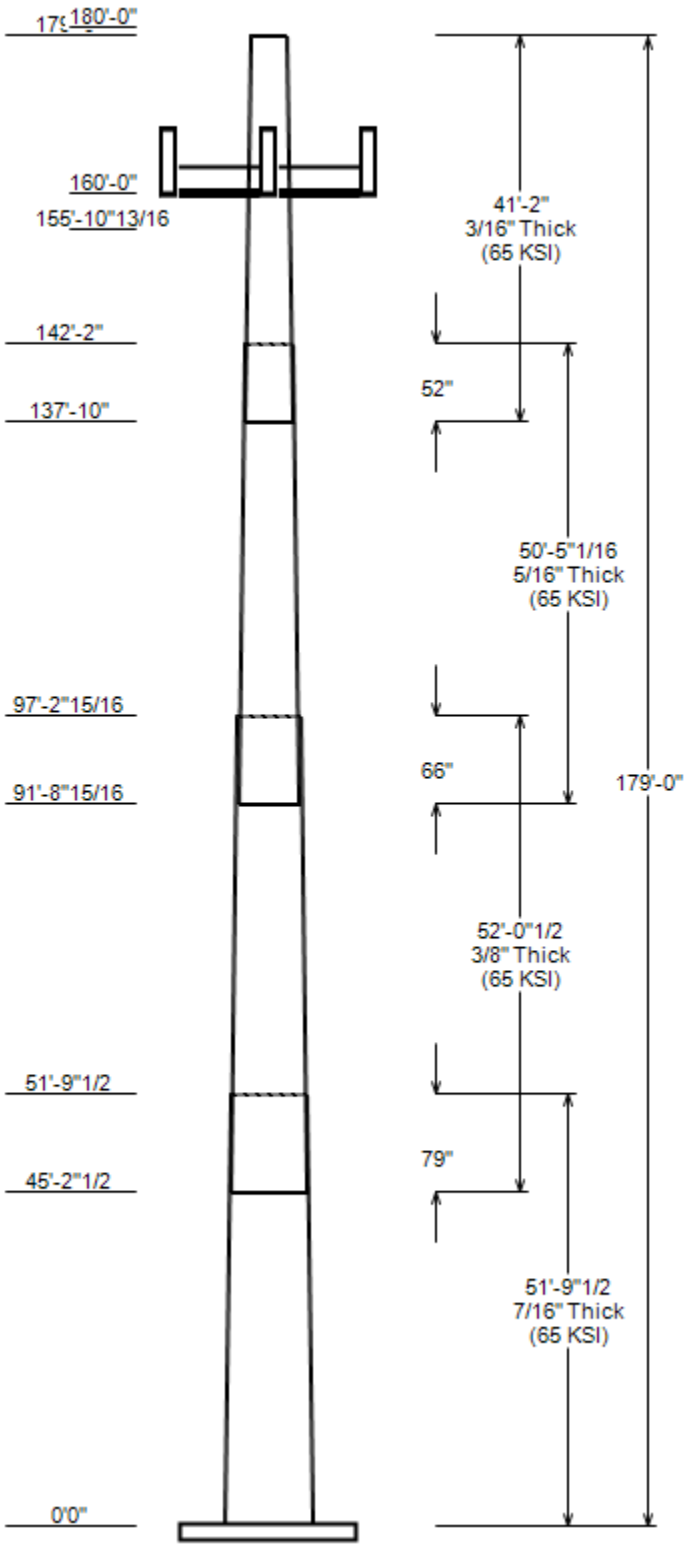
All assets of American Tower Corporation, its affiliates, and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with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

JOB INFORMATION

Asset :	411179, COLCHESTER SOUTH CT	Height :	179 ft
Client :	VERIZON WIRELESS	Base Width :	56.5
Code :	ANSI/TIA-222-H	Shape :	18 Sides



SITE PARAMETERS

Description :	179 ft EEI Monopole		
Base Elev (ft):	0.00	Structure Class:	II
Taper :	0.20300 (In/ft)	Exposure :	B
Topographic Category :	1	Topographic Feature:	
Topo Method :	Method 1		

SECTION PROPERTIES

Shaft Section	Length (ft)	Diameter (in) Across Flats Top	Diameter (in) Across Flats Bottom	Thick (in)	Joint Type	Overlap Length (in)	Shape	Steel Grade (ksi)
1	51.790	46.01	56.50	0.438		0.000	18 Sides	65
2	52.040	37.56	48.10	0.375	Slip Joint	79.000	18 Sides	65
3	50.420	29.08	39.30	0.312	Slip Joint	66.000	18 Sides	65
4	41.167	22.00	30.34	0.188	Slip Joint	52.000	18 Sides	65

DISCRETE APPURTENANCE

Attach Elev (ft)	Force Elev (ft)	Qty	Description
180.0	180.0	3	Samsung B2/B66A RRH-BR049
180.0	180.0	3	Samsung B5/B13 RRH-BR04C
180.0	180.0	1	RFS DB-C1-12C-24AB-0Z
180.0	180.0	3	Samsung MT6407-77A
180.0	181.8	6	Amphenol Antel LPA-80080-4CF-E
180.0	180.0	6	JMA Wireless MX06FRO660-03
180.0	180.0	1	Generic Flat Platform with Han
160.0	160.0	3	Kathrein Scala Smart Bias Tee
160.0	160.0	6	Powerwave Allgon LGP21901
160.0	160.6	1	Raycap DC6-48-60-0-8C-EV
160.0	161.4	1	Raycap DC6-48-60-18-8F(32.8 lb
160.0	161.9	3	Ericsson RRUS 8843 B2, B66A
160.0	161.9	3	Ericsson RRUS 4478 B14
160.0	161.9	3	Ericsson RRUS 4449 B5, B12
160.0	161.5	1	Raycap DC6-48-60-18-8C
160.0	160.1	3	Powerwave Allgon 7770.00
160.0	160.1	2	Kathrein Scala 80010964
160.0	160.0	3	Generic Round Sector Frame
160.0	160.1	4	Kathrein Scala 80010966
155.9	155.9	6	Powerwave Allgon LGP21401

LINEAR APPURTENANCE

Elev From (ft)	Elev To (ft)	Description	Exp To Wind
0.0	180.0	1 5/8" Coax	No
0.0	180.0	1 5/8" (1.63"-41.3mm) Fiber	No
0.0	160.0	3/8" (0.38"- 9.5mm) RET Control Cable	No
0.0	160.0	3" conduit	No
0.0	160.0	2" conduit	No
0.0	160.0	1 5/8" Coax	No
0.0	160.0	0.78" (19.7mm) 8 AWG 6	No
0.0	160.0	0.39" (10mm) Fiber Trunk	No
0.0	160.0	0.33" (8.7mm) Fiber	No

LOAD CASES

1.2D + 1.0W Normal	121 mph wind with no ice
0.9D + 1.0W Normal	121 mph wind with no ice
1.2D + 1.0Di + 1.0Wi Nor	50 mph wind with 1" radial ice
1.2D + 1.0Ev + 1.0Eh Nor	Seismic
0.9D - 1.0Ev + 1.0Eh Nor	Seismic (Reduced DL)
1.0D + 1.0W Service Norm	60 mph Wind with No Ice

JOB INFORMATION			
Asset :	411179, COLCHESTER SOUTH CT	Height :	179 ft
Client :	VERIZON WIRELESS	Base Width :	56.5
Code :	ANSI/TIA-222-H	Shape :	18 Sides

REACTIONS

Load Case	Moment (kip-ft)	Shear (Kip)	Axial (Kip)
1.2D + 1.0W Normal	2877.35	23.33	52.41
0.9D + 1.0W Normal	2839.85	23.32	39.30
1.2D + 1.0Di + 1.0Wi Normal	759.22	6.29	66.77
1.2D + 1.0Ev + 1.0Eh Normal	192.42	1.31	52.46
0.9D - 1.0Ev + 1.0Eh Normal	189.23	1.31	36.04
1.0D + 1.0W Service Normal	628.00	5.13	43.70

DISH DEFLECTIONS

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

ANALYSIS PARAMETERS

Location:	New London County,CT	Height:	179 ft
Type and Shape:	Taper, 18 Sides	Base Diameter:	56.50 in
Manufacturer:	EEI	Top Diameter:	22.00 in
K_d (non-service):	0.95	Taper:	0.2030 in/ft
K_e:	0.98	Rotation:	0.000°

ICE & WIND PARAMETERS

Exposure Category:	B	Design Wind Speed w/o Ice:	121 mph
Risk Category:	II	Design Wind Speed w/Ice:	50 mph
Topo Factor Procedure:	Method 1	Operational Wind Speed:	60 mph
Topographic Category:	1	Design Ice Thickness:	1.00 in
Crest Height:	0 ft	HMSL:	557.00 ft

SEISMIC PARAMETERS

Analysis Method:	Equivalent Lateral Force Method				
Site Class:	D - Stiff Soil			Period Based on Rayleigh Method (sec):	2.70
T_L (sec):	6	P:	1	$C_{s:}$	0.030
$S_{s:}$	0.210	$S_{1:}$	0.056	C_s Max:	0.030
$F_{a:}$	1.600	$F_{v:}$	2.400	C_s Min:	0.030
$S_{ds:}$	0.224	$S_{d1:}$	0.090		

LOAD CASES

1.2D + 1.0W Normal	121 mph wind with no ice
0.9D + 1.0W Normal	121 mph wind with no ice
1.2D + 1.0Di + 1.0Wi Normal	50 mph wind with 1" radial ice
1.2D + 1.0Ev + 1.0Eh Normal	Seismic
0.9D - 1.0Ev + 1.0Eh Normal	Seismic (Reduced DL)
1.0D + 1.0W Service Normal	60 mph Wind with No Ice

SHAFT SECTION PROPERTIES

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint len (in)	Weight (lb)	Bottom Dia (in)	Bottom Elev (ft)	Bottom Area (in^2)	Bottom Ix (in^4)	Bottom W/t Ratio	Bottom D/t Ratio	Top Dia (in)	Top Elev (in)	Top Area (in^2)	Top Ix (in^4)	Top W/t Ratio	Top D/t Ratio	Taper (in/ft)
1-18	51.79	0.4375	65		0.00	12,436	56.50	0.000	77.85	30,912.9	21.36	129.14	46.01	51.79	63.28	16,606.9	17.13	105.17	0.2025
2-18	52.04	0.3750	65	Slip	79.00	8,947	48.10	45.210	56.80	16,341.1	21.20	128.25	37.56	97.25	44.25	7,729.6	16.25	100.15	0.2025
3-18	50.42	0.3125	65	Slip	66.00	5,765	39.30	91.750	38.66	7,423.6	20.76	125.74	29.08	142.17	28.54	2,984.8	15.00	93.07	0.2025
4-18	41.17	0.1875	65	Slip	52.00	2,166	30.34	137.833	17.94	2,060.6	27.12	161.80	22.00	179.00	12.98	780.4	19.28	117.34	0.2025
				Shaft Weight		29,314													

DISCRETE APPURTENANCE PROPERTIES

Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	No Ice Weight (lb)	No Ice EPAa (sf)	No Ice Orientation Factor	Ice Weight (lb)	Ice EPAa (sf)	Ice Orientation Factor
180.00	Amphenol Antel LPA-80080-4CF-E	6	0.75	1.800	12.00	5.399	0.64	90.37	6.658	0.64
180.00	Samsung MT6407-77A	3	0.75	0.000	81.60	4.709	0.61	150.83	5.741	0.61
180.00	RFS DB-C1-12C-24AB-0Z	1	0.75	0.000	32.00	4.056	1.00	118.32	4.983	1.00
180.00	Samsung B5/B13 RRH-BR04C	3	0.75	0.000	70.30	1.875	0.50	109.15	2.488	0.50
180.00	Samsung B2/B66A RRH-BR049	3	0.75	0.000	84.40	1.875	0.50	127.73	2.488	0.50
180.00	JMA Wireless MX06FRO660-03	6	0.75	0.000	60.00	9.872	0.71	222.84	11.736	0.71
180.00	Generic Flat Platform with Han	1	1.00	0.000	2500.00	42.400	1.00	3706.55	56.644	1.00
160.00	Powerwave Allgon 7770.00	3	0.80	0.100	35.00	5.508	0.65	118.88	6.199	0.65
160.00	Kathrein Scala 80010964	2	0.80	0.100	83.80	9.997	0.62	221.16	11.582	0.62
160.00	Generic Round Sector Frame	3	0.75	0.000	375.00	14.400	0.75	683.75	25.515	0.75
160.00	Kathrein Scala 80010966	4	0.80	0.100	114.60	17.363	0.63	330.22	19.840	0.63
160.00	Raycap DC6-48-60-18-8C	1	0.80	1.500	16.00	2.030	0.67	55.09	2.540	0.67
160.00	Ericsson RRUS 4449 B5, B12	3	0.80	1.900	71.00	1.969	0.50	114.28	2.595	0.50
160.00	Ericsson RRUS 4478 B14	3	0.80	1.900	59.90	1.842	0.50	97.03	2.444	0.50
160.00	Ericsson RRUS 8843 B2, B66A	3	0.80	1.900	72.00	1.639	0.50	113.16	2.206	0.50
160.00	Raycap DC6-48-60-18-8F(32.8 lb	1	0.80	1.400	32.80	1.470	1.00	74.23	1.939	1.00
160.00	Raycap DC6-48-60-0-8C-EV	1	0.80	0.600	16.00	1.020	1.00	46.41	1.399	1.00
160.00	Powerwave Allgon LGP21901	6	0.80	0.000	5.50	0.200	0.50	10.65	0.414	0.50
160.00	Kathrein Scala Smart Bias Tee	3	0.80	0.000	3.30	0.080	0.50	5.51	0.220	0.50
155.90	Powerwave Allgon LGP21401	6	0.80	0.000	14.10	1.104	0.50	30.83	1.583	0.50
Totals	Num Loadings: 20	62			6,329.90			12,452.90		

LINEAR APPURTENANCE PROPERTIES

Load Case Azimuth (deg) : _

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Flat	Max Coax/ Row	Dist Between Rows(in)	Dist Between Cols(in)	Azimuth (deg)	Dist From Face (in)	Exposed To Wind	Carrier
0.00	180.00	18	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	VERIZON WIREL
0.00	180.00	2	1 5/8" (1.63"-41.3mm)	1.63	1.61	N	0	0	0	0	0	N	VERIZON WIREL
0.00	160.00	12	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	160.00	8	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	160.00	3	3/8" (0.38"- 9.5mm) R	0.38	0.23	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	160.00	2	2" conduit	2.38	3.65	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	160.00	1	0.39" (10mm) Fiber Tr	0.39	0.06	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	160.00	1	0.33" (8.7mm) Fiber	0.33	0.05	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	160.00	1	3" conduit	3.5	7.58	N	0	0	0	0	0	N	AT&T MOBILITY

SEGMENT PROPERTIES

(Max Len: 5.ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in^3)	Z (in^3)	Weight (lb)
0.00		0.4375	56.500	77.847	30,912.90	21.36	129.14	76.3	1077.6	0.0	0.0
5.00		0.4375	55.487	76.441	29,268.00	20.95	126.83	76.8	1038.9	0.0	1,312.5
10.00		0.4375	54.475	75.035	27,682.50	20.54	124.51	77.2	1000.9	0.0	1,288.6
15.00		0.4375	53.462	73.629	26,155.40	20.14	122.20	77.7	963.6	0.0	1,264.7
20.00		0.4375	52.450	72.223	24,685.40	19.73	119.89	78.2	927.0	0.0	1,240.8
25.00		0.4375	51.437	70.817	23,271.60	19.32	117.57	78.7	891.1	0.0	1,216.8
30.00		0.4375	50.425	69.411	21,912.80	18.91	115.26	79.2	855.9	0.0	1,192.9
35.00		0.4375	49.412	68.005	20,608.00	18.50	112.94	79.6	821.5	0.0	1,169.0
40.00		0.4375	48.400	66.599	19,356.10	18.10	110.63	80.1	787.7	0.0	1,145.1
45.00		0.4375	47.387	65.193	18,155.90	17.69	108.31	80.6	754.6	0.0	1,121.1
45.21	Bot - Section 2	0.4375	47.345	65.135	18,107.30	17.67	108.22	80.6	753.3	0.0	45.8
50.00		0.4375	46.375	63.787	17,006.30	17.28	106.00	81.1	722.3	0.0	1,968.4
51.79	Top - Section 1	0.3750	46.762	55.210	15,009.40	20.58	124.70	77.2	632.2	0.0	724.6
55.00		0.3750	46.112	54.436	14,387.20	20.27	122.97	77.6	614.5	0.0	598.8
60.00		0.3750	45.099	53.231	13,452.70	19.80	120.27	78.1	587.5	0.0	915.9
65.00		0.3750	44.087	52.026	12,559.50	19.32	117.56	78.7	561.1	0.0	895.4
70.00		0.3750	43.074	50.821	11,706.80	18.84	114.86	79.2	535.3	0.0	874.9
75.00		0.3750	42.062	49.616	10,893.60	18.37	112.16	79.8	510.1	0.0	854.4
80.00		0.3750	41.049	48.411	10,118.90	17.89	109.46	80.4	485.5	0.0	833.9
85.00		0.3750	40.037	47.206	9,381.80	17.41	106.76	80.9	461.5	0.0	813.4
90.00		0.3750	39.024	46.000	8,681.50	16.94	104.06	81.5	438.2	0.0	792.9
91.75	Bot - Section 3	0.3750	38.670	45.579	8,445.30	16.77	103.12	81.7	430.1	0.0	272.2
95.00		0.3750	38.012	44.795	8,016.90	16.46	101.36	82	415.4	0.0	924.7
97.25	Top - Section 2	0.3125	38.182	37.560	6,805.30	20.13	122.18	77.7	351.1	0.0	629.3
100.00		0.3125	37.624	37.007	6,509.10	19.82	120.40	78.1	340.8	0.0	349.3
105.00		0.3125	36.611	36.003	5,993.40	19.25	117.16	78.8	322.4	0.0	621.1
110.00		0.3125	35.599	34.998	5,505.70	18.68	113.92	79.4	304.6	0.0	604.0
115.00		0.3125	34.586	33.994	5,045.30	18.10	110.68	80.1	287.3	0.0	586.9
120.00		0.3125	33.574	32.990	4,611.20	17.53	107.44	80.8	270.5	0.0	569.8
125.00		0.3125	32.561	31.986	4,202.70	16.96	104.20	81.5	254.2	0.0	552.7
130.00		0.3125	31.549	30.981	3,819.20	16.39	100.96	82.1	238.4	0.0	535.7
135.00		0.3125	30.536	29.977	3,459.70	15.82	97.72	82.6	223.2	0.0	518.6
137.83	Bot - Section 4	0.3125	29.962	29.408	3,266.40	15.50	95.88	82.6	214.7	0.0	286.3
140.00		0.3125	29.524	28.973	3,123.50	15.25	94.48	82.6	208.4	0.0	346.5
142.17	Top - Section 3	0.1875	29.460	17.420	1,885.90	26.29	157.12	70.5	126.1	0.0	341.4
145.00		0.1875	28.886	17.079	1,777.20	25.75	154.06	71.1	121.2	0.0	166.3
150.00		0.1875	27.874	16.476	1,595.60	24.80	148.66	72.2	112.7	0.0	285.4
155.00		0.1875	26.861	15.873	1,426.90	23.85	143.26	73.3	104.6	0.0	275.2
155.90		0.1875	26.679	15.765	1,397.80	23.68	142.29	73.6	103.2	0.0	48.4
160.00		0.1875	25.848	15.271	1,270.50	22.90	137.86	74.5	96.8	0.0	216.5
165.00		0.1875	24.836	14.668	1,125.90	21.95	132.46	75.6	89.3	0.0	254.7
170.00		0.1875	23.823	14.066	992.80	20.99	127.06	76.7	82.1	0.0	244.4
175.00		0.1875	22.811	13.463	870.60	20.04	121.66	77.8	75.2	0.0	234.2
179.00		0.1875	22.001	12.981	780.40	19.28	117.34	78.7	69.9	0.0	180.0
									Totals:		29,313.5

Load Case: 1.2D + 1.0W Normal 121 mph wind with no ice 26 Iterations
Gust Response Factor: 1.10
Dead load Factor: 1.20
Wind Load Factor: 1.00

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-52.41	-23.33	0.00	-2,877.4	0.00	2,877.35	5,344.11	1,366.21	6,918.10	6,164.89	0.00	0	0.477
5.00	-50.50	-22.99	0.00	-2,760.7	0.00	2,760.68	5,280.61	1,341.54	6,670.49	5,980.77	0.07	-0.13	0.471
10.00	-48.61	-22.64	0.00	-2,645.8	0.00	2,645.76	5,215.90	1,316.86	6,427.39	5,797.96	0.28	-0.26	0.466
15.00	-46.75	-22.29	0.00	-2,532.6	0.00	2,532.57	5,149.97	1,292.19	6,188.81	5,616.54	0.62	-0.39	0.460
20.00	-44.93	-21.95	0.00	-2,421.1	0.00	2,421.10	5,082.83	1,267.51	5,954.73	5,436.59	1.11	-0.53	0.454
25.00	-43.13	-21.61	0.00	-2,311.4	0.00	2,311.35	5,014.47	1,242.84	5,725.17	5,258.19	1.73	-0.67	0.448
30.00	-41.37	-21.26	0.00	-2,203.3	0.00	2,203.30	4,944.89	1,218.16	5,500.12	5,081.41	2.50	-0.8	0.442
35.00	-39.63	-20.91	0.00	-2,097.0	0.00	2,096.98	4,874.11	1,193.49	5,279.58	4,906.34	3.42	-0.94	0.436
40.00	-37.92	-20.54	0.00	-1,992.4	0.00	1,992.45	4,802.10	1,168.81	5,063.56	4,733.03	4.48	-1.08	0.429
45.00	-36.27	-20.32	0.00	-1,889.8	0.00	1,889.78	4,728.89	1,144.14	4,852.05	4,561.58	5.69	-1.23	0.422
45.21	-36.18	-20.14	0.00	-1,885.6	0.00	1,885.58	4,725.83	1,143.12	4,843.40	4,554.53	5.75	-1.23	0.422
50.00	-33.51	-19.84	0.00	-1,789.0	0.00	1,789.05	4,654.45	1,119.46	4,645.05	4,392.06	7.06	-1.37	0.415
51.79	-32.52	-19.63	0.00	-1,753.5	0.00	1,753.54	3,835.91	968.94	4,059.68	3,660.34	7.58	-1.42	0.488
55.00	-31.58	-19.30	0.00	-1,690.5	0.00	1,690.53	3,799.77	955.36	3,946.71	3,574.64	8.57	-1.52	0.482
60.00	-30.15	-18.89	0.00	-1,594.0	0.00	1,594.02	3,742.48	934.21	3,773.91	3,442.16	10.25	-1.68	0.472
65.00	-28.75	-18.48	0.00	-1,499.6	0.00	1,499.55	3,683.97	913.06	3,604.99	3,311.00	12.10	-1.84	0.461
70.00	-27.38	-18.06	0.00	-1,407.2	0.00	1,407.16	3,624.25	891.91	3,439.93	3,181.22	14.12	-2.01	0.450
75.00	-26.03	-17.63	0.00	-1,316.9	0.00	1,316.89	3,563.31	870.76	3,278.74	3,052.92	16.31	-2.17	0.439
80.00	-24.71	-17.20	0.00	-1,228.7	0.00	1,228.74	3,501.15	849.61	3,121.42	2,926.16	18.68	-2.34	0.427
85.00	-23.41	-16.77	0.00	-1,142.7	0.00	1,142.74	3,437.79	828.46	2,967.96	2,801.02	21.22	-2.51	0.415
90.00	-22.16	-16.46	0.00	-1,058.9	0.00	1,058.90	3,373.20	807.31	2,818.38	2,677.58	23.93	-2.67	0.402
91.75	-21.72	-16.24	0.00	-1,030.2	0.00	1,030.16	3,350.36	799.92	2,767.03	2,634.87	24.92	-2.73	0.398
95.00	-20.41	-15.97	0.00	-977.3	0.00	977.31	3,307.41	786.16	2,672.66	2,555.91	26.82	-2.84	0.389
97.25	-19.51	-15.73	0.00	-941.4	0.00	941.43	2,627.26	659.18	2,254.70	2,046.31	28.18	-2.92	0.468
100.00	-18.91	-15.41	0.00	-898.1	0.00	898.12	2,600.90	649.47	2,188.81	1,995.71	29.89	-3.01	0.458
105.00	-17.85	-14.98	0.00	-821.1	0.00	821.08	2,552.09	631.85	2,071.63	1,904.68	33.15	-3.2	0.439
110.00	-16.82	-14.54	0.00	-746.2	0.00	746.20	2,502.07	614.22	1,957.68	1,814.81	36.60	-3.39	0.418
115.00	-15.81	-14.11	0.00	-673.5	0.00	673.47	2,450.83	596.60	1,846.96	1,726.19	40.24	-3.57	0.397
120.00	-14.82	-13.68	0.00	-602.9	0.00	602.91	2,398.38	578.97	1,739.46	1,638.89	44.08	-3.75	0.375
125.00	-13.86	-13.26	0.00	-534.5	0.00	534.49	2,344.71	561.35	1,635.18	1,552.98	48.10	-3.93	0.351
130.00	-12.92	-12.83	0.00	-468.2	0.00	468.20	2,289.83	543.72	1,534.12	1,468.56	52.30	-4.1	0.325
135.00	-12.00	-12.49	0.00	-404.0	0.00	404.05	2,227.14	526.10	1,436.29	1,381.59	56.67	-4.26	0.298
137.83	-11.50	-12.27	0.00	-368.7	0.00	368.68	2,184.86	516.11	1,382.28	1,329.37	59.23	-4.35	0.283
140.00	-10.96	-12.07	0.00	-342.1	0.00	342.09	2,152.53	508.47	1,341.68	1,290.12	61.22	-4.42	0.271
142.17	-10.42	-11.86	0.00	-315.9	0.00	315.93	1,104.91	305.72	808.28	666.44	63.23	-4.48	0.485
145.00	-10.05	-11.56	0.00	-282.3	0.00	282.34	1,093.00	299.73	776.91	646.26	65.91	-4.56	0.448
150.00	-9.42	-11.18	0.00	-224.5	0.00	224.54	1,071.05	289.15	723.06	610.79	70.80	-4.76	0.378
155.00	-8.80	-10.93	0.00	-168.7	0.00	168.66	1,047.88	278.58	671.14	575.57	75.88	-4.94	0.303
155.90	-8.60	-10.63	0.00	-158.8	0.00	158.83	1,043.58	276.68	662.00	569.27	76.81	-4.97	0.289
160.00	-5.38	-6.21	0.00	-114.3	0.00	114.31	1,023.49	268.00	621.16	540.69	81.13	-5.08	0.217
165.00	-4.99	-5.84	0.00	-83.3	0.00	83.27	997.89	257.43	573.11	506.21	86.51	-5.19	0.170
170.00	-4.61	-5.49	0.00	-54.0	0.00	54.05	971.07	246.85	527.00	472.22	91.99	-5.28	0.120
175.00	-4.25	-5.18	0.00	-26.6	0.00	26.59	943.04	236.28	482.82	438.79	97.55	-5.34	0.066
179.00	0.00	-4.76	0.00	-5.9	0.00	5.89	919.74	227.82	448.86	412.50	102.03	-5.36	0.015

Load Case: 0.9D + 1.0W Normal — 121 mph wind with no ice — 26 Iterations
Gust Response Factor: 1.10
Dead load Factor: 0.90
Wind Load Factor: 1.00

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-39.30	-23.32	0.00	-2,839.8	0.00	2,839.85	5,344.11	1,366.21	6,918.10	6,164.89	0.00	0	0.468
5.00	-37.85	-22.94	0.00	-2,723.3	0.00	2,723.27	5,280.61	1,341.54	6,670.49	5,980.77	0.07	-0.13	0.463
10.00	-36.43	-22.57	0.00	-2,608.6	0.00	2,608.57	5,215.90	1,316.86	6,427.39	5,797.96	0.27	-0.26	0.457
15.00	-35.02	-22.20	0.00	-2,495.7	0.00	2,495.74	5,149.97	1,292.19	6,188.81	5,616.54	0.61	-0.39	0.451
20.00	-33.64	-21.83	0.00	-2,384.8	0.00	2,384.76	5,082.83	1,267.51	5,954.73	5,436.59	1.09	-0.52	0.446
25.00	-32.29	-21.46	0.00	-2,275.6	0.00	2,275.62	5,014.47	1,242.84	5,725.17	5,258.19	1.71	-0.66	0.440
30.00	-30.95	-21.10	0.00	-2,168.3	0.00	2,168.31	4,944.89	1,218.16	5,500.12	5,081.41	2.47	-0.79	0.433
35.00	-29.64	-20.72	0.00	-2,062.8	0.00	2,062.82	4,874.11	1,193.49	5,279.58	4,906.34	3.37	-0.93	0.427
40.00	-28.35	-20.33	0.00	-1,959.2	0.00	1,959.21	4,802.10	1,168.81	5,063.56	4,733.03	4.42	-1.07	0.420
45.00	-27.10	-20.11	0.00	-1,857.6	0.00	1,857.55	4,728.89	1,144.14	4,852.05	4,561.58	5.61	-1.21	0.413
45.21	-27.03	-19.92	0.00	-1,853.4	0.00	1,853.39	4,725.83	1,143.12	4,843.40	4,554.53	5.66	-1.21	0.413
50.00	-25.03	-19.62	0.00	-1,757.9	0.00	1,757.90	4,654.45	1,119.46	4,645.05	4,392.06	6.95	-1.35	0.406
51.79	-24.28	-19.41	0.00	-1,722.8	0.00	1,722.78	3,835.91	968.94	4,059.68	3,660.34	7.47	-1.4	0.477
55.00	-23.57	-19.07	0.00	-1,660.5	0.00	1,660.48	3,799.77	955.36	3,946.71	3,574.64	8.44	-1.5	0.471
60.00	-22.49	-18.65	0.00	-1,565.1	0.00	1,565.14	3,742.48	934.21	3,773.91	3,442.16	10.09	-1.65	0.461
65.00	-21.43	-18.22	0.00	-1,471.9	0.00	1,471.91	3,683.97	913.06	3,604.99	3,311.00	11.91	-1.82	0.451
70.00	-20.39	-17.79	0.00	-1,380.8	0.00	1,380.82	3,624.25	891.91	3,439.93	3,181.22	13.90	-1.98	0.440
75.00	-19.37	-17.35	0.00	-1,291.9	0.00	1,291.88	3,563.31	870.76	3,278.74	3,052.92	16.06	-2.14	0.429
80.00	-18.37	-16.92	0.00	-1,205.1	0.00	1,205.11	3,501.15	849.61	3,121.42	2,926.16	18.39	-2.3	0.417
85.00	-17.40	-16.48	0.00	-1,120.5	0.00	1,120.52	3,437.79	828.46	2,967.96	2,801.02	20.88	-2.47	0.405
90.00	-16.45	-16.17	0.00	-1,038.1	0.00	1,038.12	3,373.20	807.31	2,818.38	2,677.58	23.55	-2.63	0.393
91.75	-16.12	-15.96	0.00	-1,009.9	0.00	1,009.87	3,350.36	799.92	2,767.03	2,634.87	24.53	-2.69	0.388
95.00	-15.13	-15.69	0.00	-958.0	0.00	957.96	3,307.41	786.16	2,672.66	2,555.91	26.39	-2.8	0.380
97.25	-14.46	-15.46	0.00	-922.7	0.00	922.71	2,627.26	659.18	2,254.70	2,046.31	27.73	-2.87	0.457
100.00	-14.00	-15.13	0.00	-880.2	0.00	880.15	2,600.90	649.47	2,188.81	1,995.71	29.41	-2.96	0.447
105.00	-13.20	-14.69	0.00	-804.5	0.00	804.51	2,552.09	631.85	2,071.63	1,904.68	32.61	-3.15	0.428
110.00	-12.42	-14.26	0.00	-731.0	0.00	731.04	2,502.07	614.22	1,957.68	1,814.81	36.00	-3.33	0.408
115.00	-11.66	-13.83	0.00	-659.7	0.00	659.73	2,450.83	596.60	1,846.96	1,726.19	39.58	-3.51	0.387
120.00	-10.92	-13.41	0.00	-590.6	0.00	590.56	2,398.38	578.97	1,739.46	1,638.89	43.35	-3.68	0.365
125.00	-10.19	-12.99	0.00	-523.5	0.00	523.52	2,344.71	561.35	1,635.18	1,552.98	47.30	-3.86	0.342
130.00	-9.49	-12.57	0.00	-458.6	0.00	458.59	2,289.83	543.72	1,534.12	1,468.56	51.42	-4.02	0.317
135.00	-8.80	-12.23	0.00	-395.8	0.00	395.76	2,227.14	526.10	1,436.29	1,381.59	55.72	-4.18	0.291
137.83	-8.42	-12.02	0.00	-361.1	0.00	361.11	2,184.86	516.11	1,382.28	1,329.37	58.22	-4.27	0.276
140.00	-8.02	-11.83	0.00	-335.1	0.00	335.06	2,152.53	508.47	1,341.68	1,290.12	60.17	-4.34	0.264
142.17	-7.62	-11.62	0.00	-309.4	0.00	309.42	1,104.91	305.72	808.28	666.44	62.16	-4.4	0.473
145.00	-7.34	-11.33	0.00	-276.5	0.00	276.49	1,093.00	299.73	776.91	646.26	64.79	-4.48	0.436
150.00	-6.86	-10.95	0.00	-219.9	0.00	219.86	1,071.05	289.15	723.06	610.79	69.58	-4.68	0.368
155.00	-6.40	-10.71	0.00	-165.1	0.00	165.13	1,047.88	278.58	671.14	575.57	74.57	-4.85	0.294
155.90	-6.25	-10.41	0.00	-155.5	0.00	155.50	1,043.58	276.68	662.00	569.27	75.49	-4.88	0.281
160.00	-3.92	-6.07	0.00	-111.9	0.00	111.87	1,023.49	268.00	621.16	540.69	79.72	-4.99	0.211
165.00	-3.63	-5.71	0.00	-81.5	0.00	81.53	997.89	257.43	573.11	506.21	85.00	-5.1	0.165
170.00	-3.35	-5.37	0.00	-53.0	0.00	52.97	971.07	246.85	527.00	472.22	90.38	-5.18	0.116
175.00	-3.08	-5.06	0.00	-26.1	0.00	26.13	943.04	236.28	482.82	438.79	95.83	-5.24	0.063
179.00	0.00	-4.76	0.00	-5.9	0.00	5.89	919.74	227.82	448.86	412.50	100.23	-5.26	0.015

Load Case: 1.2D + 1.0Di + 1.0Wi Normal		50 mph wind with 1" radial ice			25 Iterations
Gust Response Factor:	1.10	Ice Dead Load Factor	1.00		
Dead load Factor:	1.20			Ice Importance Factor	1.00
Wind Load Factor:	1.00				

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-66.77	-6.29	0.00	-759.2	0.00	759.22	5,344.11	1,366.21	6,918.10	6,164.89	0.00	0	0.136
5.00	-64.63	-6.19	0.00	-727.8	0.00	727.78	5,280.61	1,341.54	6,670.49	5,980.77	0.02	-0.03	0.134
10.00	-62.49	-6.10	0.00	-696.8	0.00	696.80	5,215.90	1,316.86	6,427.39	5,797.96	0.07	-0.07	0.132
15.00	-60.37	-6.00	0.00	-666.3	0.00	666.31	5,149.97	1,292.19	6,188.81	5,616.54	0.16	-0.1	0.130
20.00	-58.28	-5.91	0.00	-636.3	0.00	636.28	5,082.83	1,267.51	5,954.73	5,436.59	0.29	-0.14	0.129
25.00	-56.21	-5.82	0.00	-606.7	0.00	606.73	5,014.47	1,242.84	5,725.17	5,258.19	0.46	-0.18	0.127
30.00	-54.17	-5.72	0.00	-577.7	0.00	577.66	4,944.89	1,218.16	5,500.12	5,081.41	0.66	-0.21	0.125
35.00	-52.16	-5.62	0.00	-549.1	0.00	549.06	4,874.11	1,193.49	5,279.58	4,906.34	0.90	-0.25	0.123
40.00	-50.18	-5.52	0.00	-521.0	0.00	520.96	4,802.10	1,168.81	5,063.56	4,733.03	1.18	-0.28	0.121
45.00	-48.23	-5.45	0.00	-493.4	0.00	493.39	4,728.89	1,144.14	4,852.05	4,561.58	1.50	-0.32	0.118
45.21	-48.15	-5.40	0.00	-492.3	0.00	492.26	4,725.83	1,143.12	4,843.40	4,554.53	1.51	-0.32	0.118
50.00	-45.21	-5.32	0.00	-466.4	0.00	466.36	4,654.45	1,119.46	4,645.05	4,392.06	1.86	-0.36	0.116
51.79	-44.12	-5.26	0.00	-456.8	0.00	456.84	3,835.91	968.94	4,059.68	3,660.34	1.99	-0.37	0.136
55.00	-43.02	-5.17	0.00	-440.0	0.00	439.95	3,799.77	955.36	3,946.71	3,574.64	2.25	-0.4	0.134
60.00	-41.32	-5.05	0.00	-414.1	0.00	414.11	3,742.48	934.21	3,773.91	3,442.16	2.69	-0.44	0.131
65.00	-39.65	-4.93	0.00	-388.8	0.00	388.85	3,683.97	913.06	3,604.99	3,311.00	3.18	-0.48	0.128
70.00	-38.01	-4.81	0.00	-364.2	0.00	364.18	3,624.25	891.91	3,439.93	3,181.22	3.71	-0.53	0.125
75.00	-36.40	-4.69	0.00	-340.1	0.00	340.11	3,563.31	870.76	3,278.74	3,052.92	4.28	-0.57	0.122
80.00	-34.82	-4.57	0.00	-316.6	0.00	316.65	3,501.15	849.61	3,121.42	2,926.16	4.90	-0.61	0.118
85.00	-33.28	-4.44	0.00	-293.8	0.00	293.81	3,437.79	828.46	2,967.96	2,801.02	5.56	-0.65	0.115
90.00	-31.76	-4.35	0.00	-271.6	0.00	271.59	3,373.20	807.31	2,818.38	2,677.58	6.27	-0.7	0.111
91.75	-31.23	-4.29	0.00	-264.0	0.00	263.99	3,350.36	799.92	2,767.03	2,634.87	6.53	-0.71	0.110
95.00	-29.75	-4.21	0.00	-250.0	0.00	250.03	3,307.41	786.16	2,672.66	2,555.91	7.02	-0.74	0.107
97.25	-28.74	-4.15	0.00	-240.6	0.00	240.56	2,627.26	659.18	2,254.70	2,046.31	7.37	-0.76	0.129
100.00	-28.02	-4.05	0.00	-229.2	0.00	229.15	2,600.90	649.47	2,188.81	1,995.71	7.82	-0.78	0.126
105.00	-26.72	-3.93	0.00	-208.9	0.00	208.89	2,552.09	631.85	2,071.63	1,904.68	8.67	-0.83	0.120
110.00	-25.44	-3.80	0.00	-189.3	0.00	189.26	2,502.07	614.22	1,957.68	1,814.81	9.56	-0.88	0.114
115.00	-24.19	-3.67	0.00	-170.3	0.00	170.26	2,450.83	596.60	1,846.96	1,726.19	10.51	-0.93	0.109
120.00	-22.97	-3.55	0.00	-151.9	0.00	151.89	2,398.38	578.97	1,739.46	1,638.89	11.50	-0.97	0.102
125.00	-21.78	-3.42	0.00	-134.2	0.00	134.16	2,344.71	561.35	1,635.18	1,552.98	12.54	-1.01	0.096
130.00	-20.61	-3.30	0.00	-117.0	0.00	117.05	2,289.83	543.72	1,534.12	1,468.56	13.63	-1.06	0.089
135.00	-19.47	-3.19	0.00	-100.6	0.00	100.57	2,227.14	526.10	1,436.29	1,381.59	14.76	-1.1	0.082
137.83	-18.84	-3.13	0.00	-91.5	0.00	91.53	2,184.86	516.11	1,382.28	1,329.37	15.42	-1.12	0.078
140.00	-18.20	-3.07	0.00	-84.8	0.00	84.75	2,152.53	508.47	1,341.68	1,290.12	15.93	-1.14	0.074
142.17	-17.57	-3.01	0.00	-78.1	0.00	78.10	1,104.91	305.72	808.28	666.44	16.45	-1.15	0.133
145.00	-17.08	-2.92	0.00	-69.6	0.00	69.58	1,093.00	299.73	776.91	646.26	17.14	-1.17	0.123
150.00	-16.24	-2.80	0.00	-55.0	0.00	55.00	1,071.05	289.15	723.06	610.79	18.40	-1.22	0.105
155.00	-15.42	-2.73	0.00	-41.0	0.00	40.99	1,047.88	278.58	671.14	575.57	19.70	-1.27	0.086
155.90	-15.09	-2.64	0.00	-38.5	0.00	38.54	1,043.58	276.68	662.00	569.27	19.94	-1.27	0.082
160.00	-9.09	-1.54	0.00	-27.5	0.00	27.50	1,023.49	268.00	621.16	540.69	21.05	-1.3	0.060
165.00	-8.49	-1.42	0.00	-19.8	0.00	19.81	997.89	257.43	573.11	506.21	22.42	-1.33	0.048
170.00	-7.90	-1.31	0.00	-12.7	0.00	12.69	971.07	246.85	527.00	472.22	23.82	-1.35	0.035
175.00	-7.34	-1.21	0.00	-6.1	0.00	6.12	943.04	236.28	482.82	438.79	25.24	-1.36	0.022
179.00	0.00	-1.04	0.00	-1.3	0.00	1.27	919.74	227.82	448.86	412.50	26.39	-1.37	0.003

Load Case: 1.0D + 1.0W Service Normal 60 mph Wind with No Ice 24 Iterations
Gust Response Factor: 1.10
Dead load Factor: 1.00
Wind Load Factor: 1.00

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-43.70	-5.13	0.00	-628.0	0.00	628.00	5,344.11	1,366.21	6,918.10	6,164.89	0.00	0	0.110
5.00	-42.14	-5.05	0.00	-602.4	0.00	602.35	5,280.61	1,341.54	6,670.49	5,980.77	0.02	-0.03	0.109
10.00	-40.61	-4.97	0.00	-577.1	0.00	577.10	5,215.90	1,316.86	6,427.39	5,797.96	0.06	-0.06	0.107
15.00	-39.10	-4.89	0.00	-552.3	0.00	552.26	5,149.97	1,292.19	6,188.81	5,616.54	0.14	-0.09	0.106
20.00	-37.62	-4.81	0.00	-527.8	0.00	527.81	5,082.83	1,267.51	5,954.73	5,436.59	0.24	-0.12	0.105
25.00	-36.16	-4.73	0.00	-503.8	0.00	503.76	5,014.47	1,242.84	5,725.17	5,258.19	0.38	-0.15	0.103
30.00	-34.72	-4.65	0.00	-480.1	0.00	480.10	4,944.89	1,218.16	5,500.12	5,081.41	0.55	-0.18	0.102
35.00	-33.31	-4.57	0.00	-456.8	0.00	456.84	4,874.11	1,193.49	5,279.58	4,906.34	0.75	-0.21	0.100
40.00	-31.92	-4.49	0.00	-434.0	0.00	433.98	4,802.10	1,168.81	5,063.56	4,733.03	0.98	-0.24	0.098
45.00	-30.56	-4.44	0.00	-411.5	0.00	411.54	4,728.89	1,144.14	4,852.05	4,561.58	1.24	-0.27	0.097
45.21	-30.50	-4.40	0.00	-410.6	0.00	410.62	4,725.83	1,143.12	4,843.40	4,554.53	1.25	-0.27	0.097
50.00	-28.30	-4.33	0.00	-389.5	0.00	389.53	4,654.45	1,119.46	4,645.05	4,392.06	1.54	-0.3	0.095
51.79	-27.49	-4.29	0.00	-381.8	0.00	381.78	3,835.91	968.94	4,059.68	3,660.34	1.65	-0.31	0.111
55.00	-26.73	-4.21	0.00	-368.0	0.00	368.02	3,799.77	955.36	3,946.71	3,574.64	1.87	-0.33	0.110
60.00	-25.57	-4.12	0.00	-347.0	0.00	346.96	3,742.48	934.21	3,773.91	3,442.16	2.23	-0.37	0.108
65.00	-24.44	-4.03	0.00	-326.4	0.00	326.35	3,683.97	913.06	3,604.99	3,311.00	2.64	-0.4	0.105
70.00	-23.32	-3.93	0.00	-306.2	0.00	306.21	3,624.25	891.91	3,439.93	3,181.22	3.08	-0.44	0.103
75.00	-22.22	-3.84	0.00	-286.5	0.00	286.54	3,563.31	870.76	3,278.74	3,052.92	3.56	-0.47	0.100
80.00	-21.15	-3.74	0.00	-267.3	0.00	267.34	3,501.15	849.61	3,121.42	2,926.16	4.07	-0.51	0.097
85.00	-20.09	-3.65	0.00	-248.6	0.00	248.62	3,437.79	828.46	2,967.96	2,801.02	4.62	-0.55	0.095
90.00	-19.05	-3.58	0.00	-230.4	0.00	230.37	3,373.20	807.31	2,818.38	2,677.58	5.22	-0.58	0.092
91.75	-18.70	-3.53	0.00	-224.1	0.00	224.12	3,350.36	799.92	2,767.03	2,634.87	5.43	-0.6	0.091
95.00	-17.62	-3.48	0.00	-212.6	0.00	212.62	3,307.41	786.16	2,672.66	2,555.91	5.85	-0.62	0.089
97.25	-16.88	-3.42	0.00	-204.8	0.00	204.81	2,627.26	659.18	2,254.70	2,046.31	6.14	-0.64	0.107
100.00	-16.39	-3.35	0.00	-195.4	0.00	195.38	2,600.90	649.47	2,188.81	1,995.71	6.51	-0.66	0.104
105.00	-15.53	-3.26	0.00	-178.6	0.00	178.62	2,552.09	631.85	2,071.63	1,904.68	7.22	-0.7	0.100
110.00	-14.69	-3.16	0.00	-162.3	0.00	162.33	2,502.07	614.22	1,957.68	1,814.81	7.98	-0.74	0.095
115.00	-13.86	-3.07	0.00	-146.5	0.00	146.52	2,450.83	596.60	1,846.96	1,726.19	8.77	-0.78	0.091
120.00	-13.04	-2.98	0.00	-131.2	0.00	131.17	2,398.38	578.97	1,739.46	1,638.89	9.61	-0.82	0.086
125.00	-12.25	-2.88	0.00	-116.3	0.00	116.30	2,344.71	561.35	1,635.18	1,552.98	10.48	-0.85	0.080
130.00	-11.47	-2.79	0.00	-101.9	0.00	101.89	2,289.83	543.72	1,534.12	1,468.56	11.40	-0.89	0.074
135.00	-10.71	-2.72	0.00	-87.9	0.00	87.94	2,227.14	526.10	1,436.29	1,381.59	12.35	-0.93	0.068
137.83	-10.29	-2.67	0.00	-80.2	0.00	80.24	2,184.86	516.11	1,382.28	1,329.37	12.91	-0.95	0.065
140.00	-9.84	-2.63	0.00	-74.5	0.00	74.46	2,152.53	508.47	1,341.68	1,290.12	13.34	-0.96	0.062
142.17	-9.39	-2.58	0.00	-68.8	0.00	68.77	1,104.91	305.72	808.28	666.44	13.78	-0.98	0.112
145.00	-9.09	-2.52	0.00	-61.4	0.00	61.45	1,093.00	299.73	776.91	646.26	14.36	-0.99	0.103
150.00	-8.56	-2.43	0.00	-48.9	0.00	48.87	1,071.05	289.15	723.06	610.79	15.43	-1.04	0.088
155.00	-8.05	-2.38	0.00	-36.7	0.00	36.71	1,047.88	278.58	671.14	575.57	16.54	-1.08	0.072
155.90	-7.87	-2.31	0.00	-34.6	0.00	34.57	1,043.58	276.68	662.00	569.27	16.74	-1.08	0.068
160.00	-4.90	-1.35	0.00	-24.9	0.00	24.88	1,023.49	268.00	621.16	540.69	17.68	-1.11	0.051
165.00	-4.56	-1.27	0.00	-18.1	0.00	18.13	997.89	257.43	573.11	506.21	18.85	-1.13	0.040
170.00	-4.23	-1.19	0.00	-11.8	0.00	11.77	971.07	246.85	527.00	472.22	20.05	-1.15	0.029
175.00	-3.90	-1.13	0.00	-5.8	0.00	5.80	943.04	236.28	482.82	438.79	21.26	-1.16	0.017
179.00	0.00	-1.05	0.00	-1.3	0.00	1.30	919.74	227.82	448.86	412.50	22.23	-1.17	0.003

EQUIVALENT LATERAL FORCES METHOD ANALYSIS

(Based on ASCE7-16 Chapters 11, 12 and 15)

Spectral Response Acceleration for Short Period (S_S):	0.210
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.056
Long-Period Transition Period (T_L – Seconds):	6
Importance Factor (I_e):	1.000
Site Coefficient F_a:	1.600
Site Coefficient F_v:	2.400
Response Modification Coefficient (R):	1.500
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.224
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.090
Seismic Response Coefficient (C_s):	0.030
Upper Limit C_S:	0.030
Lower Limit C_S:	0.030
Period based on Rayleigh Method (sec):	2.700
Redundancy Factor (p):	1.000
Seismic Force Distribution Exponent (k):	2.000
Total Unfactored Dead Load:	43.700 k
Seismic Base Shear (E):	1.310 k

1.2D + 1.0Ev + 1.0Eh Normal **Seismic**

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
43	177	252	7,891	0.018	23	314
42	172.5	324	9,644	0.021	28	403
41	167.5	334	9,380	0.021	27	416
40	162.5	345	9,099	0.020	27	429
39	157.95	414	10,334	0.023	30	516
38	155.45	92	2,219	0.005	6	114
37	152.5	516	12,007	0.027	35	643
36	147.5	527	11,456	0.026	33	655
35	143.5833	303	6,245	0.014	18	377
34	141.0833	446	8,875	0.020	26	555
33	138.9167	451	8,703	0.019	25	561
32	136.4167	423	7,870	0.018	23	526
31	132.5	760	13,337	0.030	39	946
30	127.5	777	12,627	0.028	37	967
29	122.5	794	11,913	0.026	35	988
28	117.5	811	11,196	0.025	33	1,009
27	112.5	828	10,480	0.023	31	1,031
26	107.5	845	9,766	0.022	28	1,052
25	102.5	862	9,058	0.020	26	1,073
24	98.6233	482	4,689	0.010	14	600
23	96.1233	738	6,815	0.015	20	918
22	93.3733	1,082	9,429	0.021	27	1,346
21	90.8733	356	2,943	0.006	9	444
20	87.5	1,034	7,917	0.018	23	1,287
19	82.5	1,055	7,177	0.016	21	1,313
18	77.5	1,075	6,457	0.014	19	1,338
17	72.5	1,096	5,758	0.013	17	1,364
16	67.5	1,116	5,085	0.011	15	1,389
15	62.5	1,137	4,440	0.010	13	1,415
14	57.5	1,157	3,825	0.008	11	1,440
13	53.395	754	2,149	0.005	6	938
12	50.895	811	2,100	0.005	6	1,009
11	47.6033	2,200	4,984	0.011	15	2,738
10	45.1033	56	113	0.000	0	69

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
9	42.5	1,362	2,461	0.006	7	1,696
8	37.5	1,386	1,949	0.004	6	1,726
7	32.5	1,410	1,489	0.003	4	1,755
6	27.5	1,434	1,084	0.002	3	1,785
5	22.5	1,458	738	0.002	2	1,815
4	17.5	1,482	454	0.001	1	1,845
3	12.5	1,506	235	0.000	1	1,874
2	7.5	1,530	86	0.000	0	1,904
1	2.5	1,554	10	0.000	0	1,934
Samsung B2/B66A RRH-BR049	179	253	8,113	0.018	24	315
Samsung B5/B13 RRH-BR04C	179	211	6,757	0.015	20	263
RFS DB-C1-12C-24AB-0Z	179	32	1,025	0.002	3	40
Samsung MT6407-77A	179	245	7,844	0.017	23	305
Amphenol Antel LPA-80080-4CF-EDIN-0	179	72	2,307	0.005	7	90
JMA Wireless MX06FRO660-03	179	360	11,535	0.026	34	448
Generic Flat Platform with Handrails	179	2,500	80,102	0.178	233	3,112
Kathrein Scala Smart Bias Tee	160	10	253	0.001	1	12
Powerwave Allgon LGP21901	160	33	845	0.002	2	41
Raycap DC6-48-60-0-8C-EV	160	16	410	0.001	1	20
Raycap DC6-48-60-18-8F(32.8 lbs)	160	33	840	0.002	2	41
Ericsson RRUS 8843 B2, B66A	160	216	5,530	0.012	16	269
Ericsson RRUS 4478 B14	160	180	4,600	0.010	13	224
Ericsson RRUS 4449 B5, B12	160	213	5,453	0.012	16	265
Raycap DC6-48-60-18-8C	160	16	410	0.001	1	20
Powerwave Allgon 7770.00	160	105	2,688	0.006	8	131
Kathrein Scala 80010964	160	168	4,291	0.010	12	209
Generic Round Sector Frame	160	1,125	28,800	0.064	84	1,400
Kathrein Scala 80010966	160	458	11,735	0.026	34	571
Powerwave Allgon LGP21401	155.9	85	2,056	0.005	6	105
		43,700	450,082	1.000	1,311	54,398

0.9D - 1.0Ev + 1.0Eh Normal **Seismic (Reduced DL)**

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
43	177	252	7,891	0.018	23	215
42	172.5	324	9,644	0.021	28	277
41	167.5	334	9,380	0.021	27	286
40	162.5	345	9,099	0.020	27	295
39	157.95	414	10,334	0.023	30	354
38	155.45	92	2,219	0.005	6	79
37	152.5	516	12,007	0.027	35	442
36	147.5	527	11,456	0.026	33	450
35	143.5833	303	6,245	0.014	18	259
34	141.0833	446	8,875	0.020	26	381
33	138.9167	451	8,703	0.019	25	386
32	136.4167	423	7,870	0.018	23	362
31	132.5	760	13,337	0.030	39	650
30	127.5	777	12,627	0.028	37	664
29	122.5	794	11,913	0.026	35	679
28	117.5	811	11,196	0.025	33	694
27	112.5	828	10,480	0.023	31	708
26	107.5	845	9,766	0.022	28	723
25	102.5	862	9,058	0.020	26	737
24	98.6233	482	4,689	0.010	14	412
23	96.1233	738	6,815	0.015	20	631
22	93.3733	1,082	9,429	0.021	27	925
21	90.8733	356	2,943	0.006	9	305
20	87.5	1,034	7,917	0.018	23	884
19	82.5	1,055	7,177	0.016	21	902
18	77.5	1,075	6,457	0.014	19	919
17	72.5	1,096	5,758	0.013	17	937
16	67.5	1,116	5,085	0.011	15	954

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
15	62.5	1,137	4,440	0.010	13	972
14	57.5	1,157	3,825	0.008	11	989
13	53.395	754	2,149	0.005	6	644
12	50.895	811	2,100	0.005	6	693
11	47.6033	2,200	4,984	0.011	15	1,881
10	45.1033	56	113	0.000	0	48
9	42.5	1,362	2,461	0.006	7	1,165
8	37.5	1,386	1,949	0.004	6	1,185
7	32.5	1,410	1,489	0.003	4	1,206
6	27.5	1,434	1,084	0.002	3	1,226
5	22.5	1,458	738	0.002	2	1,247
4	17.5	1,482	454	0.001	1	1,267
3	12.5	1,506	235	0.000	1	1,288
2	7.5	1,530	86	0.000	0	1,308
1	2.5	1,554	10	0.000	0	1,329
Samsung B2/B66A RRH-BR049	179	253	8,113	0.018	24	217
Samsung B5/B13 RRH-BR04C	179	211	6,757	0.015	20	180
RFS DB-C1-12C-24AB-0Z	179	32	1,025	0.002	3	27
Samsung MT6407-77A	179	245	7,844	0.017	23	209
Amphenol Antel LPA-80080-4CF-EDIN-0	179	72	2,307	0.005	7	62
JMA Wireless MX06FRO660-03	179	360	11,535	0.026	34	308
Generic Flat Platform with Handrails	179	2,500	80,102	0.178	233	2,138
Kathrein Scala Smart Bias Tee	160	10	253	0.001	1	8
Powerwave Allgon LGP21901	160	33	845	0.002	2	28
Raycap DC6-48-60-0-8C-EV	160	16	410	0.001	1	14
Raycap DC6-48-60-18-8F(32.8 lbs)	160	33	840	0.002	2	28
Ericsson RRUS 8843 B2, B66A	160	216	5,530	0.012	16	185
Ericsson RRUS 4478 B14	160	180	4,600	0.010	13	154
Ericsson RRUS 4449 B5, B12	160	213	5,453	0.012	16	182
Raycap DC6-48-60-18-8C	160	16	410	0.001	1	14
Powerwave Allgon 7770.00	160	105	2,688	0.006	8	90
Kathrein Scala 80010964	160	168	4,291	0.010	12	143
Generic Round Sector Frame	160	1,125	28,800	0.064	84	962
Kathrein Scala 80010966	160	458	11,735	0.026	34	392
Powerwave Allgon LGP21401	155.9	85	2,056	0.005	6	72
		43,700	450,082	1.000	1,311	37,372

1.2D + 1.0Ev + 1.0Eh Normal **Seismic**

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-52.46	-1.31	0.00	-192.42	0.00	192.42	5,344.11	1,366.21	6,918	6,164.89	0.00	0.00	0.04
5.00	-50.56	-1.32	0.00	-185.85	0.00	185.85	5,280.61	1,341.54	6,670	5,980.77	0.00	-0.01	0.04
10.00	-48.69	-1.33	0.00	-179.24	0.00	179.24	5,215.90	1,316.86	6,427	5,797.96	0.02	-0.02	0.04
15.00	-46.84	-1.33	0.00	-172.60	0.00	172.60	5,149.97	1,292.19	6,189	5,616.54	0.04	-0.03	0.04
20.00	-45.03	-1.34	0.00	-165.94	0.00	165.94	5,082.83	1,267.51	5,955	5,436.59	0.07	-0.04	0.04
25.00	-43.24	-1.34	0.00	-159.25	0.00	159.25	5,014.47	1,242.84	5,725	5,258.19	0.12	-0.05	0.04
30.00	-41.48	-1.34	0.00	-152.55	0.00	152.55	4,944.89	1,218.16	5,500	5,081.41	0.17	-0.05	0.04
35.00	-39.76	-1.34	0.00	-145.84	0.00	145.84	4,874.11	1,193.49	5,280	4,906.34	0.23	-0.06	0.04
40.00	-38.06	-1.34	0.00	-139.14	0.00	139.14	4,802.10	1,168.81	5,064	4,733.03	0.30	-0.07	0.04
45.00	-37.99	-1.34	0.00	-132.45	0.00	132.45	4,728.89	1,144.14	4,852	4,561.58	0.39	-0.08	0.04
45.21	-35.26	-1.33	0.00	-132.18	0.00	132.18	4,725.83	1,143.12	4,843	4,554.53	0.39	-0.08	0.04
50.00	-34.25	-1.32	0.00	-125.82	0.00	125.82	4,654.45	1,119.46	4,645	4,392.06	0.48	-0.09	0.04
51.79	-33.31	-1.32	0.00	-123.46	0.00	123.46	3,835.91	968.94	4,060	3,660.34	0.52	-0.10	0.04
55.00	-31.87	-1.31	0.00	-119.23	0.00	119.23	3,799.77	955.36	3,947	3,574.64	0.59	-0.10	0.04
60.00	-30.45	-1.30	0.00	-112.69	0.00	112.69	3,742.48	934.21	3,774	3,442.16	0.70	-0.12	0.04
65.00	-29.06	-1.29	0.00	-106.20	0.00	106.20	3,683.97	913.06	3,605	3,311.00	0.83	-0.13	0.04
70.00	-27.70	-1.27	0.00	-99.76	0.00	99.76	3,624.25	891.91	3,440	3,181.22	0.97	-0.14	0.04
75.00	-26.36	-1.26	0.00	-93.40	0.00	93.40	3,563.31	870.76	3,279	3,052.92	1.12	-0.15	0.04
80.00	-25.05	-1.24	0.00	-87.12	0.00	87.12	3,501.15	849.61	3,121	2,926.16	1.29	-0.16	0.04
85.00	-23.76	-1.21	0.00	-80.94	0.00	80.94	3,437.79	828.46	2,968	2,801.02	1.46	-0.17	0.04
90.00	-23.32	-1.21	0.00	-74.86	0.00	74.86	3,373.20	807.31	2,818	2,677.58	1.65	-0.19	0.04
91.75	-21.97	-1.18	0.00	-72.75	0.00	72.75	3,350.36	799.92	2,767	2,634.87	1.72	-0.19	0.03
95.00	-21.05	-1.16	0.00	-68.92	0.00	68.92	3,307.41	786.16	2,673	2,555.91	1.86	-0.20	0.03

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
97.25	-20.45	-1.14	0.00	-66.32	0.00	66.32	2,627.26	659.18	2,255	2,046.31	1.95	-0.20	0.04
100.00	-19.38	-1.12	0.00	-63.17	0.00	63.17	2,600.90	649.47	2,189	1,995.71	2.07	-0.21	0.04
105.00	-18.33	-1.09	0.00	-57.58	0.00	57.58	2,552.09	631.85	2,072	1,904.68	2.30	-0.22	0.04
110.00	-17.30	-1.06	0.00	-52.14	0.00	52.14	2,502.07	614.22	1,958	1,814.81	2.54	-0.24	0.04
115.00	-16.29	-1.02	0.00	-46.85	0.00	46.85	2,450.83	596.60	1,847	1,726.19	2.79	-0.25	0.03
120.00	-15.30	-0.99	0.00	-41.72	0.00	41.72	2,398.38	578.97	1,739	1,638.89	3.06	-0.26	0.03
125.00	-14.33	-0.95	0.00	-36.78	0.00	36.78	2,344.71	561.35	1,635	1,552.98	3.34	-0.27	0.03
130.00	-13.39	-0.91	0.00	-32.02	0.00	32.02	2,289.83	543.72	1,534	1,468.56	3.64	-0.29	0.03
135.00	-12.86	-0.89	0.00	-27.47	0.00	27.47	2,227.14	526.10	1,436	1,381.59	3.94	-0.30	0.03
137.83	-12.30	-0.86	0.00	-24.96	0.00	24.96	2,184.86	516.11	1,382	1,329.37	4.12	-0.30	0.02
140.00	-11.74	-0.83	0.00	-23.10	0.00	23.10	2,152.53	508.47	1,342	1,290.12	4.26	-0.31	0.02
142.17	-11.37	-0.81	0.00	-21.30	0.00	21.30	1,104.91	305.72	808	666.44	4.40	-0.31	0.04
145.00	-10.71	-0.78	0.00	-19.00	0.00	19.00	1,093.00	299.73	777	646.26	4.59	-0.32	0.04
150.00	-10.07	-0.74	0.00	-15.11	0.00	15.11	1,071.05	289.15	723	610.79	4.93	-0.33	0.03
155.00	-9.95	-0.74	0.00	-11.41	0.00	11.41	1,047.88	278.58	671	575.57	5.28	-0.34	0.03
155.90	-9.33	-0.70	0.00	-10.75	0.00	10.75	1,043.58	276.68	662	569.27	5.34	-0.34	0.03
160.00	-5.70	-0.46	0.00	-7.89	0.00	7.89	1,023.49	268.00	621	540.69	5.64	-0.35	0.02
165.00	-5.29	-0.43	0.00	-5.61	0.00	5.61	997.89	257.43	573	506.21	6.02	-0.36	0.02
170.00	-4.88	-0.40	0.00	-3.47	0.00	3.47	971.07	246.85	527	472.22	6.40	-0.37	0.01
175.00	-4.57	-0.37	0.00	-1.49	0.00	1.49	943.04	236.28	483	438.79	6.78	-0.37	0.01
179.00	0.00	-0.34	0.00	0.00	0.00	0.00	919.74	227.82	449	412.50	7.09	-0.37	0.00

0.9D - 1.0Ev + 1.0Eh Normal **Seismic (Reduced DL)**

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-36.04	-1.31	0.00	-189.23	0.00	189.23	5,344.11	1,366.21	6,918	6,164.89	0.00	0.00	0.04
5.00	-34.74	-1.32	0.00	-182.67	0.00	182.67	5,280.61	1,341.54	6,670	5,980.77	0.00	-0.01	0.04
10.00	-33.45	-1.32	0.00	-176.08	0.00	176.08	5,215.90	1,316.86	6,427	5,797.96	0.02	-0.02	0.04
15.00	-32.18	-1.32	0.00	-169.47	0.00	169.47	5,149.97	1,292.19	6,189	5,616.54	0.04	-0.03	0.04
20.00	-30.93	-1.33	0.00	-162.85	0.00	162.85	5,082.83	1,267.51	5,955	5,436.59	0.07	-0.04	0.04
25.00	-29.71	-1.33	0.00	-156.21	0.00	156.21	5,014.47	1,242.84	5,725	5,258.19	0.12	-0.04	0.04
30.00	-28.50	-1.33	0.00	-149.57	0.00	149.57	4,944.89	1,218.16	5,500	5,081.41	0.17	-0.05	0.04
35.00	-27.31	-1.32	0.00	-142.94	0.00	142.94	4,874.11	1,193.49	5,280	4,906.34	0.23	-0.06	0.04
40.00	-26.15	-1.32	0.00	-136.31	0.00	136.31	4,802.10	1,168.81	5,064	4,733.03	0.30	-0.07	0.03
45.00	-26.10	-1.32	0.00	-129.71	0.00	129.71	4,728.89	1,144.14	4,852	4,561.58	0.38	-0.08	0.03
45.21	-24.22	-1.31	0.00	-129.43	0.00	129.43	4,725.83	1,143.12	4,843	4,554.53	0.38	-0.08	0.03
50.00	-23.53	-1.30	0.00	-123.17	0.00	123.17	4,654.45	1,119.46	4,645	4,392.06	0.47	-0.09	0.03
51.79	-22.88	-1.30	0.00	-120.83	0.00	120.83	3,835.91	968.94	4,060	3,660.34	0.51	-0.10	0.04
55.00	-21.89	-1.29	0.00	-116.67	0.00	116.67	3,799.77	955.36	3,947	3,574.64	0.58	-0.10	0.04
60.00	-20.92	-1.28	0.00	-110.23	0.00	110.23	3,742.48	934.21	3,774	3,442.16	0.69	-0.11	0.04
65.00	-19.97	-1.26	0.00	-103.84	0.00	103.84	3,683.97	913.06	3,605	3,311.00	0.81	-0.13	0.04
70.00	-19.03	-1.25	0.00	-97.51	0.00	97.51	3,624.25	891.91	3,440	3,181.22	0.95	-0.14	0.04
75.00	-18.11	-1.23	0.00	-91.27	0.00	91.27	3,563.31	870.76	3,279	3,052.92	1.10	-0.15	0.04
80.00	-17.21	-1.21	0.00	-85.11	0.00	85.11	3,501.15	849.61	3,121	2,926.16	1.26	-0.16	0.03
85.00	-16.32	-1.19	0.00	-79.04	0.00	79.04	3,437.79	828.46	2,968	2,801.02	1.44	-0.17	0.03
90.00	-16.02	-1.18	0.00	-73.09	0.00	73.09	3,373.20	807.31	2,818	2,677.58	1.62	-0.18	0.03
91.75	-15.09	-1.15	0.00	-71.03	0.00	71.03	3,350.36	799.92	2,767	2,634.87	1.69	-0.19	0.03
95.00	-14.46	-1.13	0.00	-67.27	0.00	67.27	3,307.41	786.16	2,673	2,555.91	1.82	-0.19	0.03
97.25	-14.05	-1.12	0.00	-64.73	0.00	64.73	2,627.26	659.18	2,255	2,046.31	1.91	-0.20	0.04
100.00	-13.31	-1.09	0.00	-61.64	0.00	61.64	2,600.90	649.47	2,189	1,995.71	2.03	-0.21	0.04
105.00	-12.59	-1.06	0.00	-56.18	0.00	56.18	2,552.09	631.85	2,072	1,904.68	2.25	-0.22	0.03
110.00	-11.88	-1.03	0.00	-50.85	0.00	50.85	2,502.07	614.22	1,958	1,814.81	2.49	-0.23	0.03
115.00	-11.19	-1.00	0.00	-45.68	0.00	45.68	2,450.83	596.60	1,847	1,726.19	2.74	-0.24	0.03
120.00	-10.51	-0.97	0.00	-40.67	0.00	40.67	2,398.38	578.97	1,739	1,638.89	3.00	-0.26	0.03
125.00	-9.84	-0.93	0.00	-35.85	0.00	35.85	2,344.71	561.35	1,635	1,552.98	3.27	-0.27	0.03
130.00	-9.19	-0.89	0.00	-31.21	0.00	31.21	2,289.83	543.72	1,534	1,468.56	3.56	-0.28	0.03
135.00	-8.83	-0.86	0.00	-26.77	0.00	26.77	2,227.14	526.10	1,436	1,381.59	3.86	-0.29	0.02
137.83	-8.45	-0.84	0.00	-24.32	0.00	24.32	2,184.86	516.11	1,382	1,329.37	4.03	-0.30	0.02
140.00	-8.07	-0.81	0.00	-22.50	0.00	22.50	2,152.53	508.47	1,342	1,290.12	4.17	-0.30	0.02
142.17	-7.81	-0.79	0.00	-20.75	0.00	20.75	1,104.91	305.72	808	666.44	4.31	-0.30	0.04
145.00	-7.36	-0.76	0.00	-18.50	0.00	18.50	1,093.00	299.73	777	646.26	4.49	-0.31	0.04
150.00	-6.92	-0.72	0.00	-14.72	0.00	14.72	1,071.05	289.15	723	610.79	4.82	-0.32	0.03
155.00	-6.84	-0.72	0.00	-11.11	0.00	11.11	1,047.88	278.58	671	575.57	5.17	-0.34	0.03
155.90	-6.41	-0.68	0.00	-10.47	0.00	10.47	1,043.58	276.68	662	569.27	5.23	-0.34	0.03
160.00	-3.92	-0.44	0.00	-7.69	0.00	7.69	1,023.49	268.00	621	540.69	5.52	-0.34	0.02
165.00	-3.63	-0.42	0.00	-5.46	0.00	5.46	997.89	257.43	573	506.21	5.89	-0.35	0.01

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
170.00	-3.35	-0.39	0.00	-3.38	0.00	3.38	971.07	246.85	527	472.22	6.26	-0.36	0.01
175.00	-3.14	-0.36	0.00	-1.45	0.00	1.45	943.04	236.28	483	438.79	6.64	-0.36	0.01
179.00	0.00	-0.34	0.00	0.00	0.00	0.00	919.74	227.82	449	412.50	6.94	-0.36	0.00

ANALYSIS SUMMARY

	Reactions						Max Usage	
Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.0W Normal	23.33	0.00	52.41	0.00	0.00	2877.35	51.79	0.49
0.9D + 1.0W Normal	23.32	0.00	39.30	0.00	0.00	2839.85	51.79	0.48
1.2D + 1.0Di + 1.0Wi Normal	6.29	0.00	66.77	0.00	0.00	759.22	51.79	0.14
1.2D + 1.0Ev + 1.0Eh Normal	1.34	0.00	52.46	0.00	0.00	192.42	51.79	0.04
0.9D - 1.0Ev + 1.0Eh Normal	1.33	0.00	36.04	0.00	0.00	189.23	51.79	0.04
1.0D + 1.0W Service Normal	5.13	0.00	43.70	0.00	0.00	628.00	142.17	0.11

AMERICAN TOWER CORPORATION

Base Plate & Anchor Rod Analysis

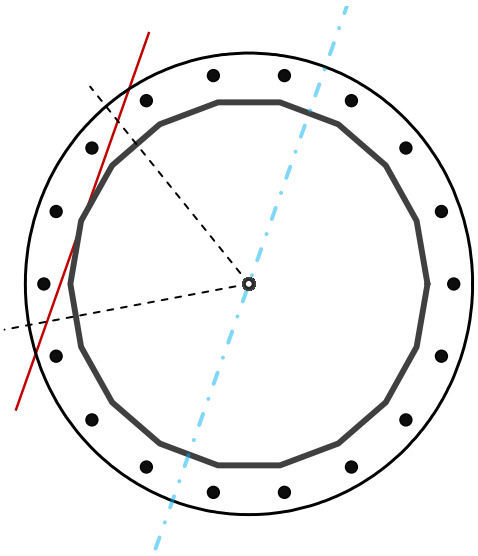
Pole Dimensions		
Number of Sides	18	-
Diameter	56.5	in
Thickness	7/16	in
Orientation Offset		°

Base Reactions		
Moment, Mu	2,877.4	k-ft
Axial, Pu	52.4	k
Shear, Vu	23.3	k
Neutral Axis	70	°

Report Capacities		
Component	Capacity	Result
Base Plate	40%	Pass
Anchor Rods	51%	Pass
Dwyidag	-	-

Base Plate		
Shape	Round	-
Diameter, ø	72	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	d	η=0.5
Clear Distance	3	in
Applied Moment, Mu	799.5	k
Bending Stress, ϕMn	1995.1	k

Original Anchor Rods		
Arrangement	Radial	-
Quantity	18	-
Diameter, ø	2 1/4	in
Bolt Circle	66	in
Grade	A615-75	
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Spacing	11.5	in
Orientation Offset		°
Applied Force, Pu	123.4	k
Anchor Rods, ϕPn	243.6	k



Calculations for Monopole Base Plate & Anchor Rod Analysis

Reaction Distribution

Reaction	Shear Vu	Moment Mu	Factor
-	k	k-ft	-
Base Forces	23.3	2877.4	1.00
Anchor Rod Forces	23.3	2877.4	1.00
Additional Bolt (Grp1) Forces	0.0	0.0	0.00
Additional Bolt (Grp2) Forces	0.0	0.0	0.00
Dywidag Forces	0.0	0.0	0.00
Stiffener Forces	0.0	0.0	0.00

Geometric Properties

Section	Gross Area	Net Area	Individual Inertia	Threads per Inch	Moment of Inertia
-	in^2	in^2	in^4	#	in^4
Pole	76.6643	4.2591	0.2728		30124.44
Bolt	3.9761	3.2477	0.8393	4.5	29596.09
Bolt1	0.0000	0.0000	0.0000	0	0.00
Bolt2	0.0000	0.0000	0.0000	0	0.00
Dywidag	0.0000	0.0000	0.0000		0.00
Stiffener	0.0000	0.0000	0.0000		0.00

Base Plate		
Shape	Round	-
Diameter, D	72	in
Thickness, t	2	in
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	75	ksi
Base Plate Chord	44.629	in
Detail Type	d	-
Detail Factor	0.50	-
Clear Distance	3	-

Anchor Rods		
Anchor Rod Quantity, N	18	-
Rod Diameter, d	2.25	in
Bolt Circle, BC	66	in
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Applied Axial, Pu	123.4	k
Applied Shear, Vu	0.4	k
Compressive Capacity, ϕPn	243.6	k
Tensile Capacity, ϕRnt	0.507	OK
Interaction Capacity	0.510	OK

External Base Plate		
Chord Length AA	38.547	in
Additional AA	4.000	in
Section Modulus, Z	42.547	in^3
Applied Moment, Mu	799.5	k-ft
Bending Capacity, ϕMn	2297.5	k-ft
Capacity, Mu/ϕMn	0.348	OK
Chord Length AB	37.231	in
Additional AB	4.000	in
Section Modulus, Z	41.231	in^3
Applied Moment, Mu	644.1	k-ft
Bending Capacity, ϕMn	2226.5	k-ft
Capacity, Mu/ϕMn	0.289	OK
Bend Line Length	36.946	in
Additional Bend Line	0.000	in
Section Modulus, Z	36.946	in^3
Applied Moment, Mu	799.5	k-ft
Bending Capacity, ϕMn	1995.1	k-ft
Capacity, Mu/ϕMn	0.401	OK

Internal Base Plate		
Arc Length	0.000	in
Section Modulus, Z	0.000	in^3
Moment Arm	0.000	in
Applied Moment, Mu	0.0	k-ft
Bending Capacity, ϕMn	0.0	k-ft
Capacity, Mu/ϕMn		

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

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10084894
Maser Consulting Connecticut Project #: 21777720A

July 8, 2021

Site Information	*Site ID:*	*469142-VZW / COLCHESTER SOUTH CT*
	Site Name:	*COLCHESTER SOUTH CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*856 Middletown Road* *Colchester, Connecticut 06415* *New London County*
	Latitude:	*41.551633°*
	Longitude:	*-72.425794°*
Structure Information	*Tower Type:*	*180-Ft Monopole*
	Mount Type:	*12.92-Ft Platform*

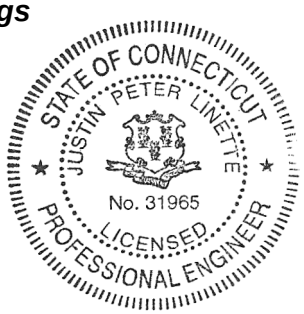
FUZE ID # 16272138

Analysis Results

Platform: **55.9% 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: Conner Hoge



Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	*Verizon RFDS Site ID: 674864, dated June 14, 2021*
Mount Mapping Report	*ELITE ICT, Site ID: 41179, dated April 21, 2021*
Previous Mount Analysis Report	*Maser Consulting Project #: 21777720A, dated July 2, 2021*
Mount Modification Drawings	*Maser Consulting Project #: 21777720A, dated July 8, 2021*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	121 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	B
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.980
Seismic Parameters:	S_S:	0.21
	S_1:	0.056
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, Lv:	250 lbs.
	Maintenance Live Load, Lm:	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
180.00	181.50	6	JMA Wireless	MX06FRO660-03	Added
		3	Samsung	MT6407-77A	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		2	Raycap	RRFDC-3315-PF-48	Retained
		6	Amphenol Antel	LPA-80080-4CF	

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

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

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Maser Consulting Connecticut and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Maser Consulting Connecticut to verify deviation will not adversely impact the analysis.

2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Maser Consulting Connecticut, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
   - Channel, Solid Round, Angle, Plate — ASTM A36 (Gr. 36)
   - HSS (Rectangular) — ASTM 500 (Gr. B-46)
   - Pipe — ASTM A53 (Gr. B-35)
   - Threaded Rod — F1554 (Gr. 36)
   - Bolts — ASTM A325

8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

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

Analysis Results:

Component	Utilization %	Pass/Fail
Antenna Pipe	37.0%	Pass
Face Horizontal	19.0%	Pass
Standoff Horizontal	27.0%	Pass
Grating Support	3.0%	Pass
Kicker	14.0%	Pass
Support Rail	25.0%	Pass
Mount Connection	55.9%	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**55.9%**

Recommendation:

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

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

Attachments:

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

V4.0 Updated on 3-31-2021

Antenna Mount Mapping Form (PATENT PENDING)

FCC # not required

Tower Owner:	AMERICAN TOWER	**Mapping Date:**	4/21/2021
Site Name:	COLCHESTER SOUTH	**Tower Type:**	Monopole
Site Number or ID:	41179	**Tower Height (Ft.):**	185
Mapping Contractor:	ELITE ICT	**Mount Elevation (Ft.):**	185

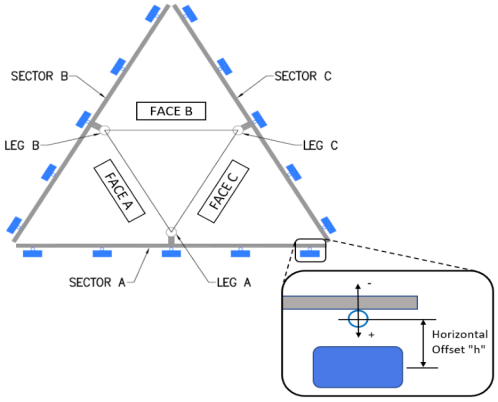
Please insert the sketches of the antenna mount from the "Sketches" tab with dimensions and members here.

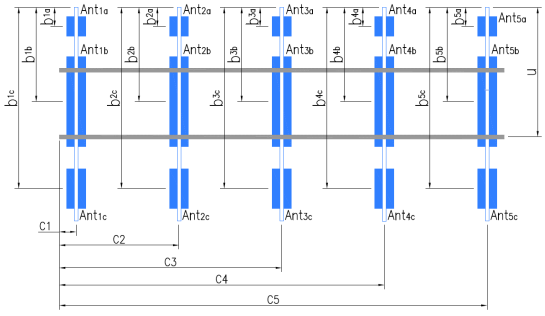
Mount Pipe Configuration and Geometries [Unit = Inches]

Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	96 x 2.38 STD P	58.50	8.00	C1	96 x 2.38 STD P	58.00	8.00
A2	96 X2.38 STD P	58.00	32.00	C2	96 X2.38 STD P	58.00	32.00
A3	72 X 2.38 STD P	45.50	74.00	C3	72 X 2.38 STD P	45.50	74.00
A4	96X2.38 STD P	58.00	123.00	C4	96X2.38 STD P	58.00	123.00
A5	96 X 2.38 STD P	58.00	145.00	C5	96 X 2.38 STD P	58.00	145.00
A6				C6			
B1	96 x 2.38 STD P	58.00	8.00	D1			
B2	96 X2.38 STD P	58.00	32.00	D2			
B3	72 X 2.38 STD P	45.50	74.00	D3			
B4	96X2.38 STD P	58.00	123.00	D4			
B5	96 X 2.38 STD P	58.00	145.00	D5			
B6				D6			

Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :	0.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	
Please enter additional infomation or comments below.	

Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	18
For T-Arms/Platforms on monopoles, report the weld size from the main standoff to the plate bolting into the collar mount.			4-Mar





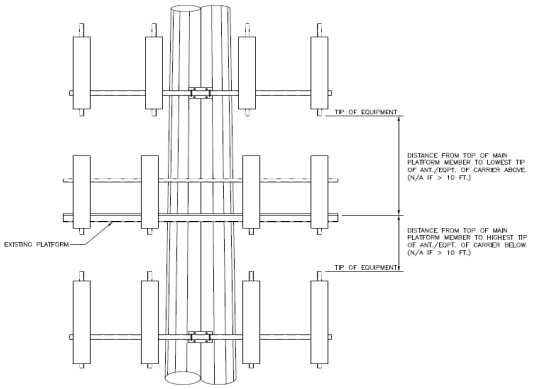
Antenna Layout (Looking Out From Tower)

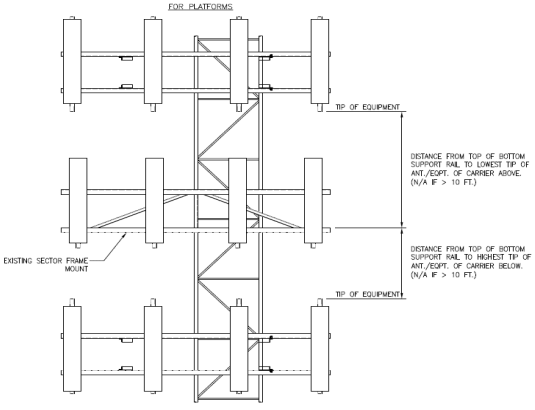
Ants. Items	Enter antenna model. If not labeled, enter "Unknown". Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Mounting Locations [Units are inches and degrees] Vertical Distances"b_{1a}, b_{2a}, b_{3a}, b_{1b}...." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photos of antennas Photo Numbers
Sector A										
Ant_{1a}	LPA-80080-4CF-EDIN	6.00	13.50	48.00		186.208	44.00	16.00	40.00	33
Ant_{1b}										
Ant_{1c}										
Ant_{2a}	UNKNOWN	12.00	7.00	72.00		186.167	44.00	6.00	10.00	34
Ant_{2b}										
Ant_{2c}										
Ant_{3a}	UNKNOWN	12.00	7.00	72.00		185.792	36.00	8.00	110.00	39
Ant_{3b}										
Ant_{3c}										
Ant_{4a}	UNKNOWN	12.00	7.00	72.00		186.833	36.00	6.00	120.00	40
Ant_{4b}										
Ant_{4c}										
Ant_{5a}	LPA-80080-4CF-EDIN	6.00	13.00	48.00		186.167	44.00	16.00	335.00	42
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower	B4-RRH	10.00	6.00	36.00						

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector	
Sector A:	20.00	Deg	Leg A:		Deg
Sector B:	140.00	Deg	Leg B:		Deg
Sector C:	260.00	Deg	Leg C:		Deg
Sector D:		Deg	Leg D:		Deg

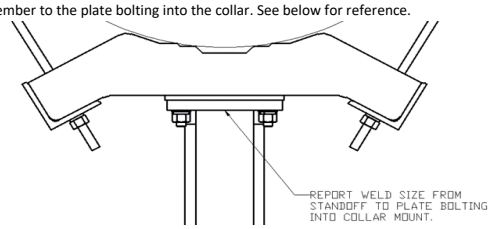
Climbing Facility Information		
Location:	260.00 Deg	Other
Climbing Facility	Corrosion Type:	Good condition.
	Access:	Climbing path was obstructed.
	Condition:	Good condition.

Please insert a photo of the mount centerline measurement here.





For T-Arms/Platforms on monopoles, record the weld size from the main standoff member to the plate bolting into the collar. See below for reference.



Sector B										
Ant_{1a}	LPA-80080-4CF-EDIN	6.00	13.00	48.00		186.167	44.00	16.00	185.00	98
Ant_{1b}										
Ant_{1c}										
Ant_{2a}	UNKNOWN	12.00	7.00	72.00		186.167	44.00	6.00	150.00	97
Ant_{2b}										
Ant_{2c}										
Ant_{3a}	UNKNOWN	12.00	7.00	72.00		185.792	36.00	8.00	140.00	96
Ant_{3b}										
Ant_{3c}										
Ant_{4a}	UNKNOWN	12.00	7.00	72.00		186.833	36.00	6.00	200.00	93
Ant_{4b}										
Ant_{4c}										
Ant_{5a}	LPA-80080-4CF-EDIN	6.00	13.00	48.00		186.167	44.00	16.00	180.00	92
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower	RFDC-3315-PF-48	14.00	8.00	21.00						
Ant on Tower	B4-RRH	10.00	6.00	36.00						
Sector C										
Ant_{1a}	LPA-80080-4CF-EDIN	6.00	3.00	48.00		186.167	44.00	16.00	270.00	87
Ant_{1b}										
Ant_{1c}										
Ant_{2a}	UNKNOWN	12.00	7.00	72.00		186.167	44.00	6.00	275.00	86
Ant_{2b}										
Ant_{2c}										
Ant_{3a}	UNKNOWN	12.00	7.00	72.00		185.792	36.00	8.00	270.00	85
Ant_{3b}										
Ant_{3c}										
Ant_{4a}	UNKNOWN	12.00	7.00	72.00		186.833	36.00	6.00	185.00	82
Ant_{4b}										
Ant_{4c}										
Ant_{5a}	LPA-80080-4CF-EDIN	6.00	3.00	48.00		186.167	44.00	16.00	320.00	84
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower	RFDC-3315-PF-48	14.00	8.00	21.00						
Ant on Tower	B4-RRH	10.00	6.00	36.00						
Sector D										
Ant_{1a}										
Ant_{1b}										
Ant_{1c}										
Ant_{2a}										
Ant_{2b}										
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #
1		
2		
3		
4		
5		
6		
7		
8		

Observed Obstructions to Tower Lighting System					
If the tower lighting system is being obstructed by the carrier's equipment (for example: a light nested by the antennas), please provide photos and fill in the information below.					Photo #
Description of Obstruction:					
Type of Light:		Photo #		Additional Comments:	
Lighting Technology:		Photo #			
Elevation (AGL) at base of light (Ft.):		Photo #			
Is a service loop available?		Photo #			
Is beacon installed on an extension?		Photo #			

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

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

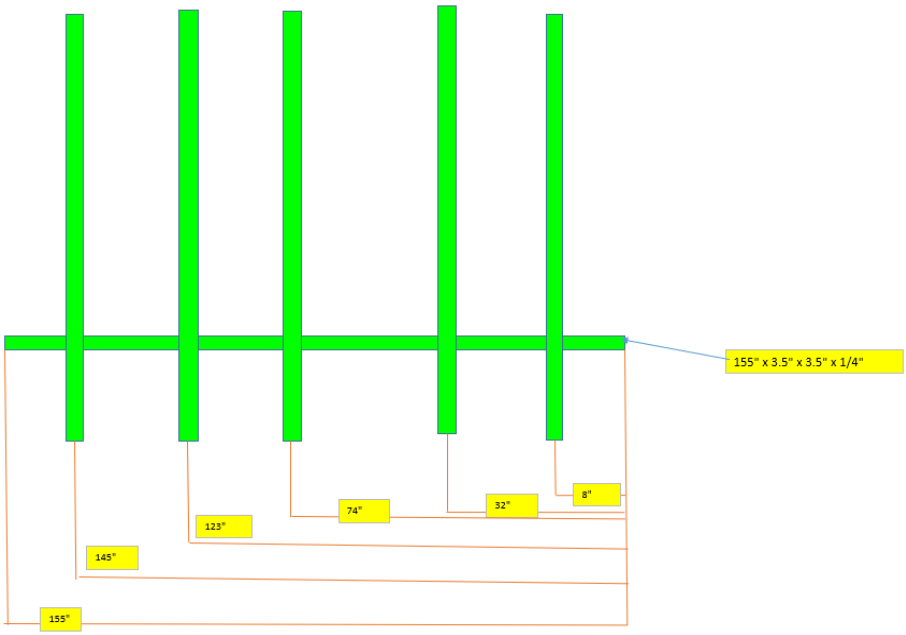
V4.0 Updated on 3-31-2021

Antenna Mount Mapping Form (PATENT PENDING)

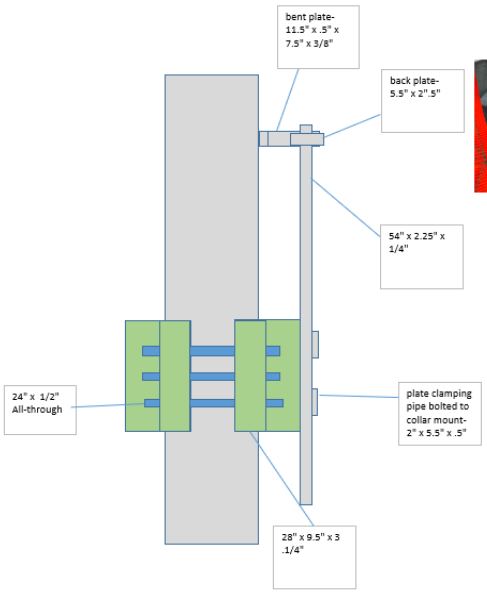
FCC # not required

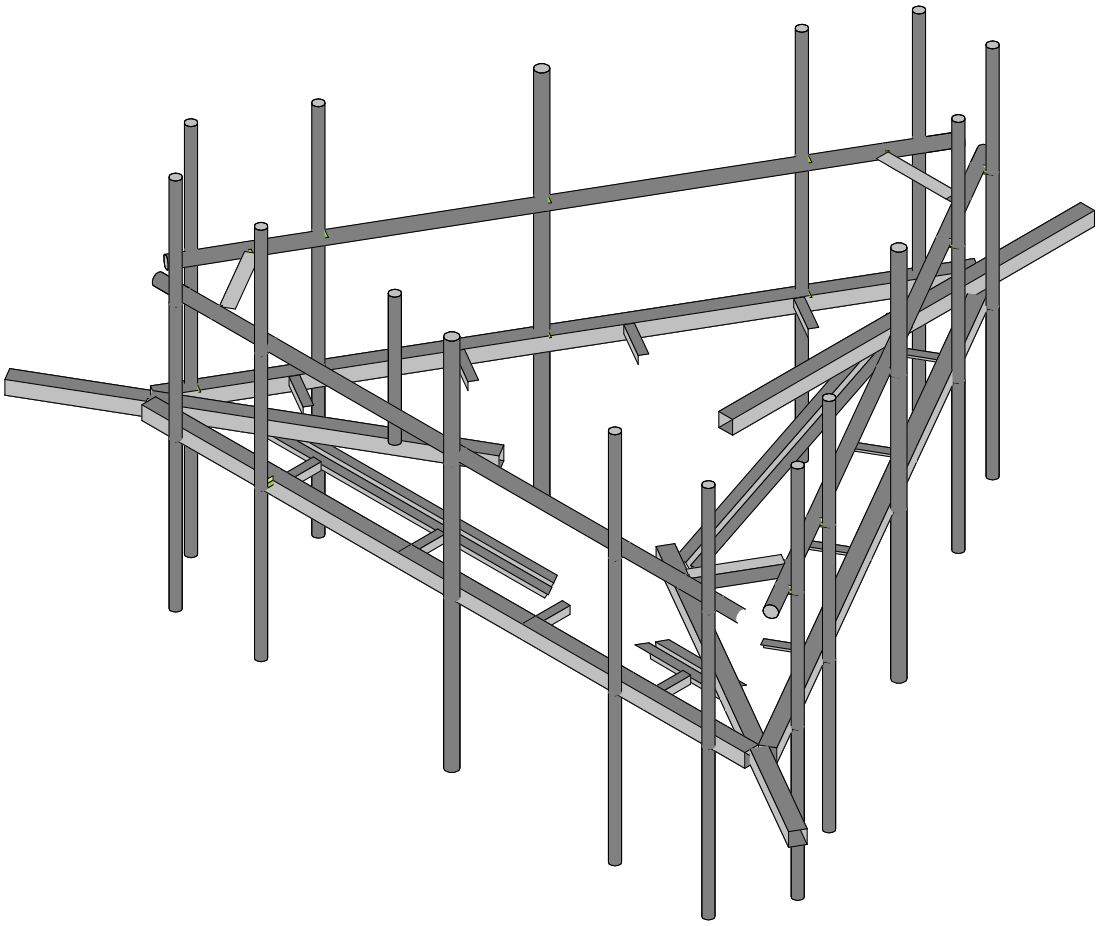
Tower Owner:	AMERICAN TOWER	**Mapping Date:**	4/21/2021
Site Name:	COLCHESTER SOUTH	**Tower Type:**	Monopole
Site Number or ID:	41179	**Tower Height (Ft.):**	185
Mapping Contractor:	ELITE ICT	**Mount Elevation (Ft.):**	185

Please Insert Sketches of the Antenna Mount



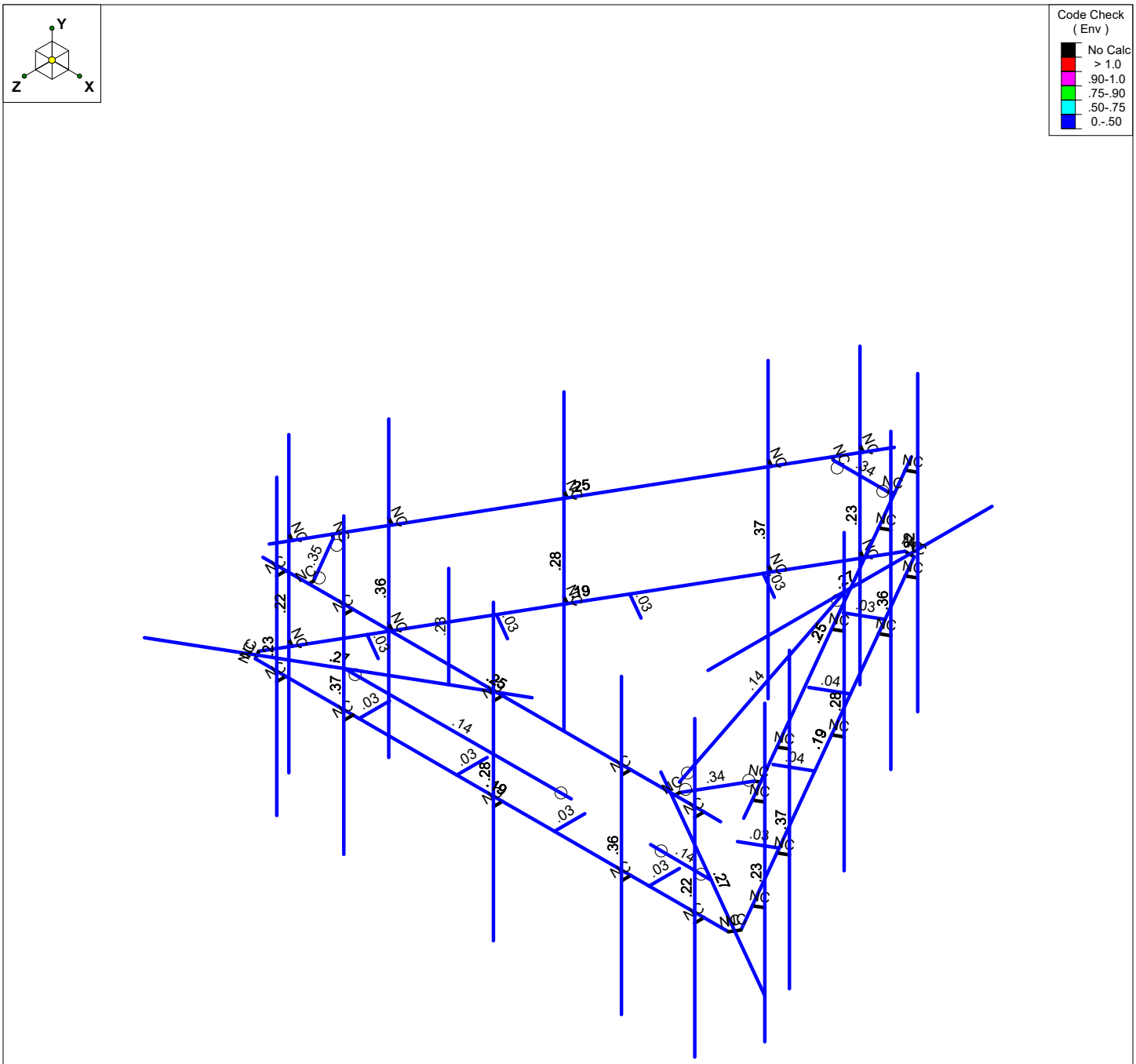
Please Insert Sketches of the Antenna Mount, cont'd





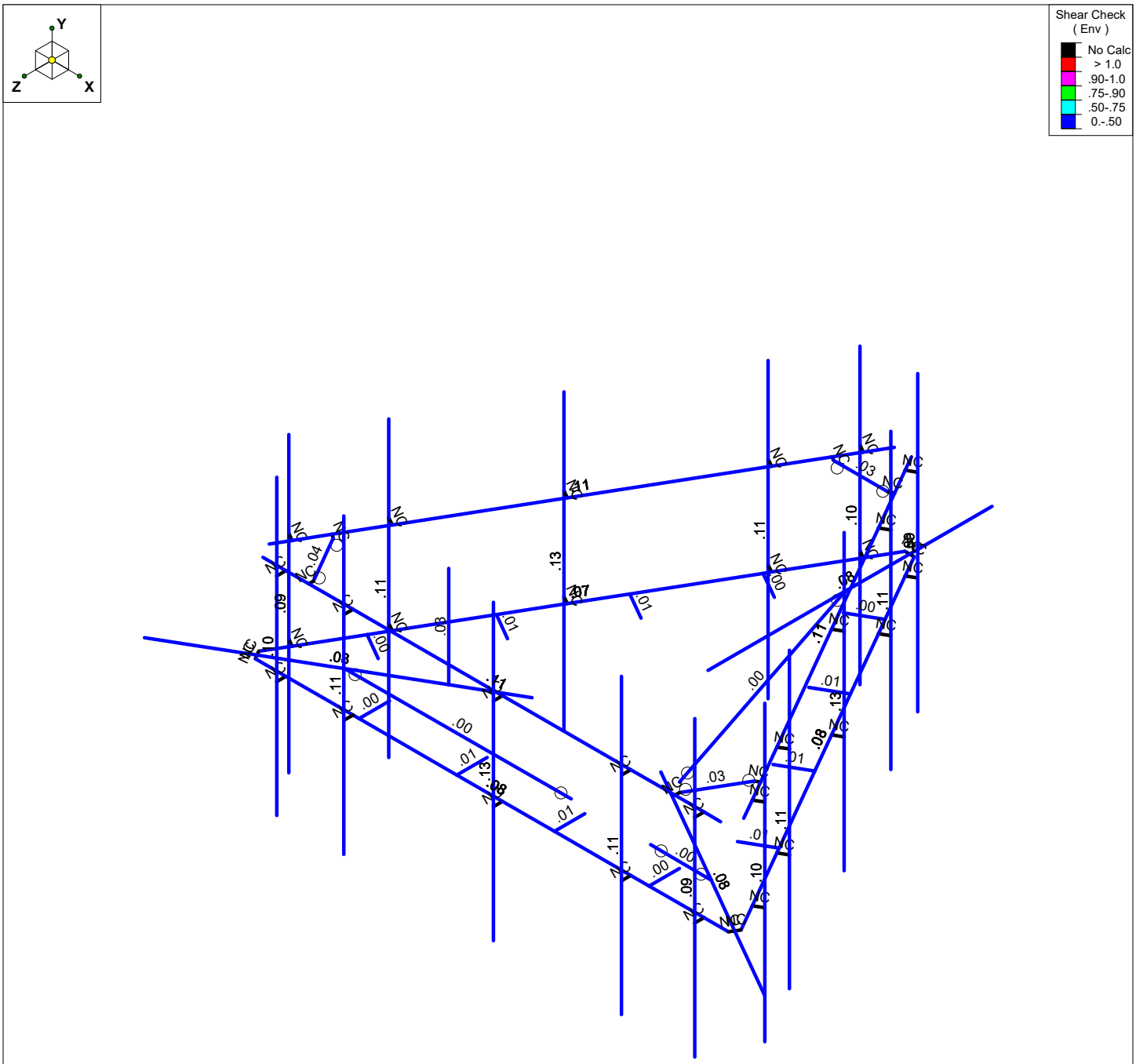
Envelope Only Solution

		SK - 1
		July 7, 2021 at 9:42 AM
		Mod_469142-VZW_MT_LO_H.r3d



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

		SK - 2
		July 7, 2021 at 9:42 AM
		Mod_469142-VZW_MT_LO_H.r3d



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

		SK - 3
		July 7, 2021 at 9:42 AM
		Mod_469142-VZW_MT_LO_H.r3d

Basic Load Cases

	BLC Description	Category	X Gravi...	Y Gravi...	Z Gravity	Joint	Point	Distrib...	Area(M...	Surfac...
1	Antenna D	None					114			
2	Antenna Di	None					114			
3	Antenna Wo (0 Deg)	None					114			
4	Antenna Wo (30 Deg)	None					114			
5	Antenna Wo (60 Deg)	None					114			
6	Antenna Wo (90 Deg)	None					114			
7	Antenna Wo (120 Deg)	None					114			
8	Antenna Wo (150 Deg)	None					114			
9	Antenna Wo (180 Deg)	None					114			
10	Antenna Wo (210 Deg)	None					114			
11	Antenna Wo (240 Deg)	None					114			
12	Antenna Wo (270 Deg)	None					114			
13	Antenna Wo (300 Deg)	None					114			
14	Antenna Wo (330 Deg)	None					114			
15	Antenna Wi (0 Deg)	None					114			
16	Antenna Wi (30 Deg)	None					114			
17	Antenna Wi (60 Deg)	None					114			
18	Antenna Wi (90 Deg)	None					114			
19	Antenna Wi (120 Deg)	None					114			
20	Antenna Wi (150 Deg)	None					114			
21	Antenna Wi (180 Deg)	None					114			
22	Antenna Wi (210 Deg)	None					114			
23	Antenna Wi (240 Deg)	None					114			
24	Antenna Wi (270 Deg)	None					114			
25	Antenna Wi (300 Deg)	None					114			
26	Antenna Wi (330 Deg)	None					114			
27	Antenna Wm (0 Deg)	None					114			
28	Antenna Wm (30 Deg)	None					114			
29	Antenna Wm (60 Deg)	None					114			
30	Antenna Wm (90 Deg)	None					114			
31	Antenna Wm (120 Deg)	None					114			
32	Antenna Wm (150 Deg)	None					114			
33	Antenna Wm (180 Deg)	None					114			
34	Antenna Wm (210 Deg)	None					114			
35	Antenna Wm (240 Deg)	None					114			
36	Antenna Wm (270 Deg)	None					114			
37	Antenna Wm (300 Deg)	None					114			
38	Antenna Wm (330 Deg)	None					114			
39	Structure D	None		-1					3	
40	Structure Di	None						43	3	
41	Structure Wo (0 Deg)	None						86		
42	Structure Wo (30 Deg)	None						86		
43	Structure Wo (60 Deg)	None						86		
44	Structure Wo (90 Deg)	None						86		
45	Structure Wo (120 Deg)	None						86		
46	Structure Wo (150 Deg)	None						86		
47	Structure Wo (180 Deg)	None						86		
48	Structure Wo (210 Deg)	None						86		
49	Structure Wo (240 Deg)	None						86		
50	Structure Wo (270 Deg)	None						86		
51	Structure Wo (300 Deg)	None						86		
52	Structure Wo (330 Deg)	None						86		
53	Structure Wi (0 Deg)	None						86		
54	Structure Wi (30 Deg)	None						86		
55	Structure Wi (60 Deg)	None						86		
56	Structure Wi (90 Deg)	None						86		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravi...	Y Gravi...	Z Gravity	Joint	Point	Distrib...	Area(M...	Surfac...
57	Structure Wi (120 Deg)	None						86		
58	Structure Wi (150 Deg)	None						86		
59	Structure Wi (180 Deg)	None						86		
60	Structure Wi (210 Deg)	None						86		
61	Structure Wi (240 Deg)	None						86		
62	Structure Wi (270 Deg)	None						86		
63	Structure Wi (300 Deg)	None						86		
64	Structure Wi (330 Deg)	None						86		
65	Structure Wm (0 Deg)	None						86		
66	Structure Wm (30 Deg)	None						86		
67	Structure Wm (60 Deg)	None						86		
68	Structure Wm (90 Deg)	None						86		
69	Structure Wm (120 Deg)	None						86		
70	Structure Wm (150 Deg)	None						86		
71	Structure Wm (180 Deg)	None						86		
72	Structure Wm (210 Deg)	None						86		
73	Structure Wm (240 Deg)	None						86		
74	Structure Wm (270 Deg)	None						86		
75	Structure Wm (300 Deg)	None						86		
76	Structure Wm (330 Deg)	None						86		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	BLC 39 Transient Area Loads	None						53		
82	BLC 40 Transient Area Loads	None						53		

Load Combinations

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

Load Combinations (Continued)

	Description	S...	PDelta	S...	B...	Fa...	BLC	Fa...	BLC	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
27	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 + 1.0...	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 + 1.0E...		Y		1	1.2	39	1.2	SX		SY	1	SZ	-1										
54	1.2D + 1.0Ev + 1.0E...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.8...										
55	1.2D + 1.0Ev + 1.0E...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5										
56	1.2D + 1.0Ev + 1.0E...		Y		1	1.2	39	1.2	SX	1	SY	1	SZ											
57	1.2D + 1.0Ev + 1.0E...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5										
58	1.2D + 1.0Ev + 1.0E...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866										
59	1.2D + 1.0Ev + 1.0E...		Y		1	1.2	39	1.2	SX		SY	1	SZ	1										
60	1.2D + 1.0Ev + 1.0E...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866										
61	1.2D + 1.0Ev + 1.0E...		Y		1	1.2	39	1.2	SX	-.8...	SY	1	SZ	.5										
62	1.2D + 1.0Ev + 1.0E...		Y		1	1.2	39	1.2	SX	-1	SY	1	SZ											
63	1.2D + 1.0Ev + 1.0E...		Y		1	1.2	39	1.2	SX	-.8...	SY	1	SZ	-.5										
64	1.2D + 1.0Ev + 1.0E...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.8...										

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diaphragm
1	N1	0	0	-0.833333	0	
2	N115	5.791667	0	3.041667	0	
3	N116	5.791667	0	3.291667	0	
4	N117	5.791667	4.833333	3.291667	0	
5	N118	5.791667	-3.166667	3.291667	0	
6	N16	6.458333	0	3.041667	0	
7	N17	-6.458333	0	3.041667	0	
8	N18	0.126682	0	-8.363914	0	
9	N19	6.585015	0	2.822247	0	
10	N21	-6.585015	0	2.822247	0	
11	N22	-0.126682	0	-8.363914	0	
12	N21A	-0.	0	-8.363914	0	
13	N24	-6.521674	0	2.931957	0	
14	N28	6.521674	0	2.931957	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diaphragm
15	N23	-0.	0	-2.863914	0	
16	N24A	-0.	0	-10.613914	0	
17	N26	-1.758534	0	0.181957	0	
18	N27	-8.470231	0	4.056957	0	
19	N29	1.758534	0	0.181957	0	
20	N30	8.470231	0	4.056957	0	
21	N29A	-1.543348	0	-5.910175	0	
22	N30A	-0.821661	0	-5.493509	0	
23	N31	-2.876682	0	-3.600774	0	
24	N32	-2.154994	0	-3.184108	0	
25	N33	-4.210015	0	-1.291373	0	
26	N34	-3.488327	0	-0.874707	0	
27	N35	-5.501682	0	0.945859	0	
28	N36	-4.779994	0	1.362526	0	
29	N37	-3.20191	0	1.01529	0	
30	N38	-3.20191	2.75	1.01529	0	
31	N31A	3.791667	0	3.041667	0	
32	N32A	3.791667	0	3.291667	0	
33	N33A	3.791667	4.833333	3.291667	0	
34	N34A	3.791667	-3.166667	3.291667	0	
35	N35A	0.291667	0	3.041667	0	
36	N36A	0.291667	0	3.291667	0	
37	N37A	0.291667	4.833333	3.291667	0	
38	N38A	0.291667	-3.166667	3.291667	0	
39	N39	-3.791667	0	3.041667	0	
40	N40	-3.791667	0	3.291667	0	
41	N41	-3.791667	4.833333	3.291667	0	
42	N42	-3.791667	-3.166667	3.291667	0	
43	N43	-5.625	0	3.041667	0	
44	N44	-5.625	0	3.291667	0	
45	N45	-5.625	4.833333	3.291667	0	
46	N46	-5.625	-3.166667	3.291667	0	
47	N48	0.460015	0	-7.786564	0	
48	N49	0.676521	0	-7.911564	0	
49	N50	0.676521	4.833333	-7.911564	0	
50	N51	0.676521	-3.166667	-7.911564	0	
51	N52	1.460015	0	-6.054513	0	
52	N53	1.676521	0	-6.179513	0	
53	N54	1.676521	4.833333	-6.179513	0	
54	N55	1.676521	-3.166667	-6.179513	0	
55	N56	3.210015	0	-3.023424	0	
56	N57	3.426521	0	-3.148424	0	
57	N58	3.426521	4.833333	-3.148424	0	
58	N59	3.426521	-3.166667	-3.148424	0	
59	N60	5.251682	0	0.512846	0	
60	N61	5.468188	0	0.387846	0	
61	N62	5.468188	4.833333	0.387846	0	
62	N63	5.468188	-3.166667	0.387846	0	
63	N64	6.168348	0	2.10056	0	
64	N65	6.384855	0	1.97556	0	
65	N66	6.384855	4.833333	1.97556	0	
66	N67	6.384855	-3.166667	1.97556	0	
67	N69	-6.251682	0	2.244897	0	
68	N70	-6.468188	0	2.119897	0	
69	N71	-6.468188	4.833333	2.119897	0	
70	N72	-6.468188	-3.166667	2.119897	0	
71	N73	-5.251682	0	0.512846	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diaphragm
72	N74	-5.468188	0	0.387846	0	
73	N75	-5.468188	4.833333	0.387846	0	
74	N76	-5.468188	-3.166667	0.387846	0	
75	N77	-3.501682	0	-2.518243	0	
76	N78	-3.718188	0	-2.643243	0	
77	N79	-3.718188	4.833333	-2.643243	0	
78	N80	-3.718188	-3.166667	-2.643243	0	
79	N81	-1.460015	0	-6.054513	0	
80	N82	-1.676521	0	-6.179513	0	
81	N83	-1.676521	4.833333	-6.179513	0	
82	N84	-1.676521	-3.166667	-6.179513	0	
83	N85	-0.543348	0	-7.642226	0	
84	N86	-0.759855	0	-7.767226	0	
85	N87	-0.759855	4.833333	-7.767226	0	
86	N88	-0.759855	-3.166667	-7.767226	0	
87	N88A	-3.625	0	3.041667	0	
88	N89	-3.625	0	2.208333	0	
89	N90	-0.958333	0	3.041667	0	
90	N91	-0.958333	0	2.208333	0	
91	N92	1.708333	0	3.041667	0	
92	N93	1.708333	0	2.208333	0	
93	N94	4.291667	0	3.041667	0	
94	N95	4.291667	0	2.208333	0	
95	N97	5.168348	0	0.368509	0	
96	N98	4.446661	0	0.785175	0	
97	N99	3.835015	0	-1.940892	0	
98	N100	3.113327	0	-1.524226	0	
99	N101	2.501682	0	-4.250293	0	
100	N102	1.779994	0	-3.833627	0	
101	N103	1.210015	0	-6.487526	0	
102	N104	0.488327	0	-6.070859	0	
103	N103A	5.268321	0	2.208333	0	
104	N106A	0	-2.25	-2.083333	0	
105	N107	-0.	0	-6.613914	0	
106	N107A	-1.082532	-2.25	-0.208333	0	
107	N108	-5.00613	0	2.056957	0	
108	N110	1.082532	-2.25	-0.208333	0	
109	N111	5.00613	0	2.056957	0	
110	N110A	5.791667	2.5	3.041667	0	
111	N111A	5.791667	2.5	3.291667	0	
112	N112	6.249833	2.5	3.041667	0	
113	N113	-6.249833	2.5	3.041667	0	
114	N114	3.791667	2.5	3.041667	0	
115	N115A	3.791667	2.5	3.291667	0	
116	N116A	0.291667	2.5	3.041667	0	
117	N117A	0.291667	2.5	3.291667	0	
118	N118A	-3.791667	2.5	3.041667	0	
119	N119	-3.791667	2.5	3.291667	0	
120	N120	-5.625	2.5	3.041667	0	
121	N121	-5.625	2.5	3.291667	0	
122	N122	0.460015	2.5	-7.786564	0	
123	N123	0.676521	2.5	-7.911564	0	
124	N124	1.460015	2.5	-6.054513	0	
125	N125	1.676521	2.5	-6.179513	0	
126	N126	3.210015	2.5	-3.023424	0	
127	N127	3.426521	2.5	-3.148424	0	
128	N128	5.251682	2.5	0.512846	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diaphragm
129	N129	5.468188	2.5	0.387846	0	
130	N130	6.168348	2.5	2.10056	0	
131	N131	6.384855	2.5	1.97556	0	
132	N132	-6.251682	2.5	2.244897	0	
133	N133	-6.468188	2.5	2.119897	0	
134	N134	-5.251682	2.5	0.512846	0	
135	N135	-5.468188	2.5	0.387846	0	
136	N136	-3.501682	2.5	-2.518243	0	
137	N137	-3.718188	2.5	-2.643243	0	
138	N138	-1.460015	2.5	-6.054513	0	
139	N139	-1.676521	2.5	-6.179513	0	
140	N140	-0.543348	2.5	-7.642226	0	
141	N141	-0.759855	2.5	-7.767226	0	
142	N143	0.230932	2.5	-8.183348	0	
143	N144	6.480765	2.5	2.641681	0	
144	N146	-6.480765	2.5	2.641681	0	
145	N147	-0.230932	2.5	-8.183348	0	
146	N146A	4.999833	2.5	3.041667	0	
147	N147A	-4.999833	2.5	3.041667	0	
148	N148	4.999833	2.5	2.916667	0	
149	N149	-4.999833	2.5	2.916667	0	
150	N151	0.855932	2.5	-7.100816	0	
151	N152	5.855765	2.5	1.559149	0	
152	N153	0.747679	2.5	-7.038316	0	
153	N154	5.747512	2.5	1.621649	0	
154	N156	-5.855765	2.5	1.559149	0	
155	N157	-0.855932	2.5	-7.100816	0	
156	N158	-5.747512	2.5	1.621649	0	
157	N159	-0.747679	2.5	-7.038316	0	
158	N158A	-5.268321	0	2.208333	0	
159	N159A	-0.	0	-6.916667	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Face Horizontal	HSS3.5X3.5X4	Beam	Tube	A500 Gr. B ...	Typical	2.91	5.04	5.04	8.35
3	Standoff Horizontal	HSS3.5X3.5X4	Beam	Tube	A500 Gr. B ...	Typical	2.91	5.04	5.04	8.35
4	Grating Support	L2x2x4	Beam	Single Angle	A36 Gr.36	Typical	.944	.346	.346	.021
5	P2.5 Mount Pipe	PIPE 2.5	Column	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
6	Kicker	LL3x3x3x3	Column	Single Angle	A36 Gr.36	Typical	2.18	4.09	1.9	.027
7	Support Rail	PIPE 2.5	Column	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
8	Corner Angle	L3X3X4	Column	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(de...	Section/Shape	Type	Design List	Material	Design Rules
1	M107	N116	N115			RIGID	None	None	RIGID	Typical
2	MP1A	N117	N118			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
3	M7	N17	N16			Face Horizontal	Beam	Tube	A500 Gr. ...	Typical
4	M8	N19	N18			Face Horizontal	Beam	Tube	A500 Gr. ...	Typical
5	M9	N22	N21			Face Horizontal	Beam	Tube	A500 Gr. ...	Typical
6	M10	N22	N21A			RIGID	None	None	RIGID	Typical
7	M11	N18	N21A			RIGID	None	None	RIGID	Typical
8	M12	N17	N24			RIGID	None	None	RIGID	Typical
9	M13	N21	N24			RIGID	None	None	RIGID	Typical
10	M14	N19	N28			RIGID	None	None	RIGID	Typical
11	M15	N16	N28			RIGID	None	None	RIGID	Typical
12	M16	N24A	N23			Standoff Horizontal	Beam	Tube	A500 Gr. ...	Typical
13	M17	N27	N26			Standoff Horizontal	Beam	Tube	A500 Gr. ...	Typical
14	M18	N30	N29			Standoff Horizontal	Beam	Tube	A500 Gr. ...	Typical
15	M19	N29A	N30A		180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
16	M20	N31	N32		180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
17	M21	N33	N34		180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
18	M22	N35	N36		180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
19	M23	N38	N37			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
20	M20A	N32A	N31A			RIGID	None	None	RIGID	Typical
21	MP2A	N33A	N34A			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
22	M22A	N36A	N35A			RIGID	None	None	RIGID	Typical
23	MP3A	N37A	N38A			P2.5 Mount Pipe	Column	Pipe	A53 Gr. B	Typical
24	M24	N40	N39			RIGID	None	None	RIGID	Typical
25	MP4A	N41	N42			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
26	M26	N44	N43			RIGID	None	None	RIGID	Typical
27	MP5A	N45	N46			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
28	M28	N49	N48			RIGID	None	None	RIGID	Typical
29	MP1C	N50	N51			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
30	M30	N53	N52			RIGID	None	None	RIGID	Typical
31	MP2C	N54	N55			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
32	M32	N57	N56			RIGID	None	None	RIGID	Typical
33	MP3C	N58	N59			P2.5 Mount Pipe	Column	Pipe	A53 Gr. B	Typical
34	M34	N61	N60			RIGID	None	None	RIGID	Typical
35	MP4C	N62	N63			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
36	M36	N65	N64			RIGID	None	None	RIGID	Typical
37	MP5C	N66	N67			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
38	M38	N70	N69			RIGID	None	None	RIGID	Typical
39	MP1B	N71	N72			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
40	M40	N74	N73			RIGID	None	None	RIGID	Typical
41	MP2B	N75	N76			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
42	M42	N78	N77			RIGID	None	None	RIGID	Typical
43	MP3B	N79	N80			P2.5 Mount Pipe	Column	Pipe	A53 Gr. B	Typical
44	M44	N82	N81			RIGID	None	None	RIGID	Typical
45	MP4B	N83	N84			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
46	M46	N86	N85			RIGID	None	None	RIGID	Typical
47	MP5B	N87	N88			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
48	M48	N88A	N89		180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
49	M49	N90	N91		180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
50	M50	N92	N93		180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
51	M51	N94	N95		180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
52	M52	N97	N98		180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
53	M53	N99	N100		180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
54	M54	N101	N102		180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
55	M55	N103	N104		180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
56	M56	N107	N106A			Kicker	Column	Single Angle	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(de...	Section/Shape	Type	Design List	Material	Design Rules
57	M57	N108	N107A			Kicker	Column	Single Angle	A36 Gr.36	Typical
58	M58	N111	N110			Kicker	Column	Single Angle	A36 Gr.36	Typical
59	M59	N111A	N110A			RIGID	None	None	RIGID	Typical
60	M60	N113	N112			Support Rail	Column	Pipe	A53 Gr. B	Typical
61	M61	N115A	N114			RIGID	None	None	RIGID	Typical
62	M62	N117A	N116A			RIGID	None	None	RIGID	Typical
63	M63	N119	N118A			RIGID	None	None	RIGID	Typical
64	M64	N121	N120			RIGID	None	None	RIGID	Typical
65	M65	N123	N122			RIGID	None	None	RIGID	Typical
66	M66	N125	N124			RIGID	None	None	RIGID	Typical
67	M67	N127	N126			RIGID	None	None	RIGID	Typical
68	M68	N129	N128			RIGID	None	None	RIGID	Typical
69	M69	N131	N130			RIGID	None	None	RIGID	Typical
70	M70	N133	N132			RIGID	None	None	RIGID	Typical
71	M71	N135	N134			RIGID	None	None	RIGID	Typical
72	M72	N137	N136			RIGID	None	None	RIGID	Typical
73	M73	N139	N138			RIGID	None	None	RIGID	Typical
74	M74	N141	N140			RIGID	None	None	RIGID	Typical
75	M75	N144	N143			Support Rail	Column	Pipe	A53 Gr. B	Typical
76	M76	N147	N146			Support Rail	Column	Pipe	A53 Gr. B	Typical
77	M77	N147A	N149			RIGID	None	None	RIGID	Typical
78	M78	N146A	N148			RIGID	None	None	RIGID	Typical
79	M79	N152	N154			RIGID	None	None	RIGID	Typical
80	M80	N151	N153			RIGID	None	None	RIGID	Typical
81	M81	N157	N159			RIGID	None	None	RIGID	Typical
82	M82	N156	N158			RIGID	None	None	RIGID	Typical
83	M83	N159	N153		90	Corner Angle	Column	Single Angle	A36 Gr.36	Typical
84	M84	N149	N158		90	Corner Angle	Column	Single Angle	A36 Gr.36	Typical
85	M85	N154	N148		90	Corner Angle	Column	Single Angle	A36 Gr.36	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M107						Yes	** NA **			None
2	MP1A						Yes	** NA **			None
3	M7						Yes				None
4	M8						Yes				None
5	M9						Yes				None
6	M10						Yes	** NA **			None
7	M11						Yes	** NA **			None
8	M12						Yes	** NA **			None
9	M13						Yes	** NA **			None
10	M14						Yes	** NA **			None
11	M15						Yes	** NA **			None
12	M16						Yes				None
13	M17						Yes				None
14	M18						Yes				None
15	M19						Yes				None
16	M20						Yes				None
17	M21						Yes				None
18	M22						Yes				None
19	M23						Yes	** NA **			None
20	M20A						Yes	** NA **			None
21	MP2A						Yes	** NA **			None
22	M22A						Yes	** NA **			None
23	MP3A						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...
24	M24						Yes	** NA **			None
25	MP4A						Yes	** NA **			None
26	M26						Yes	** NA **			None
27	MP5A						Yes	** NA **			None
28	M28						Yes	** NA **			None
29	MP1C						Yes	** NA **			None
30	M30						Yes	** NA **			None
31	MP2C						Yes	** NA **			None
32	M32						Yes	** NA **			None
33	MP3C						Yes	** NA **			None
34	M34						Yes	** NA **			None
35	MP4C						Yes	** NA **			None
36	M36						Yes	** NA **			None
37	MP5C						Yes	** NA **			None
38	M38						Yes	** NA **			None
39	MP1B						Yes	** NA **			None
40	M40						Yes	** NA **			None
41	MP2B						Yes	** NA **			None
42	M42						Yes	** NA **			None
43	MP3B						Yes	** NA **			None
44	M44						Yes	** NA **			None
45	MP4B						Yes	** NA **			None
46	M46						Yes	** NA **			None
47	MP5B						Yes	** NA **			None
48	M48						Yes				None
49	M49						Yes				None
50	M50						Yes				None
51	M51						Yes				None
52	M52						Yes				None
53	M53						Yes				None
54	M54						Yes				None
55	M55						Yes				None
56	M56	BenPIN	BenPIN				Yes	** NA **			None
57	M57	BenPIN	BenPIN				Yes	** NA **			None
58	M58	BenPIN	BenPIN				Yes	** NA **			None
59	M59						Yes	** NA **			None
60	M60						Yes	** NA **			None
61	M61						Yes	** NA **			None
62	M62						Yes	** NA **			None
63	M63						Yes	** NA **			None
64	M64						Yes	** NA **			None
65	M65						Yes	** NA **			None
66	M66						Yes	** NA **			None
67	M67						Yes	** NA **			None
68	M68						Yes	** NA **			None
69	M69						Yes	** NA **			None
70	M70						Yes	** NA **			None
71	M71						Yes	** NA **			None
72	M72						Yes	** NA **			None
73	M73						Yes	** NA **			None
74	M74						Yes	** NA **			None
75	M75						Yes	** NA **			None
76	M76						Yes	** NA **			None
77	M77	OOOOOX					Yes	** NA **			None
78	M78	OOOOOX					Yes	** NA **			None
79	M79	OOOOOX					Yes	** NA **			None
80	M80	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...
81	M81	OOOOOX					Yes	** NA **			None
82	M82	OOOOOX					Yes	** NA **			None
83	M83						Yes	** NA **			None
84	M84						Yes	** NA **			None
85	M85						Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	Y	-23	.25
2	MP3A	My	-.011	.25
3	MP3A	Mz	.017	.25
4	MP3A	Y	-23	4.25
5	MP3A	My	-.011	4.25
6	MP3A	Mz	.017	4.25
7	MP3B	Y	-23	.25
8	MP3B	My	-.009	.25
9	MP3B	Mz	-.018	.25
10	MP3B	Y	-23	4.25
11	MP3B	My	-.009	4.25
12	MP3B	Mz	-.018	4.25
13	MP3C	Y	-23	.25
14	MP3C	My	.02	.25
15	MP3C	Mz	.002	.25
16	MP3C	Y	-23	4.25
17	MP3C	My	.02	4.25
18	MP3C	Mz	.002	4.25
19	MP3A	Y	-23	.25
20	MP3A	My	-.011	.25
21	MP3A	Mz	-.017	.25
22	MP3A	Y	-23	4.25
23	MP3A	My	-.011	4.25
24	MP3A	Mz	-.017	4.25
25	MP3B	Y	-23	.25
26	MP3B	My	.02	.25
27	MP3B	Mz	-.002	.25
28	MP3B	Y	-23	4.25
29	MP3B	My	.02	4.25
30	MP3B	Mz	-.002	4.25
31	MP3C	Y	-23	.25
32	MP3C	My	-.009	.25
33	MP3C	Mz	.018	.25
34	MP3C	Y	-23	4.25
35	MP3C	My	-.009	4.25
36	MP3C	Mz	.018	4.25
37	MP4A	Y	-43.55	2.25
38	MP4A	My	-.022	2.25
39	MP4A	Mz	0	2.25
40	MP4A	Y	-43.55	4.25
41	MP4A	My	-.022	4.25
42	MP4A	Mz	0	4.25
43	MP4B	Y	-43.55	2.25
44	MP4B	My	.011	2.25
45	MP4B	Mz	-.019	2.25
46	MP4B	Y	-43.55	4.25
47	MP4B	My	.011	4.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP4B	Mz	-.019	4.25
49	MP4C	Y	-43.55	2.25
50	MP4C	My	.011	2.25
51	MP4C	Mz	.019	2.25
52	MP4C	Y	-43.55	4.25
53	MP4C	My	.011	4.25
54	MP4C	Mz	.019	4.25
55	MP2A	Y	-84.4	2.5
56	MP2A	My	.042	2.5
57	MP2A	Mz	0	2.5
58	MP2B	Y	-84.4	2.5
59	MP2B	My	-.021	2.5
60	MP2B	Mz	.037	2.5
61	MP2C	Y	-84.4	2.5
62	MP2C	My	-.021	2.5
63	MP2C	Mz	-.037	2.5
64	MP3A	Y	-70.3	2
65	MP3A	My	.035	2
66	MP3A	Mz	0	2
67	MP3B	Y	-70.3	2
68	MP3B	My	-.018	2
69	MP3B	Mz	.03	2
70	MP3C	Y	-70.3	2
71	MP3C	My	-.018	2
72	MP3C	Mz	-.03	2
73	M23	Y	-32	1
74	M23	My	0	1
75	M23	Mz	0	1
76	M23	Y	-32	1
77	M23	My	0	1
78	M23	Mz	0	1
79	MP1A	Y	-6	2
80	MP1A	My	-.003	2
81	MP1A	Mz	0	2
82	MP1A	Y	-6	4.5
83	MP1A	My	-.003	4.5
84	MP1A	Mz	0	4.5
85	MP1B	Y	-6	2
86	MP1B	My	.002	2
87	MP1B	Mz	-.003	2
88	MP1B	Y	-6	4.5
89	MP1B	My	.002	4.5
90	MP1B	Mz	-.003	4.5
91	MP1C	Y	-6	2
92	MP1C	My	.002	2
93	MP1C	Mz	.003	2
94	MP1C	Y	-6	4.5
95	MP1C	My	.002	4.5
96	MP1C	Mz	.003	4.5
97	MP5A	Y	-6	2
98	MP5A	My	-.003	2
99	MP5A	Mz	0	2
100	MP5A	Y	-6	4.5
101	MP5A	My	-.003	4.5
102	MP5A	Mz	0	4.5
103	MP5B	Y	-6	2
104	MP5B	My	.002	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP5B	Mz	-.003	2
106	MP5B	Y	-6	4.5
107	MP5B	My	.002	4.5
108	MP5B	Mz	-.003	4.5
109	MP5C	Y	-6	2
110	MP5C	My	.002	2
111	MP5C	Mz	.003	2
112	MP5C	Y	-6	4.5
113	MP5C	My	.002	4.5
114	MP5C	Mz	.003	4.5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	Y	-84.859	.25
2	MP3A	My	-.042	.25
3	MP3A	Mz	.062	.25
4	MP3A	Y	-84.859	4.25
5	MP3A	My	-.042	4.25
6	MP3A	Mz	.062	4.25
7	MP3B	Y	-84.859	.25
8	MP3B	My	-.032	.25
9	MP3B	Mz	-.068	.25
10	MP3B	Y	-84.859	4.25
11	MP3B	My	-.032	4.25
12	MP3B	Mz	-.068	4.25
13	MP3C	Y	-84.859	.25
14	MP3C	My	.074	.25
15	MP3C	Mz	.006	.25
16	MP3C	Y	-84.859	4.25
17	MP3C	My	.074	4.25
18	MP3C	Mz	.006	4.25
19	MP3A	Y	-84.859	.25
20	MP3A	My	-.042	.25
21	MP3A	Mz	-.062	.25
22	MP3A	Y	-84.859	4.25
23	MP3A	My	-.042	4.25
24	MP3A	Mz	-.062	4.25
25	MP3B	Y	-84.859	.25
26	MP3B	My	.074	.25
27	MP3B	Mz	-.006	.25
28	MP3B	Y	-84.859	4.25
29	MP3B	My	.074	4.25
30	MP3B	Mz	-.006	4.25
31	MP3C	Y	-84.859	.25
32	MP3C	My	-.032	.25
33	MP3C	Mz	.068	.25
34	MP3C	Y	-84.859	4.25
35	MP3C	My	-.032	4.25
36	MP3C	Mz	.068	4.25
37	MP4A	Y	-36.678	2.25
38	MP4A	My	-.018	2.25
39	MP4A	Mz	0	2.25
40	MP4A	Y	-36.678	4.25
41	MP4A	My	-.018	4.25
42	MP4A	Mz	0	4.25
43	MP4B	Y	-36.678	2.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP4B	My	.009	2.25
45	MP4B	Mz	-.016	2.25
46	MP4B	Y	-36.678	4.25
47	MP4B	My	.009	4.25
48	MP4B	Mz	-.016	4.25
49	MP4C	Y	-36.678	2.25
50	MP4C	My	.009	2.25
51	MP4C	Mz	.016	2.25
52	MP4C	Y	-36.678	4.25
53	MP4C	My	.009	4.25
54	MP4C	Mz	.016	4.25
55	MP2A	Y	-46.262	2.5
56	MP2A	My	.023	2.5
57	MP2A	Mz	0	2.5
58	MP2B	Y	-46.262	2.5
59	MP2B	My	-.012	2.5
60	MP2B	Mz	.02	2.5
61	MP2C	Y	-46.262	2.5
62	MP2C	My	-.012	2.5
63	MP2C	Mz	-.02	2.5
64	MP3A	Y	-41.613	2
65	MP3A	My	.021	2
66	MP3A	Mz	0	2
67	MP3B	Y	-41.613	2
68	MP3B	My	-.01	2
69	MP3B	Mz	.018	2
70	MP3C	Y	-41.613	2
71	MP3C	My	-.01	2
72	MP3C	Mz	-.018	2
73	M23	Y	-90.496	1
74	M23	My	0	1
75	M23	Mz	0	1
76	M23	Y	-90.496	1
77	M23	My	0	1
78	M23	Mz	0	1
79	MP1A	Y	-41.503	2
80	MP1A	My	-.021	2
81	MP1A	Mz	0	2
82	MP1A	Y	-41.503	4.5
83	MP1A	My	-.021	4.5
84	MP1A	Mz	0	4.5
85	MP1B	Y	-41.503	2
86	MP1B	My	.01	2
87	MP1B	Mz	-.018	2
88	MP1B	Y	-41.503	4.5
89	MP1B	My	.01	4.5
90	MP1B	Mz	-.018	4.5
91	MP1C	Y	-41.503	2
92	MP1C	My	.01	2
93	MP1C	Mz	.018	2
94	MP1C	Y	-41.503	4.5
95	MP1C	My	.01	4.5
96	MP1C	Mz	.018	4.5
97	MP5A	Y	-41.503	2
98	MP5A	My	-.021	2
99	MP5A	Mz	0	2
100	MP5A	Y	-41.503	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
101	MP5A	My	-.021	4.5
102	MP5A	Mz	0	4.5
103	MP5B	Y	-41.503	2
104	MP5B	My	.01	2
105	MP5B	Mz	-.018	2
106	MP5B	Y	-41.503	4.5
107	MP5B	My	.01	4.5
108	MP5B	Mz	-.018	4.5
109	MP5C	Y	-41.503	2
110	MP5C	My	.01	2
111	MP5C	Mz	.018	2
112	MP5C	Y	-41.503	4.5
113	MP5C	My	.01	4.5
114	MP5C	Mz	.018	4.5

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	-181.171	.25
3	MP3A	Mx	-.131	.25
4	MP3A	X	0	4.25
5	MP3A	Z	-181.171	4.25
6	MP3A	Mx	-.131	4.25
7	MP3B	X	0	.25
8	MP3B	Z	-146.313	.25
9	MP3B	Mx	.116	.25
10	MP3B	X	0	4.25
11	MP3B	Z	-146.313	4.25
12	MP3B	Mx	.116	4.25
13	MP3C	X	0	.25
14	MP3C	Z	-146.313	.25
15	MP3C	Mx	-.01	.25
16	MP3C	X	0	4.25
17	MP3C	Z	-146.313	4.25
18	MP3C	Mx	-.01	4.25
19	MP3A	X	0	.25
20	MP3A	Z	-181.171	.25
21	MP3A	Mx	.131	.25
22	MP3A	X	0	4.25
23	MP3A	Z	-181.171	4.25
24	MP3A	Mx	.131	4.25
25	MP3B	X	0	.25
26	MP3B	Z	-146.313	.25
27	MP3B	Mx	.01	.25
28	MP3B	X	0	4.25
29	MP3B	Z	-146.313	4.25
30	MP3B	Mx	.01	4.25
31	MP3C	X	0	.25
32	MP3C	Z	-146.313	.25
33	MP3C	Mx	-.116	.25
34	MP3C	X	0	4.25
35	MP3C	Z	-146.313	4.25
36	MP3C	Mx	-.116	4.25
37	MP4A	X	0	2.25
38	MP4A	Z	-86.272	2.25
39	MP4A	Mx	0	2.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
40	MP4A	X	0	4.25
41	MP4A	Z	-86.272	4.25
42	MP4A	Mx	0	4.25
43	MP4B	X	0	2.25
44	MP4B	Z	-46.899	2.25
45	MP4B	Mx	.02	2.25
46	MP4B	X	0	4.25
47	MP4B	Z	-46.899	4.25
48	MP4B	Mx	.02	4.25
49	MP4C	X	0	2.25
50	MP4C	Z	-46.899	2.25
51	MP4C	Mx	-.02	2.25
52	MP4C	X	0	4.25
53	MP4C	Z	-46.899	4.25
54	MP4C	Mx	-.02	4.25
55	MP2A	X	0	2.5
56	MP2A	Z	-68.65	2.5
57	MP2A	Mx	0	2.5
58	MP2B	X	0	2.5
59	MP2B	Z	-51.58	2.5
60	MP2B	Mx	-.022	2.5
61	MP2C	X	0	2.5
62	MP2C	Z	-51.58	2.5
63	MP2C	Mx	.022	2.5
64	MP3A	X	0	2
65	MP3A	Z	-68.65	2
66	MP3A	Mx	0	2
67	MP3B	X	0	2
68	MP3B	Z	-45.04	2
69	MP3B	Mx	-.02	2
70	MP3C	X	0	2
71	MP3C	Z	-45.04	2
72	MP3C	Mx	.02	2
73	M23	X	0	1
74	M23	Z	-97.262	1
75	M23	Mx	0	1
76	M23	X	0	1
77	M23	Z	-97.262	1
78	M23	Mx	0	1
79	MP1A	X	0	2
80	MP1A	Z	-47.908	2
81	MP1A	Mx	0	2
82	MP1A	X	0	4.5
83	MP1A	Z	-47.908	4.5
84	MP1A	Mx	0	4.5
85	MP1B	X	0	2
86	MP1B	Z	-86.302	2
87	MP1B	Mx	.037	2
88	MP1B	X	0	4.5
89	MP1B	Z	-86.302	4.5
90	MP1B	Mx	.037	4.5
91	MP1C	X	0	2
92	MP1C	Z	-86.302	2
93	MP1C	Mx	-.037	2
94	MP1C	X	0	4.5
95	MP1C	Z	-86.302	4.5
96	MP1C	Mx	-.037	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
97	MP5A	X	0	2
98	MP5A	Z	-47.908	2
99	MP5A	Mx	0	2
100	MP5A	X	0	4.5
101	MP5A	Z	-47.908	4.5
102	MP5A	Mx	0	4.5
103	MP5B	X	0	2
104	MP5B	Z	-86.302	2
105	MP5B	Mx	.037	2
106	MP5B	X	0	4.5
107	MP5B	Z	-86.302	4.5
108	MP5B	Mx	.037	4.5
109	MP5C	X	0	2
110	MP5C	Z	-86.302	2
111	MP5C	Mx	-.037	2
112	MP5C	X	0	4.5
113	MP5C	Z	-86.302	4.5
114	MP5C	Mx	-.037	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	84.776	.25
2	MP3A	Z	-146.836	.25
3	MP3A	Mx	-.149	.25
4	MP3A	X	84.776	4.25
5	MP3A	Z	-146.836	4.25
6	MP3A	Mx	-.149	4.25
7	MP3B	X	67.347	.25
8	MP3B	Z	-116.648	.25
9	MP3B	Mx	.067	.25
10	MP3B	X	67.347	4.25
11	MP3B	Z	-116.648	4.25
12	MP3B	Mx	.067	4.25
13	MP3C	X	84.776	.25
14	MP3C	Z	-146.836	.25
15	MP3C	Mx	.064	.25
16	MP3C	X	84.776	4.25
17	MP3C	Z	-146.836	4.25
18	MP3C	Mx	.064	4.25
19	MP3A	X	84.776	.25
20	MP3A	Z	-146.836	.25
21	MP3A	Mx	.064	.25
22	MP3A	X	84.776	4.25
23	MP3A	Z	-146.836	4.25
24	MP3A	Mx	.064	4.25
25	MP3B	X	67.347	.25
26	MP3B	Z	-116.648	.25
27	MP3B	Mx	.067	.25
28	MP3B	X	67.347	4.25
29	MP3B	Z	-116.648	4.25
30	MP3B	Mx	.067	4.25
31	MP3C	X	84.776	.25
32	MP3C	Z	-146.836	.25
33	MP3C	Mx	-.149	.25
34	MP3C	X	84.776	4.25
35	MP3C	Z	-146.836	4.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP3C	Mx	-.149	4.25
37	MP4A	X	36.574	2.25
38	MP4A	Z	-63.348	2.25
39	MP4A	Mx	-.018	2.25
40	MP4A	X	36.574	4.25
41	MP4A	Z	-63.348	4.25
42	MP4A	Mx	-.018	4.25
43	MP4B	X	16.888	2.25
44	MP4B	Z	-29.25	2.25
45	MP4B	Mx	.017	2.25
46	MP4B	X	16.888	4.25
47	MP4B	Z	-29.25	4.25
48	MP4B	Mx	.017	4.25
49	MP4C	X	36.574	2.25
50	MP4C	Z	-63.348	2.25
51	MP4C	Mx	-.018	2.25
52	MP4C	X	36.574	4.25
53	MP4C	Z	-63.348	4.25
54	MP4C	Mx	-.018	4.25
55	MP2A	X	31.48	2.5
56	MP2A	Z	-54.525	2.5
57	MP2A	Mx	.016	2.5
58	MP2B	X	22.945	2.5
59	MP2B	Z	-39.741	2.5
60	MP2B	Mx	-.023	2.5
61	MP2C	X	31.48	2.5
62	MP2C	Z	-54.525	2.5
63	MP2C	Mx	.016	2.5
64	MP3A	X	30.39	2
65	MP3A	Z	-52.637	2
66	MP3A	Mx	.015	2
67	MP3B	X	18.585	2
68	MP3B	Z	-32.19	2
69	MP3B	Mx	-.019	2
70	MP3C	X	30.39	2
71	MP3C	Z	-52.637	2
72	MP3C	Mx	.015	2
73	M23	X	54.115	1
74	M23	Z	-93.73	1
75	M23	Mx	0	1
76	M23	X	54.115	1
77	M23	Z	-93.73	1
78	M23	Mx	0	1
79	MP1A	X	30.353	2
80	MP1A	Z	-52.573	2
81	MP1A	Mx	-.015	2
82	MP1A	X	30.353	4.5
83	MP1A	Z	-52.573	4.5
84	MP1A	Mx	-.015	4.5
85	MP1B	X	49.55	2
86	MP1B	Z	-85.823	2
87	MP1B	Mx	.05	2
88	MP1B	X	49.55	4.5
89	MP1B	Z	-85.823	4.5
90	MP1B	Mx	.05	4.5
91	MP1C	X	30.353	2
92	MP1C	Z	-52.573	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
93	MP1C	Mx	-.015	2
94	MP1C	X	30.353	4.5
95	MP1C	Z	-52.573	4.5
96	MP1C	Mx	-.015	4.5
97	MP5A	X	30.353	2
98	MP5A	Z	-52.573	2
99	MP5A	Mx	-.015	2
100	MP5A	X	30.353	4.5
101	MP5A	Z	-52.573	4.5
102	MP5A	Mx	-.015	4.5
103	MP5B	X	49.55	2
104	MP5B	Z	-85.823	2
105	MP5B	Mx	.05	2
106	MP5B	X	49.55	4.5
107	MP5B	Z	-85.823	4.5
108	MP5B	Mx	.05	4.5
109	MP5C	X	30.353	2
110	MP5C	Z	-52.573	2
111	MP5C	Mx	-.015	2
112	MP5C	X	30.353	4.5
113	MP5C	Z	-52.573	4.5
114	MP5C	Mx	-.015	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	126.711	.25
2	MP3A	Z	-73.157	.25
3	MP3A	Mx	-.116	.25
4	MP3A	X	126.711	4.25
5	MP3A	Z	-73.157	4.25
6	MP3A	Mx	-.116	4.25
7	MP3B	X	126.711	.25
8	MP3B	Z	-73.157	.25
9	MP3B	Mx	.01	.25
10	MP3B	X	126.711	4.25
11	MP3B	Z	-73.157	4.25
12	MP3B	Mx	.01	4.25
13	MP3C	X	156.899	.25
14	MP3C	Z	-90.586	.25
15	MP3C	Mx	.131	.25
16	MP3C	X	156.899	4.25
17	MP3C	Z	-90.586	4.25
18	MP3C	Mx	.131	4.25
19	MP3A	X	126.711	.25
20	MP3A	Z	-73.157	.25
21	MP3A	Mx	-.01	.25
22	MP3A	X	126.711	4.25
23	MP3A	Z	-73.157	4.25
24	MP3A	Mx	-.01	4.25
25	MP3B	X	126.711	.25
26	MP3B	Z	-73.157	.25
27	MP3B	Mx	.116	.25
28	MP3B	X	126.711	4.25
29	MP3B	Z	-73.157	4.25
30	MP3B	Mx	.116	4.25
31	MP3C	X	156.899	.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
32	MP3C	Z	-90.586	.25
33	MP3C	Mx	-.131	.25
34	MP3C	X	156.899	4.25
35	MP3C	Z	-90.586	4.25
36	MP3C	Mx	-.131	4.25
37	MP4A	X	40.616	2.25
38	MP4A	Z	-23.45	2.25
39	MP4A	Mx	-.02	2.25
40	MP4A	X	40.616	4.25
41	MP4A	Z	-23.45	4.25
42	MP4A	Mx	-.02	4.25
43	MP4B	X	40.616	2.25
44	MP4B	Z	-23.45	2.25
45	MP4B	Mx	.02	2.25
46	MP4B	X	40.616	4.25
47	MP4B	Z	-23.45	4.25
48	MP4B	Mx	.02	4.25
49	MP4C	X	74.714	2.25
50	MP4C	Z	-43.136	2.25
51	MP4C	Mx	0	2.25
52	MP4C	X	74.714	4.25
53	MP4C	Z	-43.136	4.25
54	MP4C	Mx	0	4.25
55	MP2A	X	44.669	2.5
56	MP2A	Z	-25.79	2.5
57	MP2A	Mx	.022	2.5
58	MP2B	X	44.669	2.5
59	MP2B	Z	-25.79	2.5
60	MP2B	Mx	-.022	2.5
61	MP2C	X	59.453	2.5
62	MP2C	Z	-34.325	2.5
63	MP2C	Mx	0	2.5
64	MP3A	X	39.006	2
65	MP3A	Z	-22.52	2
66	MP3A	Mx	.02	2
67	MP3B	X	39.006	2
68	MP3B	Z	-22.52	2
69	MP3B	Mx	-.02	2
70	MP3C	X	59.453	2
71	MP3C	Z	-34.325	2
72	MP3C	Mx	0	2
73	M23	X	98.479	1
74	M23	Z	-56.857	1
75	M23	Mx	0	1
76	M23	X	98.479	1
77	M23	Z	-56.857	1
78	M23	Mx	0	1
79	MP1A	X	74.74	2
80	MP1A	Z	-43.151	2
81	MP1A	Mx	-.037	2
82	MP1A	X	74.74	4.5
83	MP1A	Z	-43.151	4.5
84	MP1A	Mx	-.037	4.5
85	MP1B	X	74.74	2
86	MP1B	Z	-43.151	2
87	MP1B	Mx	.037	2
88	MP1B	X	74.74	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
89	MP1B	Z	-43.151	4.5
90	MP1B	Mx	.037	4.5
91	MP1C	X	41.49	2
92	MP1C	Z	-23.954	2
93	MP1C	Mx	0	2
94	MP1C	X	41.49	4.5
95	MP1C	Z	-23.954	4.5
96	MP1C	Mx	0	4.5
97	MP5A	X	74.74	2
98	MP5A	Z	-43.151	2
99	MP5A	Mx	-.037	2
100	MP5A	X	74.74	4.5
101	MP5A	Z	-43.151	4.5
102	MP5A	Mx	-.037	4.5
103	MP5B	X	74.74	2
104	MP5B	Z	-43.151	2
105	MP5B	Mx	.037	2
106	MP5B	X	74.74	4.5
107	MP5B	Z	-43.151	4.5
108	MP5B	Mx	.037	4.5
109	MP5C	X	41.49	2
110	MP5C	Z	-23.954	2
111	MP5C	Mx	0	2
112	MP5C	X	41.49	4.5
113	MP5C	Z	-23.954	4.5
114	MP5C	Mx	0	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	134.694	.25
2	MP3A	Z	0	.25
3	MP3A	Mx	-.067	.25
4	MP3A	X	134.694	4.25
5	MP3A	Z	0	4.25
6	MP3A	Mx	-.067	4.25
7	MP3B	X	169.552	.25
8	MP3B	Z	0	.25
9	MP3B	Mx	-.064	.25
10	MP3B	X	169.552	4.25
11	MP3B	Z	0	4.25
12	MP3B	Mx	-.064	4.25
13	MP3C	X	169.552	.25
14	MP3C	Z	0	.25
15	MP3C	Mx	.149	.25
16	MP3C	X	169.552	4.25
17	MP3C	Z	0	4.25
18	MP3C	Mx	.149	4.25
19	MP3A	X	134.694	.25
20	MP3A	Z	0	.25
21	MP3A	Mx	-.067	.25
22	MP3A	X	134.694	4.25
23	MP3A	Z	0	4.25
24	MP3A	Mx	-.067	4.25
25	MP3B	X	169.552	.25
26	MP3B	Z	0	.25
27	MP3B	Mx	.149	.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP3B	X	169.552	4.25
29	MP3B	Z	0	4.25
30	MP3B	Mx	.149	4.25
31	MP3C	X	169.552	.25
32	MP3C	Z	0	.25
33	MP3C	Mx	-.064	.25
34	MP3C	X	169.552	4.25
35	MP3C	Z	0	4.25
36	MP3C	Mx	-.064	4.25
37	MP4A	X	33.775	2.25
38	MP4A	Z	0	2.25
39	MP4A	Mx	-.017	2.25
40	MP4A	X	33.775	4.25
41	MP4A	Z	0	4.25
42	MP4A	Mx	-.017	4.25
43	MP4B	X	73.148	2.25
44	MP4B	Z	0	2.25
45	MP4B	Mx	.018	2.25
46	MP4B	X	73.148	4.25
47	MP4B	Z	0	4.25
48	MP4B	Mx	.018	4.25
49	MP4C	X	73.148	2.25
50	MP4C	Z	0	2.25
51	MP4C	Mx	.018	2.25
52	MP4C	X	73.148	4.25
53	MP4C	Z	0	4.25
54	MP4C	Mx	.018	4.25
55	MP2A	X	45.889	2.5
56	MP2A	Z	0	2.5
57	MP2A	Mx	.023	2.5
58	MP2B	X	62.96	2.5
59	MP2B	Z	0	2.5
60	MP2B	Mx	-.016	2.5
61	MP2C	X	62.96	2.5
62	MP2C	Z	0	2.5
63	MP2C	Mx	-.016	2.5
64	MP3A	X	37.17	2
65	MP3A	Z	0	2
66	MP3A	Mx	.019	2
67	MP3B	X	60.78	2
68	MP3B	Z	0	2
69	MP3B	Mx	-.015	2
70	MP3C	X	60.78	2
71	MP3C	Z	0	2
72	MP3C	Mx	-.015	2
73	M23	X	108.23	1
74	M23	Z	0	1
75	M23	Mx	0	1
76	M23	X	108.23	1
77	M23	Z	0	1
78	M23	Mx	0	1
79	MP1A	X	99.1	2
80	MP1A	Z	0	2
81	MP1A	Mx	-.05	2
82	MP1A	X	99.1	4.5
83	MP1A	Z	0	4.5
84	MP1A	Mx	-.05	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
85	MP1B	X	60.706	2
86	MP1B	Z	0	2
87	MP1B	Mx	.015	2
88	MP1B	X	60.706	4.5
89	MP1B	Z	0	4.5
90	MP1B	Mx	.015	4.5
91	MP1C	X	60.706	2
92	MP1C	Z	0	2
93	MP1C	Mx	.015	2
94	MP1C	X	60.706	4.5
95	MP1C	Z	0	4.5
96	MP1C	Mx	.015	4.5
97	MP5A	X	99.1	2
98	MP5A	Z	0	2
99	MP5A	Mx	-.05	2
100	MP5A	X	99.1	4.5
101	MP5A	Z	0	4.5
102	MP5A	Mx	-.05	4.5
103	MP5B	X	60.706	2
104	MP5B	Z	0	2
105	MP5B	Mx	.015	2
106	MP5B	X	60.706	4.5
107	MP5B	Z	0	4.5
108	MP5B	Mx	.015	4.5
109	MP5C	X	60.706	2
110	MP5C	Z	0	2
111	MP5C	Mx	.015	2
112	MP5C	X	60.706	4.5
113	MP5C	Z	0	4.5
114	MP5C	Mx	.015	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	126.711	.25
2	MP3A	Z	73.157	.25
3	MP3A	Mx	-.01	.25
4	MP3A	X	126.711	4.25
5	MP3A	Z	73.157	4.25
6	MP3A	Mx	-.01	4.25
7	MP3B	X	156.899	.25
8	MP3B	Z	90.586	.25
9	MP3B	Mx	-.131	.25
10	MP3B	X	156.899	4.25
11	MP3B	Z	90.586	4.25
12	MP3B	Mx	-.131	4.25
13	MP3C	X	126.711	.25
14	MP3C	Z	73.157	.25
15	MP3C	Mx	.116	.25
16	MP3C	X	126.711	4.25
17	MP3C	Z	73.157	4.25
18	MP3C	Mx	.116	4.25
19	MP3A	X	126.711	.25
20	MP3A	Z	73.157	.25
21	MP3A	Mx	-.116	.25
22	MP3A	X	126.711	4.25
23	MP3A	Z	73.157	4.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
24	MP3A	Mx	-.116	4.25
25	MP3B	X	156.899	.25
26	MP3B	Z	90.586	.25
27	MP3B	Mx	.131	.25
28	MP3B	X	156.899	4.25
29	MP3B	Z	90.586	4.25
30	MP3B	Mx	.131	4.25
31	MP3C	X	126.711	.25
32	MP3C	Z	73.157	.25
33	MP3C	Mx	.01	.25
34	MP3C	X	126.711	4.25
35	MP3C	Z	73.157	4.25
36	MP3C	Mx	.01	4.25
37	MP4A	X	40.616	2.25
38	MP4A	Z	23.45	2.25
39	MP4A	Mx	-.02	2.25
40	MP4A	X	40.616	4.25
41	MP4A	Z	23.45	4.25
42	MP4A	Mx	-.02	4.25
43	MP4B	X	74.714	2.25
44	MP4B	Z	43.136	2.25
45	MP4B	Mx	0	2.25
46	MP4B	X	74.714	4.25
47	MP4B	Z	43.136	4.25
48	MP4B	Mx	0	4.25
49	MP4C	X	40.616	2.25
50	MP4C	Z	23.45	2.25
51	MP4C	Mx	.02	2.25
52	MP4C	X	40.616	4.25
53	MP4C	Z	23.45	4.25
54	MP4C	Mx	.02	4.25
55	MP2A	X	44.669	2.5
56	MP2A	Z	25.79	2.5
57	MP2A	Mx	.022	2.5
58	MP2B	X	59.453	2.5
59	MP2B	Z	34.325	2.5
60	MP2B	Mx	0	2.5
61	MP2C	X	44.669	2.5
62	MP2C	Z	25.79	2.5
63	MP2C	Mx	-.022	2.5
64	MP3A	X	39.006	2
65	MP3A	Z	22.52	2
66	MP3A	Mx	.02	2
67	MP3B	X	59.453	2
68	MP3B	Z	34.325	2
69	MP3B	Mx	0	2
70	MP3C	X	39.006	2
71	MP3C	Z	22.52	2
72	MP3C	Mx	-.02	2
73	M23	X	84.232	1
74	M23	Z	48.631	1
75	M23	Mx	0	1
76	M23	X	84.232	1
77	M23	Z	48.631	1
78	M23	Mx	0	1
79	MP1A	X	74.74	2
80	MP1A	Z	43.151	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
81	MP1A	Mx	-.037	2
82	MP1A	X	74.74	4.5
83	MP1A	Z	43.151	4.5
84	MP1A	Mx	-.037	4.5
85	MP1B	X	41.49	2
86	MP1B	Z	23.954	2
87	MP1B	Mx	0	2
88	MP1B	X	41.49	4.5
89	MP1B	Z	23.954	4.5
90	MP1B	Mx	0	4.5
91	MP1C	X	74.74	2
92	MP1C	Z	43.151	2
93	MP1C	Mx	.037	2
94	MP1C	X	74.74	4.5
95	MP1C	Z	43.151	4.5
96	MP1C	Mx	.037	4.5
97	MP5A	X	74.74	2
98	MP5A	Z	43.151	2
99	MP5A	Mx	-.037	2
100	MP5A	X	74.74	4.5
101	MP5A	Z	43.151	4.5
102	MP5A	Mx	-.037	4.5
103	MP5B	X	41.49	2
104	MP5B	Z	23.954	2
105	MP5B	Mx	0	2
106	MP5B	X	41.49	4.5
107	MP5B	Z	23.954	4.5
108	MP5B	Mx	0	4.5
109	MP5C	X	74.74	2
110	MP5C	Z	43.151	2
111	MP5C	Mx	.037	2
112	MP5C	X	74.74	4.5
113	MP5C	Z	43.151	4.5
114	MP5C	Mx	.037	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	84.776	.25
2	MP3A	Z	146.836	.25
3	MP3A	Mx	.064	.25
4	MP3A	X	84.776	4.25
5	MP3A	Z	146.836	4.25
6	MP3A	Mx	.064	4.25
7	MP3B	X	84.776	.25
8	MP3B	Z	146.836	.25
9	MP3B	Mx	-.149	.25
10	MP3B	X	84.776	4.25
11	MP3B	Z	146.836	4.25
12	MP3B	Mx	-.149	4.25
13	MP3C	X	67.347	.25
14	MP3C	Z	116.648	.25
15	MP3C	Mx	.067	.25
16	MP3C	X	67.347	4.25
17	MP3C	Z	116.648	4.25
18	MP3C	Mx	.067	4.25
19	MP3A	X	84.776	.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP3A	Z	146.836	.25
21	MP3A	Mx	-.149	.25
22	MP3A	X	84.776	4.25
23	MP3A	Z	146.836	4.25
24	MP3A	Mx	-.149	4.25
25	MP3B	X	84.776	.25
26	MP3B	Z	146.836	.25
27	MP3B	Mx	.064	.25
28	MP3B	X	84.776	4.25
29	MP3B	Z	146.836	4.25
30	MP3B	Mx	.064	4.25
31	MP3C	X	67.347	.25
32	MP3C	Z	116.648	.25
33	MP3C	Mx	.067	.25
34	MP3C	X	67.347	4.25
35	MP3C	Z	116.648	4.25
36	MP3C	Mx	.067	4.25
37	MP4A	X	36.574	2.25
38	MP4A	Z	63.348	2.25
39	MP4A	Mx	-.018	2.25
40	MP4A	X	36.574	4.25
41	MP4A	Z	63.348	4.25
42	MP4A	Mx	-.018	4.25
43	MP4B	X	36.574	2.25
44	MP4B	Z	63.348	2.25
45	MP4B	Mx	-.018	2.25
46	MP4B	X	36.574	4.25
47	MP4B	Z	63.348	4.25
48	MP4B	Mx	-.018	4.25
49	MP4C	X	16.888	2.25
50	MP4C	Z	29.25	2.25
51	MP4C	Mx	.017	2.25
52	MP4C	X	16.888	4.25
53	MP4C	Z	29.25	4.25
54	MP4C	Mx	.017	4.25
55	MP2A	X	31.48	2.5
56	MP2A	Z	54.525	2.5
57	MP2A	Mx	.016	2.5
58	MP2B	X	31.48	2.5
59	MP2B	Z	54.525	2.5
60	MP2B	Mx	.016	2.5
61	MP2C	X	22.945	2.5
62	MP2C	Z	39.741	2.5
63	MP2C	Mx	-.023	2.5
64	MP3A	X	30.39	2
65	MP3A	Z	52.637	2
66	MP3A	Mx	.015	2
67	MP3B	X	30.39	2
68	MP3B	Z	52.637	2
69	MP3B	Mx	.015	2
70	MP3C	X	18.585	2
71	MP3C	Z	32.19	2
72	MP3C	Mx	-.019	2
73	M23	X	45.889	1
74	M23	Z	79.483	1
75	M23	Mx	0	1
76	M23	X	45.889	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
77	M23	Z	79.483	1
78	M23	Mx	0	1
79	MP1A	X	30.353	2
80	MP1A	Z	52.573	2
81	MP1A	Mx	-.015	2
82	MP1A	X	30.353	4.5
83	MP1A	Z	52.573	4.5
84	MP1A	Mx	-.015	4.5
85	MP1B	X	30.353	2
86	MP1B	Z	52.573	2
87	MP1B	Mx	-.015	2
88	MP1B	X	30.353	4.5
89	MP1B	Z	52.573	4.5
90	MP1B	Mx	-.015	4.5
91	MP1C	X	49.55	2
92	MP1C	Z	85.823	2
93	MP1C	Mx	.05	2
94	MP1C	X	49.55	4.5
95	MP1C	Z	85.823	4.5
96	MP1C	Mx	.05	4.5
97	MP5A	X	30.353	2
98	MP5A	Z	52.573	2
99	MP5A	Mx	-.015	2
100	MP5A	X	30.353	4.5
101	MP5A	Z	52.573	4.5
102	MP5A	Mx	-.015	4.5
103	MP5B	X	30.353	2
104	MP5B	Z	52.573	2
105	MP5B	Mx	-.015	2
106	MP5B	X	30.353	4.5
107	MP5B	Z	52.573	4.5
108	MP5B	Mx	-.015	4.5
109	MP5C	X	49.55	2
110	MP5C	Z	85.823	2
111	MP5C	Mx	.05	2
112	MP5C	X	49.55	4.5
113	MP5C	Z	85.823	4.5
114	MP5C	Mx	.05	4.5

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	181.171	.25
3	MP3A	Mx	.131	.25
4	MP3A	X	0	4.25
5	MP3A	Z	181.171	4.25
6	MP3A	Mx	.131	4.25
7	MP3B	X	0	.25
8	MP3B	Z	146.313	.25
9	MP3B	Mx	-.116	.25
10	MP3B	X	0	4.25
11	MP3B	Z	146.313	4.25
12	MP3B	Mx	-.116	4.25
13	MP3C	X	0	.25
14	MP3C	Z	146.313	.25
15	MP3C	Mx	.01	.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP3C	X	0	4.25
17	MP3C	Z	146.313	4.25
18	MP3C	Mx	.01	4.25
19	MP3A	X	0	.25
20	MP3A	Z	181.171	.25
21	MP3A	Mx	-.131	.25
22	MP3A	X	0	4.25
23	MP3A	Z	181.171	4.25
24	MP3A	Mx	-.131	4.25
25	MP3B	X	0	.25
26	MP3B	Z	146.313	.25
27	MP3B	Mx	-.01	.25
28	MP3B	X	0	4.25
29	MP3B	Z	146.313	4.25
30	MP3B	Mx	-.01	4.25
31	MP3C	X	0	.25
32	MP3C	Z	146.313	.25
33	MP3C	Mx	.116	.25
34	MP3C	X	0	4.25
35	MP3C	Z	146.313	4.25
36	MP3C	Mx	.116	4.25
37	MP4A	X	0	2.25
38	MP4A	Z	86.272	2.25
39	MP4A	Mx	0	2.25
40	MP4A	X	0	4.25
41	MP4A	Z	86.272	4.25
42	MP4A	Mx	0	4.25
43	MP4B	X	0	2.25
44	MP4B	Z	46.899	2.25
45	MP4B	Mx	-.02	2.25
46	MP4B	X	0	4.25
47	MP4B	Z	46.899	4.25
48	MP4B	Mx	-.02	4.25
49	MP4C	X	0	2.25
50	MP4C	Z	46.899	2.25
51	MP4C	Mx	.02	2.25
52	MP4C	X	0	4.25
53	MP4C	Z	46.899	4.25
54	MP4C	Mx	.02	4.25
55	MP2A	X	0	2.5
56	MP2A	Z	68.65	2.5
57	MP2A	Mx	0	2.5
58	MP2B	X	0	2.5
59	MP2B	Z	51.58	2.5
60	MP2B	Mx	.022	2.5
61	MP2C	X	0	2.5
62	MP2C	Z	51.58	2.5
63	MP2C	Mx	-.022	2.5
64	MP3A	X	0	2
65	MP3A	Z	68.65	2
66	MP3A	Mx	0	2
67	MP3B	X	0	2
68	MP3B	Z	45.04	2
69	MP3B	Mx	.02	2
70	MP3C	X	0	2
71	MP3C	Z	45.04	2
72	MP3C	Mx	-.02	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	M23	X	0	1
74	M23	Z	97.262	1
75	M23	Mx	0	1
76	M23	X	0	1
77	M23	Z	97.262	1
78	M23	Mx	0	1
79	MP1A	X	0	2
80	MP1A	Z	47.908	2
81	MP1A	Mx	0	2
82	MP1A	X	0	4.5
83	MP1A	Z	47.908	4.5
84	MP1A	Mx	0	4.5
85	MP1B	X	0	2
86	MP1B	Z	86.302	2
87	MP1B	Mx	-.037	2
88	MP1B	X	0	4.5
89	MP1B	Z	86.302	4.5
90	MP1B	Mx	-.037	4.5
91	MP1C	X	0	2
92	MP1C	Z	86.302	2
93	MP1C	Mx	.037	2
94	MP1C	X	0	4.5
95	MP1C	Z	86.302	4.5
96	MP1C	Mx	.037	4.5
97	MP5A	X	0	2
98	MP5A	Z	47.908	2
99	MP5A	Mx	0	2
100	MP5A	X	0	4.5
101	MP5A	Z	47.908	4.5
102	MP5A	Mx	0	4.5
103	MP5B	X	0	2
104	MP5B	Z	86.302	2
105	MP5B	Mx	-.037	2
106	MP5B	X	0	4.5
107	MP5B	Z	86.302	4.5
108	MP5B	Mx	-.037	4.5
109	MP5C	X	0	2
110	MP5C	Z	86.302	2
111	MP5C	Mx	.037	2
112	MP5C	X	0	4.5
113	MP5C	Z	86.302	4.5
114	MP5C	Mx	.037	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-84.776	.25
2	MP3A	Z	146.836	.25
3	MP3A	Mx	.149	.25
4	MP3A	X	-84.776	4.25
5	MP3A	Z	146.836	4.25
6	MP3A	Mx	.149	4.25
7	MP3B	X	-67.347	.25
8	MP3B	Z	116.648	.25
9	MP3B	Mx	-.067	.25
10	MP3B	X	-67.347	4.25
11	MP3B	Z	116.648	4.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP3B	Mx	-.067	4.25
13	MP3C	X	-84.776	.25
14	MP3C	Z	146.836	.25
15	MP3C	Mx	-.064	.25
16	MP3C	X	-84.776	4.25
17	MP3C	Z	146.836	4.25
18	MP3C	Mx	-.064	4.25
19	MP3A	X	-84.776	.25
20	MP3A	Z	146.836	.25
21	MP3A	Mx	-.064	.25
22	MP3A	X	-84.776	4.25
23	MP3A	Z	146.836	4.25
24	MP3A	Mx	-.064	4.25
25	MP3B	X	-67.347	.25
26	MP3B	Z	116.648	.25
27	MP3B	Mx	-.067	.25
28	MP3B	X	-67.347	4.25
29	MP3B	Z	116.648	4.25
30	MP3B	Mx	-.067	4.25
31	MP3C	X	-84.776	.25
32	MP3C	Z	146.836	.25
33	MP3C	Mx	.149	.25
34	MP3C	X	-84.776	4.25
35	MP3C	Z	146.836	4.25
36	MP3C	Mx	.149	4.25
37	MP4A	X	-36.574	2.25
38	MP4A	Z	63.348	2.25
39	MP4A	Mx	.018	2.25
40	MP4A	X	-36.574	4.25
41	MP4A	Z	63.348	4.25
42	MP4A	Mx	.018	4.25
43	MP4B	X	-16.888	2.25
44	MP4B	Z	29.25	2.25
45	MP4B	Mx	-.017	2.25
46	MP4B	X	-16.888	4.25
47	MP4B	Z	29.25	4.25
48	MP4B	Mx	-.017	4.25
49	MP4C	X	-36.574	2.25
50	MP4C	Z	63.348	2.25
51	MP4C	Mx	.018	2.25
52	MP4C	X	-36.574	4.25
53	MP4C	Z	63.348	4.25
54	MP4C	Mx	.018	4.25
55	MP2A	X	-31.48	2.5
56	MP2A	Z	54.525	2.5
57	MP2A	Mx	-.016	2.5
58	MP2B	X	-22.945	2.5
59	MP2B	Z	39.741	2.5
60	MP2B	Mx	.023	2.5
61	MP2C	X	-31.48	2.5
62	MP2C	Z	54.525	2.5
63	MP2C	Mx	-.016	2.5
64	MP3A	X	-30.39	2
65	MP3A	Z	52.637	2
66	MP3A	Mx	-.015	2
67	MP3B	X	-18.585	2
68	MP3B	Z	32.19	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP3B	Mx	.019	2
70	MP3C	X	-30.39	2
71	MP3C	Z	52.637	2
72	MP3C	Mx	-.015	2
73	M23	X	-54.115	1
74	M23	Z	93.73	1
75	M23	Mx	0	1
76	M23	X	-54.115	1
77	M23	Z	93.73	1
78	M23	Mx	0	1
79	MP1A	X	-30.353	2
80	MP1A	Z	52.573	2
81	MP1A	Mx	.015	2
82	MP1A	X	-30.353	4.5
83	MP1A	Z	52.573	4.5
84	MP1A	Mx	.015	4.5
85	MP1B	X	-49.55	2
86	MP1B	Z	85.823	2
87	MP1B	Mx	-.05	2
88	MP1B	X	-49.55	4.5
89	MP1B	Z	85.823	4.5
90	MP1B	Mx	-.05	4.5
91	MP1C	X	-30.353	2
92	MP1C	Z	52.573	2
93	MP1C	Mx	.015	2
94	MP1C	X	-30.353	4.5
95	MP1C	Z	52.573	4.5
96	MP1C	Mx	.015	4.5
97	MP5A	X	-30.353	2
98	MP5A	Z	52.573	2
99	MP5A	Mx	.015	2
100	MP5A	X	-30.353	4.5
101	MP5A	Z	52.573	4.5
102	MP5A	Mx	.015	4.5
103	MP5B	X	-49.55	2
104	MP5B	Z	85.823	2
105	MP5B	Mx	-.05	2
106	MP5B	X	-49.55	4.5
107	MP5B	Z	85.823	4.5
108	MP5B	Mx	-.05	4.5
109	MP5C	X	-30.353	2
110	MP5C	Z	52.573	2
111	MP5C	Mx	.015	2
112	MP5C	X	-30.353	4.5
113	MP5C	Z	52.573	4.5
114	MP5C	Mx	.015	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-126.711	.25
2	MP3A	Z	73.157	.25
3	MP3A	Mx	.116	.25
4	MP3A	X	-126.711	4.25
5	MP3A	Z	73.157	4.25
6	MP3A	Mx	.116	4.25
7	MP3B	X	-126.711	.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP3B	Z	73.157	.25
9	MP3B	Mx	-.01	.25
10	MP3B	X	-126.711	4.25
11	MP3B	Z	73.157	4.25
12	MP3B	Mx	-.01	4.25
13	MP3C	X	-156.899	.25
14	MP3C	Z	90.586	.25
15	MP3C	Mx	-.131	.25
16	MP3C	X	-156.899	4.25
17	MP3C	Z	90.586	4.25
18	MP3C	Mx	-.131	4.25
19	MP3A	X	-126.711	.25
20	MP3A	Z	73.157	.25
21	MP3A	Mx	.01	.25
22	MP3A	X	-126.711	4.25
23	MP3A	Z	73.157	4.25
24	MP3A	Mx	.01	4.25
25	MP3B	X	-126.711	.25
26	MP3B	Z	73.157	.25
27	MP3B	Mx	-.116	.25
28	MP3B	X	-126.711	4.25
29	MP3B	Z	73.157	4.25
30	MP3B	Mx	-.116	4.25
31	MP3C	X	-156.899	.25
32	MP3C	Z	90.586	.25
33	MP3C	Mx	.131	.25
34	MP3C	X	-156.899	4.25
35	MP3C	Z	90.586	4.25
36	MP3C	Mx	.131	4.25
37	MP4A	X	-40.616	2.25
38	MP4A	Z	23.45	2.25
39	MP4A	Mx	.02	2.25
40	MP4A	X	-40.616	4.25
41	MP4A	Z	23.45	4.25
42	MP4A	Mx	.02	4.25
43	MP4B	X	-40.616	2.25
44	MP4B	Z	23.45	2.25
45	MP4B	Mx	-.02	2.25
46	MP4B	X	-40.616	4.25
47	MP4B	Z	23.45	4.25
48	MP4B	Mx	-.02	4.25
49	MP4C	X	-74.714	2.25
50	MP4C	Z	43.136	2.25
51	MP4C	Mx	0	2.25
52	MP4C	X	-74.714	4.25
53	MP4C	Z	43.136	4.25
54	MP4C	Mx	0	4.25
55	MP2A	X	-44.669	2.5
56	MP2A	Z	25.79	2.5
57	MP2A	Mx	-.022	2.5
58	MP2B	X	-44.669	2.5
59	MP2B	Z	25.79	2.5
60	MP2B	Mx	.022	2.5
61	MP2C	X	-59.453	2.5
62	MP2C	Z	34.325	2.5
63	MP2C	Mx	0	2.5
64	MP3A	X	-39.006	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
65	MP3A	Z	22.52	2
66	MP3A	Mx	-.02	2
67	MP3B	X	-39.006	2
68	MP3B	Z	22.52	2
69	MP3B	Mx	.02	2
70	MP3C	X	-59.453	2
71	MP3C	Z	34.325	2
72	MP3C	Mx	0	2
73	M23	X	-98.479	1
74	M23	Z	56.857	1
75	M23	Mx	0	1
76	M23	X	-98.479	1
77	M23	Z	56.857	1
78	M23	Mx	0	1
79	MP1A	X	-74.74	2
80	MP1A	Z	43.151	2
81	MP1A	Mx	.037	2
82	MP1A	X	-74.74	4.5
83	MP1A	Z	43.151	4.5
84	MP1A	Mx	.037	4.5
85	MP1B	X	-74.74	2
86	MP1B	Z	43.151	2
87	MP1B	Mx	-.037	2
88	MP1B	X	-74.74	4.5
89	MP1B	Z	43.151	4.5
90	MP1B	Mx	-.037	4.5
91	MP1C	X	-41.49	2
92	MP1C	Z	23.954	2
93	MP1C	Mx	0	2
94	MP1C	X	-41.49	4.5
95	MP1C	Z	23.954	4.5
96	MP1C	Mx	0	4.5
97	MP5A	X	-74.74	2
98	MP5A	Z	43.151	2
99	MP5A	Mx	.037	2
100	MP5A	X	-74.74	4.5
101	MP5A	Z	43.151	4.5
102	MP5A	Mx	.037	4.5
103	MP5B	X	-74.74	2
104	MP5B	Z	43.151	2
105	MP5B	Mx	-.037	2
106	MP5B	X	-74.74	4.5
107	MP5B	Z	43.151	4.5
108	MP5B	Mx	-.037	4.5
109	MP5C	X	-41.49	2
110	MP5C	Z	23.954	2
111	MP5C	Mx	0	2
112	MP5C	X	-41.49	4.5
113	MP5C	Z	23.954	4.5
114	MP5C	Mx	0	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-134.694	.25
2	MP3A	Z	0	.25
3	MP3A	Mx	.067	.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP3A	X	-134.694	4.25
5	MP3A	Z	0	4.25
6	MP3A	Mx	.067	4.25
7	MP3B	X	-169.552	.25
8	MP3B	Z	0	.25
9	MP3B	Mx	.064	.25
10	MP3B	X	-169.552	4.25
11	MP3B	Z	0	4.25
12	MP3B	Mx	.064	4.25
13	MP3C	X	-169.552	.25
14	MP3C	Z	0	.25
15	MP3C	Mx	-.149	.25
16	MP3C	X	-169.552	4.25
17	MP3C	Z	0	4.25
18	MP3C	Mx	-.149	4.25
19	MP3A	X	-134.694	.25
20	MP3A	Z	0	.25
21	MP3A	Mx	.067	.25
22	MP3A	X	-134.694	4.25
23	MP3A	Z	0	4.25
24	MP3A	Mx	.067	4.25
25	MP3B	X	-169.552	.25
26	MP3B	Z	0	.25
27	MP3B	Mx	-.149	.25
28	MP3B	X	-169.552	4.25
29	MP3B	Z	0	4.25
30	MP3B	Mx	-.149	4.25
31	MP3C	X	-169.552	.25
32	MP3C	Z	0	.25
33	MP3C	Mx	.064	.25
34	MP3C	X	-169.552	4.25
35	MP3C	Z	0	4.25
36	MP3C	Mx	.064	4.25
37	MP4A	X	-33.775	2.25
38	MP4A	Z	0	2.25
39	MP4A	Mx	.017	2.25
40	MP4A	X	-33.775	4.25
41	MP4A	Z	0	4.25
42	MP4A	Mx	.017	4.25
43	MP4B	X	-73.148	2.25
44	MP4B	Z	0	2.25
45	MP4B	Mx	-.018	2.25
46	MP4B	X	-73.148	4.25
47	MP4B	Z	0	4.25
48	MP4B	Mx	-.018	4.25
49	MP4C	X	-73.148	2.25
50	MP4C	Z	0	2.25
51	MP4C	Mx	-.018	2.25
52	MP4C	X	-73.148	4.25
53	MP4C	Z	0	4.25
54	MP4C	Mx	-.018	4.25
55	MP2A	X	-45.889	2.5
56	MP2A	Z	0	2.5
57	MP2A	Mx	-.023	2.5
58	MP2B	X	-62.96	2.5
59	MP2B	Z	0	2.5
60	MP2B	Mx	.016	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
61	MP2C	X	-62.96	2.5
62	MP2C	Z	0	2.5
63	MP2C	Mx	.016	2.5
64	MP3A	X	-37.17	2
65	MP3A	Z	0	2
66	MP3A	Mx	-.019	2
67	MP3B	X	-60.78	2
68	MP3B	Z	0	2
69	MP3B	Mx	.015	2
70	MP3C	X	-60.78	2
71	MP3C	Z	0	2
72	MP3C	Mx	.015	2
73	M23	X	-108.23	1
74	M23	Z	0	1
75	M23	Mx	0	1
76	M23	X	-108.23	1
77	M23	Z	0	1
78	M23	Mx	0	1
79	MP1A	X	-99.1	2
80	MP1A	Z	0	2
81	MP1A	Mx	.05	2
82	MP1A	X	-99.1	4.5
83	MP1A	Z	0	4.5
84	MP1A	Mx	.05	4.5
85	MP1B	X	-60.706	2
86	MP1B	Z	0	2
87	MP1B	Mx	-.015	2
88	MP1B	X	-60.706	4.5
89	MP1B	Z	0	4.5
90	MP1B	Mx	-.015	4.5
91	MP1C	X	-60.706	2
92	MP1C	Z	0	2
93	MP1C	Mx	-.015	2
94	MP1C	X	-60.706	4.5
95	MP1C	Z	0	4.5
96	MP1C	Mx	-.015	4.5
97	MP5A	X	-99.1	2
98	MP5A	Z	0	2
99	MP5A	Mx	.05	2
100	MP5A	X	-99.1	4.5
101	MP5A	Z	0	4.5
102	MP5A	Mx	.05	4.5
103	MP5B	X	-60.706	2
104	MP5B	Z	0	2
105	MP5B	Mx	-.015	2
106	MP5B	X	-60.706	4.5
107	MP5B	Z	0	4.5
108	MP5B	Mx	-.015	4.5
109	MP5C	X	-60.706	2
110	MP5C	Z	0	2
111	MP5C	Mx	-.015	2
112	MP5C	X	-60.706	4.5
113	MP5C	Z	0	4.5
114	MP5C	Mx	-.015	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-126.711	.25
2	MP3A	Z	-73.157	.25
3	MP3A	Mx	.01	.25
4	MP3A	X	-126.711	4.25
5	MP3A	Z	-73.157	4.25
6	MP3A	Mx	.01	4.25
7	MP3B	X	-156.899	.25
8	MP3B	Z	-90.586	.25
9	MP3B	Mx	.131	.25
10	MP3B	X	-156.899	4.25
11	MP3B	Z	-90.586	4.25
12	MP3B	Mx	.131	4.25
13	MP3C	X	-126.711	.25
14	MP3C	Z	-73.157	.25
15	MP3C	Mx	-.116	.25
16	MP3C	X	-126.711	4.25
17	MP3C	Z	-73.157	4.25
18	MP3C	Mx	-.116	4.25
19	MP3A	X	-126.711	.25
20	MP3A	Z	-73.157	.25
21	MP3A	Mx	.116	.25
22	MP3A	X	-126.711	4.25
23	MP3A	Z	-73.157	4.25
24	MP3A	Mx	.116	4.25
25	MP3B	X	-156.899	.25
26	MP3B	Z	-90.586	.25
27	MP3B	Mx	-.131	.25
28	MP3B	X	-156.899	4.25
29	MP3B	Z	-90.586	4.25
30	MP3B	Mx	-.131	4.25
31	MP3C	X	-126.711	.25
32	MP3C	Z	-73.157	.25
33	MP3C	Mx	-.01	.25
34	MP3C	X	-126.711	4.25
35	MP3C	Z	-73.157	4.25
36	MP3C	Mx	-.01	4.25
37	MP4A	X	-40.616	2.25
38	MP4A	Z	-23.45	2.25
39	MP4A	Mx	.02	2.25
40	MP4A	X	-40.616	4.25
41	MP4A	Z	-23.45	4.25
42	MP4A	Mx	.02	4.25
43	MP4B	X	-74.714	2.25
44	MP4B	Z	-43.136	2.25
45	MP4B	Mx	0	2.25
46	MP4B	X	-74.714	4.25
47	MP4B	Z	-43.136	4.25
48	MP4B	Mx	0	4.25
49	MP4C	X	-40.616	2.25
50	MP4C	Z	-23.45	2.25
51	MP4C	Mx	-.02	2.25
52	MP4C	X	-40.616	4.25
53	MP4C	Z	-23.45	4.25
54	MP4C	Mx	-.02	4.25
55	MP2A	X	-44.669	2.5
56	MP2A	Z	-25.79	2.5
57	MP2A	Mx	-.022	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	-59.453	2.5
59	MP2B	Z	-34.325	2.5
60	MP2B	Mx	0	2.5
61	MP2C	X	-44.669	2.5
62	MP2C	Z	-25.79	2.5
63	MP2C	Mx	.022	2.5
64	MP3A	X	-39.006	2
65	MP3A	Z	-22.52	2
66	MP3A	Mx	-.02	2
67	MP3B	X	-59.453	2
68	MP3B	Z	-34.325	2
69	MP3B	Mx	0	2
70	MP3C	X	-39.006	2
71	MP3C	Z	-22.52	2
72	MP3C	Mx	.02	2
73	M23	X	-84.232	1
74	M23	Z	-48.631	1
75	M23	Mx	0	1
76	M23	X	-84.232	1
77	M23	Z	-48.631	1
78	M23	Mx	0	1
79	MP1A	X	-74.74	2
80	MP1A	Z	-43.151	2
81	MP1A	Mx	.037	2
82	MP1A	X	-74.74	4.5
83	MP1A	Z	-43.151	4.5
84	MP1A	Mx	.037	4.5
85	MP1B	X	-41.49	2
86	MP1B	Z	-23.954	2
87	MP1B	Mx	0	2
88	MP1B	X	-41.49	4.5
89	MP1B	Z	-23.954	4.5
90	MP1B	Mx	0	4.5
91	MP1C	X	-74.74	2
92	MP1C	Z	-43.151	2
93	MP1C	Mx	-.037	2
94	MP1C	X	-74.74	4.5
95	MP1C	Z	-43.151	4.5
96	MP1C	Mx	-.037	4.5
97	MP5A	X	-74.74	2
98	MP5A	Z	-43.151	2
99	MP5A	Mx	.037	2
100	MP5A	X	-74.74	4.5
101	MP5A	Z	-43.151	4.5
102	MP5A	Mx	.037	4.5
103	MP5B	X	-41.49	2
104	MP5B	Z	-23.954	2
105	MP5B	Mx	0	2
106	MP5B	X	-41.49	4.5
107	MP5B	Z	-23.954	4.5
108	MP5B	Mx	0	4.5
109	MP5C	X	-74.74	2
110	MP5C	Z	-43.151	2
111	MP5C	Mx	-.037	2
112	MP5C	X	-74.74	4.5
113	MP5C	Z	-43.151	4.5
114	MP5C	Mx	-.037	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-84.776	.25
2	MP3A	Z	-146.836	.25
3	MP3A	Mx	-.064	.25
4	MP3A	X	-84.776	4.25
5	MP3A	Z	-146.836	4.25
6	MP3A	Mx	-.064	4.25
7	MP3B	X	-84.776	.25
8	MP3B	Z	-146.836	.25
9	MP3B	Mx	.149	.25
10	MP3B	X	-84.776	4.25
11	MP3B	Z	-146.836	4.25
12	MP3B	Mx	.149	4.25
13	MP3C	X	-67.347	.25
14	MP3C	Z	-116.648	.25
15	MP3C	Mx	-.067	.25
16	MP3C	X	-67.347	4.25
17	MP3C	Z	-116.648	4.25
18	MP3C	Mx	-.067	4.25
19	MP3A	X	-84.776	.25
20	MP3A	Z	-146.836	.25
21	MP3A	Mx	.149	.25
22	MP3A	X	-84.776	4.25
23	MP3A	Z	-146.836	4.25
24	MP3A	Mx	.149	4.25
25	MP3B	X	-84.776	.25
26	MP3B	Z	-146.836	.25
27	MP3B	Mx	-.064	.25
28	MP3B	X	-84.776	4.25
29	MP3B	Z	-146.836	4.25
30	MP3B	Mx	-.064	4.25
31	MP3C	X	-67.347	.25
32	MP3C	Z	-116.648	.25
33	MP3C	Mx	-.067	.25
34	MP3C	X	-67.347	4.25
35	MP3C	Z	-116.648	4.25
36	MP3C	Mx	-.067	4.25
37	MP4A	X	-36.574	2.25
38	MP4A	Z	-63.348	2.25
39	MP4A	Mx	.018	2.25
40	MP4A	X	-36.574	4.25
41	MP4A	Z	-63.348	4.25
42	MP4A	Mx	.018	4.25
43	MP4B	X	-36.574	2.25
44	MP4B	Z	-63.348	2.25
45	MP4B	Mx	.018	2.25
46	MP4B	X	-36.574	4.25
47	MP4B	Z	-63.348	4.25
48	MP4B	Mx	.018	4.25
49	MP4C	X	-16.888	2.25
50	MP4C	Z	-29.25	2.25
51	MP4C	Mx	-.017	2.25
52	MP4C	X	-16.888	4.25
53	MP4C	Z	-29.25	4.25
54	MP4C	Mx	-.017	4.25
55	MP2A	X	-31.48	2.5
56	MP2A	Z	-54.525	2.5
57	MP2A	Mx	-.016	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	-31.48	2.5
59	MP2B	Z	-54.525	2.5
60	MP2B	Mx	-.016	2.5
61	MP2C	X	-22.945	2.5
62	MP2C	Z	-39.741	2.5
63	MP2C	Mx	.023	2.5
64	MP3A	X	-30.39	2
65	MP3A	Z	-52.637	2
66	MP3A	Mx	-.015	2
67	MP3B	X	-30.39	2
68	MP3B	Z	-52.637	2
69	MP3B	Mx	-.015	2
70	MP3C	X	-18.585	2
71	MP3C	Z	-32.19	2
72	MP3C	Mx	.019	2
73	M23	X	-45.889	1
74	M23	Z	-79.483	1
75	M23	Mx	0	1
76	M23	X	-45.889	1
77	M23	Z	-79.483	1
78	M23	Mx	0	1
79	MP1A	X	-30.353	2
80	MP1A	Z	-52.573	2
81	MP1A	Mx	.015	2
82	MP1A	X	-30.353	4.5
83	MP1A	Z	-52.573	4.5
84	MP1A	Mx	.015	4.5
85	MP1B	X	-30.353	2
86	MP1B	Z	-52.573	2
87	MP1B	Mx	.015	2
88	MP1B	X	-30.353	4.5
89	MP1B	Z	-52.573	4.5
90	MP1B	Mx	.015	4.5
91	MP1C	X	-49.55	2
92	MP1C	Z	-85.823	2
93	MP1C	Mx	-.05	2
94	MP1C	X	-49.55	4.5
95	MP1C	Z	-85.823	4.5
96	MP1C	Mx	-.05	4.5
97	MP5A	X	-30.353	2
98	MP5A	Z	-52.573	2
99	MP5A	Mx	.015	2
100	MP5A	X	-30.353	4.5
101	MP5A	Z	-52.573	4.5
102	MP5A	Mx	.015	4.5
103	MP5B	X	-30.353	2
104	MP5B	Z	-52.573	2
105	MP5B	Mx	.015	2
106	MP5B	X	-30.353	4.5
107	MP5B	Z	-52.573	4.5
108	MP5B	Mx	.015	4.5
109	MP5C	X	-49.55	2
110	MP5C	Z	-85.823	2
111	MP5C	Mx	-.05	2
112	MP5C	X	-49.55	4.5
113	MP5C	Z	-85.823	4.5
114	MP5C	Mx	-.05	4.5

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	-33.812	.25
3	MP3A	Mx	-.025	.25
4	MP3A	X	0	4.25
5	MP3A	Z	-33.812	4.25
6	MP3A	Mx	-.025	4.25
7	MP3B	X	0	.25
8	MP3B	Z	-27.646	.25
9	MP3B	Mx	.022	.25
10	MP3B	X	0	4.25
11	MP3B	Z	-27.646	4.25
12	MP3B	Mx	.022	4.25
13	MP3C	X	0	.25
14	MP3C	Z	-27.646	.25
15	MP3C	Mx	-.002	.25
16	MP3C	X	0	4.25
17	MP3C	Z	-27.646	4.25
18	MP3C	Mx	-.002	4.25
19	MP3A	X	0	.25
20	MP3A	Z	-33.812	.25
21	MP3A	Mx	.025	.25
22	MP3A	X	0	4.25
23	MP3A	Z	-33.812	4.25
24	MP3A	Mx	.025	4.25
25	MP3B	X	0	.25
26	MP3B	Z	-27.646	.25
27	MP3B	Mx	.002	.25
28	MP3B	X	0	4.25
29	MP3B	Z	-27.646	4.25
30	MP3B	Mx	.002	4.25
31	MP3C	X	0	.25
32	MP3C	Z	-27.646	.25
33	MP3C	Mx	-.022	.25
34	MP3C	X	0	4.25
35	MP3C	Z	-27.646	4.25
36	MP3C	Mx	-.022	4.25
37	MP4A	X	0	2.25
38	MP4A	Z	-16.694	2.25
39	MP4A	Mx	0	2.25
40	MP4A	X	0	4.25
41	MP4A	Z	-16.694	4.25
42	MP4A	Mx	0	4.25
43	MP4B	X	0	2.25
44	MP4B	Z	-9.519	2.25
45	MP4B	Mx	.004	2.25
46	MP4B	X	0	4.25
47	MP4B	Z	-9.519	4.25
48	MP4B	Mx	.004	4.25
49	MP4C	X	0	2.25
50	MP4C	Z	-9.519	2.25
51	MP4C	Mx	-.004	2.25
52	MP4C	X	0	4.25
53	MP4C	Z	-9.519	4.25
54	MP4C	Mx	-.004	4.25
55	MP2A	X	0	2.5
56	MP2A	Z	-14.091	2.5
57	MP2A	Mx	0	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	0	2.5
59	MP2B	Z	-10.882	2.5
60	MP2B	Mx	-.005	2.5
61	MP2C	X	0	2.5
62	MP2C	Z	-10.882	2.5
63	MP2C	Mx	.005	2.5
64	MP3A	X	0	2
65	MP3A	Z	-14.091	2
66	MP3A	Mx	0	2
67	MP3B	X	0	2
68	MP3B	Z	-9.662	2
69	MP3B	Mx	-.004	2
70	MP3C	X	0	2
71	MP3C	Z	-9.662	2
72	MP3C	Mx	.004	2
73	M23	X	0	1
74	M23	Z	-27.347	1
75	M23	Mx	0	1
76	M23	X	0	1
77	M23	Z	-27.347	1
78	M23	Mx	0	1
79	MP1A	X	0	2
80	MP1A	Z	-9.963	2
81	MP1A	Mx	0	2
82	MP1A	X	0	4.5
83	MP1A	Z	-9.963	4.5
84	MP1A	Mx	0	4.5
85	MP1B	X	0	2
86	MP1B	Z	-16.741	2
87	MP1B	Mx	.007	2
88	MP1B	X	0	4.5
89	MP1B	Z	-16.741	4.5
90	MP1B	Mx	.007	4.5
91	MP1C	X	0	2
92	MP1C	Z	-16.741	2
93	MP1C	Mx	-.007	2
94	MP1C	X	0	4.5
95	MP1C	Z	-16.741	4.5
96	MP1C	Mx	-.007	4.5
97	MP5A	X	0	2
98	MP5A	Z	-9.963	2
99	MP5A	Mx	0	2
100	MP5A	X	0	4.5
101	MP5A	Z	-9.963	4.5
102	MP5A	Mx	0	4.5
103	MP5B	X	0	2
104	MP5B	Z	-16.741	2
105	MP5B	Mx	.007	2
106	MP5B	X	0	4.5
107	MP5B	Z	-16.741	4.5
108	MP5B	Mx	.007	4.5
109	MP5C	X	0	2
110	MP5C	Z	-16.741	2
111	MP5C	Mx	-.007	2
112	MP5C	X	0	4.5
113	MP5C	Z	-16.741	4.5
114	MP5C	Mx	-.007	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	15.878	.25
2	MP3A	Z	-27.502	.25
3	MP3A	Mx	-.028	.25
4	MP3A	X	15.878	4.25
5	MP3A	Z	-27.502	4.25
6	MP3A	Mx	-.028	4.25
7	MP3B	X	12.796	.25
8	MP3B	Z	-22.163	.25
9	MP3B	Mx	.013	.25
10	MP3B	X	12.796	4.25
11	MP3B	Z	-22.163	4.25
12	MP3B	Mx	.013	4.25
13	MP3C	X	15.878	.25
14	MP3C	Z	-27.502	.25
15	MP3C	Mx	.012	.25
16	MP3C	X	15.878	4.25
17	MP3C	Z	-27.502	4.25
18	MP3C	Mx	.012	4.25
19	MP3A	X	15.878	.25
20	MP3A	Z	-27.502	.25
21	MP3A	Mx	.012	.25
22	MP3A	X	15.878	4.25
23	MP3A	Z	-27.502	4.25
24	MP3A	Mx	.012	4.25
25	MP3B	X	12.796	.25
26	MP3B	Z	-22.163	.25
27	MP3B	Mx	.013	.25
28	MP3B	X	12.796	4.25
29	MP3B	Z	-22.163	4.25
30	MP3B	Mx	.013	4.25
31	MP3C	X	15.878	.25
32	MP3C	Z	-27.502	.25
33	MP3C	Mx	-.028	.25
34	MP3C	X	15.878	4.25
35	MP3C	Z	-27.502	4.25
36	MP3C	Mx	-.028	4.25
37	MP4A	X	7.151	2.25
38	MP4A	Z	-12.386	2.25
39	MP4A	Mx	-.004	2.25
40	MP4A	X	7.151	4.25
41	MP4A	Z	-12.386	4.25
42	MP4A	Mx	-.004	4.25
43	MP4B	X	3.564	2.25
44	MP4B	Z	-6.173	2.25
45	MP4B	Mx	.004	2.25
46	MP4B	X	3.564	4.25
47	MP4B	Z	-6.173	4.25
48	MP4B	Mx	.004	4.25
49	MP4C	X	7.151	2.25
50	MP4C	Z	-12.386	2.25
51	MP4C	Mx	-.004	2.25
52	MP4C	X	7.151	4.25
53	MP4C	Z	-12.386	4.25
54	MP4C	Mx	-.004	4.25
55	MP2A	X	6.511	2.5
56	MP2A	Z	-11.277	2.5
57	MP2A	Mx	.003	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	4.906	2.5
59	MP2B	Z	-8.498	2.5
60	MP2B	Mx	-.005	2.5
61	MP2C	X	6.511	2.5
62	MP2C	Z	-11.277	2.5
63	MP2C	Mx	.003	2.5
64	MP3A	X	6.307	2
65	MP3A	Z	-10.925	2
66	MP3A	Mx	.003	2
67	MP3B	X	4.093	2
68	MP3B	Z	-7.089	2
69	MP3B	Mx	-.004	2
70	MP3C	X	6.307	2
71	MP3C	Z	-10.925	2
72	MP3C	Mx	.003	2
73	M23	X	12.101	1
74	M23	Z	-20.959	1
75	M23	Mx	0	1
76	M23	X	12.101	1
77	M23	Z	-20.959	1
78	M23	Mx	0	1
79	MP1A	X	6.111	2
80	MP1A	Z	-10.585	2
81	MP1A	Mx	-.003	2
82	MP1A	X	6.111	4.5
83	MP1A	Z	-10.585	4.5
84	MP1A	Mx	-.003	4.5
85	MP1B	X	9.5	2
86	MP1B	Z	-16.455	2
87	MP1B	Mx	.009	2
88	MP1B	X	9.5	4.5
89	MP1B	Z	-16.455	4.5
90	MP1B	Mx	.009	4.5
91	MP1C	X	6.111	2
92	MP1C	Z	-10.585	2
93	MP1C	Mx	-.003	2
94	MP1C	X	6.111	4.5
95	MP1C	Z	-10.585	4.5
96	MP1C	Mx	-.003	4.5
97	MP5A	X	6.111	2
98	MP5A	Z	-10.585	2
99	MP5A	Mx	-.003	2
100	MP5A	X	6.111	4.5
101	MP5A	Z	-10.585	4.5
102	MP5A	Mx	-.003	4.5
103	MP5B	X	9.5	2
104	MP5B	Z	-16.455	2
105	MP5B	Mx	.009	2
106	MP5B	X	9.5	4.5
107	MP5B	Z	-16.455	4.5
108	MP5B	Mx	.009	4.5
109	MP5C	X	6.111	2
110	MP5C	Z	-10.585	2
111	MP5C	Mx	-.003	2
112	MP5C	X	6.111	4.5
113	MP5C	Z	-10.585	4.5
114	MP5C	Mx	-.003	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	23.942	.25
2	MP3A	Z	-13.823	.25
3	MP3A	Mx	-.022	.25
4	MP3A	X	23.942	4.25
5	MP3A	Z	-13.823	4.25
6	MP3A	Mx	-.022	4.25
7	MP3B	X	23.942	.25
8	MP3B	Z	-13.823	.25
9	MP3B	Mx	.002	.25
10	MP3B	X	23.942	4.25
11	MP3B	Z	-13.823	4.25
12	MP3B	Mx	.002	4.25
13	MP3C	X	29.282	.25
14	MP3C	Z	-16.906	.25
15	MP3C	Mx	.025	.25
16	MP3C	X	29.282	4.25
17	MP3C	Z	-16.906	4.25
18	MP3C	Mx	.025	4.25
19	MP3A	X	23.942	.25
20	MP3A	Z	-13.823	.25
21	MP3A	Mx	-.002	.25
22	MP3A	X	23.942	4.25
23	MP3A	Z	-13.823	4.25
24	MP3A	Mx	-.002	4.25
25	MP3B	X	23.942	.25
26	MP3B	Z	-13.823	.25
27	MP3B	Mx	.022	.25
28	MP3B	X	23.942	4.25
29	MP3B	Z	-13.823	4.25
30	MP3B	Mx	.022	4.25
31	MP3C	X	29.282	.25
32	MP3C	Z	-16.906	.25
33	MP3C	Mx	-.025	.25
34	MP3C	X	29.282	4.25
35	MP3C	Z	-16.906	4.25
36	MP3C	Mx	-.025	4.25
37	MP4A	X	8.244	2.25
38	MP4A	Z	-4.76	2.25
39	MP4A	Mx	-.004	2.25
40	MP4A	X	8.244	4.25
41	MP4A	Z	-4.76	4.25
42	MP4A	Mx	-.004	4.25
43	MP4B	X	8.244	2.25
44	MP4B	Z	-4.76	2.25
45	MP4B	Mx	.004	2.25
46	MP4B	X	8.244	4.25
47	MP4B	Z	-4.76	4.25
48	MP4B	Mx	.004	4.25
49	MP4C	X	14.458	2.25
50	MP4C	Z	-8.347	2.25
51	MP4C	Mx	0	2.25
52	MP4C	X	14.458	4.25
53	MP4C	Z	-8.347	4.25
54	MP4C	Mx	0	4.25
55	MP2A	X	9.424	2.5
56	MP2A	Z	-5.441	2.5
57	MP2A	Mx	.005	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	9.424	2.5
59	MP2B	Z	-5.441	2.5
60	MP2B	Mx	-.005	2.5
61	MP2C	X	12.203	2.5
62	MP2C	Z	-7.046	2.5
63	MP2C	Mx	0	2.5
64	MP3A	X	8.368	2
65	MP3A	Z	-4.831	2
66	MP3A	Mx	.004	2
67	MP3B	X	8.368	2
68	MP3B	Z	-4.831	2
69	MP3B	Mx	-.004	2
70	MP3C	X	12.203	2
71	MP3C	Z	-7.046	2
72	MP3C	Mx	0	2
73	M23	X	19.597	1
74	M23	Z	-11.314	1
75	M23	Mx	0	1
76	M23	X	19.597	1
77	M23	Z	-11.314	1
78	M23	Mx	0	1
79	MP1A	X	14.498	2
80	MP1A	Z	-8.371	2
81	MP1A	Mx	-.007	2
82	MP1A	X	14.498	4.5
83	MP1A	Z	-8.371	4.5
84	MP1A	Mx	-.007	4.5
85	MP1B	X	14.498	2
86	MP1B	Z	-8.371	2
87	MP1B	Mx	.007	2
88	MP1B	X	14.498	4.5
89	MP1B	Z	-8.371	4.5
90	MP1B	Mx	.007	4.5
91	MP1C	X	8.628	2
92	MP1C	Z	-4.981	2
93	MP1C	Mx	0	2
94	MP1C	X	8.628	4.5
95	MP1C	Z	-4.981	4.5
96	MP1C	Mx	0	4.5
97	MP5A	X	14.498	2
98	MP5A	Z	-8.371	2
99	MP5A	Mx	-.007	2
100	MP5A	X	14.498	4.5
101	MP5A	Z	-8.371	4.5
102	MP5A	Mx	-.007	4.5
103	MP5B	X	14.498	2
104	MP5B	Z	-8.371	2
105	MP5B	Mx	.007	2
106	MP5B	X	14.498	4.5
107	MP5B	Z	-8.371	4.5
108	MP5B	Mx	.007	4.5
109	MP5C	X	8.628	2
110	MP5C	Z	-4.981	2
111	MP5C	Mx	0	2
112	MP5C	X	8.628	4.5
113	MP5C	Z	-4.981	4.5
114	MP5C	Mx	0	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	25.591	.25
2	MP3A	Z	0	.25
3	MP3A	Mx	-.013	.25
4	MP3A	X	25.591	4.25
5	MP3A	Z	0	4.25
6	MP3A	Mx	-.013	4.25
7	MP3B	X	31.756	.25
8	MP3B	Z	0	.25
9	MP3B	Mx	-.012	.25
10	MP3B	X	31.756	4.25
11	MP3B	Z	0	4.25
12	MP3B	Mx	-.012	4.25
13	MP3C	X	31.756	.25
14	MP3C	Z	0	.25
15	MP3C	Mx	.028	.25
16	MP3C	X	31.756	4.25
17	MP3C	Z	0	4.25
18	MP3C	Mx	.028	4.25
19	MP3A	X	25.591	.25
20	MP3A	Z	0	.25
21	MP3A	Mx	-.013	.25
22	MP3A	X	25.591	4.25
23	MP3A	Z	0	4.25
24	MP3A	Mx	-.013	4.25
25	MP3B	X	31.756	.25
26	MP3B	Z	0	.25
27	MP3B	Mx	.028	.25
28	MP3B	X	31.756	4.25
29	MP3B	Z	0	4.25
30	MP3B	Mx	.028	4.25
31	MP3C	X	31.756	.25
32	MP3C	Z	0	.25
33	MP3C	Mx	-.012	.25
34	MP3C	X	31.756	4.25
35	MP3C	Z	0	4.25
36	MP3C	Mx	-.012	4.25
37	MP4A	X	7.127	2.25
38	MP4A	Z	0	2.25
39	MP4A	Mx	-.004	2.25
40	MP4A	X	7.127	4.25
41	MP4A	Z	0	4.25
42	MP4A	Mx	-.004	4.25
43	MP4B	X	14.303	2.25
44	MP4B	Z	0	2.25
45	MP4B	Mx	.004	2.25
46	MP4B	X	14.303	4.25
47	MP4B	Z	0	4.25
48	MP4B	Mx	.004	4.25
49	MP4C	X	14.303	2.25
50	MP4C	Z	0	2.25
51	MP4C	Mx	.004	2.25
52	MP4C	X	14.303	4.25
53	MP4C	Z	0	4.25
54	MP4C	Mx	.004	4.25
55	MP2A	X	9.812	2.5
56	MP2A	Z	0	2.5
57	MP2A	Mx	.005	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	13.021	2.5
59	MP2B	Z	0	2.5
60	MP2B	Mx	-.003	2.5
61	MP2C	X	13.021	2.5
62	MP2C	Z	0	2.5
63	MP2C	Mx	-.003	2.5
64	MP3A	X	8.186	2
65	MP3A	Z	0	2
66	MP3A	Mx	.004	2
67	MP3B	X	12.615	2
68	MP3B	Z	0	2
69	MP3B	Mx	-.003	2
70	MP3C	X	12.615	2
71	MP3C	Z	0	2
72	MP3C	Mx	-.003	2
73	M23	X	24.201	1
74	M23	Z	0	1
75	M23	Mx	0	1
76	M23	X	24.201	1
77	M23	Z	0	1
78	M23	Mx	0	1
79	MP1A	X	19.001	2
80	MP1A	Z	0	2
81	MP1A	Mx	-.009	2
82	MP1A	X	19.001	4.5
83	MP1A	Z	0	4.5
84	MP1A	Mx	-.009	4.5
85	MP1B	X	12.222	2
86	MP1B	Z	0	2
87	MP1B	Mx	.003	2
88	MP1B	X	12.222	4.5
89	MP1B	Z	0	4.5
90	MP1B	Mx	.003	4.5
91	MP1C	X	12.222	2
92	MP1C	Z	0	2
93	MP1C	Mx	.003	2
94	MP1C	X	12.222	4.5
95	MP1C	Z	0	4.5
96	MP1C	Mx	.003	4.5
97	MP5A	X	19.001	2
98	MP5A	Z	0	2
99	MP5A	Mx	-.009	2
100	MP5A	X	19.001	4.5
101	MP5A	Z	0	4.5
102	MP5A	Mx	-.009	4.5
103	MP5B	X	12.222	2
104	MP5B	Z	0	2
105	MP5B	Mx	.003	2
106	MP5B	X	12.222	4.5
107	MP5B	Z	0	4.5
108	MP5B	Mx	.003	4.5
109	MP5C	X	12.222	2
110	MP5C	Z	0	2
111	MP5C	Mx	.003	2
112	MP5C	X	12.222	4.5
113	MP5C	Z	0	4.5
114	MP5C	Mx	.003	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	23.942	.25
2	MP3A	Z	13.823	.25
3	MP3A	Mx	-.002	.25
4	MP3A	X	23.942	4.25
5	MP3A	Z	13.823	4.25
6	MP3A	Mx	-.002	4.25
7	MP3B	X	29.282	.25
8	MP3B	Z	16.906	.25
9	MP3B	Mx	-.025	.25
10	MP3B	X	29.282	4.25
11	MP3B	Z	16.906	4.25
12	MP3B	Mx	-.025	4.25
13	MP3C	X	23.942	.25
14	MP3C	Z	13.823	.25
15	MP3C	Mx	.022	.25
16	MP3C	X	23.942	4.25
17	MP3C	Z	13.823	4.25
18	MP3C	Mx	.022	4.25
19	MP3A	X	23.942	.25
20	MP3A	Z	13.823	.25
21	MP3A	Mx	-.022	.25
22	MP3A	X	23.942	4.25
23	MP3A	Z	13.823	4.25
24	MP3A	Mx	-.022	4.25
25	MP3B	X	29.282	.25
26	MP3B	Z	16.906	.25
27	MP3B	Mx	.025	.25
28	MP3B	X	29.282	4.25
29	MP3B	Z	16.906	4.25
30	MP3B	Mx	.025	4.25
31	MP3C	X	23.942	.25
32	MP3C	Z	13.823	.25
33	MP3C	Mx	.002	.25
34	MP3C	X	23.942	4.25
35	MP3C	Z	13.823	4.25
36	MP3C	Mx	.002	4.25
37	MP4A	X	8.244	2.25
38	MP4A	Z	4.76	2.25
39	MP4A	Mx	-.004	2.25
40	MP4A	X	8.244	4.25
41	MP4A	Z	4.76	4.25
42	MP4A	Mx	-.004	4.25
43	MP4B	X	14.458	2.25
44	MP4B	Z	8.347	2.25
45	MP4B	Mx	0	2.25
46	MP4B	X	14.458	4.25
47	MP4B	Z	8.347	4.25
48	MP4B	Mx	0	4.25
49	MP4C	X	8.244	2.25
50	MP4C	Z	4.76	2.25
51	MP4C	Mx	.004	2.25
52	MP4C	X	8.244	4.25
53	MP4C	Z	4.76	4.25
54	MP4C	Mx	.004	4.25
55	MP2A	X	9.424	2.5
56	MP2A	Z	5.441	2.5
57	MP2A	Mx	.005	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	12.203	2.5
59	MP2B	Z	7.046	2.5
60	MP2B	Mx	0	2.5
61	MP2C	X	9.424	2.5
62	MP2C	Z	5.441	2.5
63	MP2C	Mx	-.005	2.5
64	MP3A	X	8.368	2
65	MP3A	Z	4.831	2
66	MP3A	Mx	.004	2
67	MP3B	X	12.203	2
68	MP3B	Z	7.046	2
69	MP3B	Mx	0	2
70	MP3C	X	8.368	2
71	MP3C	Z	4.831	2
72	MP3C	Mx	-.004	2
73	M23	X	23.683	1
74	M23	Z	13.674	1
75	M23	Mx	0	1
76	M23	X	23.683	1
77	M23	Z	13.674	1
78	M23	Mx	0	1
79	MP1A	X	14.498	2
80	MP1A	Z	8.371	2
81	MP1A	Mx	-.007	2
82	MP1A	X	14.498	4.5
83	MP1A	Z	8.371	4.5
84	MP1A	Mx	-.007	4.5
85	MP1B	X	8.628	2
86	MP1B	Z	4.981	2
87	MP1B	Mx	0	2
88	MP1B	X	8.628	4.5
89	MP1B	Z	4.981	4.5
90	MP1B	Mx	0	4.5
91	MP1C	X	14.498	2
92	MP1C	Z	8.371	2
93	MP1C	Mx	.007	2
94	MP1C	X	14.498	4.5
95	MP1C	Z	8.371	4.5
96	MP1C	Mx	.007	4.5
97	MP5A	X	14.498	2
98	MP5A	Z	8.371	2
99	MP5A	Mx	-.007	2
100	MP5A	X	14.498	4.5
101	MP5A	Z	8.371	4.5
102	MP5A	Mx	-.007	4.5
103	MP5B	X	8.628	2
104	MP5B	Z	4.981	2
105	MP5B	Mx	0	2
106	MP5B	X	8.628	4.5
107	MP5B	Z	4.981	4.5
108	MP5B	Mx	0	4.5
109	MP5C	X	14.498	2
110	MP5C	Z	8.371	2
111	MP5C	Mx	.007	2
112	MP5C	X	14.498	4.5
113	MP5C	Z	8.371	4.5
114	MP5C	Mx	.007	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	15.878	.25
2	MP3A	Z	27.502	.25
3	MP3A	Mx	.012	.25
4	MP3A	X	15.878	4.25
5	MP3A	Z	27.502	4.25
6	MP3A	Mx	.012	4.25
7	MP3B	X	15.878	.25
8	MP3B	Z	27.502	.25
9	MP3B	Mx	-.028	.25
10	MP3B	X	15.878	4.25
11	MP3B	Z	27.502	4.25
12	MP3B	Mx	-.028	4.25
13	MP3C	X	12.796	.25
14	MP3C	Z	22.163	.25
15	MP3C	Mx	.013	.25
16	MP3C	X	12.796	4.25
17	MP3C	Z	22.163	4.25
18	MP3C	Mx	.013	4.25
19	MP3A	X	15.878	.25
20	MP3A	Z	27.502	.25
21	MP3A	Mx	-.028	.25
22	MP3A	X	15.878	4.25
23	MP3A	Z	27.502	4.25
24	MP3A	Mx	-.028	4.25
25	MP3B	X	15.878	.25
26	MP3B	Z	27.502	.25
27	MP3B	Mx	.012	.25
28	MP3B	X	15.878	4.25
29	MP3B	Z	27.502	4.25
30	MP3B	Mx	.012	4.25
31	MP3C	X	12.796	.25
32	MP3C	Z	22.163	.25
33	MP3C	Mx	.013	.25
34	MP3C	X	12.796	4.25
35	MP3C	Z	22.163	4.25
36	MP3C	Mx	.013	4.25
37	MP4A	X	7.151	2.25
38	MP4A	Z	12.386	2.25
39	MP4A	Mx	-.004	2.25
40	MP4A	X	7.151	4.25
41	MP4A	Z	12.386	4.25
42	MP4A	Mx	-.004	4.25
43	MP4B	X	7.151	2.25
44	MP4B	Z	12.386	2.25
45	MP4B	Mx	-.004	2.25
46	MP4B	X	7.151	4.25
47	MP4B	Z	12.386	4.25
48	MP4B	Mx	-.004	4.25
49	MP4C	X	3.564	2.25
50	MP4C	Z	6.173	2.25
51	MP4C	Mx	.004	2.25
52	MP4C	X	3.564	4.25
53	MP4C	Z	6.173	4.25
54	MP4C	Mx	.004	4.25
55	MP2A	X	6.511	2.5
56	MP2A	Z	11.277	2.5
57	MP2A	Mx	.003	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	6.511	2.5
59	MP2B	Z	11.277	2.5
60	MP2B	Mx	.003	2.5
61	MP2C	X	4.906	2.5
62	MP2C	Z	8.498	2.5
63	MP2C	Mx	-.005	2.5
64	MP3A	X	6.307	2
65	MP3A	Z	10.925	2
66	MP3A	Mx	.003	2
67	MP3B	X	6.307	2
68	MP3B	Z	10.925	2
69	MP3B	Mx	.003	2
70	MP3C	X	4.093	2
71	MP3C	Z	7.089	2
72	MP3C	Mx	-.004	2
73	M23	X	14.46	1
74	M23	Z	25.045	1
75	M23	Mx	0	1
76	M23	X	14.46	1
77	M23	Z	25.045	1
78	M23	Mx	0	1
79	MP1A	X	6.111	2
80	MP1A	Z	10.585	2
81	MP1A	Mx	-.003	2
82	MP1A	X	6.111	4.5
83	MP1A	Z	10.585	4.5
84	MP1A	Mx	-.003	4.5
85	MP1B	X	6.111	2
86	MP1B	Z	10.585	2
87	MP1B	Mx	-.003	2
88	MP1B	X	6.111	4.5
89	MP1B	Z	10.585	4.5
90	MP1B	Mx	-.003	4.5
91	MP1C	X	9.5	2
92	MP1C	Z	16.455	2
93	MP1C	Mx	.009	2
94	MP1C	X	9.5	4.5
95	MP1C	Z	16.455	4.5
96	MP1C	Mx	.009	4.5
97	MP5A	X	6.111	2
98	MP5A	Z	10.585	2
99	MP5A	Mx	-.003	2
100	MP5A	X	6.111	4.5
101	MP5A	Z	10.585	4.5
102	MP5A	Mx	-.003	4.5
103	MP5B	X	6.111	2
104	MP5B	Z	10.585	2
105	MP5B	Mx	-.003	2
106	MP5B	X	6.111	4.5
107	MP5B	Z	10.585	4.5
108	MP5B	Mx	-.003	4.5
109	MP5C	X	9.5	2
110	MP5C	Z	16.455	2
111	MP5C	Mx	.009	2
112	MP5C	X	9.5	4.5
113	MP5C	Z	16.455	4.5
114	MP5C	Mx	.009	4.5

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	33.812	.25
3	MP3A	Mx	.025	.25
4	MP3A	X	0	4.25
5	MP3A	Z	33.812	4.25
6	MP3A	Mx	.025	4.25
7	MP3B	X	0	.25
8	MP3B	Z	27.646	.25
9	MP3B	Mx	-.022	.25
10	MP3B	X	0	4.25
11	MP3B	Z	27.646	4.25
12	MP3B	Mx	-.022	4.25
13	MP3C	X	0	.25
14	MP3C	Z	27.646	.25
15	MP3C	Mx	.002	.25
16	MP3C	X	0	4.25
17	MP3C	Z	27.646	4.25
18	MP3C	Mx	.002	4.25
19	MP3A	X	0	.25
20	MP3A	Z	33.812	.25
21	MP3A	Mx	-.025	.25
22	MP3A	X	0	4.25
23	MP3A	Z	33.812	4.25
24	MP3A	Mx	-.025	4.25
25	MP3B	X	0	.25
26	MP3B	Z	27.646	.25
27	MP3B	Mx	-.002	.25
28	MP3B	X	0	4.25
29	MP3B	Z	27.646	4.25
30	MP3B	Mx	-.002	4.25
31	MP3C	X	0	.25
32	MP3C	Z	27.646	.25
33	MP3C	Mx	.022	.25
34	MP3C	X	0	4.25
35	MP3C	Z	27.646	4.25
36	MP3C	Mx	.022	4.25
37	MP4A	X	0	2.25
38	MP4A	Z	16.694	2.25
39	MP4A	Mx	0	2.25
40	MP4A	X	0	4.25
41	MP4A	Z	16.694	4.25
42	MP4A	Mx	0	4.25
43	MP4B	X	0	2.25
44	MP4B	Z	9.519	2.25
45	MP4B	Mx	-.004	2.25
46	MP4B	X	0	4.25
47	MP4B	Z	9.519	4.25
48	MP4B	Mx	-.004	4.25
49	MP4C	X	0	2.25
50	MP4C	Z	9.519	2.25
51	MP4C	Mx	.004	2.25
52	MP4C	X	0	4.25
53	MP4C	Z	9.519	4.25
54	MP4C	Mx	.004	4.25
55	MP2A	X	0	2.5
56	MP2A	Z	14.091	2.5
57	MP2A	Mx	0	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	0	2.5
59	MP2B	Z	10.882	2.5
60	MP2B	Mx	.005	2.5
61	MP2C	X	0	2.5
62	MP2C	Z	10.882	2.5
63	MP2C	Mx	-.005	2.5
64	MP3A	X	0	2
65	MP3A	Z	14.091	2
66	MP3A	Mx	0	2
67	MP3B	X	0	2
68	MP3B	Z	9.662	2
69	MP3B	Mx	.004	2
70	MP3C	X	0	2
71	MP3C	Z	9.662	2
72	MP3C	Mx	-.004	2
73	M23	X	0	1
74	M23	Z	27.347	1
75	M23	Mx	0	1
76	M23	X	0	1
77	M23	Z	27.347	1
78	M23	Mx	0	1
79	MP1A	X	0	2
80	MP1A	Z	9.963	2
81	MP1A	Mx	0	2
82	MP1A	X	0	4.5
83	MP1A	Z	9.963	4.5
84	MP1A	Mx	0	4.5
85	MP1B	X	0	2
86	MP1B	Z	16.741	2
87	MP1B	Mx	-.007	2
88	MP1B	X	0	4.5
89	MP1B	Z	16.741	4.5
90	MP1B	Mx	-.007	4.5
91	MP1C	X	0	2
92	MP1C	Z	16.741	2
93	MP1C	Mx	.007	2
94	MP1C	X	0	4.5
95	MP1C	Z	16.741	4.5
96	MP1C	Mx	.007	4.5
97	MP5A	X	0	2
98	MP5A	Z	9.963	2
99	MP5A	Mx	0	2
100	MP5A	X	0	4.5
101	MP5A	Z	9.963	4.5
102	MP5A	Mx	0	4.5
103	MP5B	X	0	2
104	MP5B	Z	16.741	2
105	MP5B	Mx	-.007	2
106	MP5B	X	0	4.5
107	MP5B	Z	16.741	4.5
108	MP5B	Mx	-.007	4.5
109	MP5C	X	0	2
110	MP5C	Z	16.741	2
111	MP5C	Mx	.007	2
112	MP5C	X	0	4.5
113	MP5C	Z	16.741	4.5
114	MP5C	Mx	.007	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-15.878	.25
2	MP3A	Z	27.502	.25
3	MP3A	Mx	.028	.25
4	MP3A	X	-15.878	4.25
5	MP3A	Z	27.502	4.25
6	MP3A	Mx	.028	4.25
7	MP3B	X	-12.796	.25
8	MP3B	Z	22.163	.25
9	MP3B	Mx	-.013	.25
10	MP3B	X	-12.796	4.25
11	MP3B	Z	22.163	4.25
12	MP3B	Mx	-.013	4.25
13	MP3C	X	-15.878	.25
14	MP3C	Z	27.502	.25
15	MP3C	Mx	-.012	.25
16	MP3C	X	-15.878	4.25
17	MP3C	Z	27.502	4.25
18	MP3C	Mx	-.012	4.25
19	MP3A	X	-15.878	.25
20	MP3A	Z	27.502	.25
21	MP3A	Mx	-.012	.25
22	MP3A	X	-15.878	4.25
23	MP3A	Z	27.502	4.25
24	MP3A	Mx	-.012	4.25
25	MP3B	X	-12.796	.25
26	MP3B	Z	22.163	.25
27	MP3B	Mx	-.013	.25
28	MP3B	X	-12.796	4.25
29	MP3B	Z	22.163	4.25
30	MP3B	Mx	-.013	4.25
31	MP3C	X	-15.878	.25
32	MP3C	Z	27.502	.25
33	MP3C	Mx	.028	.25
34	MP3C	X	-15.878	4.25
35	MP3C	Z	27.502	4.25
36	MP3C	Mx	.028	4.25
37	MP4A	X	-7.151	2.25
38	MP4A	Z	12.386	2.25
39	MP4A	Mx	.004	2.25
40	MP4A	X	-7.151	4.25
41	MP4A	Z	12.386	4.25
42	MP4A	Mx	.004	4.25
43	MP4B	X	-3.564	2.25
44	MP4B	Z	6.173	2.25
45	MP4B	Mx	-.004	2.25
46	MP4B	X	-3.564	4.25
47	MP4B	Z	6.173	4.25
48	MP4B	Mx	-.004	4.25
49	MP4C	X	-7.151	2.25
50	MP4C	Z	12.386	2.25
51	MP4C	Mx	.004	2.25
52	MP4C	X	-7.151	4.25
53	MP4C	Z	12.386	4.25
54	MP4C	Mx	.004	4.25
55	MP2A	X	-6.511	2.5
56	MP2A	Z	11.277	2.5
57	MP2A	Mx	-.003	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	-4.906	2.5
59	MP2B	Z	8.498	2.5
60	MP2B	Mx	.005	2.5
61	MP2C	X	-6.511	2.5
62	MP2C	Z	11.277	2.5
63	MP2C	Mx	-.003	2.5
64	MP3A	X	-6.307	2
65	MP3A	Z	10.925	2
66	MP3A	Mx	-.003	2
67	MP3B	X	-4.093	2
68	MP3B	Z	7.089	2
69	MP3B	Mx	.004	2
70	MP3C	X	-6.307	2
71	MP3C	Z	10.925	2
72	MP3C	Mx	-.003	2
73	M23	X	-12.101	1
74	M23	Z	20.959	1
75	M23	Mx	0	1
76	M23	X	-12.101	1
77	M23	Z	20.959	1
78	M23	Mx	0	1
79	MP1A	X	-6.111	2
80	MP1A	Z	10.585	2
81	MP1A	Mx	.003	2
82	MP1A	X	-6.111	4.5
83	MP1A	Z	10.585	4.5
84	MP1A	Mx	.003	4.5
85	MP1B	X	-9.5	2
86	MP1B	Z	16.455	2
87	MP1B	Mx	-.009	2
88	MP1B	X	-9.5	4.5
89	MP1B	Z	16.455	4.5
90	MP1B	Mx	-.009	4.5
91	MP1C	X	-6.111	2
92	MP1C	Z	10.585	2
93	MP1C	Mx	.003	2
94	MP1C	X	-6.111	4.5
95	MP1C	Z	10.585	4.5
96	MP1C	Mx	.003	4.5
97	MP5A	X	-6.111	2
98	MP5A	Z	10.585	2
99	MP5A	Mx	.003	2
100	MP5A	X	-6.111	4.5
101	MP5A	Z	10.585	4.5
102	MP5A	Mx	.003	4.5
103	MP5B	X	-9.5	2
104	MP5B	Z	16.455	2
105	MP5B	Mx	-.009	2
106	MP5B	X	-9.5	4.5
107	MP5B	Z	16.455	4.5
108	MP5B	Mx	-.009	4.5
109	MP5C	X	-6.111	2
110	MP5C	Z	10.585	2
111	MP5C	Mx	.003	2
112	MP5C	X	-6.111	4.5
113	MP5C	Z	10.585	4.5
114	MP5C	Mx	.003	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-23.942	.25
2	MP3A	Z	13.823	.25
3	MP3A	Mx	.022	.25
4	MP3A	X	-23.942	4.25
5	MP3A	Z	13.823	4.25
6	MP3A	Mx	.022	4.25
7	MP3B	X	-23.942	.25
8	MP3B	Z	13.823	.25
9	MP3B	Mx	-.002	.25
10	MP3B	X	-23.942	4.25
11	MP3B	Z	13.823	4.25
12	MP3B	Mx	-.002	4.25
13	MP3C	X	-29.282	.25
14	MP3C	Z	16.906	.25
15	MP3C	Mx	-.025	.25
16	MP3C	X	-29.282	4.25
17	MP3C	Z	16.906	4.25
18	MP3C	Mx	-.025	4.25
19	MP3A	X	-23.942	.25
20	MP3A	Z	13.823	.25
21	MP3A	Mx	.002	.25
22	MP3A	X	-23.942	4.25
23	MP3A	Z	13.823	4.25
24	MP3A	Mx	.002	4.25
25	MP3B	X	-23.942	.25
26	MP3B	Z	13.823	.25
27	MP3B	Mx	-.022	.25
28	MP3B	X	-23.942	4.25
29	MP3B	Z	13.823	4.25
30	MP3B	Mx	-.022	4.25
31	MP3C	X	-29.282	.25
32	MP3C	Z	16.906	.25
33	MP3C	Mx	.025	.25
34	MP3C	X	-29.282	4.25
35	MP3C	Z	16.906	4.25
36	MP3C	Mx	.025	4.25
37	MP4A	X	-8.244	2.25
38	MP4A	Z	4.76	2.25
39	MP4A	Mx	.004	2.25
40	MP4A	X	-8.244	4.25
41	MP4A	Z	4.76	4.25
42	MP4A	Mx	.004	4.25
43	MP4B	X	-8.244	2.25
44	MP4B	Z	4.76	2.25
45	MP4B	Mx	-.004	2.25
46	MP4B	X	-8.244	4.25
47	MP4B	Z	4.76	4.25
48	MP4B	Mx	-.004	4.25
49	MP4C	X	-14.458	2.25
50	MP4C	Z	8.347	2.25
51	MP4C	Mx	0	2.25
52	MP4C	X	-14.458	4.25
53	MP4C	Z	8.347	4.25
54	MP4C	Mx	0	4.25
55	MP2A	X	-9.424	2.5
56	MP2A	Z	5.441	2.5
57	MP2A	Mx	-.005	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	-9.424	2.5
59	MP2B	Z	5.441	2.5
60	MP2B	Mx	.005	2.5
61	MP2C	X	-12.203	2.5
62	MP2C	Z	7.046	2.5
63	MP2C	Mx	0	2.5
64	MP3A	X	-8.368	2
65	MP3A	Z	4.831	2
66	MP3A	Mx	-.004	2
67	MP3B	X	-8.368	2
68	MP3B	Z	4.831	2
69	MP3B	Mx	.004	2
70	MP3C	X	-12.203	2
71	MP3C	Z	7.046	2
72	MP3C	Mx	0	2
73	M23	X	-19.597	1
74	M23	Z	11.314	1
75	M23	Mx	0	1
76	M23	X	-19.597	1
77	M23	Z	11.314	1
78	M23	Mx	0	1
79	MP1A	X	-14.498	2
80	MP1A	Z	8.371	2
81	MP1A	Mx	.007	2
82	MP1A	X	-14.498	4.5
83	MP1A	Z	8.371	4.5
84	MP1A	Mx	.007	4.5
85	MP1B	X	-14.498	2
86	MP1B	Z	8.371	2
87	MP1B	Mx	-.007	2
88	MP1B	X	-14.498	4.5
89	MP1B	Z	8.371	4.5
90	MP1B	Mx	-.007	4.5
91	MP1C	X	-8.628	2
92	MP1C	Z	4.981	2
93	MP1C	Mx	0	2
94	MP1C	X	-8.628	4.5
95	MP1C	Z	4.981	4.5
96	MP1C	Mx	0	4.5
97	MP5A	X	-14.498	2
98	MP5A	Z	8.371	2
99	MP5A	Mx	.007	2
100	MP5A	X	-14.498	4.5
101	MP5A	Z	8.371	4.5
102	MP5A	Mx	.007	4.5
103	MP5B	X	-14.498	2
104	MP5B	Z	8.371	2
105	MP5B	Mx	-.007	2
106	MP5B	X	-14.498	4.5
107	MP5B	Z	8.371	4.5
108	MP5B	Mx	-.007	4.5
109	MP5C	X	-8.628	2
110	MP5C	Z	4.981	2
111	MP5C	Mx	0	2
112	MP5C	X	-8.628	4.5
113	MP5C	Z	4.981	4.5
114	MP5C	Mx	0	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-25.591	.25
2	MP3A	Z	0	.25
3	MP3A	Mx	.013	.25
4	MP3A	X	-25.591	4.25
5	MP3A	Z	0	4.25
6	MP3A	Mx	.013	4.25
7	MP3B	X	-31.756	.25
8	MP3B	Z	0	.25
9	MP3B	Mx	.012	.25
10	MP3B	X	-31.756	4.25
11	MP3B	Z	0	4.25
12	MP3B	Mx	.012	4.25
13	MP3C	X	-31.756	.25
14	MP3C	Z	0	.25
15	MP3C	Mx	-.028	.25
16	MP3C	X	-31.756	4.25
17	MP3C	Z	0	4.25
18	MP3C	Mx	-.028	4.25
19	MP3A	X	-25.591	.25
20	MP3A	Z	0	.25
21	MP3A	Mx	.013	.25
22	MP3A	X	-25.591	4.25
23	MP3A	Z	0	4.25
24	MP3A	Mx	.013	4.25
25	MP3B	X	-31.756	.25
26	MP3B	Z	0	.25
27	MP3B	Mx	-.028	.25
28	MP3B	X	-31.756	4.25
29	MP3B	Z	0	4.25
30	MP3B	Mx	-.028	4.25
31	MP3C	X	-31.756	.25
32	MP3C	Z	0	.25
33	MP3C	Mx	.012	.25
34	MP3C	X	-31.756	4.25
35	MP3C	Z	0	4.25
36	MP3C	Mx	.012	4.25
37	MP4A	X	-7.127	2.25
38	MP4A	Z	0	2.25
39	MP4A	Mx	.004	2.25
40	MP4A	X	-7.127	4.25
41	MP4A	Z	0	4.25
42	MP4A	Mx	.004	4.25
43	MP4B	X	-14.303	2.25
44	MP4B	Z	0	2.25
45	MP4B	Mx	-.004	2.25
46	MP4B	X	-14.303	4.25
47	MP4B	Z	0	4.25
48	MP4B	Mx	-.004	4.25
49	MP4C	X	-14.303	2.25
50	MP4C	Z	0	2.25
51	MP4C	Mx	-.004	2.25
52	MP4C	X	-14.303	4.25
53	MP4C	Z	0	4.25
54	MP4C	Mx	-.004	4.25
55	MP2A	X	-9.812	2.5
56	MP2A	Z	0	2.5
57	MP2A	Mx	-.005	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	-13.021	2.5
59	MP2B	Z	0	2.5
60	MP2B	Mx	.003	2.5
61	MP2C	X	-13.021	2.5
62	MP2C	Z	0	2.5
63	MP2C	Mx	.003	2.5
64	MP3A	X	-8.186	2
65	MP3A	Z	0	2
66	MP3A	Mx	-.004	2
67	MP3B	X	-12.615	2
68	MP3B	Z	0	2
69	MP3B	Mx	.003	2
70	MP3C	X	-12.615	2
71	MP3C	Z	0	2
72	MP3C	Mx	.003	2
73	M23	X	-24.201	1
74	M23	Z	0	1
75	M23	Mx	0	1
76	M23	X	-24.201	1
77	M23	Z	0	1
78	M23	Mx	0	1
79	MP1A	X	-19.001	2
80	MP1A	Z	0	2
81	MP1A	Mx	.009	2
82	MP1A	X	-19.001	4.5
83	MP1A	Z	0	4.5
84	MP1A	Mx	.009	4.5
85	MP1B	X	-12.222	2
86	MP1B	Z	0	2
87	MP1B	Mx	-.003	2
88	MP1B	X	-12.222	4.5
89	MP1B	Z	0	4.5
90	MP1B	Mx	-.003	4.5
91	MP1C	X	-12.222	2
92	MP1C	Z	0	2
93	MP1C	Mx	-.003	2
94	MP1C	X	-12.222	4.5
95	MP1C	Z	0	4.5
96	MP1C	Mx	-.003	4.5
97	MP5A	X	-19.001	2
98	MP5A	Z	0	2
99	MP5A	Mx	.009	2
100	MP5A	X	-19.001	4.5
101	MP5A	Z	0	4.5
102	MP5A	Mx	.009	4.5
103	MP5B	X	-12.222	2
104	MP5B	Z	0	2
105	MP5B	Mx	-.003	2
106	MP5B	X	-12.222	4.5
107	MP5B	Z	0	4.5
108	MP5B	Mx	-.003	4.5
109	MP5C	X	-12.222	2
110	MP5C	Z	0	2
111	MP5C	Mx	-.003	2
112	MP5C	X	-12.222	4.5
113	MP5C	Z	0	4.5
114	MP5C	Mx	-.003	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-23.942	.25
2	MP3A	Z	-13.823	.25
3	MP3A	Mx	.002	.25
4	MP3A	X	-23.942	4.25
5	MP3A	Z	-13.823	4.25
6	MP3A	Mx	.002	4.25
7	MP3B	X	-29.282	.25
8	MP3B	Z	-16.906	.25
9	MP3B	Mx	.025	.25
10	MP3B	X	-29.282	4.25
11	MP3B	Z	-16.906	4.25
12	MP3B	Mx	.025	4.25
13	MP3C	X	-23.942	.25
14	MP3C	Z	-13.823	.25
15	MP3C	Mx	-.022	.25
16	MP3C	X	-23.942	4.25
17	MP3C	Z	-13.823	4.25
18	MP3C	Mx	-.022	4.25
19	MP3A	X	-23.942	.25
20	MP3A	Z	-13.823	.25
21	MP3A	Mx	.022	.25
22	MP3A	X	-23.942	4.25
23	MP3A	Z	-13.823	4.25
24	MP3A	Mx	.022	4.25
25	MP3B	X	-29.282	.25
26	MP3B	Z	-16.906	.25
27	MP3B	Mx	-.025	.25
28	MP3B	X	-29.282	4.25
29	MP3B	Z	-16.906	4.25
30	MP3B	Mx	-.025	4.25
31	MP3C	X	-23.942	.25
32	MP3C	Z	-13.823	.25
33	MP3C	Mx	-.002	.25
34	MP3C	X	-23.942	4.25
35	MP3C	Z	-13.823	4.25
36	MP3C	Mx	-.002	4.25
37	MP4A	X	-8.244	2.25
38	MP4A	Z	-4.76	2.25
39	MP4A	Mx	.004	2.25
40	MP4A	X	-8.244	4.25
41	MP4A	Z	-4.76	4.25
42	MP4A	Mx	.004	4.25
43	MP4B	X	-14.458	2.25
44	MP4B	Z	-8.347	2.25
45	MP4B	Mx	0	2.25
46	MP4B	X	-14.458	4.25
47	MP4B	Z	-8.347	4.25
48	MP4B	Mx	0	4.25
49	MP4C	X	-8.244	2.25
50	MP4C	Z	-4.76	2.25
51	MP4C	Mx	-.004	2.25
52	MP4C	X	-8.244	4.25
53	MP4C	Z	-4.76	4.25
54	MP4C	Mx	-.004	4.25
55	MP2A	X	-9.424	2.5
56	MP2A	Z	-5.441	2.5
57	MP2A	Mx	-.005	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	-12.203	2.5
59	MP2B	Z	-7.046	2.5
60	MP2B	Mx	0	2.5
61	MP2C	X	-9.424	2.5
62	MP2C	Z	-5.441	2.5
63	MP2C	Mx	.005	2.5
64	MP3A	X	-8.368	2
65	MP3A	Z	-4.831	2
66	MP3A	Mx	-.004	2
67	MP3B	X	-12.203	2
68	MP3B	Z	-7.046	2
69	MP3B	Mx	0	2
70	MP3C	X	-8.368	2
71	MP3C	Z	-4.831	2
72	MP3C	Mx	.004	2
73	M23	X	-23.683	1
74	M23	Z	-13.674	1
75	M23	Mx	0	1
76	M23	X	-23.683	1
77	M23	Z	-13.674	1
78	M23	Mx	0	1
79	MP1A	X	-14.498	2
80	MP1A	Z	-8.371	2
81	MP1A	Mx	.007	2
82	MP1A	X	-14.498	4.5
83	MP1A	Z	-8.371	4.5
84	MP1A	Mx	.007	4.5
85	MP1B	X	-8.628	2
86	MP1B	Z	-4.981	2
87	MP1B	Mx	0	2
88	MP1B	X	-8.628	4.5
89	MP1B	Z	-4.981	4.5
90	MP1B	Mx	0	4.5
91	MP1C	X	-14.498	2
92	MP1C	Z	-8.371	2
93	MP1C	Mx	-.007	2
94	MP1C	X	-14.498	4.5
95	MP1C	Z	-8.371	4.5
96	MP1C	Mx	-.007	4.5
97	MP5A	X	-14.498	2
98	MP5A	Z	-8.371	2
99	MP5A	Mx	.007	2
100	MP5A	X	-14.498	4.5
101	MP5A	Z	-8.371	4.5
102	MP5A	Mx	.007	4.5
103	MP5B	X	-8.628	2
104	MP5B	Z	-4.981	2
105	MP5B	Mx	0	2
106	MP5B	X	-8.628	4.5
107	MP5B	Z	-4.981	4.5
108	MP5B	Mx	0	4.5
109	MP5C	X	-14.498	2
110	MP5C	Z	-8.371	2
111	MP5C	Mx	-.007	2
112	MP5C	X	-14.498	4.5
113	MP5C	Z	-8.371	4.5
114	MP5C	Mx	-.007	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-15.878	.25
2	MP3A	Z	-27.502	.25
3	MP3A	Mx	-.012	.25
4	MP3A	X	-15.878	4.25
5	MP3A	Z	-27.502	4.25
6	MP3A	Mx	-.012	4.25
7	MP3B	X	-15.878	.25
8	MP3B	Z	-27.502	.25
9	MP3B	Mx	.028	.25
10	MP3B	X	-15.878	4.25
11	MP3B	Z	-27.502	4.25
12	MP3B	Mx	.028	4.25
13	MP3C	X	-12.796	.25
14	MP3C	Z	-22.163	.25
15	MP3C	Mx	-.013	.25
16	MP3C	X	-12.796	4.25
17	MP3C	Z	-22.163	4.25
18	MP3C	Mx	-.013	4.25
19	MP3A	X	-15.878	.25
20	MP3A	Z	-27.502	.25
21	MP3A	Mx	.028	.25
22	MP3A	X	-15.878	4.25
23	MP3A	Z	-27.502	4.25
24	MP3A	Mx	.028	4.25
25	MP3B	X	-15.878	.25
26	MP3B	Z	-27.502	.25
27	MP3B	Mx	-.012	.25
28	MP3B	X	-15.878	4.25
29	MP3B	Z	-27.502	4.25
30	MP3B	Mx	-.012	4.25
31	MP3C	X	-12.796	.25
32	MP3C	Z	-22.163	.25
33	MP3C	Mx	-.013	.25
34	MP3C	X	-12.796	4.25
35	MP3C	Z	-22.163	4.25
36	MP3C	Mx	-.013	4.25
37	MP4A	X	-7.151	2.25
38	MP4A	Z	-12.386	2.25
39	MP4A	Mx	.004	2.25
40	MP4A	X	-7.151	4.25
41	MP4A	Z	-12.386	4.25
42	MP4A	Mx	.004	4.25
43	MP4B	X	-7.151	2.25
44	MP4B	Z	-12.386	2.25
45	MP4B	Mx	.004	2.25
46	MP4B	X	-7.151	4.25
47	MP4B	Z	-12.386	4.25
48	MP4B	Mx	.004	4.25
49	MP4C	X	-3.564	2.25
50	MP4C	Z	-6.173	2.25
51	MP4C	Mx	-.004	2.25
52	MP4C	X	-3.564	4.25
53	MP4C	Z	-6.173	4.25
54	MP4C	Mx	-.004	4.25
55	MP2A	X	-6.511	2.5
56	MP2A	Z	-11.277	2.5
57	MP2A	Mx	-.003	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	-6.511	2.5
59	MP2B	Z	-11.277	2.5
60	MP2B	Mx	-.003	2.5
61	MP2C	X	-4.906	2.5
62	MP2C	Z	-8.498	2.5
63	MP2C	Mx	.005	2.5
64	MP3A	X	-6.307	2
65	MP3A	Z	-10.925	2
66	MP3A	Mx	-.003	2
67	MP3B	X	-6.307	2
68	MP3B	Z	-10.925	2
69	MP3B	Mx	-.003	2
70	MP3C	X	-4.093	2
71	MP3C	Z	-7.089	2
72	MP3C	Mx	.004	2
73	M23	X	-14.46	1
74	M23	Z	-25.045	1
75	M23	Mx	0	1
76	M23	X	-14.46	1
77	M23	Z	-25.045	1
78	M23	Mx	0	1
79	MP1A	X	-6.111	2
80	MP1A	Z	-10.585	2
81	MP1A	Mx	.003	2
82	MP1A	X	-6.111	4.5
83	MP1A	Z	-10.585	4.5
84	MP1A	Mx	.003	4.5
85	MP1B	X	-6.111	2
86	MP1B	Z	-10.585	2
87	MP1B	Mx	.003	2
88	MP1B	X	-6.111	4.5
89	MP1B	Z	-10.585	4.5
90	MP1B	Mx	.003	4.5
91	MP1C	X	-9.5	2
92	MP1C	Z	-16.455	2
93	MP1C	Mx	-.009	2
94	MP1C	X	-9.5	4.5
95	MP1C	Z	-16.455	4.5
96	MP1C	Mx	-.009	4.5
97	MP5A	X	-6.111	2
98	MP5A	Z	-10.585	2
99	MP5A	Mx	.003	2
100	MP5A	X	-6.111	4.5
101	MP5A	Z	-10.585	4.5
102	MP5A	Mx	.003	4.5
103	MP5B	X	-6.111	2
104	MP5B	Z	-10.585	2
105	MP5B	Mx	.003	2
106	MP5B	X	-6.111	4.5
107	MP5B	Z	-10.585	4.5
108	MP5B	Mx	.003	4.5
109	MP5C	X	-9.5	2
110	MP5C	Z	-16.455	2
111	MP5C	Mx	-.009	2
112	MP5C	X	-9.5	4.5
113	MP5C	Z	-16.455	4.5
114	MP5C	Mx	-.009	4.5

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	-11.137	.25
3	MP3A	Mx	-.008	.25
4	MP3A	X	0	4.25
5	MP3A	Z	-11.137	4.25
6	MP3A	Mx	-.008	4.25
7	MP3B	X	0	.25
8	MP3B	Z	-8.994	.25
9	MP3B	Mx	.007	.25
10	MP3B	X	0	4.25
11	MP3B	Z	-8.994	4.25
12	MP3B	Mx	.007	4.25
13	MP3C	X	0	.25
14	MP3C	Z	-8.994	.25
15	MP3C	Mx	-.000634	.25
16	MP3C	X	0	4.25
17	MP3C	Z	-8.994	4.25
18	MP3C	Mx	-.000634	4.25
19	MP3A	X	0	.25
20	MP3A	Z	-11.137	.25
21	MP3A	Mx	.008	.25
22	MP3A	X	0	4.25
23	MP3A	Z	-11.137	4.25
24	MP3A	Mx	.008	4.25
25	MP3B	X	0	.25
26	MP3B	Z	-8.994	.25
27	MP3B	Mx	.000634	.25
28	MP3B	X	0	4.25
29	MP3B	Z	-8.994	4.25
30	MP3B	Mx	.000634	4.25
31	MP3C	X	0	.25
32	MP3C	Z	-8.994	.25
33	MP3C	Mx	-.007	.25
34	MP3C	X	0	4.25
35	MP3C	Z	-8.994	4.25
36	MP3C	Mx	-.007	4.25
37	MP4A	X	0	2.25
38	MP4A	Z	-5.303	2.25
39	MP4A	Mx	0	2.25
40	MP4A	X	0	4.25
41	MP4A	Z	-5.303	4.25
42	MP4A	Mx	0	4.25
43	MP4B	X	0	2.25
44	MP4B	Z	-2.883	2.25
45	MP4B	Mx	.001	2.25
46	MP4B	X	0	4.25
47	MP4B	Z	-2.883	4.25
48	MP4B	Mx	.001	4.25
49	MP4C	X	0	2.25
50	MP4C	Z	-2.883	2.25
51	MP4C	Mx	-.001	2.25
52	MP4C	X	0	4.25
53	MP4C	Z	-2.883	4.25
54	MP4C	Mx	-.001	4.25
55	MP2A	X	0	2.5
56	MP2A	Z	-4.22	2.5
57	MP2A	Mx	0	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	0	2.5
59	MP2B	Z	-3.171	2.5
60	MP2B	Mx	-.001	2.5
61	MP2C	X	0	2.5
62	MP2C	Z	-3.171	2.5
63	MP2C	Mx	.001	2.5
64	MP3A	X	0	2
65	MP3A	Z	-4.22	2
66	MP3A	Mx	0	2
67	MP3B	X	0	2
68	MP3B	Z	-2.769	2
69	MP3B	Mx	-.001	2
70	MP3C	X	0	2
71	MP3C	Z	-2.769	2
72	MP3C	Mx	.001	2
73	M23	X	0	1
74	M23	Z	-5.979	1
75	M23	Mx	0	1
76	M23	X	0	1
77	M23	Z	-5.979	1
78	M23	Mx	0	1
79	MP1A	X	0	2
80	MP1A	Z	-2.945	2
81	MP1A	Mx	0	2
82	MP1A	X	0	4.5
83	MP1A	Z	-2.945	4.5
84	MP1A	Mx	0	4.5
85	MP1B	X	0	2
86	MP1B	Z	-5.305	2
87	MP1B	Mx	.002	2
88	MP1B	X	0	4.5
89	MP1B	Z	-5.305	4.5
90	MP1B	Mx	.002	4.5
91	MP1C	X	0	2
92	MP1C	Z	-5.305	2
93	MP1C	Mx	-.002	2
94	MP1C	X	0	4.5
95	MP1C	Z	-5.305	4.5
96	MP1C	Mx	-.002	4.5
97	MP5A	X	0	2
98	MP5A	Z	-2.945	2
99	MP5A	Mx	0	2
100	MP5A	X	0	4.5
101	MP5A	Z	-2.945	4.5
102	MP5A	Mx	0	4.5
103	MP5B	X	0	2
104	MP5B	Z	-5.305	2
105	MP5B	Mx	.002	2
106	MP5B	X	0	4.5
107	MP5B	Z	-5.305	4.5
108	MP5B	Mx	.002	4.5
109	MP5C	X	0	2
110	MP5C	Z	-5.305	2
111	MP5C	Mx	-.002	2
112	MP5C	X	0	4.5
113	MP5C	Z	-5.305	4.5
114	MP5C	Mx	-.002	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	5.211	.25
2	MP3A	Z	-9.026	.25
3	MP3A	Mx	-.009	.25
4	MP3A	X	5.211	4.25
5	MP3A	Z	-9.026	4.25
6	MP3A	Mx	-.009	4.25
7	MP3B	X	4.14	.25
8	MP3B	Z	-7.171	.25
9	MP3B	Mx	.004	.25
10	MP3B	X	4.14	4.25
11	MP3B	Z	-7.171	4.25
12	MP3B	Mx	.004	4.25
13	MP3C	X	5.211	.25
14	MP3C	Z	-9.026	.25
15	MP3C	Mx	.004	.25
16	MP3C	X	5.211	4.25
17	MP3C	Z	-9.026	4.25
18	MP3C	Mx	.004	4.25
19	MP3A	X	5.211	.25
20	MP3A	Z	-9.026	.25
21	MP3A	Mx	.004	.25
22	MP3A	X	5.211	4.25
23	MP3A	Z	-9.026	4.25
24	MP3A	Mx	.004	4.25
25	MP3B	X	4.14	.25
26	MP3B	Z	-7.171	.25
27	MP3B	Mx	.004	.25
28	MP3B	X	4.14	4.25
29	MP3B	Z	-7.171	4.25
30	MP3B	Mx	.004	4.25
31	MP3C	X	5.211	.25
32	MP3C	Z	-9.026	.25
33	MP3C	Mx	-.009	.25
34	MP3C	X	5.211	4.25
35	MP3C	Z	-9.026	4.25
36	MP3C	Mx	-.009	4.25
37	MP4A	X	2.248	2.25
38	MP4A	Z	-3.894	2.25
39	MP4A	Mx	-.001	2.25
40	MP4A	X	2.248	4.25
41	MP4A	Z	-3.894	4.25
42	MP4A	Mx	-.001	4.25
43	MP4B	X	1.038	2.25
44	MP4B	Z	-1.798	2.25
45	MP4B	Mx	.001	2.25
46	MP4B	X	1.038	4.25
47	MP4B	Z	-1.798	4.25
48	MP4B	Mx	.001	4.25
49	MP4C	X	2.248	2.25
50	MP4C	Z	-3.894	2.25
51	MP4C	Mx	-.001	2.25
52	MP4C	X	2.248	4.25
53	MP4C	Z	-3.894	4.25
54	MP4C	Mx	-.001	4.25
55	MP2A	X	1.935	2.5
56	MP2A	Z	-3.352	2.5
57	MP2A	Mx	.000967	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	1.41	2.5
59	MP2B	Z	-2.443	2.5
60	MP2B	Mx	-.001	2.5
61	MP2C	X	1.935	2.5
62	MP2C	Z	-3.352	2.5
63	MP2C	Mx	.000968	2.5
64	MP3A	X	1.868	2
65	MP3A	Z	-3.236	2
66	MP3A	Mx	.000934	2
67	MP3B	X	1.142	2
68	MP3B	Z	-1.979	2
69	MP3B	Mx	-.001	2
70	MP3C	X	1.868	2
71	MP3C	Z	-3.236	2
72	MP3C	Mx	.000934	2
73	M23	X	3.327	1
74	M23	Z	-5.762	1
75	M23	Mx	0	1
76	M23	X	3.327	1
77	M23	Z	-5.762	1
78	M23	Mx	0	1
79	MP1A	X	1.866	2
80	MP1A	Z	-3.232	2
81	MP1A	Mx	-.000933	2
82	MP1A	X	1.866	4.5
83	MP1A	Z	-3.232	4.5
84	MP1A	Mx	-.000933	4.5
85	MP1B	X	3.046	2
86	MP1B	Z	-5.276	2
87	MP1B	Mx	.003	2
88	MP1B	X	3.046	4.5
89	MP1B	Z	-5.276	4.5
90	MP1B	Mx	.003	4.5
91	MP1C	X	1.866	2
92	MP1C	Z	-3.232	2
93	MP1C	Mx	-.000933	2
94	MP1C	X	1.866	4.5
95	MP1C	Z	-3.232	4.5
96	MP1C	Mx	-.000933	4.5
97	MP5A	X	1.866	2
98	MP5A	Z	-3.232	2
99	MP5A	Mx	-.000933	2
100	MP5A	X	1.866	4.5
101	MP5A	Z	-3.232	4.5
102	MP5A	Mx	-.000933	4.5
103	MP5B	X	3.046	2
104	MP5B	Z	-5.276	2
105	MP5B	Mx	.003	2
106	MP5B	X	3.046	4.5
107	MP5B	Z	-5.276	4.5
108	MP5B	Mx	.003	4.5
109	MP5C	X	1.866	2
110	MP5C	Z	-3.232	2
111	MP5C	Mx	-.000933	2
112	MP5C	X	1.866	4.5
113	MP5C	Z	-3.232	4.5
114	MP5C	Mx	-.000933	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	7.789	.25
2	MP3A	Z	-4.497	.25
3	MP3A	Mx	-.007	.25
4	MP3A	X	7.789	4.25
5	MP3A	Z	-4.497	4.25
6	MP3A	Mx	-.007	4.25
7	MP3B	X	7.789	.25
8	MP3B	Z	-4.497	.25
9	MP3B	Mx	.000634	.25
10	MP3B	X	7.789	4.25
11	MP3B	Z	-4.497	4.25
12	MP3B	Mx	.000634	4.25
13	MP3C	X	9.645	.25
14	MP3C	Z	-5.568	.25
15	MP3C	Mx	.008	.25
16	MP3C	X	9.645	4.25
17	MP3C	Z	-5.568	4.25
18	MP3C	Mx	.008	4.25
19	MP3A	X	7.789	.25
20	MP3A	Z	-4.497	.25
21	MP3A	Mx	-.000634	.25
22	MP3A	X	7.789	4.25
23	MP3A	Z	-4.497	4.25
24	MP3A	Mx	-.000634	4.25
25	MP3B	X	7.789	.25
26	MP3B	Z	-4.497	.25
27	MP3B	Mx	.007	.25
28	MP3B	X	7.789	4.25
29	MP3B	Z	-4.497	4.25
30	MP3B	Mx	.007	4.25
31	MP3C	X	9.645	.25
32	MP3C	Z	-5.568	.25
33	MP3C	Mx	-.008	.25
34	MP3C	X	9.645	4.25
35	MP3C	Z	-5.568	4.25
36	MP3C	Mx	-.008	4.25
37	MP4A	X	2.497	2.25
38	MP4A	Z	-1.441	2.25
39	MP4A	Mx	-.001	2.25
40	MP4A	X	2.497	4.25
41	MP4A	Z	-1.441	4.25
42	MP4A	Mx	-.001	4.25
43	MP4B	X	2.497	2.25
44	MP4B	Z	-1.441	2.25
45	MP4B	Mx	.001	2.25
46	MP4B	X	2.497	4.25
47	MP4B	Z	-1.441	4.25
48	MP4B	Mx	.001	4.25
49	MP4C	X	4.593	2.25
50	MP4C	Z	-2.652	2.25
51	MP4C	Mx	0	2.25
52	MP4C	X	4.593	4.25
53	MP4C	Z	-2.652	4.25
54	MP4C	Mx	0	4.25
55	MP2A	X	2.746	2.5
56	MP2A	Z	-1.585	2.5
57	MP2A	Mx	.001	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	2.746	2.5
59	MP2B	Z	-1.585	2.5
60	MP2B	Mx	-.001	2.5
61	MP2C	X	3.655	2.5
62	MP2C	Z	-2.11	2.5
63	MP2C	Mx	0	2.5
64	MP3A	X	2.398	2
65	MP3A	Z	-1.384	2
66	MP3A	Mx	.001	2
67	MP3B	X	2.398	2
68	MP3B	Z	-1.384	2
69	MP3B	Mx	-.001	2
70	MP3C	X	3.655	2
71	MP3C	Z	-2.11	2
72	MP3C	Mx	0	2
73	M23	X	6.054	1
74	M23	Z	-3.495	1
75	M23	Mx	0	1
76	M23	X	6.054	1
77	M23	Z	-3.495	1
78	M23	Mx	0	1
79	MP1A	X	4.594	2
80	MP1A	Z	-2.653	2
81	MP1A	Mx	-.002	2
82	MP1A	X	4.594	4.5
83	MP1A	Z	-2.653	4.5
84	MP1A	Mx	-.002	4.5
85	MP1B	X	4.594	2
86	MP1B	Z	-2.653	2
87	MP1B	Mx	.002	2
88	MP1B	X	4.594	4.5
89	MP1B	Z	-2.653	4.5
90	MP1B	Mx	.002	4.5
91	MP1C	X	2.55	2
92	MP1C	Z	-1.472	2
93	MP1C	Mx	0	2
94	MP1C	X	2.55	4.5
95	MP1C	Z	-1.472	4.5
96	MP1C	Mx	0	4.5
97	MP5A	X	4.594	2
98	MP5A	Z	-2.653	2
99	MP5A	Mx	-.002	2
100	MP5A	X	4.594	4.5
101	MP5A	Z	-2.653	4.5
102	MP5A	Mx	-.002	4.5
103	MP5B	X	4.594	2
104	MP5B	Z	-2.653	2
105	MP5B	Mx	.002	2
106	MP5B	X	4.594	4.5
107	MP5B	Z	-2.653	4.5
108	MP5B	Mx	.002	4.5
109	MP5C	X	2.55	2
110	MP5C	Z	-1.472	2
111	MP5C	Mx	0	2
112	MP5C	X	2.55	4.5
113	MP5C	Z	-1.472	4.5
114	MP5C	Mx	0	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	8.28	.25
2	MP3A	Z	0	.25
3	MP3A	Mx	-.004	.25
4	MP3A	X	8.28	4.25
5	MP3A	Z	0	4.25
6	MP3A	Mx	-.004	4.25
7	MP3B	X	10.423	.25
8	MP3B	Z	0	.25
9	MP3B	Mx	-.004	.25
10	MP3B	X	10.423	4.25
11	MP3B	Z	0	4.25
12	MP3B	Mx	-.004	4.25
13	MP3C	X	10.423	.25
14	MP3C	Z	0	.25
15	MP3C	Mx	.009	.25
16	MP3C	X	10.423	4.25
17	MP3C	Z	0	4.25
18	MP3C	Mx	.009	4.25
19	MP3A	X	8.28	.25
20	MP3A	Z	0	.25
21	MP3A	Mx	-.004	.25
22	MP3A	X	8.28	4.25
23	MP3A	Z	0	4.25
24	MP3A	Mx	-.004	4.25
25	MP3B	X	10.423	.25
26	MP3B	Z	0	.25
27	MP3B	Mx	.009	.25
28	MP3B	X	10.423	4.25
29	MP3B	Z	0	4.25
30	MP3B	Mx	.009	4.25
31	MP3C	X	10.423	.25
32	MP3C	Z	0	.25
33	MP3C	Mx	-.004	.25
34	MP3C	X	10.423	4.25
35	MP3C	Z	0	4.25
36	MP3C	Mx	-.004	4.25
37	MP4A	X	2.076	2.25
38	MP4A	Z	0	2.25
39	MP4A	Mx	-.001	2.25
40	MP4A	X	2.076	4.25
41	MP4A	Z	0	4.25
42	MP4A	Mx	-.001	4.25
43	MP4B	X	4.496	2.25
44	MP4B	Z	0	2.25
45	MP4B	Mx	.001	2.25
46	MP4B	X	4.496	4.25
47	MP4B	Z	0	4.25
48	MP4B	Mx	.001	4.25
49	MP4C	X	4.496	2.25
50	MP4C	Z	0	2.25
51	MP4C	Mx	.001	2.25
52	MP4C	X	4.496	4.25
53	MP4C	Z	0	4.25
54	MP4C	Mx	.001	4.25
55	MP2A	X	2.821	2.5
56	MP2A	Z	0	2.5
57	MP2A	Mx	.001	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	3.87	2.5
59	MP2B	Z	0	2.5
60	MP2B	Mx	-.000967	2.5
61	MP2C	X	3.87	2.5
62	MP2C	Z	0	2.5
63	MP2C	Mx	-.000967	2.5
64	MP3A	X	2.285	2
65	MP3A	Z	0	2
66	MP3A	Mx	.001	2
67	MP3B	X	3.736	2
68	MP3B	Z	0	2
69	MP3B	Mx	-.000934	2
70	MP3C	X	3.736	2
71	MP3C	Z	0	2
72	MP3C	Mx	-.000934	2
73	M23	X	6.653	1
74	M23	Z	0	1
75	M23	Mx	0	1
76	M23	X	6.653	1
77	M23	Z	0	1
78	M23	Mx	0	1
79	MP1A	X	6.092	2
80	MP1A	Z	0	2
81	MP1A	Mx	-.003	2
82	MP1A	X	6.092	4.5
83	MP1A	Z	0	4.5
84	MP1A	Mx	-.003	4.5
85	MP1B	X	3.732	2
86	MP1B	Z	0	2
87	MP1B	Mx	.000933	2
88	MP1B	X	3.732	4.5
89	MP1B	Z	0	4.5
90	MP1B	Mx	.000933	4.5
91	MP1C	X	3.732	2
92	MP1C	Z	0	2
93	MP1C	Mx	.000933	2
94	MP1C	X	3.732	4.5
95	MP1C	Z	0	4.5
96	MP1C	Mx	.000933	4.5
97	MP5A	X	6.092	2
98	MP5A	Z	0	2
99	MP5A	Mx	-.003	2
100	MP5A	X	6.092	4.5
101	MP5A	Z	0	4.5
102	MP5A	Mx	-.003	4.5
103	MP5B	X	3.732	2
104	MP5B	Z	0	2
105	MP5B	Mx	.000933	2
106	MP5B	X	3.732	4.5
107	MP5B	Z	0	4.5
108	MP5B	Mx	.000933	4.5
109	MP5C	X	3.732	2
110	MP5C	Z	0	2
111	MP5C	Mx	.000933	2
112	MP5C	X	3.732	4.5
113	MP5C	Z	0	4.5
114	MP5C	Mx	.000933	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	7.789	.25
2	MP3A	Z	4.497	.25
3	MP3A	Mx	-.000634	.25
4	MP3A	X	7.789	4.25
5	MP3A	Z	4.497	4.25
6	MP3A	Mx	-.000634	4.25
7	MP3B	X	9.645	.25
8	MP3B	Z	5.568	.25
9	MP3B	Mx	-.008	.25
10	MP3B	X	9.645	4.25
11	MP3B	Z	5.568	4.25
12	MP3B	Mx	-.008	4.25
13	MP3C	X	7.789	.25
14	MP3C	Z	4.497	.25
15	MP3C	Mx	.007	.25
16	MP3C	X	7.789	4.25
17	MP3C	Z	4.497	4.25
18	MP3C	Mx	.007	4.25
19	MP3A	X	7.789	.25
20	MP3A	Z	4.497	.25
21	MP3A	Mx	-.007	.25
22	MP3A	X	7.789	4.25
23	MP3A	Z	4.497	4.25
24	MP3A	Mx	-.007	4.25
25	MP3B	X	9.645	.25
26	MP3B	Z	5.568	.25
27	MP3B	Mx	.008	.25
28	MP3B	X	9.645	4.25
29	MP3B	Z	5.568	4.25
30	MP3B	Mx	.008	4.25
31	MP3C	X	7.789	.25
32	MP3C	Z	4.497	.25
33	MP3C	Mx	.000634	.25
34	MP3C	X	7.789	4.25
35	MP3C	Z	4.497	4.25
36	MP3C	Mx	.000634	4.25
37	MP4A	X	2.497	2.25
38	MP4A	Z	1.441	2.25
39	MP4A	Mx	-.001	2.25
40	MP4A	X	2.497	4.25
41	MP4A	Z	1.441	4.25
42	MP4A	Mx	-.001	4.25
43	MP4B	X	4.593	2.25
44	MP4B	Z	2.652	2.25
45	MP4B	Mx	0	2.25
46	MP4B	X	4.593	4.25
47	MP4B	Z	2.652	4.25
48	MP4B	Mx	0	4.25
49	MP4C	X	2.497	2.25
50	MP4C	Z	1.441	2.25
51	MP4C	Mx	.001	2.25
52	MP4C	X	2.497	4.25
53	MP4C	Z	1.441	4.25
54	MP4C	Mx	.001	4.25
55	MP2A	X	2.746	2.5
56	MP2A	Z	1.585	2.5
57	MP2A	Mx	.001	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	3.655	2.5
59	MP2B	Z	2.11	2.5
60	MP2B	Mx	0	2.5
61	MP2C	X	2.746	2.5
62	MP2C	Z	1.585	2.5
63	MP2C	Mx	-.001	2.5
64	MP3A	X	2.398	2
65	MP3A	Z	1.384	2
66	MP3A	Mx	.001	2
67	MP3B	X	3.655	2
68	MP3B	Z	2.11	2
69	MP3B	Mx	0	2
70	MP3C	X	2.398	2
71	MP3C	Z	1.384	2
72	MP3C	Mx	-.001	2
73	M23	X	5.178	1
74	M23	Z	2.989	1
75	M23	Mx	0	1
76	M23	X	5.178	1
77	M23	Z	2.989	1
78	M23	Mx	0	1
79	MP1A	X	4.594	2
80	MP1A	Z	2.653	2
81	MP1A	Mx	-.002	2
82	MP1A	X	4.594	4.5
83	MP1A	Z	2.653	4.5
84	MP1A	Mx	-.002	4.5
85	MP1B	X	2.55	2
86	MP1B	Z	1.472	2
87	MP1B	Mx	0	2
88	MP1B	X	2.55	4.5
89	MP1B	Z	1.472	4.5
90	MP1B	Mx	0	4.5
91	MP1C	X	4.594	2
92	MP1C	Z	2.653	2
93	MP1C	Mx	.002	2
94	MP1C	X	4.594	4.5
95	MP1C	Z	2.653	4.5
96	MP1C	Mx	.002	4.5
97	MP5A	X	4.594	2
98	MP5A	Z	2.653	2
99	MP5A	Mx	-.002	2
100	MP5A	X	4.594	4.5
101	MP5A	Z	2.653	4.5
102	MP5A	Mx	-.002	4.5
103	MP5B	X	2.55	2
104	MP5B	Z	1.472	2
105	MP5B	Mx	0	2
106	MP5B	X	2.55	4.5
107	MP5B	Z	1.472	4.5
108	MP5B	Mx	0	4.5
109	MP5C	X	4.594	2
110	MP5C	Z	2.653	2
111	MP5C	Mx	.002	2
112	MP5C	X	4.594	4.5
113	MP5C	Z	2.653	4.5
114	MP5C	Mx	.002	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	5.211	.25
2	MP3A	Z	9.026	.25
3	MP3A	Mx	.004	.25
4	MP3A	X	5.211	4.25
5	MP3A	Z	9.026	4.25
6	MP3A	Mx	.004	4.25
7	MP3B	X	5.211	.25
8	MP3B	Z	9.026	.25
9	MP3B	Mx	-.009	.25
10	MP3B	X	5.211	4.25
11	MP3B	Z	9.026	4.25
12	MP3B	Mx	-.009	4.25
13	MP3C	X	4.14	.25
14	MP3C	Z	7.171	.25
15	MP3C	Mx	.004	.25
16	MP3C	X	4.14	4.25
17	MP3C	Z	7.171	4.25
18	MP3C	Mx	.004	4.25
19	MP3A	X	5.211	.25
20	MP3A	Z	9.026	.25
21	MP3A	Mx	-.009	.25
22	MP3A	X	5.211	4.25
23	MP3A	Z	9.026	4.25
24	MP3A	Mx	-.009	4.25
25	MP3B	X	5.211	.25
26	MP3B	Z	9.026	.25
27	MP3B	Mx	.004	.25
28	MP3B	X	5.211	4.25
29	MP3B	Z	9.026	4.25
30	MP3B	Mx	.004	4.25
31	MP3C	X	4.14	.25
32	MP3C	Z	7.171	.25
33	MP3C	Mx	.004	.25
34	MP3C	X	4.14	4.25
35	MP3C	Z	7.171	4.25
36	MP3C	Mx	.004	4.25
37	MP4A	X	2.248	2.25
38	MP4A	Z	3.894	2.25
39	MP4A	Mx	-.001	2.25
40	MP4A	X	2.248	4.25
41	MP4A	Z	3.894	4.25
42	MP4A	Mx	-.001	4.25
43	MP4B	X	2.248	2.25
44	MP4B	Z	3.894	2.25
45	MP4B	Mx	-.001	2.25
46	MP4B	X	2.248	4.25
47	MP4B	Z	3.894	4.25
48	MP4B	Mx	-.001	4.25
49	MP4C	X	1.038	2.25
50	MP4C	Z	1.798	2.25
51	MP4C	Mx	.001	2.25
52	MP4C	X	1.038	4.25
53	MP4C	Z	1.798	4.25
54	MP4C	Mx	.001	4.25
55	MP2A	X	1.935	2.5
56	MP2A	Z	3.352	2.5
57	MP2A	Mx	.000967	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	1.935	2.5
59	MP2B	Z	3.352	2.5
60	MP2B	Mx	.000968	2.5
61	MP2C	X	1.41	2.5
62	MP2C	Z	2.443	2.5
63	MP2C	Mx	-.001	2.5
64	MP3A	X	1.868	2
65	MP3A	Z	3.236	2
66	MP3A	Mx	.000934	2
67	MP3B	X	1.868	2
68	MP3B	Z	3.236	2
69	MP3B	Mx	.000934	2
70	MP3C	X	1.142	2
71	MP3C	Z	1.979	2
72	MP3C	Mx	-.001	2
73	M23	X	2.821	1
74	M23	Z	4.886	1
75	M23	Mx	0	1
76	M23	X	2.821	1
77	M23	Z	4.886	1
78	M23	Mx	0	1
79	MP1A	X	1.866	2
80	MP1A	Z	3.232	2
81	MP1A	Mx	-.000933	2
82	MP1A	X	1.866	4.5
83	MP1A	Z	3.232	4.5
84	MP1A	Mx	-.000933	4.5
85	MP1B	X	1.866	2
86	MP1B	Z	3.232	2
87	MP1B	Mx	-.000933	2
88	MP1B	X	1.866	4.5
89	MP1B	Z	3.232	4.5
90	MP1B	Mx	-.000933	4.5
91	MP1C	X	3.046	2
92	MP1C	Z	5.276	2
93	MP1C	Mx	.003	2
94	MP1C	X	3.046	4.5
95	MP1C	Z	5.276	4.5
96	MP1C	Mx	.003	4.5
97	MP5A	X	1.866	2
98	MP5A	Z	3.232	2
99	MP5A	Mx	-.000933	2
100	MP5A	X	1.866	4.5
101	MP5A	Z	3.232	4.5
102	MP5A	Mx	-.000933	4.5
103	MP5B	X	1.866	2
104	MP5B	Z	3.232	2
105	MP5B	Mx	-.000933	2
106	MP5B	X	1.866	4.5
107	MP5B	Z	3.232	4.5
108	MP5B	Mx	-.000933	4.5
109	MP5C	X	3.046	2
110	MP5C	Z	5.276	2
111	MP5C	Mx	.003	2
112	MP5C	X	3.046	4.5
113	MP5C	Z	5.276	4.5
114	MP5C	Mx	.003	4.5

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	11.137	.25
3	MP3A	Mx	.008	.25
4	MP3A	X	0	4.25
5	MP3A	Z	11.137	4.25
6	MP3A	Mx	.008	4.25
7	MP3B	X	0	.25
8	MP3B	Z	8.994	.25
9	MP3B	Mx	-.007	.25
10	MP3B	X	0	4.25
11	MP3B	Z	8.994	4.25
12	MP3B	Mx	-.007	4.25
13	MP3C	X	0	.25
14	MP3C	Z	8.994	.25
15	MP3C	Mx	.000634	.25
16	MP3C	X	0	4.25
17	MP3C	Z	8.994	4.25
18	MP3C	Mx	.000634	4.25
19	MP3A	X	0	.25
20	MP3A	Z	11.137	.25
21	MP3A	Mx	-.008	.25
22	MP3A	X	0	4.25
23	MP3A	Z	11.137	4.25
24	MP3A	Mx	-.008	4.25
25	MP3B	X	0	.25
26	MP3B	Z	8.994	.25
27	MP3B	Mx	-.000634	.25
28	MP3B	X	0	4.25
29	MP3B	Z	8.994	4.25
30	MP3B	Mx	-.000634	4.25
31	MP3C	X	0	.25
32	MP3C	Z	8.994	.25
33	MP3C	Mx	.007	.25
34	MP3C	X	0	4.25
35	MP3C	Z	8.994	4.25
36	MP3C	Mx	.007	4.25
37	MP4A	X	0	2.25
38	MP4A	Z	5.303	2.25
39	MP4A	Mx	0	2.25
40	MP4A	X	0	4.25
41	MP4A	Z	5.303	4.25
42	MP4A	Mx	0	4.25
43	MP4B	X	0	2.25
44	MP4B	Z	2.883	2.25
45	MP4B	Mx	-.001	2.25
46	MP4B	X	0	4.25
47	MP4B	Z	2.883	4.25
48	MP4B	Mx	-.001	4.25
49	MP4C	X	0	2.25
50	MP4C	Z	2.883	2.25
51	MP4C	Mx	.001	2.25
52	MP4C	X	0	4.25
53	MP4C	Z	2.883	4.25
54	MP4C	Mx	.001	4.25
55	MP2A	X	0	2.5
56	MP2A	Z	4.22	2.5
57	MP2A	Mx	0	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	0	2.5
59	MP2B	Z	3.171	2.5
60	MP2B	Mx	.001	2.5
61	MP2C	X	0	2.5
62	MP2C	Z	3.171	2.5
63	MP2C	Mx	-.001	2.5
64	MP3A	X	0	2
65	MP3A	Z	4.22	2
66	MP3A	Mx	0	2
67	MP3B	X	0	2
68	MP3B	Z	2.769	2
69	MP3B	Mx	.001	2
70	MP3C	X	0	2
71	MP3C	Z	2.769	2
72	MP3C	Mx	-.001	2
73	M23	X	0	1
74	M23	Z	5.979	1
75	M23	Mx	0	1
76	M23	X	0	1
77	M23	Z	5.979	1
78	M23	Mx	0	1
79	MP1A	X	0	2
80	MP1A	Z	2.945	2
81	MP1A	Mx	0	2
82	MP1A	X	0	4.5
83	MP1A	Z	2.945	4.5
84	MP1A	Mx	0	4.5
85	MP1B	X	0	2
86	MP1B	Z	5.305	2
87	MP1B	Mx	-.002	2
88	MP1B	X	0	4.5
89	MP1B	Z	5.305	4.5
90	MP1B	Mx	-.002	4.5
91	MP1C	X	0	2
92	MP1C	Z	5.305	2
93	MP1C	Mx	.002	2
94	MP1C	X	0	4.5
95	MP1C	Z	5.305	4.5
96	MP1C	Mx	.002	4.5
97	MP5A	X	0	2
98	MP5A	Z	2.945	2
99	MP5A	Mx	0	2
100	MP5A	X	0	4.5
101	MP5A	Z	2.945	4.5
102	MP5A	Mx	0	4.5
103	MP5B	X	0	2
104	MP5B	Z	5.305	2
105	MP5B	Mx	-.002	2
106	MP5B	X	0	4.5
107	MP5B	Z	5.305	4.5
108	MP5B	Mx	-.002	4.5
109	MP5C	X	0	2
110	MP5C	Z	5.305	2
111	MP5C	Mx	.002	2
112	MP5C	X	0	4.5
113	MP5C	Z	5.305	4.5
114	MP5C	Mx	.002	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-5.211	.25
2	MP3A	Z	9.026	.25
3	MP3A	Mx	.009	.25
4	MP3A	X	-5.211	4.25
5	MP3A	Z	9.026	4.25
6	MP3A	Mx	.009	4.25
7	MP3B	X	-4.14	.25
8	MP3B	Z	7.171	.25
9	MP3B	Mx	-.004	.25
10	MP3B	X	-4.14	4.25
11	MP3B	Z	7.171	4.25
12	MP3B	Mx	-.004	4.25
13	MP3C	X	-5.211	.25
14	MP3C	Z	9.026	.25
15	MP3C	Mx	-.004	.25
16	MP3C	X	-5.211	4.25
17	MP3C	Z	9.026	4.25
18	MP3C	Mx	-.004	4.25
19	MP3A	X	-5.211	.25
20	MP3A	Z	9.026	.25
21	MP3A	Mx	-.004	.25
22	MP3A	X	-5.211	4.25
23	MP3A	Z	9.026	4.25
24	MP3A	Mx	-.004	4.25
25	MP3B	X	-4.14	.25
26	MP3B	Z	7.171	.25
27	MP3B	Mx	-.004	.25
28	MP3B	X	-4.14	4.25
29	MP3B	Z	7.171	4.25
30	MP3B	Mx	-.004	4.25
31	MP3C	X	-5.211	.25
32	MP3C	Z	9.026	.25
33	MP3C	Mx	.009	.25
34	MP3C	X	-5.211	4.25
35	MP3C	Z	9.026	4.25
36	MP3C	Mx	.009	4.25
37	MP4A	X	-2.248	2.25
38	MP4A	Z	3.894	2.25
39	MP4A	Mx	.001	2.25
40	MP4A	X	-2.248	4.25
41	MP4A	Z	3.894	4.25
42	MP4A	Mx	.001	4.25
43	MP4B	X	-1.038	2.25
44	MP4B	Z	1.798	2.25
45	MP4B	Mx	-.001	2.25
46	MP4B	X	-1.038	4.25
47	MP4B	Z	1.798	4.25
48	MP4B	Mx	-.001	4.25
49	MP4C	X	-2.248	2.25
50	MP4C	Z	3.894	2.25
51	MP4C	Mx	.001	2.25
52	MP4C	X	-2.248	4.25
53	MP4C	Z	3.894	4.25
54	MP4C	Mx	.001	4.25
55	MP2A	X	-1.935	2.5
56	MP2A	Z	3.352	2.5
57	MP2A	Mx	-.000967	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	-1.41	2.5
59	MP2B	Z	2.443	2.5
60	MP2B	Mx	.001	2.5
61	MP2C	X	-1.935	2.5
62	MP2C	Z	3.352	2.5
63	MP2C	Mx	-.000968	2.5
64	MP3A	X	-1.868	2
65	MP3A	Z	3.236	2
66	MP3A	Mx	-.000934	2
67	MP3B	X	-1.142	2
68	MP3B	Z	1.979	2
69	MP3B	Mx	.001	2
70	MP3C	X	-1.868	2
71	MP3C	Z	3.236	2
72	MP3C	Mx	-.000934	2
73	M23	X	-3.327	1
74	M23	Z	5.762	1
75	M23	Mx	0	1
76	M23	X	-3.327	1
77	M23	Z	5.762	1
78	M23	Mx	0	1
79	MP1A	X	-1.866	2
80	MP1A	Z	3.232	2
81	MP1A	Mx	.000933	2
82	MP1A	X	-1.866	4.5
83	MP1A	Z	3.232	4.5
84	MP1A	Mx	.000933	4.5
85	MP1B	X	-3.046	2
86	MP1B	Z	5.276	2
87	MP1B	Mx	-.003	2
88	MP1B	X	-3.046	4.5
89	MP1B	Z	5.276	4.5
90	MP1B	Mx	-.003	4.5
91	MP1C	X	-1.866	2
92	MP1C	Z	3.232	2
93	MP1C	Mx	.000933	2
94	MP1C	X	-1.866	4.5
95	MP1C	Z	3.232	4.5
96	MP1C	Mx	.000933	4.5
97	MP5A	X	-1.866	2
98	MP5A	Z	3.232	2
99	MP5A	Mx	.000933	2
100	MP5A	X	-1.866	4.5
101	MP5A	Z	3.232	4.5
102	MP5A	Mx	.000933	4.5
103	MP5B	X	-3.046	2
104	MP5B	Z	5.276	2
105	MP5B	Mx	-.003	2
106	MP5B	X	-3.046	4.5
107	MP5B	Z	5.276	4.5
108	MP5B	Mx	-.003	4.5
109	MP5C	X	-1.866	2
110	MP5C	Z	3.232	2
111	MP5C	Mx	.000933	2
112	MP5C	X	-1.866	4.5
113	MP5C	Z	3.232	4.5
114	MP5C	Mx	.000933	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-7.789	.25
2	MP3A	Z	4.497	.25
3	MP3A	Mx	.007	.25
4	MP3A	X	-7.789	4.25
5	MP3A	Z	4.497	4.25
6	MP3A	Mx	.007	4.25
7	MP3B	X	-7.789	.25
8	MP3B	Z	4.497	.25
9	MP3B	Mx	-.000634	.25
10	MP3B	X	-7.789	4.25
11	MP3B	Z	4.497	4.25
12	MP3B	Mx	-.000634	4.25
13	MP3C	X	-9.645	.25
14	MP3C	Z	5.568	.25
15	MP3C	Mx	-.008	.25
16	MP3C	X	-9.645	4.25
17	MP3C	Z	5.568	4.25
18	MP3C	Mx	-.008	4.25
19	MP3A	X	-7.789	.25
20	MP3A	Z	4.497	.25
21	MP3A	Mx	.000634	.25
22	MP3A	X	-7.789	4.25
23	MP3A	Z	4.497	4.25
24	MP3A	Mx	.000634	4.25
25	MP3B	X	-7.789	.25
26	MP3B	Z	4.497	.25
27	MP3B	Mx	-.007	.25
28	MP3B	X	-7.789	4.25
29	MP3B	Z	4.497	4.25
30	MP3B	Mx	-.007	4.25
31	MP3C	X	-9.645	.25
32	MP3C	Z	5.568	.25
33	MP3C	Mx	.008	.25
34	MP3C	X	-9.645	4.25
35	MP3C	Z	5.568	4.25
36	MP3C	Mx	.008	4.25
37	MP4A	X	-2.497	2.25
38	MP4A	Z	1.441	2.25
39	MP4A	Mx	.001	2.25
40	MP4A	X	-2.497	4.25
41	MP4A	Z	1.441	4.25
42	MP4A	Mx	.001	4.25
43	MP4B	X	-2.497	2.25
44	MP4B	Z	1.441	2.25
45	MP4B	Mx	-.001	2.25
46	MP4B	X	-2.497	4.25
47	MP4B	Z	1.441	4.25
48	MP4B	Mx	-.001	4.25
49	MP4C	X	-4.593	2.25
50	MP4C	Z	2.652	2.25
51	MP4C	Mx	0	2.25
52	MP4C	X	-4.593	4.25
53	MP4C	Z	2.652	4.25
54	MP4C	Mx	0	4.25
55	MP2A	X	-2.746	2.5
56	MP2A	Z	1.585	2.5
57	MP2A	Mx	-.001	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	-2.746	2.5
59	MP2B	Z	1.585	2.5
60	MP2B	Mx	.001	2.5
61	MP2C	X	-3.655	2.5
62	MP2C	Z	2.11	2.5
63	MP2C	Mx	0	2.5
64	MP3A	X	-2.398	2
65	MP3A	Z	1.384	2
66	MP3A	Mx	-.001	2
67	MP3B	X	-2.398	2
68	MP3B	Z	1.384	2
69	MP3B	Mx	.001	2
70	MP3C	X	-3.655	2
71	MP3C	Z	2.11	2
72	MP3C	Mx	0	2
73	M23	X	-6.054	1
74	M23	Z	3.495	1
75	M23	Mx	0	1
76	M23	X	-6.054	1
77	M23	Z	3.495	1
78	M23	Mx	0	1
79	MP1A	X	-4.594	2
80	MP1A	Z	2.653	2
81	MP1A	Mx	.002	2
82	MP1A	X	-4.594	4.5
83	MP1A	Z	2.653	4.5
84	MP1A	Mx	.002	4.5
85	MP1B	X	-4.594	2
86	MP1B	Z	2.653	2
87	MP1B	Mx	-.002	2
88	MP1B	X	-4.594	4.5
89	MP1B	Z	2.653	4.5
90	MP1B	Mx	-.002	4.5
91	MP1C	X	-2.55	2
92	MP1C	Z	1.472	2
93	MP1C	Mx	0	2
94	MP1C	X	-2.55	4.5
95	MP1C	Z	1.472	4.5
96	MP1C	Mx	0	4.5
97	MP5A	X	-4.594	2
98	MP5A	Z	2.653	2
99	MP5A	Mx	.002	2
100	MP5A	X	-4.594	4.5
101	MP5A	Z	2.653	4.5
102	MP5A	Mx	.002	4.5
103	MP5B	X	-4.594	2
104	MP5B	Z	2.653	2
105	MP5B	Mx	-.002	2
106	MP5B	X	-4.594	4.5
107	MP5B	Z	2.653	4.5
108	MP5B	Mx	-.002	4.5
109	MP5C	X	-2.55	2
110	MP5C	Z	1.472	2
111	MP5C	Mx	0	2
112	MP5C	X	-2.55	4.5
113	MP5C	Z	1.472	4.5
114	MP5C	Mx	0	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-8.28	.25
2	MP3A	Z	0	.25
3	MP3A	Mx	.004	.25
4	MP3A	X	-8.28	4.25
5	MP3A	Z	0	4.25
6	MP3A	Mx	.004	4.25
7	MP3B	X	-10.423	.25
8	MP3B	Z	0	.25
9	MP3B	Mx	.004	.25
10	MP3B	X	-10.423	4.25
11	MP3B	Z	0	4.25
12	MP3B	Mx	.004	4.25
13	MP3C	X	-10.423	.25
14	MP3C	Z	0	.25
15	MP3C	Mx	-.009	.25
16	MP3C	X	-10.423	4.25
17	MP3C	Z	0	4.25
18	MP3C	Mx	-.009	4.25
19	MP3A	X	-8.28	.25
20	MP3A	Z	0	.25
21	MP3A	Mx	.004	.25
22	MP3A	X	-8.28	4.25
23	MP3A	Z	0	4.25
24	MP3A	Mx	.004	4.25
25	MP3B	X	-10.423	.25
26	MP3B	Z	0	.25
27	MP3B	Mx	-.009	.25
28	MP3B	X	-10.423	4.25
29	MP3B	Z	0	4.25
30	MP3B	Mx	-.009	4.25
31	MP3C	X	-10.423	.25
32	MP3C	Z	0	.25
33	MP3C	Mx	.004	.25
34	MP3C	X	-10.423	4.25
35	MP3C	Z	0	4.25
36	MP3C	Mx	.004	4.25
37	MP4A	X	-2.076	2.25
38	MP4A	Z	0	2.25
39	MP4A	Mx	.001	2.25
40	MP4A	X	-2.076	4.25
41	MP4A	Z	0	4.25
42	MP4A	Mx	.001	4.25
43	MP4B	X	-4.496	2.25
44	MP4B	Z	0	2.25
45	MP4B	Mx	-.001	2.25
46	MP4B	X	-4.496	4.25
47	MP4B	Z	0	4.25
48	MP4B	Mx	-.001	4.25
49	MP4C	X	-4.496	2.25
50	MP4C	Z	0	2.25
51	MP4C	Mx	-.001	2.25
52	MP4C	X	-4.496	4.25
53	MP4C	Z	0	4.25
54	MP4C	Mx	-.001	4.25
55	MP2A	X	-2.821	2.5
56	MP2A	Z	0	2.5
57	MP2A	Mx	-.001	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	-3.87	2.5
59	MP2B	Z	0	2.5
60	MP2B	Mx	.000967	2.5
61	MP2C	X	-3.87	2.5
62	MP2C	Z	0	2.5
63	MP2C	Mx	.000967	2.5
64	MP3A	X	-2.285	2
65	MP3A	Z	0	2
66	MP3A	Mx	-.001	2
67	MP3B	X	-3.736	2
68	MP3B	Z	0	2
69	MP3B	Mx	.000934	2
70	MP3C	X	-3.736	2
71	MP3C	Z	0	2
72	MP3C	Mx	.000934	2
73	M23	X	-6.653	1
74	M23	Z	0	1
75	M23	Mx	0	1
76	M23	X	-6.653	1
77	M23	Z	0	1
78	M23	Mx	0	1
79	MP1A	X	-6.092	2
80	MP1A	Z	0	2
81	MP1A	Mx	.003	2
82	MP1A	X	-6.092	4.5
83	MP1A	Z	0	4.5
84	MP1A	Mx	.003	4.5
85	MP1B	X	-3.732	2
86	MP1B	Z	0	2
87	MP1B	Mx	-.000933	2
88	MP1B	X	-3.732	4.5
89	MP1B	Z	0	4.5
90	MP1B	Mx	-.000933	4.5
91	MP1C	X	-3.732	2
92	MP1C	Z	0	2
93	MP1C	Mx	-.000933	2
94	MP1C	X	-3.732	4.5
95	MP1C	Z	0	4.5
96	MP1C	Mx	-.000933	4.5
97	MP5A	X	-6.092	2
98	MP5A	Z	0	2
99	MP5A	Mx	.003	2
100	MP5A	X	-6.092	4.5
101	MP5A	Z	0	4.5
102	MP5A	Mx	.003	4.5
103	MP5B	X	-3.732	2
104	MP5B	Z	0	2
105	MP5B	Mx	-.000933	2
106	MP5B	X	-3.732	4.5
107	MP5B	Z	0	4.5
108	MP5B	Mx	-.000933	4.5
109	MP5C	X	-3.732	2
110	MP5C	Z	0	2
111	MP5C	Mx	-.000933	2
112	MP5C	X	-3.732	4.5
113	MP5C	Z	0	4.5
114	MP5C	Mx	-.000933	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-7.789	.25
2	MP3A	Z	-4.497	.25
3	MP3A	Mx	.000634	.25
4	MP3A	X	-7.789	4.25
5	MP3A	Z	-4.497	4.25
6	MP3A	Mx	.000634	4.25
7	MP3B	X	-9.645	.25
8	MP3B	Z	-5.568	.25
9	MP3B	Mx	.008	.25
10	MP3B	X	-9.645	4.25
11	MP3B	Z	-5.568	4.25
12	MP3B	Mx	.008	4.25
13	MP3C	X	-7.789	.25
14	MP3C	Z	-4.497	.25
15	MP3C	Mx	-.007	.25
16	MP3C	X	-7.789	4.25
17	MP3C	Z	-4.497	4.25
18	MP3C	Mx	-.007	4.25
19	MP3A	X	-7.789	.25
20	MP3A	Z	-4.497	.25
21	MP3A	Mx	.007	.25
22	MP3A	X	-7.789	4.25
23	MP3A	Z	-4.497	4.25
24	MP3A	Mx	.007	4.25
25	MP3B	X	-9.645	.25
26	MP3B	Z	-5.568	.25
27	MP3B	Mx	-.008	.25
28	MP3B	X	-9.645	4.25
29	MP3B	Z	-5.568	4.25
30	MP3B	Mx	-.008	4.25
31	MP3C	X	-7.789	.25
32	MP3C	Z	-4.497	.25
33	MP3C	Mx	-.000634	.25
34	MP3C	X	-7.789	4.25
35	MP3C	Z	-4.497	4.25
36	MP3C	Mx	-.000634	4.25
37	MP4A	X	-2.497	2.25
38	MP4A	Z	-1.441	2.25
39	MP4A	Mx	.001	2.25
40	MP4A	X	-2.497	4.25
41	MP4A	Z	-1.441	4.25
42	MP4A	Mx	.001	4.25
43	MP4B	X	-4.593	2.25
44	MP4B	Z	-2.652	2.25
45	MP4B	Mx	0	2.25
46	MP4B	X	-4.593	4.25
47	MP4B	Z	-2.652	4.25
48	MP4B	Mx	0	4.25
49	MP4C	X	-2.497	2.25
50	MP4C	Z	-1.441	2.25
51	MP4C	Mx	-.001	2.25
52	MP4C	X	-2.497	4.25
53	MP4C	Z	-1.441	4.25
54	MP4C	Mx	-.001	4.25
55	MP2A	X	-2.746	2.5
56	MP2A	Z	-1.585	2.5
57	MP2A	Mx	-.001	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	-3.655	2.5
59	MP2B	Z	-2.11	2.5
60	MP2B	Mx	0	2.5
61	MP2C	X	-2.746	2.5
62	MP2C	Z	-1.585	2.5
63	MP2C	Mx	.001	2.5
64	MP3A	X	-2.398	2
65	MP3A	Z	-1.384	2
66	MP3A	Mx	-.001	2
67	MP3B	X	-3.655	2
68	MP3B	Z	-2.11	2
69	MP3B	Mx	0	2
70	MP3C	X	-2.398	2
71	MP3C	Z	-1.384	2
72	MP3C	Mx	.001	2
73	M23	X	-5.178	1
74	M23	Z	-2.989	1
75	M23	Mx	0	1
76	M23	X	-5.178	1
77	M23	Z	-2.989	1
78	M23	Mx	0	1
79	MP1A	X	-4.594	2
80	MP1A	Z	-2.653	2
81	MP1A	Mx	.002	2
82	MP1A	X	-4.594	4.5
83	MP1A	Z	-2.653	4.5
84	MP1A	Mx	.002	4.5
85	MP1B	X	-2.55	2
86	MP1B	Z	-1.472	2
87	MP1B	Mx	0	2
88	MP1B	X	-2.55	4.5
89	MP1B	Z	-1.472	4.5
90	MP1B	Mx	0	4.5
91	MP1C	X	-4.594	2
92	MP1C	Z	-2.653	2
93	MP1C	Mx	-.002	2
94	MP1C	X	-4.594	4.5
95	MP1C	Z	-2.653	4.5
96	MP1C	Mx	-.002	4.5
97	MP5A	X	-4.594	2
98	MP5A	Z	-2.653	2
99	MP5A	Mx	.002	2
100	MP5A	X	-4.594	4.5
101	MP5A	Z	-2.653	4.5
102	MP5A	Mx	.002	4.5
103	MP5B	X	-2.55	2
104	MP5B	Z	-1.472	2
105	MP5B	Mx	0	2
106	MP5B	X	-2.55	4.5
107	MP5B	Z	-1.472	4.5
108	MP5B	Mx	0	4.5
109	MP5C	X	-4.594	2
110	MP5C	Z	-2.653	2
111	MP5C	Mx	-.002	2
112	MP5C	X	-4.594	4.5
113	MP5C	Z	-2.653	4.5
114	MP5C	Mx	-.002	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-5.211	.25
2	MP3A	Z	-9.026	.25
3	MP3A	Mx	-.004	.25
4	MP3A	X	-5.211	4.25
5	MP3A	Z	-9.026	4.25
6	MP3A	Mx	-.004	4.25
7	MP3B	X	-5.211	.25
8	MP3B	Z	-9.026	.25
9	MP3B	Mx	.009	.25
10	MP3B	X	-5.211	4.25
11	MP3B	Z	-9.026	4.25
12	MP3B	Mx	.009	4.25
13	MP3C	X	-4.14	.25
14	MP3C	Z	-7.171	.25
15	MP3C	Mx	-.004	.25
16	MP3C	X	-4.14	4.25
17	MP3C	Z	-7.171	4.25
18	MP3C	Mx	-.004	4.25
19	MP3A	X	-5.211	.25
20	MP3A	Z	-9.026	.25
21	MP3A	Mx	.009	.25
22	MP3A	X	-5.211	4.25
23	MP3A	Z	-9.026	4.25
24	MP3A	Mx	.009	4.25
25	MP3B	X	-5.211	.25
26	MP3B	Z	-9.026	.25
27	MP3B	Mx	-.004	.25
28	MP3B	X	-5.211	4.25
29	MP3B	Z	-9.026	4.25
30	MP3B	Mx	-.004	4.25
31	MP3C	X	-4.14	.25
32	MP3C	Z	-7.171	.25
33	MP3C	Mx	-.004	.25
34	MP3C	X	-4.14	4.25
35	MP3C	Z	-7.171	4.25
36	MP3C	Mx	-.004	4.25
37	MP4A	X	-2.248	2.25
38	MP4A	Z	-3.894	2.25
39	MP4A	Mx	.001	2.25
40	MP4A	X	-2.248	4.25
41	MP4A	Z	-3.894	4.25
42	MP4A	Mx	.001	4.25
43	MP4B	X	-2.248	2.25
44	MP4B	Z	-3.894	2.25
45	MP4B	Mx	.001	2.25
46	MP4B	X	-2.248	4.25
47	MP4B	Z	-3.894	4.25
48	MP4B	Mx	.001	4.25
49	MP4C	X	-1.038	2.25
50	MP4C	Z	-1.798	2.25
51	MP4C	Mx	-.001	2.25
52	MP4C	X	-1.038	4.25
53	MP4C	Z	-1.798	4.25
54	MP4C	Mx	-.001	4.25
55	MP2A	X	-1.935	2.5
56	MP2A	Z	-3.352	2.5
57	MP2A	Mx	-.000967	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	-1.935	2.5
59	MP2B	Z	-3.352	2.5
60	MP2B	Mx	-.000968	2.5
61	MP2C	X	-1.41	2.5
62	MP2C	Z	-2.443	2.5
63	MP2C	Mx	.001	2.5
64	MP3A	X	-1.868	2
65	MP3A	Z	-3.236	2
66	MP3A	Mx	-.000934	2
67	MP3B	X	-1.868	2
68	MP3B	Z	-3.236	2
69	MP3B	Mx	-.000934	2
70	MP3C	X	-1.142	2
71	MP3C	Z	-1.979	2
72	MP3C	Mx	.001	2
73	M23	X	-2.821	1
74	M23	Z	-4.886	1
75	M23	Mx	0	1
76	M23	X	-2.821	1
77	M23	Z	-4.886	1
78	M23	Mx	0	1
79	MP1A	X	-1.866	2
80	MP1A	Z	-3.232	2
81	MP1A	Mx	.000933	2
82	MP1A	X	-1.866	4.5
83	MP1A	Z	-3.232	4.5
84	MP1A	Mx	.000933	4.5
85	MP1B	X	-1.866	2
86	MP1B	Z	-3.232	2
87	MP1B	Mx	.000933	2
88	MP1B	X	-1.866	4.5
89	MP1B	Z	-3.232	4.5
90	MP1B	Mx	.000933	4.5
91	MP1C	X	-3.046	2
92	MP1C	Z	-5.276	2
93	MP1C	Mx	-.003	2
94	MP1C	X	-3.046	4.5
95	MP1C	Z	-5.276	4.5
96	MP1C	Mx	-.003	4.5
97	MP5A	X	-1.866	2
98	MP5A	Z	-3.232	2
99	MP5A	Mx	.000933	2
100	MP5A	X	-1.866	4.5
101	MP5A	Z	-3.232	4.5
102	MP5A	Mx	.000933	4.5
103	MP5B	X	-1.866	2
104	MP5B	Z	-3.232	2
105	MP5B	Mx	.000933	2
106	MP5B	X	-1.866	4.5
107	MP5B	Z	-3.232	4.5
108	MP5B	Mx	.000933	4.5
109	MP5C	X	-3.046	2
110	MP5C	Z	-5.276	2
111	MP5C	Mx	-.003	2
112	MP5C	X	-3.046	4.5
113	MP5C	Z	-5.276	4.5
114	MP5C	Mx	-.003	4.5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M22A	Y	-500	%100

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M24	Y	-500	%100

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M7	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M7	Y	-250	%50

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	Y	-5.153	-5.153	0	%100
2	M7	Y	-8.881	-8.881	0	%100
3	M8	Y	-8.881	-8.881	0	%100
4	M9	Y	-8.881	-8.881	0	%100
5	M16	Y	-8.881	-8.881	0	%100
6	M17	Y	-8.881	-8.881	0	%100
7	M18	Y	-8.881	-8.881	0	%100
8	M19	Y	-5.81	-5.81	0	%100
9	M20	Y	-5.81	-5.81	0	%100
10	M21	Y	-5.81	-5.81	0	%100
11	M22	Y	-5.81	-5.81	0	%100
12	M23	Y	-5.153	-5.153	0	%100
13	MP2A	Y	-5.153	-5.153	0	%100
14	MP3A	Y	-5.877	-5.877	0	%100
15	MP4A	Y	-5.153	-5.153	0	%100
16	MP5A	Y	-5.153	-5.153	0	%100
17	MP1C	Y	-5.153	-5.153	0	%100
18	MP2C	Y	-5.153	-5.153	0	%100
19	MP3C	Y	-5.877	-5.877	0	%100
20	MP4C	Y	-5.153	-5.153	0	%100
21	MP5C	Y	-5.153	-5.153	0	%100
22	MP1B	Y	-5.153	-5.153	0	%100
23	MP2B	Y	-5.153	-5.153	0	%100
24	MP3B	Y	-5.877	-5.877	0	%100
25	MP4B	Y	-5.153	-5.153	0	%100
26	MP5B	Y	-5.153	-5.153	0	%100
27	M48	Y	-5.81	-5.81	0	%100
28	M49	Y	-5.81	-5.81	0	%100
29	M50	Y	-5.81	-5.81	0	%100
30	M51	Y	-5.81	-5.81	0	%100
31	M52	Y	-5.81	-5.81	0	%100
32	M53	Y	-5.81	-5.81	0	%100
33	M54	Y	-5.81	-5.81	0	%100
34	M55	Y	-5.81	-5.81	0	%100
35	M56	Y	-10.944	-10.944	0	%100
36	M57	Y	-10.944	-10.944	0	%100
37	M58	Y	-10.944	-10.944	0	%100
38	M60	Y	-5.877	-5.877	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
39	M75	Y	-5.877	-5.877	0	%100
40	M76	Y	-5.877	-5.877	0	%100
41	M83	Y	-7.857	-7.857	0	%100
42	M84	Y	-7.857	-7.857	0	%100
43	M85	Y	-7.857	-7.857	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	0	0	0	%100
2	MP1A	Z	-8.719	-8.719	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	-13.384	-13.384	0	%100
5	M8	X	0	0	0	%100
6	M8	Z	-3.346	-3.346	0	%100
7	M9	X	0	0	0	%100
8	M9	Z	-3.346	-3.346	0	%100
9	M16	X	0	0	0	%100
10	M16	Z	0	0	0	%100
11	M17	X	0	0	0	%100
12	M17	Z	-10.038	-10.038	0	%100
13	M18	X	0	0	0	%100
14	M18	Z	-10.038	-10.038	0	%100
15	M19	X	0	0	0	%100
16	M19	Z	-6.017	-6.017	0	%100
17	M20	X	0	0	0	%100
18	M20	Z	-6.017	-6.017	0	%100
19	M21	X	0	0	0	%100
20	M21	Z	-6.017	-6.017	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	-6.017	-6.017	0	%100
23	M23	X	0	0	0	%100
24	M23	Z	-6.926	-6.926	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	-8.719	-8.719	0	%100
27	MP3A	X	0	0	0	%100
28	MP3A	Z	-10.555	-10.555	0	%100
29	MP4A	X	0	0	0	%100
30	MP4A	Z	-8.719	-8.719	0	%100
31	MP5A	X	0	0	0	%100
32	MP5A	Z	-8.719	-8.719	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	-8.719	-8.719	0	%100
35	MP2C	X	0	0	0	%100
36	MP2C	Z	-8.719	-8.719	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	-10.555	-10.555	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	-8.719	-8.719	0	%100
41	MP5C	X	0	0	0	%100
42	MP5C	Z	-8.719	-8.719	0	%100
43	MP1B	X	0	0	0	%100
44	MP1B	Z	-8.719	-8.719	0	%100
45	MP2B	X	0	0	0	%100
46	MP2B	Z	-8.719	-8.719	0	%100
47	MP3B	X	0	0	0	%100
48	MP3B	Z	-10.555	-10.555	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
49	MP4B	X	0	0	0	%100
50	MP4B	Z	-8.719	-8.719	0	%100
51	MP5B	X	0	0	0	%100
52	MP5B	Z	-8.719	-8.719	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	0	0	0	%100
59	M51	X	0	0	0	%100
60	M51	Z	0	0	0	%100
61	M52	X	0	0	0	%100
62	M52	Z	-6.017	-6.017	0	%100
63	M53	X	0	0	0	%100
64	M53	Z	-6.017	-6.017	0	%100
65	M54	X	0	0	0	%100
66	M54	Z	-6.017	-6.017	0	%100
67	M55	X	0	0	0	%100
68	M55	Z	-6.017	-6.017	0	%100
69	M56	X	0	0	0	%100
70	M56	Z	-5.726	-5.726	0	%100
71	M57	X	0	0	0	%100
72	M57	Z	-14.105	-14.105	0	%100
73	M58	X	0	0	0	%100
74	M58	Z	-14.105	-14.105	0	%100
75	M60	X	0	0	0	%100
76	M60	Z	-10.555	-10.555	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	-2.639	-2.639	0	%100
79	M76	X	0	0	0	%100
80	M76	Z	-2.639	-2.639	0	%100
81	M83	X	0	0	0	%100
82	M83	Z	-12.434	-12.434	0	%100
83	M84	X	0	0	0	%100
84	M84	Z	-3.108	-3.108	0	%100
85	M85	X	0	0	0	%100
86	M85	Z	-3.108	-3.108	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	4.359	4.359	0	%100
2	MP1A	Z	-7.551	-7.551	0	%100
3	M7	X	5.019	5.019	0	%100
4	M7	Z	-8.693	-8.693	0	%100
5	M8	X	5.019	5.019	0	%100
6	M8	Z	-8.693	-8.693	0	%100
7	M9	X	0	0	0	%100
8	M9	Z	0	0	0	%100
9	M16	X	1.673	1.673	0	%100
10	M16	Z	-2.898	-2.898	0	%100
11	M17	X	1.673	1.673	0	%100
12	M17	Z	-2.898	-2.898	0	%100
13	M18	X	6.692	6.692	0	%100
14	M18	Z	-11.591	-11.591	0	%100
15	M19	X	4.011	4.011	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
16	M19	Z	-6.947	-6.947	0	%100
17	M20	X	4.011	4.011	0	%100
18	M20	Z	-6.947	-6.947	0	%100
19	M21	X	4.011	4.011	0	%100
20	M21	Z	-6.947	-6.947	0	%100
21	M22	X	4.011	4.011	0	%100
22	M22	Z	-6.947	-6.947	0	%100
23	M23	X	3.463	3.463	0	%100
24	M23	Z	-5.998	-5.998	0	%100
25	MP2A	X	4.359	4.359	0	%100
26	MP2A	Z	-7.551	-7.551	0	%100
27	MP3A	X	5.277	5.277	0	%100
28	MP3A	Z	-9.141	-9.141	0	%100
29	MP4A	X	4.359	4.359	0	%100
30	MP4A	Z	-7.551	-7.551	0	%100
31	MP5A	X	4.359	4.359	0	%100
32	MP5A	Z	-7.551	-7.551	0	%100
33	MP1C	X	4.359	4.359	0	%100
34	MP1C	Z	-7.551	-7.551	0	%100
35	MP2C	X	4.359	4.359	0	%100
36	MP2C	Z	-7.551	-7.551	0	%100
37	MP3C	X	5.277	5.277	0	%100
38	MP3C	Z	-9.141	-9.141	0	%100
39	MP4C	X	4.359	4.359	0	%100
40	MP4C	Z	-7.551	-7.551	0	%100
41	MP5C	X	4.359	4.359	0	%100
42	MP5C	Z	-7.551	-7.551	0	%100
43	MP1B	X	4.359	4.359	0	%100
44	MP1B	Z	-7.551	-7.551	0	%100
45	MP2B	X	4.359	4.359	0	%100
46	MP2B	Z	-7.551	-7.551	0	%100
47	MP3B	X	5.277	5.277	0	%100
48	MP3B	Z	-9.141	-9.141	0	%100
49	MP4B	X	4.359	4.359	0	%100
50	MP4B	Z	-7.551	-7.551	0	%100
51	MP5B	X	4.359	4.359	0	%100
52	MP5B	Z	-7.551	-7.551	0	%100
53	M48	X	1.003	1.003	0	%100
54	M48	Z	-1.737	-1.737	0	%100
55	M49	X	1.003	1.003	0	%100
56	M49	Z	-1.737	-1.737	0	%100
57	M50	X	1.003	1.003	0	%100
58	M50	Z	-1.737	-1.737	0	%100
59	M51	X	1.003	1.003	0	%100
60	M51	Z	-1.737	-1.737	0	%100
61	M52	X	1.003	1.003	0	%100
62	M52	Z	-1.737	-1.737	0	%100
63	M53	X	1.003	1.003	0	%100
64	M53	Z	-1.737	-1.737	0	%100
65	M54	X	1.003	1.003	0	%100
66	M54	Z	-1.737	-1.737	0	%100
67	M55	X	1.003	1.003	0	%100
68	M55	Z	-1.737	-1.737	0	%100
69	M56	X	4.26	4.26	0	%100
70	M56	Z	-7.378	-7.378	0	%100
71	M57	X	4.26	4.26	0	%100
72	M57	Z	-7.378	-7.378	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
73	M58	X	8.449	8.449	0	%100
74	M58	Z	-14.634	-14.634	0	%100
75	M60	X	3.958	3.958	0	%100
76	M60	Z	-6.855	-6.855	0	%100
77	M75	X	3.958	3.958	0	%100
78	M75	Z	-6.855	-6.855	0	%100
79	M76	X	0	0	0	%100
80	M76	Z	0	0	0	%100
81	M83	X	4.663	4.663	0	%100
82	M83	Z	-8.076	-8.076	0	%100
83	M84	X	4.663	4.663	0	%100
84	M84	Z	-8.076	-8.076	0	%100
85	M85	X	0	0	0	%100
86	M85	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	7.551	7.551	0	%100
2	MP1A	Z	-4.359	-4.359	0	%100
3	M7	X	2.898	2.898	0	%100
4	M7	Z	-1.673	-1.673	0	%100
5	M8	X	11.591	11.591	0	%100
6	M8	Z	-6.692	-6.692	0	%100
7	M9	X	2.898	2.898	0	%100
8	M9	Z	-1.673	-1.673	0	%100
9	M16	X	8.693	8.693	0	%100
10	M16	Z	-5.019	-5.019	0	%100
11	M17	X	0	0	0	%100
12	M17	Z	0	0	0	%100
13	M18	X	8.693	8.693	0	%100
14	M18	Z	-5.019	-5.019	0	%100
15	M19	X	5.211	5.211	0	%100
16	M19	Z	-3.008	-3.008	0	%100
17	M20	X	5.211	5.211	0	%100
18	M20	Z	-3.008	-3.008	0	%100
19	M21	X	5.211	5.211	0	%100
20	M21	Z	-3.008	-3.008	0	%100
21	M22	X	5.211	5.211	0	%100
22	M22	Z	-3.008	-3.008	0	%100
23	M23	X	5.998	5.998	0	%100
24	M23	Z	-3.463	-3.463	0	%100
25	MP2A	X	7.551	7.551	0	%100
26	MP2A	Z	-4.359	-4.359	0	%100
27	MP3A	X	9.141	9.141	0	%100
28	MP3A	Z	-5.277	-5.277	0	%100
29	MP4A	X	7.551	7.551	0	%100
30	MP4A	Z	-4.359	-4.359	0	%100
31	MP5A	X	7.551	7.551	0	%100
32	MP5A	Z	-4.359	-4.359	0	%100
33	MP1C	X	7.551	7.551	0	%100
34	MP1C	Z	-4.359	-4.359	0	%100
35	MP2C	X	7.551	7.551	0	%100
36	MP2C	Z	-4.359	-4.359	0	%100
37	MP3C	X	9.141	9.141	0	%100
38	MP3C	Z	-5.277	-5.277	0	%100
39	MP4C	X	7.551	7.551	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
40	MP4C	Z	-4.359	-4.359	0	%100
41	MP5C	X	7.551	7.551	0	%100
42	MP5C	Z	-4.359	-4.359	0	%100
43	MP1B	X	7.551	7.551	0	%100
44	MP1B	Z	-4.359	-4.359	0	%100
45	MP2B	X	7.551	7.551	0	%100
46	MP2B	Z	-4.359	-4.359	0	%100
47	MP3B	X	9.141	9.141	0	%100
48	MP3B	Z	-5.277	-5.277	0	%100
49	MP4B	X	7.551	7.551	0	%100
50	MP4B	Z	-4.359	-4.359	0	%100
51	MP5B	X	7.551	7.551	0	%100
52	MP5B	Z	-4.359	-4.359	0	%100
53	M48	X	5.211	5.211	0	%100
54	M48	Z	-3.008	-3.008	0	%100
55	M49	X	5.211	5.211	0	%100
56	M49	Z	-3.008	-3.008	0	%100
57	M50	X	5.211	5.211	0	%100
58	M50	Z	-3.008	-3.008	0	%100
59	M51	X	5.211	5.211	0	%100
60	M51	Z	-3.008	-3.008	0	%100
61	M52	X	0	0	0	%100
62	M52	Z	0	0	0	%100
63	M53	X	0	0	0	%100
64	M53	Z	0	0	0	%100
65	M54	X	0	0	0	%100
66	M54	Z	0	0	0	%100
67	M55	X	0	0	0	%100
68	M55	Z	0	0	0	%100
69	M56	X	12.215	12.215	0	%100
70	M56	Z	-7.052	-7.052	0	%100
71	M57	X	4.959	4.959	0	%100
72	M57	Z	-2.863	-2.863	0	%100
73	M58	X	12.215	12.215	0	%100
74	M58	Z	-7.052	-7.052	0	%100
75	M60	X	2.285	2.285	0	%100
76	M60	Z	-1.319	-1.319	0	%100
77	M75	X	9.141	9.141	0	%100
78	M75	Z	-5.277	-5.277	0	%100
79	M76	X	2.285	2.285	0	%100
80	M76	Z	-1.319	-1.319	0	%100
81	M83	X	2.692	2.692	0	%100
82	M83	Z	-1.554	-1.554	0	%100
83	M84	X	10.768	10.768	0	%100
84	M84	Z	-6.217	-6.217	0	%100
85	M85	X	2.692	2.692	0	%100
86	M85	Z	-1.554	-1.554	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	8.719	8.719	0	%100
2	MP1A	Z	0	0	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	0	0	0	%100
5	M8	X	10.038	10.038	0	%100
6	M8	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
7	M9	X	10.038	10.038	0	%100
8	M9	Z	0	0	0	%100
9	M16	X	13.384	13.384	0	%100
10	M16	Z	0	0	0	%100
11	M17	X	3.346	3.346	0	%100
12	M17	Z	0	0	0	%100
13	M18	X	3.346	3.346	0	%100
14	M18	Z	0	0	0	%100
15	M19	X	2.006	2.006	0	%100
16	M19	Z	0	0	0	%100
17	M20	X	2.006	2.006	0	%100
18	M20	Z	0	0	0	%100
19	M21	X	2.006	2.006	0	%100
20	M21	Z	0	0	0	%100
21	M22	X	2.006	2.006	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	6.926	6.926	0	%100
24	M23	Z	0	0	0	%100
25	MP2A	X	8.719	8.719	0	%100
26	MP2A	Z	0	0	0	%100
27	MP3A	X	10.555	10.555	0	%100
28	MP3A	Z	0	0	0	%100
29	MP4A	X	8.719	8.719	0	%100
30	MP4A	Z	0	0	0	%100
31	MP5A	X	8.719	8.719	0	%100
32	MP5A	Z	0	0	0	%100
33	MP1C	X	8.719	8.719	0	%100
34	MP1C	Z	0	0	0	%100
35	MP2C	X	8.719	8.719	0	%100
36	MP2C	Z	0	0	0	%100
37	MP3C	X	10.555	10.555	0	%100
38	MP3C	Z	0	0	0	%100
39	MP4C	X	8.719	8.719	0	%100
40	MP4C	Z	0	0	0	%100
41	MP5C	X	8.719	8.719	0	%100
42	MP5C	Z	0	0	0	%100
43	MP1B	X	8.719	8.719	0	%100
44	MP1B	Z	0	0	0	%100
45	MP2B	X	8.719	8.719	0	%100
46	MP2B	Z	0	0	0	%100
47	MP3B	X	10.555	10.555	0	%100
48	MP3B	Z	0	0	0	%100
49	MP4B	X	8.719	8.719	0	%100
50	MP4B	Z	0	0	0	%100
51	MP5B	X	8.719	8.719	0	%100
52	MP5B	Z	0	0	0	%100
53	M48	X	8.022	8.022	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	8.022	8.022	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	8.022	8.022	0	%100
58	M50	Z	0	0	0	%100
59	M51	X	8.022	8.022	0	%100
60	M51	Z	0	0	0	%100
61	M52	X	2.006	2.006	0	%100
62	M52	Z	0	0	0	%100
63	M53	X	2.006	2.006	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
64	M53	Z	0	0	0	%100
65	M54	X	2.006	2.006	0	%100
66	M54	Z	0	0	0	%100
67	M55	X	2.006	2.006	0	%100
68	M55	Z	0	0	0	%100
69	M56	X	16.898	16.898	0	%100
70	M56	Z	0	0	0	%100
71	M57	X	8.519	8.519	0	%100
72	M57	Z	0	0	0	%100
73	M58	X	8.519	8.519	0	%100
74	M58	Z	0	0	0	%100
75	M60	X	0	0	0	%100
76	M60	Z	0	0	0	%100
77	M75	X	7.916	7.916	0	%100
78	M75	Z	0	0	0	%100
79	M76	X	7.916	7.916	0	%100
80	M76	Z	0	0	0	%100
81	M83	X	0	0	0	%100
82	M83	Z	0	0	0	%100
83	M84	X	9.325	9.325	0	%100
84	M84	Z	0	0	0	%100
85	M85	X	9.325	9.325	0	%100
86	M85	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	7.551	7.551	0	%100
2	MP1A	Z	4.359	4.359	0	%100
3	M7	X	2.898	2.898	0	%100
4	M7	Z	1.673	1.673	0	%100
5	M8	X	2.898	2.898	0	%100
6	M8	Z	1.673	1.673	0	%100
7	M9	X	11.591	11.591	0	%100
8	M9	Z	6.692	6.692	0	%100
9	M16	X	8.693	8.693	0	%100
10	M16	Z	5.019	5.019	0	%100
11	M17	X	8.693	8.693	0	%100
12	M17	Z	5.019	5.019	0	%100
13	M18	X	0	0	0	%100
14	M18	Z	0	0	0	%100
15	M19	X	0	0	0	%100
16	M19	Z	0	0	0	%100
17	M20	X	0	0	0	%100
18	M20	Z	0	0	0	%100
19	M21	X	0	0	0	%100
20	M21	Z	0	0	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	5.998	5.998	0	%100
24	M23	Z	3.463	3.463	0	%100
25	MP2A	X	7.551	7.551	0	%100
26	MP2A	Z	4.359	4.359	0	%100
27	MP3A	X	9.141	9.141	0	%100
28	MP3A	Z	5.277	5.277	0	%100
29	MP4A	X	7.551	7.551	0	%100
30	MP4A	Z	4.359	4.359	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
31	MP5A	X	7.551	7.551	0	%100
32	MP5A	Z	4.359	4.359	0	%100
33	MP1C	X	7.551	7.551	0	%100
34	MP1C	Z	4.359	4.359	0	%100
35	MP2C	X	7.551	7.551	0	%100
36	MP2C	Z	4.359	4.359	0	%100
37	MP3C	X	9.141	9.141	0	%100
38	MP3C	Z	5.277	5.277	0	%100
39	MP4C	X	7.551	7.551	0	%100
40	MP4C	Z	4.359	4.359	0	%100
41	MP5C	X	7.551	7.551	0	%100
42	MP5C	Z	4.359	4.359	0	%100
43	MP1B	X	7.551	7.551	0	%100
44	MP1B	Z	4.359	4.359	0	%100
45	MP2B	X	7.551	7.551	0	%100
46	MP2B	Z	4.359	4.359	0	%100
47	MP3B	X	9.141	9.141	0	%100
48	MP3B	Z	5.277	5.277	0	%100
49	MP4B	X	7.551	7.551	0	%100
50	MP4B	Z	4.359	4.359	0	%100
51	MP5B	X	7.551	7.551	0	%100
52	MP5B	Z	4.359	4.359	0	%100
53	M48	X	5.211	5.211	0	%100
54	M48	Z	3.008	3.008	0	%100
55	M49	X	5.211	5.211	0	%100
56	M49	Z	3.008	3.008	0	%100
57	M50	X	5.211	5.211	0	%100
58	M50	Z	3.008	3.008	0	%100
59	M51	X	5.211	5.211	0	%100
60	M51	Z	3.008	3.008	0	%100
61	M52	X	5.211	5.211	0	%100
62	M52	Z	3.008	3.008	0	%100
63	M53	X	5.211	5.211	0	%100
64	M53	Z	3.008	3.008	0	%100
65	M54	X	5.211	5.211	0	%100
66	M54	Z	3.008	3.008	0	%100
67	M55	X	5.211	5.211	0	%100
68	M55	Z	3.008	3.008	0	%100
69	M56	X	12.215	12.215	0	%100
70	M56	Z	7.052	7.052	0	%100
71	M57	X	12.215	12.215	0	%100
72	M57	Z	7.052	7.052	0	%100
73	M58	X	4.959	4.959	0	%100
74	M58	Z	2.863	2.863	0	%100
75	M60	X	2.285	2.285	0	%100
76	M60	Z	1.319	1.319	0	%100
77	M75	X	2.285	2.285	0	%100
78	M75	Z	1.319	1.319	0	%100
79	M76	X	9.141	9.141	0	%100
80	M76	Z	5.277	5.277	0	%100
81	M83	X	2.692	2.692	0	%100
82	M83	Z	1.554	1.554	0	%100
83	M84	X	2.692	2.692	0	%100
84	M84	Z	1.554	1.554	0	%100
85	M85	X	10.768	10.768	0	%100
86	M85	Z	6.217	6.217	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	4.359	4.359	0	%100
2	MP1A	Z	7.551	7.551	0	%100
3	M7	X	5.019	5.019	0	%100
4	M7	Z	8.693	8.693	0	%100
5	M8	X	0	0	0	%100
6	M8	Z	0	0	0	%100
7	M9	X	5.019	5.019	0	%100
8	M9	Z	8.693	8.693	0	%100
9	M16	X	1.673	1.673	0	%100
10	M16	Z	2.898	2.898	0	%100
11	M17	X	6.692	6.692	0	%100
12	M17	Z	11.591	11.591	0	%100
13	M18	X	1.673	1.673	0	%100
14	M18	Z	2.898	2.898	0	%100
15	M19	X	1.003	1.003	0	%100
16	M19	Z	1.737	1.737	0	%100
17	M20	X	1.003	1.003	0	%100
18	M20	Z	1.737	1.737	0	%100
19	M21	X	1.003	1.003	0	%100
20	M21	Z	1.737	1.737	0	%100
21	M22	X	1.003	1.003	0	%100
22	M22	Z	1.737	1.737	0	%100
23	M23	X	3.463	3.463	0	%100
24	M23	Z	5.998	5.998	0	%100
25	MP2A	X	4.359	4.359	0	%100
26	MP2A	Z	7.551	7.551	0	%100
27	MP3A	X	5.277	5.277	0	%100
28	MP3A	Z	9.141	9.141	0	%100
29	MP4A	X	4.359	4.359	0	%100
30	MP4A	Z	7.551	7.551	0	%100
31	MP5A	X	4.359	4.359	0	%100
32	MP5A	Z	7.551	7.551	0	%100
33	MP1C	X	4.359	4.359	0	%100
34	MP1C	Z	7.551	7.551	0	%100
35	MP2C	X	4.359	4.359	0	%100
36	MP2C	Z	7.551	7.551	0	%100
37	MP3C	X	5.277	5.277	0	%100
38	MP3C	Z	9.141	9.141	0	%100
39	MP4C	X	4.359	4.359	0	%100
40	MP4C	Z	7.551	7.551	0	%100
41	MP5C	X	4.359	4.359	0	%100
42	MP5C	Z	7.551	7.551	0	%100
43	MP1B	X	4.359	4.359	0	%100
44	MP1B	Z	7.551	7.551	0	%100
45	MP2B	X	4.359	4.359	0	%100
46	MP2B	Z	7.551	7.551	0	%100
47	MP3B	X	5.277	5.277	0	%100
48	MP3B	Z	9.141	9.141	0	%100
49	MP4B	X	4.359	4.359	0	%100
50	MP4B	Z	7.551	7.551	0	%100
51	MP5B	X	4.359	4.359	0	%100
52	MP5B	Z	7.551	7.551	0	%100
53	M48	X	1.003	1.003	0	%100
54	M48	Z	1.737	1.737	0	%100
55	M49	X	1.003	1.003	0	%100
56	M49	Z	1.737	1.737	0	%100
57	M50	X	1.003	1.003	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
58	M50	Z	1.737	1.737	0	%100
59	M51	X	1.003	1.003	0	%100
60	M51	Z	1.737	1.737	0	%100
61	M52	X	4.011	4.011	0	%100
62	M52	Z	6.947	6.947	0	%100
63	M53	X	4.011	4.011	0	%100
64	M53	Z	6.947	6.947	0	%100
65	M54	X	4.011	4.011	0	%100
66	M54	Z	6.947	6.947	0	%100
67	M55	X	4.011	4.011	0	%100
68	M55	Z	6.947	6.947	0	%100
69	M56	X	4.26	4.26	0	%100
70	M56	Z	7.378	7.378	0	%100
71	M57	X	8.449	8.449	0	%100
72	M57	Z	14.634	14.634	0	%100
73	M58	X	4.26	4.26	0	%100
74	M58	Z	7.378	7.378	0	%100
75	M60	X	3.958	3.958	0	%100
76	M60	Z	6.855	6.855	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	0	0	0	%100
79	M76	X	3.958	3.958	0	%100
80	M76	Z	6.855	6.855	0	%100
81	M83	X	4.663	4.663	0	%100
82	M83	Z	8.076	8.076	0	%100
83	M84	X	0	0	0	%100
84	M84	Z	0	0	0	%100
85	M85	X	4.663	4.663	0	%100
86	M85	Z	8.076	8.076	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	0	0	0	%100
2	MP1A	Z	8.719	8.719	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	13.384	13.384	0	%100
5	M8	X	0	0	0	%100
6	M8	Z	3.346	3.346	0	%100
7	M9	X	0	0	0	%100
8	M9	Z	3.346	3.346	0	%100
9	M16	X	0	0	0	%100
10	M16	Z	0	0	0	%100
11	M17	X	0	0	0	%100
12	M17	Z	10.038	10.038	0	%100
13	M18	X	0	0	0	%100
14	M18	Z	10.038	10.038	0	%100
15	M19	X	0	0	0	%100
16	M19	Z	6.017	6.017	0	%100
17	M20	X	0	0	0	%100
18	M20	Z	6.017	6.017	0	%100
19	M21	X	0	0	0	%100
20	M21	Z	6.017	6.017	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	6.017	6.017	0	%100
23	M23	X	0	0	0	%100
24	M23	Z	6.926	6.926	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
25	MP2A	X	0	0	0	%100
26	MP2A	Z	8.719	8.719	0	%100
27	MP3A	X	0	0	0	%100
28	MP3A	Z	10.555	10.555	0	%100
29	MP4A	X	0	0	0	%100
30	MP4A	Z	8.719	8.719	0	%100
31	MP5A	X	0	0	0	%100
32	MP5A	Z	8.719	8.719	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	8.719	8.719	0	%100
35	MP2C	X	0	0	0	%100
36	MP2C	Z	8.719	8.719	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	10.555	10.555	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	8.719	8.719	0	%100
41	MP5C	X	0	0	0	%100
42	MP5C	Z	8.719	8.719	0	%100
43	MP1B	X	0	0	0	%100
44	MP1B	Z	8.719	8.719	0	%100
45	MP2B	X	0	0	0	%100
46	MP2B	Z	8.719	8.719	0	%100
47	MP3B	X	0	0	0	%100
48	MP3B	Z	10.555	10.555	0	%100
49	MP4B	X	0	0	0	%100
50	MP4B	Z	8.719	8.719	0	%100
51	MP5B	X	0	0	0	%100
52	MP5B	Z	8.719	8.719	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	0	0	0	%100
59	M51	X	0	0	0	%100
60	M51	Z	0	0	0	%100
61	M52	X	0	0	0	%100
62	M52	Z	6.017	6.017	0	%100
63	M53	X	0	0	0	%100
64	M53	Z	6.017	6.017	0	%100
65	M54	X	0	0	0	%100
66	M54	Z	6.017	6.017	0	%100
67	M55	X	0	0	0	%100
68	M55	Z	6.017	6.017	0	%100
69	M56	X	0	0	0	%100
70	M56	Z	5.726	5.726	0	%100
71	M57	X	0	0	0	%100
72	M57	Z	14.105	14.105	0	%100
73	M58	X	0	0	0	%100
74	M58	Z	14.105	14.105	0	%100
75	M60	X	0	0	0	%100
76	M60	Z	10.555	10.555	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	2.639	2.639	0	%100
79	M76	X	0	0	0	%100
80	M76	Z	2.639	2.639	0	%100
81	M83	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
82	M83	Z	12.434	12.434	0	%100
83	M84	X	0	0	0	%100
84	M84	Z	3.108	3.108	0	%100
85	M85	X	0	0	0	%100
86	M85	Z	3.108	3.108	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	-4.359	-4.359	0	%100
2	MP1A	Z	7.551	7.551	0	%100
3	M7	X	-5.019	-5.019	0	%100
4	M7	Z	8.693	8.693	0	%100
5	M8	X	-5.019	-5.019	0	%100
6	M8	Z	8.693	8.693	0	%100
7	M9	X	0	0	0	%100
8	M9	Z	0	0	0	%100
9	M16	X	-1.673	-1.673	0	%100
10	M16	Z	2.898	2.898	0	%100
11	M17	X	-1.673	-1.673	0	%100
12	M17	Z	2.898	2.898	0	%100
13	M18	X	-6.692	-6.692	0	%100
14	M18	Z	11.591	11.591	0	%100
15	M19	X	-4.011	-4.011	0	%100
16	M19	Z	6.947	6.947	0	%100
17	M20	X	-4.011	-4.011	0	%100
18	M20	Z	6.947	6.947	0	%100
19	M21	X	-4.011	-4.011	0	%100
20	M21	Z	6.947	6.947	0	%100
21	M22	X	-4.011	-4.011	0	%100
22	M22	Z	6.947	6.947	0	%100
23	M23	X	-3.463	-3.463	0	%100
24	M23	Z	5.998	5.998	0	%100
25	MP2A	X	-4.359	-4.359	0	%100
26	MP2A	Z	7.551	7.551	0	%100
27	MP3A	X	-5.277	-5.277	0	%100
28	MP3A	Z	9.141	9.141	0	%100
29	MP4A	X	-4.359	-4.359	0	%100
30	MP4A	Z	7.551	7.551	0	%100
31	MP5A	X	-4.359	-4.359	0	%100
32	MP5A	Z	7.551	7.551	0	%100
33	MP1C	X	-4.359	-4.359	0	%100
34	MP1C	Z	7.551	7.551	0	%100
35	MP2C	X	-4.359	-4.359	0	%100
36	MP2C	Z	7.551	7.551	0	%100
37	MP3C	X	-5.277	-5.277	0	%100
38	MP3C	Z	9.141	9.141	0	%100
39	MP4C	X	-4.359	-4.359	0	%100
40	MP4C	Z	7.551	7.551	0	%100
41	MP5C	X	-4.359	-4.359	0	%100
42	MP5C	Z	7.551	7.551	0	%100
43	MP1B	X	-4.359	-4.359	0	%100
44	MP1B	Z	7.551	7.551	0	%100
45	MP2B	X	-4.359	-4.359	0	%100
46	MP2B	Z	7.551	7.551	0	%100
47	MP3B	X	-5.277	-5.277	0	%100
48	MP3B	Z	9.141	9.141	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
49	MP4B	X	-4.359	-4.359	0	%100
50	MP4B	Z	7.551	7.551	0	%100
51	MP5B	X	-4.359	-4.359	0	%100
52	MP5B	Z	7.551	7.551	0	%100
53	M48	X	-1.003	-1.003	0	%100
54	M48	Z	1.737	1.737	0	%100
55	M49	X	-1.003	-1.003	0	%100
56	M49	Z	1.737	1.737	0	%100
57	M50	X	-1.003	-1.003	0	%100
58	M50	Z	1.737	1.737	0	%100
59	M51	X	-1.003	-1.003	0	%100
60	M51	Z	1.737	1.737	0	%100
61	M52	X	-1.003	-1.003	0	%100
62	M52	Z	1.737	1.737	0	%100
63	M53	X	-1.003	-1.003	0	%100
64	M53	Z	1.737	1.737	0	%100
65	M54	X	-1.003	-1.003	0	%100
66	M54	Z	1.737	1.737	0	%100
67	M55	X	-1.003	-1.003	0	%100
68	M55	Z	1.737	1.737	0	%100
69	M56	X	-4.26	-4.26	0	%100
70	M56	Z	7.378	7.378	0	%100
71	M57	X	-4.26	-4.26	0	%100
72	M57	Z	7.378	7.378	0	%100
73	M58	X	-8.449	-8.449	0	%100
74	M58	Z	14.634	14.634	0	%100
75	M60	X	-3.958	-3.958	0	%100
76	M60	Z	6.855	6.855	0	%100
77	M75	X	-3.958	-3.958	0	%100
78	M75	Z	6.855	6.855	0	%100
79	M76	X	0	0	0	%100
80	M76	Z	0	0	0	%100
81	M83	X	-4.663	-4.663	0	%100
82	M83	Z	8.076	8.076	0	%100
83	M84	X	-4.663	-4.663	0	%100
84	M84	Z	8.076	8.076	0	%100
85	M85	X	0	0	0	%100
86	M85	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	-7.551	-7.551	0	%100
2	MP1A	Z	4.359	4.359	0	%100
3	M7	X	-2.898	-2.898	0	%100
4	M7	Z	1.673	1.673	0	%100
5	M8	X	-11.591	-11.591	0	%100
6	M8	Z	6.692	6.692	0	%100
7	M9	X	-2.898	-2.898	0	%100
8	M9	Z	1.673	1.673	0	%100
9	M16	X	-8.693	-8.693	0	%100
10	M16	Z	5.019	5.019	0	%100
11	M17	X	0	0	0	%100
12	M17	Z	0	0	0	%100
13	M18	X	-8.693	-8.693	0	%100
14	M18	Z	5.019	5.019	0	%100
15	M19	X	-5.211	-5.211	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
16	M19	Z	3.008	3.008	0	%100
17	M20	X	-5.211	-5.211	0	%100
18	M20	Z	3.008	3.008	0	%100
19	M21	X	-5.211	-5.211	0	%100
20	M21	Z	3.008	3.008	0	%100
21	M22	X	-5.211	-5.211	0	%100
22	M22	Z	3.008	3.008	0	%100
23	M23	X	-5.998	-5.998	0	%100
24	M23	Z	3.463	3.463	0	%100
25	MP2A	X	-7.551	-7.551	0	%100
26	MP2A	Z	4.359	4.359	0	%100
27	MP3A	X	-9.141	-9.141	0	%100
28	MP3A	Z	5.277	5.277	0	%100
29	MP4A	X	-7.551	-7.551	0	%100
30	MP4A	Z	4.359	4.359	0	%100
31	MP5A	X	-7.551	-7.551	0	%100
32	MP5A	Z	4.359	4.359	0	%100
33	MP1C	X	-7.551	-7.551	0	%100
34	MP1C	Z	4.359	4.359	0	%100
35	MP2C	X	-7.551	-7.551	0	%100
36	MP2C	Z	4.359	4.359	0	%100
37	MP3C	X	-9.141	-9.141	0	%100
38	MP3C	Z	5.277	5.277	0	%100
39	MP4C	X	-7.551	-7.551	0	%100
40	MP4C	Z	4.359	4.359	0	%100
41	MP5C	X	-7.551	-7.551	0	%100
42	MP5C	Z	4.359	4.359	0	%100
43	MP1B	X	-7.551	-7.551	0	%100
44	MP1B	Z	4.359	4.359	0	%100
45	MP2B	X	-7.551	-7.551	0	%100
46	MP2B	Z	4.359	4.359	0	%100
47	MP3B	X	-9.141	-9.141	0	%100
48	MP3B	Z	5.277	5.277	0	%100
49	MP4B	X	-7.551	-7.551	0	%100
50	MP4B	Z	4.359	4.359	0	%100
51	MP5B	X	-7.551	-7.551	0	%100
52	MP5B	Z	4.359	4.359	0	%100
53	M48	X	-5.211	-5.211	0	%100
54	M48	Z	3.008	3.008	0	%100
55	M49	X	-5.211	-5.211	0	%100
56	M49	Z	3.008	3.008	0	%100
57	M50	X	-5.211	-5.211	0	%100
58	M50	Z	3.008	3.008	0	%100
59	M51	X	-5.211	-5.211	0	%100
60	M51	Z	3.008	3.008	0	%100
61	M52	X	0	0	0	%100
62	M52	Z	0	0	0	%100
63	M53	X	0	0	0	%100
64	M53	Z	0	0	0	%100
65	M54	X	0	0	0	%100
66	M54	Z	0	0	0	%100
67	M55	X	0	0	0	%100
68	M55	Z	0	0	0	%100
69	M56	X	-12.215	-12.215	0	%100
70	M56	Z	7.052	7.052	0	%100
71	M57	X	-4.959	-4.959	0	%100
72	M57	Z	2.863	2.863	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
73	M58	X	-12.215	-12.215	0	%100
74	M58	Z	7.052	7.052	0	%100
75	M60	X	-2.285	-2.285	0	%100
76	M60	Z	1.319	1.319	0	%100
77	M75	X	-9.141	-9.141	0	%100
78	M75	Z	5.277	5.277	0	%100
79	M76	X	-2.285	-2.285	0	%100
80	M76	Z	1.319	1.319	0	%100
81	M83	X	-2.692	-2.692	0	%100
82	M83	Z	1.554	1.554	0	%100
83	M84	X	-10.768	-10.768	0	%100
84	M84	Z	6.217	6.217	0	%100
85	M85	X	-2.692	-2.692	0	%100
86	M85	Z	1.554	1.554	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	-8.719	-8.719	0	%100
2	MP1A	Z	0	0	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	0	0	0	%100
5	M8	X	-10.038	-10.038	0	%100
6	M8	Z	0	0	0	%100
7	M9	X	-10.038	-10.038	0	%100
8	M9	Z	0	0	0	%100
9	M16	X	-13.384	-13.384	0	%100
10	M16	Z	0	0	0	%100
11	M17	X	-3.346	-3.346	0	%100
12	M17	Z	0	0	0	%100
13	M18	X	-3.346	-3.346	0	%100
14	M18	Z	0	0	0	%100
15	M19	X	-2.006	-2.006	0	%100
16	M19	Z	0	0	0	%100
17	M20	X	-2.006	-2.006	0	%100
18	M20	Z	0	0	0	%100
19	M21	X	-2.006	-2.006	0	%100
20	M21	Z	0	0	0	%100
21	M22	X	-2.006	-2.006	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	-6.926	-6.926	0	%100
24	M23	Z	0	0	0	%100
25	MP2A	X	-8.719	-8.719	0	%100
26	MP2A	Z	0	0	0	%100
27	MP3A	X	-10.555	-10.555	0	%100
28	MP3A	Z	0	0	0	%100
29	MP4A	X	-8.719	-8.719	0	%100
30	MP4A	Z	0	0	0	%100
31	MP5A	X	-8.719	-8.719	0	%100
32	MP5A	Z	0	0	0	%100
33	MP1C	X	-8.719	-8.719	0	%100
34	MP1C	Z	0	0	0	%100
35	MP2C	X	-8.719	-8.719	0	%100
36	MP2C	Z	0	0	0	%100
37	MP3C	X	-10.555	-10.555	0	%100
38	MP3C	Z	0	0	0	%100
39	MP4C	X	-8.719	-8.719	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
40	MP4C	Z	0	0	0	%100
41	MP5C	X	-8.719	-8.719	0	%100
42	MP5C	Z	0	0	0	%100
43	MP1B	X	-8.719	-8.719	0	%100
44	MP1B	Z	0	0	0	%100
45	MP2B	X	-8.719	-8.719	0	%100
46	MP2B	Z	0	0	0	%100
47	MP3B	X	-10.555	-10.555	0	%100
48	MP3B	Z	0	0	0	%100
49	MP4B	X	-8.719	-8.719	0	%100
50	MP4B	Z	0	0	0	%100
51	MP5B	X	-8.719	-8.719	0	%100
52	MP5B	Z	0	0	0	%100
53	M48	X	-8.022	-8.022	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	-8.022	-8.022	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	-8.022	-8.022	0	%100
58	M50	Z	0	0	0	%100
59	M51	X	-8.022	-8.022	0	%100
60	M51	Z	0	0	0	%100
61	M52	X	-2.006	-2.006	0	%100
62	M52	Z	0	0	0	%100
63	M53	X	-2.006	-2.006	0	%100
64	M53	Z	0	0	0	%100
65	M54	X	-2.006	-2.006	0	%100
66	M54	Z	0	0	0	%100
67	M55	X	-2.006	-2.006	0	%100
68	M55	Z	0	0	0	%100
69	M56	X	-16.898	-16.898	0	%100
70	M56	Z	0	0	0	%100
71	M57	X	-8.519	-8.519	0	%100
72	M57	Z	0	0	0	%100
73	M58	X	-8.519	-8.519	0	%100
74	M58	Z	0	0	0	%100
75	M60	X	0	0	0	%100
76	M60	Z	0	0	0	%100
77	M75	X	-7.916	-7.916	0	%100
78	M75	Z	0	0	0	%100
79	M76	X	-7.916	-7.916	0	%100
80	M76	Z	0	0	0	%100
81	M83	X	0	0	0	%100
82	M83	Z	0	0	0	%100
83	M84	X	-9.325	-9.325	0	%100
84	M84	Z	0	0	0	%100
85	M85	X	-9.325	-9.325	0	%100
86	M85	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	-7.551	-7.551	0	%100
2	MP1A	Z	-4.359	-4.359	0	%100
3	M7	X	-2.898	-2.898	0	%100
4	M7	Z	-1.673	-1.673	0	%100
5	M8	X	-2.898	-2.898	0	%100
6	M8	Z	-1.673	-1.673	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
7	M9	X	-11.591	-11.591	0	%100
8	M9	Z	-6.692	-6.692	0	%100
9	M16	X	-8.693	-8.693	0	%100
10	M16	Z	-5.019	-5.019	0	%100
11	M17	X	-8.693	-8.693	0	%100
12	M17	Z	-5.019	-5.019	0	%100
13	M18	X	0	0	0	%100
14	M18	Z	0	0	0	%100
15	M19	X	0	0	0	%100
16	M19	Z	0	0	0	%100
17	M20	X	0	0	0	%100
18	M20	Z	0	0	0	%100
19	M21	X	0	0	0	%100
20	M21	Z	0	0	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	-5.998	-5.998	0	%100
24	M23	Z	-3.463	-3.463	0	%100
25	MP2A	X	-7.551	-7.551	0	%100
26	MP2A	Z	-4.359	-4.359	0	%100
27	MP3A	X	-9.141	-9.141	0	%100
28	MP3A	Z	-5.277	-5.277	0	%100
29	MP4A	X	-7.551	-7.551	0	%100
30	MP4A	Z	-4.359	-4.359	0	%100
31	MP5A	X	-7.551	-7.551	0	%100
32	MP5A	Z	-4.359	-4.359	0	%100
33	MP1C	X	-7.551	-7.551	0	%100
34	MP1C	Z	-4.359	-4.359	0	%100
35	MP2C	X	-7.551	-7.551	0	%100
36	MP2C	Z	-4.359	-4.359	0	%100
37	MP3C	X	-9.141	-9.141	0	%100
38	MP3C	Z	-5.277	-5.277	0	%100
39	MP4C	X	-7.551	-7.551	0	%100
40	MP4C	Z	-4.359	-4.359	0	%100
41	MP5C	X	-7.551	-7.551	0	%100
42	MP5C	Z	-4.359	-4.359	0	%100
43	MP1B	X	-7.551	-7.551	0	%100
44	MP1B	Z	-4.359	-4.359	0	%100
45	MP2B	X	-7.551	-7.551	0	%100
46	MP2B	Z	-4.359	-4.359	0	%100
47	MP3B	X	-9.141	-9.141	0	%100
48	MP3B	Z	-5.277	-5.277	0	%100
49	MP4B	X	-7.551	-7.551	0	%100
50	MP4B	Z	-4.359	-4.359	0	%100
51	MP5B	X	-7.551	-7.551	0	%100
52	MP5B	Z	-4.359	-4.359	0	%100
53	M48	X	-5.211	-5.211	0	%100
54	M48	Z	-3.008	-3.008	0	%100
55	M49	X	-5.211	-5.211	0	%100
56	M49	Z	-3.008	-3.008	0	%100
57	M50	X	-5.211	-5.211	0	%100
58	M50	Z	-3.008	-3.008	0	%100
59	M51	X	-5.211	-5.211	0	%100
60	M51	Z	-3.008	-3.008	0	%100
61	M52	X	-5.211	-5.211	0	%100
62	M52	Z	-3.008	-3.008	0	%100
63	M53	X	-5.211	-5.211	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
64	M53	Z	-3.008	-3.008	0	%100
65	M54	X	-5.211	-5.211	0	%100
66	M54	Z	-3.008	-3.008	0	%100
67	M55	X	-5.211	-5.211	0	%100
68	M55	Z	-3.008	-3.008	0	%100
69	M56	X	-12.215	-12.215	0	%100
70	M56	Z	-7.052	-7.052	0	%100
71	M57	X	-12.215	-12.215	0	%100
72	M57	Z	-7.052	-7.052	0	%100
73	M58	X	-4.959	-4.959	0	%100
74	M58	Z	-2.863	-2.863	0	%100
75	M60	X	-2.285	-2.285	0	%100
76	M60	Z	-1.319	-1.319	0	%100
77	M75	X	-2.285	-2.285	0	%100
78	M75	Z	-1.319	-1.319	0	%100
79	M76	X	-9.141	-9.141	0	%100
80	M76	Z	-5.277	-5.277	0	%100
81	M83	X	-2.692	-2.692	0	%100
82	M83	Z	-1.554	-1.554	0	%100
83	M84	X	-2.692	-2.692	0	%100
84	M84	Z	-1.554	-1.554	0	%100
85	M85	X	-10.768	-10.768	0	%100
86	M85	Z	-6.217	-6.217	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	-4.359	-4.359	0	%100
2	MP1A	Z	-7.551	-7.551	0	%100
3	M7	X	-5.019	-5.019	0	%100
4	M7	Z	-8.693	-8.693	0	%100
5	M8	X	0	0	0	%100
6	M8	Z	0	0	0	%100
7	M9	X	-5.019	-5.019	0	%100
8	M9	Z	-8.693	-8.693	0	%100
9	M16	X	-1.673	-1.673	0	%100
10	M16	Z	-2.898	-2.898	0	%100
11	M17	X	-6.692	-6.692	0	%100
12	M17	Z	-11.591	-11.591	0	%100
13	M18	X	-1.673	-1.673	0	%100
14	M18	Z	-2.898	-2.898	0	%100
15	M19	X	-1.003	-1.003	0	%100
16	M19	Z	-1.737	-1.737	0	%100
17	M20	X	-1.003	-1.003	0	%100
18	M20	Z	-1.737	-1.737	0	%100
19	M21	X	-1.003	-1.003	0	%100
20	M21	Z	-1.737	-1.737	0	%100
21	M22	X	-1.003	-1.003	0	%100
22	M22	Z	-1.737	-1.737	0	%100
23	M23	X	-3.463	-3.463	0	%100
24	M23	Z	-5.998	-5.998	0	%100
25	MP2A	X	-4.359	-4.359	0	%100
26	MP2A	Z	-7.551	-7.551	0	%100
27	MP3A	X	-5.277	-5.277	0	%100
28	MP3A	Z	-9.141	-9.141	0	%100
29	MP4A	X	-4.359	-4.359	0	%100
30	MP4A	Z	-7.551	-7.551	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
31	MP5A	X	-4.359	-4.359	0	%100
32	MP5A	Z	-7.551	-7.551	0	%100
33	MP1C	X	-4.359	-4.359	0	%100
34	MP1C	Z	-7.551	-7.551	0	%100
35	MP2C	X	-4.359	-4.359	0	%100
36	MP2C	Z	-7.551	-7.551	0	%100
37	MP3C	X	-5.277	-5.277	0	%100
38	MP3C	Z	-9.141	-9.141	0	%100
39	MP4C	X	-4.359	-4.359	0	%100
40	MP4C	Z	-7.551	-7.551	0	%100
41	MP5C	X	-4.359	-4.359	0	%100
42	MP5C	Z	-7.551	-7.551	0	%100
43	MP1B	X	-4.359	-4.359	0	%100
44	MP1B	Z	-7.551	-7.551	0	%100
45	MP2B	X	-4.359	-4.359	0	%100
46	MP2B	Z	-7.551	-7.551	0	%100
47	MP3B	X	-5.277	-5.277	0	%100
48	MP3B	Z	-9.141	-9.141	0	%100
49	MP4B	X	-4.359	-4.359	0	%100
50	MP4B	Z	-7.551	-7.551	0	%100
51	MP5B	X	-4.359	-4.359	0	%100
52	MP5B	Z	-7.551	-7.551	0	%100
53	M48	X	-1.003	-1.003	0	%100
54	M48	Z	-1.737	-1.737	0	%100
55	M49	X	-1.003	-1.003	0	%100
56	M49	Z	-1.737	-1.737	0	%100
57	M50	X	-1.003	-1.003	0	%100
58	M50	Z	-1.737	-1.737	0	%100
59	M51	X	-1.003	-1.003	0	%100
60	M51	Z	-1.737	-1.737	0	%100
61	M52	X	-4.011	-4.011	0	%100
62	M52	Z	-6.947	-6.947	0	%100
63	M53	X	-4.011	-4.011	0	%100
64	M53	Z	-6.947	-6.947	0	%100
65	M54	X	-4.011	-4.011	0	%100
66	M54	Z	-6.947	-6.947	0	%100
67	M55	X	-4.011	-4.011	0	%100
68	M55	Z	-6.947	-6.947	0	%100
69	M56	X	-4.26	-4.26	0	%100
70	M56	Z	-7.378	-7.378	0	%100
71	M57	X	-8.449	-8.449	0	%100
72	M57	Z	-14.634	-14.634	0	%100
73	M58	X	-4.26	-4.26	0	%100
74	M58	Z	-7.378	-7.378	0	%100
75	M60	X	-3.958	-3.958	0	%100
76	M60	Z	-6.855	-6.855	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	0	0	0	%100
79	M76	X	-3.958	-3.958	0	%100
80	M76	Z	-6.855	-6.855	0	%100
81	M83	X	-4.663	-4.663	0	%100
82	M83	Z	-8.076	-8.076	0	%100
83	M84	X	0	0	0	%100
84	M84	Z	0	0	0	%100
85	M85	X	-4.663	-4.663	0	%100
86	M85	Z	-8.076	-8.076	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	0	0	0	%100
2	MP1A	Z	-2.974	-2.974	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	-3.771	-3.771	0	%100
5	M8	X	0	0	0	%100
6	M8	Z	-.943	-.943	0	%100
7	M9	X	0	0	0	%100
8	M9	Z	-.943	-.943	0	%100
9	M16	X	0	0	0	%100
10	M16	Z	0	0	0	%100
11	M17	X	0	0	0	%100
12	M17	Z	-2.828	-2.828	0	%100
13	M18	X	0	0	0	%100
14	M18	Z	-2.828	-2.828	0	%100
15	M19	X	0	0	0	%100
16	M19	Z	-1.713	-1.713	0	%100
17	M20	X	0	0	0	%100
18	M20	Z	-1.713	-1.713	0	%100
19	M21	X	0	0	0	%100
20	M21	Z	-1.713	-1.713	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	-1.713	-1.713	0	%100
23	M23	X	0	0	0	%100
24	M23	Z	-2.363	-2.363	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	-2.974	-2.974	0	%100
27	MP3A	X	0	0	0	%100
28	MP3A	Z	-3.288	-3.288	0	%100
29	MP4A	X	0	0	0	%100
30	MP4A	Z	-2.974	-2.974	0	%100
31	MP5A	X	0	0	0	%100
32	MP5A	Z	-2.974	-2.974	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	-2.974	-2.974	0	%100
35	MP2C	X	0	0	0	%100
36	MP2C	Z	-2.974	-2.974	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	-3.288	-3.288	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	-2.974	-2.974	0	%100
41	MP5C	X	0	0	0	%100
42	MP5C	Z	-2.974	-2.974	0	%100
43	MP1B	X	0	0	0	%100
44	MP1B	Z	-2.974	-2.974	0	%100
45	MP2B	X	0	0	0	%100
46	MP2B	Z	-2.974	-2.974	0	%100
47	MP3B	X	0	0	0	%100
48	MP3B	Z	-3.288	-3.288	0	%100
49	MP4B	X	0	0	0	%100
50	MP4B	Z	-2.974	-2.974	0	%100
51	MP5B	X	0	0	0	%100
52	MP5B	Z	-2.974	-2.974	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
58	M50	Z	0	0	0	%100
59	M51	X	0	0	0	%100
60	M51	Z	0	0	0	%100
61	M52	X	0	0	0	%100
62	M52	Z	-1.713	-1.713	0	%100
63	M53	X	0	0	0	%100
64	M53	Z	-1.713	-1.713	0	%100
65	M54	X	0	0	0	%100
66	M54	Z	-1.713	-1.713	0	%100
67	M55	X	0	0	0	%100
68	M55	Z	-1.713	-1.713	0	%100
69	M56	X	0	0	0	%100
70	M56	Z	-1.272	-1.272	0	%100
71	M57	X	0	0	0	%100
72	M57	Z	-3.596	-3.596	0	%100
73	M58	X	0	0	0	%100
74	M58	Z	-3.596	-3.596	0	%100
75	M60	X	0	0	0	%100
76	M60	Z	-3.288	-3.288	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	-.822	-.822	0	%100
79	M76	X	0	0	0	%100
80	M76	Z	-.822	-.822	0	%100
81	M83	X	0	0	0	%100
82	M83	Z	-3.129	-3.129	0	%100
83	M84	X	0	0	0	%100
84	M84	Z	-.782	-.782	0	%100
85	M85	X	0	0	0	%100
86	M85	Z	-.782	-.782	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	1.487	1.487	0	%100
2	MP1A	Z	-2.576	-2.576	0	%100
3	M7	X	1.414	1.414	0	%100
4	M7	Z	-2.449	-2.449	0	%100
5	M8	X	1.414	1.414	0	%100
6	M8	Z	-2.449	-2.449	0	%100
7	M9	X	0	0	0	%100
8	M9	Z	0	0	0	%100
9	M16	X	.471	.471	0	%100
10	M16	Z	-.816	-.816	0	%100
11	M17	X	.471	.471	0	%100
12	M17	Z	-.816	-.816	0	%100
13	M18	X	1.885	1.885	0	%100
14	M18	Z	-3.266	-3.266	0	%100
15	M19	X	1.142	1.142	0	%100
16	M19	Z	-1.978	-1.978	0	%100
17	M20	X	1.142	1.142	0	%100
18	M20	Z	-1.978	-1.978	0	%100
19	M21	X	1.142	1.142	0	%100
20	M21	Z	-1.978	-1.978	0	%100
21	M22	X	1.142	1.142	0	%100
22	M22	Z	-1.978	-1.978	0	%100
23	M23	X	1.182	1.182	0	%100
24	M23	Z	-2.047	-2.047	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
25	MP2A	X	1.487	1.487	0	%100
26	MP2A	Z	-2.576	-2.576	0	%100
27	MP3A	X	1.644	1.644	0	%100
28	MP3A	Z	-2.847	-2.847	0	%100
29	MP4A	X	1.487	1.487	0	%100
30	MP4A	Z	-2.576	-2.576	0	%100
31	MP5A	X	1.487	1.487	0	%100
32	MP5A	Z	-2.576	-2.576	0	%100
33	MP1C	X	1.487	1.487	0	%100
34	MP1C	Z	-2.576	-2.576	0	%100
35	MP2C	X	1.487	1.487	0	%100
36	MP2C	Z	-2.576	-2.576	0	%100
37	MP3C	X	1.644	1.644	0	%100
38	MP3C	Z	-2.847	-2.847	0	%100
39	MP4C	X	1.487	1.487	0	%100
40	MP4C	Z	-2.576	-2.576	0	%100
41	MP5C	X	1.487	1.487	0	%100
42	MP5C	Z	-2.576	-2.576	0	%100
43	MP1B	X	1.487	1.487	0	%100
44	MP1B	Z	-2.576	-2.576	0	%100
45	MP2B	X	1.487	1.487	0	%100
46	MP2B	Z	-2.576	-2.576	0	%100
47	MP3B	X	1.644	1.644	0	%100
48	MP3B	Z	-2.847	-2.847	0	%100
49	MP4B	X	1.487	1.487	0	%100
50	MP4B	Z	-2.576	-2.576	0	%100
51	MP5B	X	1.487	1.487	0	%100
52	MP5B	Z	-2.576	-2.576	0	%100
53	M48	X	.285	.285	0	%100
54	M48	Z	-.494	-.494	0	%100
55	M49	X	.285	.285	0	%100
56	M49	Z	-.494	-.494	0	%100
57	M50	X	.285	.285	0	%100
58	M50	Z	-.494	-.494	0	%100
59	M51	X	.285	.285	0	%100
60	M51	Z	-.494	-.494	0	%100
61	M52	X	.285	.285	0	%100
62	M52	Z	-.494	-.494	0	%100
63	M53	X	.285	.285	0	%100
64	M53	Z	-.494	-.494	0	%100
65	M54	X	.285	.285	0	%100
66	M54	Z	-.494	-.494	0	%100
67	M55	X	.285	.285	0	%100
68	M55	Z	-.494	-.494	0	%100
69	M56	X	1.023	1.023	0	%100
70	M56	Z	-1.772	-1.772	0	%100
71	M57	X	1.023	1.023	0	%100
72	M57	Z	-1.772	-1.772	0	%100
73	M58	X	2.185	2.185	0	%100
74	M58	Z	-3.785	-3.785	0	%100
75	M60	X	1.233	1.233	0	%100
76	M60	Z	-2.135	-2.135	0	%100
77	M75	X	1.233	1.233	0	%100
78	M75	Z	-2.135	-2.135	0	%100
79	M76	X	0	0	0	%100
80	M76	Z	0	0	0	%100
81	M83	X	1.173	1.173	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
82	M83	Z	-2.032	-2.032	0	%100
83	M84	X	1.173	1.173	0	%100
84	M84	Z	-2.032	-2.032	0	%100
85	M85	X	0	0	0	%100
86	M85	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	2.576	2.576	0	%100
2	MP1A	Z	-1.487	-1.487	0	%100
3	M7	X	.816	.816	0	%100
4	M7	Z	-.471	-.471	0	%100
5	M8	X	3.266	3.266	0	%100
6	M8	Z	-1.885	-1.885	0	%100
7	M9	X	.816	.816	0	%100
8	M9	Z	-.471	-.471	0	%100
9	M16	X	2.449	2.449	0	%100
10	M16	Z	-1.414	-1.414	0	%100
11	M17	X	0	0	0	%100
12	M17	Z	0	0	0	%100
13	M18	X	2.449	2.449	0	%100
14	M18	Z	-1.414	-1.414	0	%100
15	M19	X	1.483	1.483	0	%100
16	M19	Z	-.856	-.856	0	%100
17	M20	X	1.483	1.483	0	%100
18	M20	Z	-.856	-.856	0	%100
19	M21	X	1.483	1.483	0	%100
20	M21	Z	-.856	-.856	0	%100
21	M22	X	1.483	1.483	0	%100
22	M22	Z	-.856	-.856	0	%100
23	M23	X	2.047	2.047	0	%100
24	M23	Z	-1.182	-1.182	0	%100
25	MP2A	X	2.576	2.576	0	%100
26	MP2A	Z	-1.487	-1.487	0	%100
27	MP3A	X	2.847	2.847	0	%100
28	MP3A	Z	-1.644	-1.644	0	%100
29	MP4A	X	2.576	2.576	0	%100
30	MP4A	Z	-1.487	-1.487	0	%100
31	MP5A	X	2.576	2.576	0	%100
32	MP5A	Z	-1.487	-1.487	0	%100
33	MP1C	X	2.576	2.576	0	%100
34	MP1C	Z	-1.487	-1.487	0	%100
35	MP2C	X	2.576	2.576	0	%100
36	MP2C	Z	-1.487	-1.487	0	%100
37	MP3C	X	2.847	2.847	0	%100
38	MP3C	Z	-1.644	-1.644	0	%100
39	MP4C	X	2.576	2.576	0	%100
40	MP4C	Z	-1.487	-1.487	0	%100
41	MP5C	X	2.576	2.576	0	%100
42	MP5C	Z	-1.487	-1.487	0	%100
43	MP1B	X	2.576	2.576	0	%100
44	MP1B	Z	-1.487	-1.487	0	%100
45	MP2B	X	2.576	2.576	0	%100
46	MP2B	Z	-1.487	-1.487	0	%100
47	MP3B	X	2.847	2.847	0	%100
48	MP3B	Z	-1.644	-1.644	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
49	MP4B	X	2.576	2.576	0	%100
50	MP4B	Z	-1.487	-1.487	0	%100
51	MP5B	X	2.576	2.576	0	%100
52	MP5B	Z	-1.487	-1.487	0	%100
53	M48	X	1.483	1.483	0	%100
54	M48	Z	-.856	-.856	0	%100
55	M49	X	1.483	1.483	0	%100
56	M49	Z	-.856	-.856	0	%100
57	M50	X	1.483	1.483	0	%100
58	M50	Z	-.856	-.856	0	%100
59	M51	X	1.483	1.483	0	%100
60	M51	Z	-.856	-.856	0	%100
61	M52	X	0	0	0	%100
62	M52	Z	0	0	0	%100
63	M53	X	0	0	0	%100
64	M53	Z	0	0	0	%100
65	M54	X	0	0	0	%100
66	M54	Z	0	0	0	%100
67	M55	X	0	0	0	%100
68	M55	Z	0	0	0	%100
69	M56	X	3.114	3.114	0	%100
70	M56	Z	-1.798	-1.798	0	%100
71	M57	X	1.101	1.101	0	%100
72	M57	Z	-.636	-.636	0	%100
73	M58	X	3.114	3.114	0	%100
74	M58	Z	-1.798	-1.798	0	%100
75	M60	X	.712	.712	0	%100
76	M60	Z	-.411	-.411	0	%100
77	M75	X	2.847	2.847	0	%100
78	M75	Z	-1.644	-1.644	0	%100
79	M76	X	.712	.712	0	%100
80	M76	Z	-.411	-.411	0	%100
81	M83	X	.677	.677	0	%100
82	M83	Z	-.391	-.391	0	%100
83	M84	X	2.71	2.71	0	%100
84	M84	Z	-1.565	-1.565	0	%100
85	M85	X	.677	.677	0	%100
86	M85	Z	-.391	-.391	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	2.974	2.974	0	%100
2	MP1A	Z	0	0	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	0	0	0	%100
5	M8	X	2.828	2.828	0	%100
6	M8	Z	0	0	0	%100
7	M9	X	2.828	2.828	0	%100
8	M9	Z	0	0	0	%100
9	M16	X	3.771	3.771	0	%100
10	M16	Z	0	0	0	%100
11	M17	X	.943	.943	0	%100
12	M17	Z	0	0	0	%100
13	M18	X	.943	.943	0	%100
14	M18	Z	0	0	0	%100
15	M19	X	.571	.571	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
16	M19	Z	0	0	0	%100
17	M20	X	.571	.571	0	%100
18	M20	Z	0	0	0	%100
19	M21	X	.571	.571	0	%100
20	M21	Z	0	0	0	%100
21	M22	X	.571	.571	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	2.363	2.363	0	%100
24	M23	Z	0	0	0	%100
25	MP2A	X	2.974	2.974	0	%100
26	MP2A	Z	0	0	0	%100
27	MP3A	X	3.288	3.288	0	%100
28	MP3A	Z	0	0	0	%100
29	MP4A	X	2.974	2.974	0	%100
30	MP4A	Z	0	0	0	%100
31	MP5A	X	2.974	2.974	0	%100
32	MP5A	Z	0	0	0	%100
33	MP1C	X	2.974	2.974	0	%100
34	MP1C	Z	0	0	0	%100
35	MP2C	X	2.974	2.974	0	%100
36	MP2C	Z	0	0	0	%100
37	MP3C	X	3.288	3.288	0	%100
38	MP3C	Z	0	0	0	%100
39	MP4C	X	2.974	2.974	0	%100
40	MP4C	Z	0	0	0	%100
41	MP5C	X	2.974	2.974	0	%100
42	MP5C	Z	0	0	0	%100
43	MP1B	X	2.974	2.974	0	%100
44	MP1B	Z	0	0	0	%100
45	MP2B	X	2.974	2.974	0	%100
46	MP2B	Z	0	0	0	%100
47	MP3B	X	3.288	3.288	0	%100
48	MP3B	Z	0	0	0	%100
49	MP4B	X	2.974	2.974	0	%100
50	MP4B	Z	0	0	0	%100
51	MP5B	X	2.974	2.974	0	%100
52	MP5B	Z	0	0	0	%100
53	M48	X	2.284	2.284	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	2.284	2.284	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	2.284	2.284	0	%100
58	M50	Z	0	0	0	%100
59	M51	X	2.284	2.284	0	%100
60	M51	Z	0	0	0	%100
61	M52	X	.571	.571	0	%100
62	M52	Z	0	0	0	%100
63	M53	X	.571	.571	0	%100
64	M53	Z	0	0	0	%100
65	M54	X	.571	.571	0	%100
66	M54	Z	0	0	0	%100
67	M55	X	.571	.571	0	%100
68	M55	Z	0	0	0	%100
69	M56	X	4.371	4.371	0	%100
70	M56	Z	0	0	0	%100
71	M57	X	2.046	2.046	0	%100
72	M57	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
73	M58	X	2.046	2.046	0	%100
74	M58	Z	0	0	0	%100
75	M60	X	0	0	0	%100
76	M60	Z	0	0	0	%100
77	M75	X	2.466	2.466	0	%100
78	M75	Z	0	0	0	%100
79	M76	X	2.466	2.466	0	%100
80	M76	Z	0	0	0	%100
81	M83	X	0	0	0	%100
82	M83	Z	0	0	0	%100
83	M84	X	2.347	2.347	0	%100
84	M84	Z	0	0	0	%100
85	M85	X	2.347	2.347	0	%100
86	M85	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	2.576	2.576	0	%100
2	MP1A	Z	1.487	1.487	0	%100
3	M7	X	.816	.816	0	%100
4	M7	Z	.471	.471	0	%100
5	M8	X	.816	.816	0	%100
6	M8	Z	.471	.471	0	%100
7	M9	X	3.266	3.266	0	%100
8	M9	Z	1.885	1.885	0	%100
9	M16	X	2.449	2.449	0	%100
10	M16	Z	1.414	1.414	0	%100
11	M17	X	2.449	2.449	0	%100
12	M17	Z	1.414	1.414	0	%100
13	M18	X	0	0	0	%100
14	M18	Z	0	0	0	%100
15	M19	X	0	0	0	%100
16	M19	Z	0	0	0	%100
17	M20	X	0	0	0	%100
18	M20	Z	0	0	0	%100
19	M21	X	0	0	0	%100
20	M21	Z	0	0	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	2.047	2.047	0	%100
24	M23	Z	1.182	1.182	0	%100
25	MP2A	X	2.576	2.576	0	%100
26	MP2A	Z	1.487	1.487	0	%100
27	MP3A	X	2.847	2.847	0	%100
28	MP3A	Z	1.644	1.644	0	%100
29	MP4A	X	2.576	2.576	0	%100
30	MP4A	Z	1.487	1.487	0	%100
31	MP5A	X	2.576	2.576	0	%100
32	MP5A	Z	1.487	1.487	0	%100
33	MP1C	X	2.576	2.576	0	%100
34	MP1C	Z	1.487	1.487	0	%100
35	MP2C	X	2.576	2.576	0	%100
36	MP2C	Z	1.487	1.487	0	%100
37	MP3C	X	2.847	2.847	0	%100
38	MP3C	Z	1.644	1.644	0	%100
39	MP4C	X	2.576	2.576	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
40	MP4C	Z	1.487	1.487	0	%100
41	MP5C	X	2.576	2.576	0	%100
42	MP5C	Z	1.487	1.487	0	%100
43	MP1B	X	2.576	2.576	0	%100
44	MP1B	Z	1.487	1.487	0	%100
45	MP2B	X	2.576	2.576	0	%100
46	MP2B	Z	1.487	1.487	0	%100
47	MP3B	X	2.847	2.847	0	%100
48	MP3B	Z	1.644	1.644	0	%100
49	MP4B	X	2.576	2.576	0	%100
50	MP4B	Z	1.487	1.487	0	%100
51	MP5B	X	2.576	2.576	0	%100
52	MP5B	Z	1.487	1.487	0	%100
53	M48	X	1.483	1.483	0	%100
54	M48	Z	.856	.856	0	%100
55	M49	X	1.483	1.483	0	%100
56	M49	Z	.856	.856	0	%100
57	M50	X	1.483	1.483	0	%100
58	M50	Z	.856	.856	0	%100
59	M51	X	1.483	1.483	0	%100
60	M51	Z	.856	.856	0	%100
61	M52	X	1.483	1.483	0	%100
62	M52	Z	.856	.856	0	%100
63	M53	X	1.483	1.483	0	%100
64	M53	Z	.856	.856	0	%100
65	M54	X	1.483	1.483	0	%100
66	M54	Z	.856	.856	0	%100
67	M55	X	1.483	1.483	0	%100
68	M55	Z	.856	.856	0	%100
69	M56	X	3.114	3.114	0	%100
70	M56	Z	1.798	1.798	0	%100
71	M57	X	3.114	3.114	0	%100
72	M57	Z	1.798	1.798	0	%100
73	M58	X	1.101	1.101	0	%100
74	M58	Z	.636	.636	0	%100
75	M60	X	.712	.712	0	%100
76	M60	Z	.411	.411	0	%100
77	M75	X	.712	.712	0	%100
78	M75	Z	.411	.411	0	%100
79	M76	X	2.847	2.847	0	%100
80	M76	Z	1.644	1.644	0	%100
81	M83	X	.677	.677	0	%100
82	M83	Z	.391	.391	0	%100
83	M84	X	.677	.677	0	%100
84	M84	Z	.391	.391	0	%100
85	M85	X	2.71	2.71	0	%100
86	M85	Z	1.565	1.565	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	1.487	1.487	0	%100
2	MP1A	Z	2.576	2.576	0	%100
3	M7	X	1.414	1.414	0	%100
4	M7	Z	2.449	2.449	0	%100
5	M8	X	0	0	0	%100
6	M8	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
7	M9	X	1.414	1.414	0	%100
8	M9	Z	2.449	2.449	0	%100
9	M16	X	.471	.471	0	%100
10	M16	Z	.816	.816	0	%100
11	M17	X	1.885	1.885	0	%100
12	M17	Z	3.266	3.266	0	%100
13	M18	X	.471	.471	0	%100
14	M18	Z	.816	.816	0	%100
15	M19	X	.285	.285	0	%100
16	M19	Z	.494	.494	0	%100
17	M20	X	.285	.285	0	%100
18	M20	Z	.494	.494	0	%100
19	M21	X	.285	.285	0	%100
20	M21	Z	.494	.494	0	%100
21	M22	X	.285	.285	0	%100
22	M22	Z	.494	.494	0	%100
23	M23	X	1.182	1.182	0	%100
24	M23	Z	2.047	2.047	0	%100
25	MP2A	X	1.487	1.487	0	%100
26	MP2A	Z	2.576	2.576	0	%100
27	MP3A	X	1.644	1.644	0	%100
28	MP3A	Z	2.847	2.847	0	%100
29	MP4A	X	1.487	1.487	0	%100
30	MP4A	Z	2.576	2.576	0	%100
31	MP5A	X	1.487	1.487	0	%100
32	MP5A	Z	2.576	2.576	0	%100
33	MP1C	X	1.487	1.487	0	%100
34	MP1C	Z	2.576	2.576	0	%100
35	MP2C	X	1.487	1.487	0	%100
36	MP2C	Z	2.576	2.576	0	%100
37	MP3C	X	1.644	1.644	0	%100
38	MP3C	Z	2.847	2.847	0	%100
39	MP4C	X	1.487	1.487	0	%100
40	MP4C	Z	2.576	2.576	0	%100
41	MP5C	X	1.487	1.487	0	%100
42	MP5C	Z	2.576	2.576	0	%100
43	MP1B	X	1.487	1.487	0	%100
44	MP1B	Z	2.576	2.576	0	%100
45	MP2B	X	1.487	1.487	0	%100
46	MP2B	Z	2.576	2.576	0	%100
47	MP3B	X	1.644	1.644	0	%100
48	MP3B	Z	2.847	2.847	0	%100
49	MP4B	X	1.487	1.487	0	%100
50	MP4B	Z	2.576	2.576	0	%100
51	MP5B	X	1.487	1.487	0	%100
52	MP5B	Z	2.576	2.576	0	%100
53	M48	X	.285	.285	0	%100
54	M48	Z	.494	.494	0	%100
55	M49	X	.285	.285	0	%100
56	M49	Z	.494	.494	0	%100
57	M50	X	.285	.285	0	%100
58	M50	Z	.494	.494	0	%100
59	M51	X	.285	.285	0	%100
60	M51	Z	.494	.494	0	%100
61	M52	X	1.142	1.142	0	%100
62	M52	Z	1.978	1.978	0	%100
63	M53	X	1.142	1.142	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
64	M53	Z	1.978	1.978	0	%100
65	M54	X	1.142	1.142	0	%100
66	M54	Z	1.978	1.978	0	%100
67	M55	X	1.142	1.142	0	%100
68	M55	Z	1.978	1.978	0	%100
69	M56	X	1.023	1.023	0	%100
70	M56	Z	1.772	1.772	0	%100
71	M57	X	2.185	2.185	0	%100
72	M57	Z	3.785	3.785	0	%100
73	M58	X	1.023	1.023	0	%100
74	M58	Z	1.772	1.772	0	%100
75	M60	X	1.233	1.233	0	%100
76	M60	Z	2.135	2.135	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	0	0	0	%100
79	M76	X	1.233	1.233	0	%100
80	M76	Z	2.135	2.135	0	%100
81	M83	X	1.173	1.173	0	%100
82	M83	Z	2.032	2.032	0	%100
83	M84	X	0	0	0	%100
84	M84	Z	0	0	0	%100
85	M85	X	1.173	1.173	0	%100
86	M85	Z	2.032	2.032	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	0	0	0	%100
2	MP1A	Z	2.974	2.974	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	3.771	3.771	0	%100
5	M8	X	0	0	0	%100
6	M8	Z	.943	.943	0	%100
7	M9	X	0	0	0	%100
8	M9	Z	.943	.943	0	%100
9	M16	X	0	0	0	%100
10	M16	Z	0	0	0	%100
11	M17	X	0	0	0	%100
12	M17	Z	2.828	2.828	0	%100
13	M18	X	0	0	0	%100
14	M18	Z	2.828	2.828	0	%100
15	M19	X	0	0	0	%100
16	M19	Z	1.713	1.713	0	%100
17	M20	X	0	0	0	%100
18	M20	Z	1.713	1.713	0	%100
19	M21	X	0	0	0	%100
20	M21	Z	1.713	1.713	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	1.713	1.713	0	%100
23	M23	X	0	0	0	%100
24	M23	Z	2.363	2.363	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	2.974	2.974	0	%100
27	MP3A	X	0	0	0	%100
28	MP3A	Z	3.288	3.288	0	%100
29	MP4A	X	0	0	0	%100
30	MP4A	Z	2.974	2.974	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
31	MP5A	X	0	0	0	%100
32	MP5A	Z	2.974	2.974	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	2.974	2.974	0	%100
35	MP2C	X	0	0	0	%100
36	MP2C	Z	2.974	2.974	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	3.288	3.288	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	2.974	2.974	0	%100
41	MP5C	X	0	0	0	%100
42	MP5C	Z	2.974	2.974	0	%100
43	MP1B	X	0	0	0	%100
44	MP1B	Z	2.974	2.974	0	%100
45	MP2B	X	0	0	0	%100
46	MP2B	Z	2.974	2.974	0	%100
47	MP3B	X	0	0	0	%100
48	MP3B	Z	3.288	3.288	0	%100
49	MP4B	X	0	0	0	%100
50	MP4B	Z	2.974	2.974	0	%100
51	MP5B	X	0	0	0	%100
52	MP5B	Z	2.974	2.974	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	0	0	0	%100
59	M51	X	0	0	0	%100
60	M51	Z	0	0	0	%100
61	M52	X	0	0	0	%100
62	M52	Z	1.713	1.713	0	%100
63	M53	X	0	0	0	%100
64	M53	Z	1.713	1.713	0	%100
65	M54	X	0	0	0	%100
66	M54	Z	1.713	1.713	0	%100
67	M55	X	0	0	0	%100
68	M55	Z	1.713	1.713	0	%100
69	M56	X	0	0	0	%100
70	M56	Z	1.272	1.272	0	%100
71	M57	X	0	0	0	%100
72	M57	Z	3.596	3.596	0	%100
73	M58	X	0	0	0	%100
74	M58	Z	3.596	3.596	0	%100
75	M60	X	0	0	0	%100
76	M60	Z	3.288	3.288	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	.822	.822	0	%100
79	M76	X	0	0	0	%100
80	M76	Z	.822	.822	0	%100
81	M83	X	0	0	0	%100
82	M83	Z	3.129	3.129	0	%100
83	M84	X	0	0	0	%100
84	M84	Z	.782	.782	0	%100
85	M85	X	0	0	0	%100
86	M85	Z	.782	.782	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	-1.487	-1.487	0	%100
2	MP1A	Z	2.576	2.576	0	%100
3	M7	X	-1.414	-1.414	0	%100
4	M7	Z	2.449	2.449	0	%100
5	M8	X	-1.414	-1.414	0	%100
6	M8	Z	2.449	2.449	0	%100
7	M9	X	0	0	0	%100
8	M9	Z	0	0	0	%100
9	M16	X	-.471	-.471	0	%100
10	M16	Z	.816	.816	0	%100
11	M17	X	-.471	-.471	0	%100
12	M17	Z	.816	.816	0	%100
13	M18	X	-1.885	-1.885	0	%100
14	M18	Z	3.266	3.266	0	%100
15	M19	X	-1.142	-1.142	0	%100
16	M19	Z	1.978	1.978	0	%100
17	M20	X	-1.142	-1.142	0	%100
18	M20	Z	1.978	1.978	0	%100
19	M21	X	-1.142	-1.142	0	%100
20	M21	Z	1.978	1.978	0	%100
21	M22	X	-1.142	-1.142	0	%100
22	M22	Z	1.978	1.978	0	%100
23	M23	X	-1.182	-1.182	0	%100
24	M23	Z	2.047	2.047	0	%100
25	MP2A	X	-1.487	-1.487	0	%100
26	MP2A	Z	2.576	2.576	0	%100
27	MP3A	X	-1.644	-1.644	0	%100
28	MP3A	Z	2.847	2.847	0	%100
29	MP4A	X	-1.487	-1.487	0	%100
30	MP4A	Z	2.576	2.576	0	%100
31	MP5A	X	-1.487	-1.487	0	%100
32	MP5A	Z	2.576	2.576	0	%100
33	MP1C	X	-1.487	-1.487	0	%100
34	MP1C	Z	2.576	2.576	0	%100
35	MP2C	X	-1.487	-1.487	0	%100
36	MP2C	Z	2.576	2.576	0	%100
37	MP3C	X	-1.644	-1.644	0	%100
38	MP3C	Z	2.847	2.847	0	%100
39	MP4C	X	-1.487	-1.487	0	%100
40	MP4C	Z	2.576	2.576	0	%100
41	MP5C	X	-1.487	-1.487	0	%100
42	MP5C	Z	2.576	2.576	0	%100
43	MP1B	X	-1.487	-1.487	0	%100
44	MP1B	Z	2.576	2.576	0	%100
45	MP2B	X	-1.487	-1.487	0	%100
46	MP2B	Z	2.576	2.576	0	%100
47	MP3B	X	-1.644	-1.644	0	%100
48	MP3B	Z	2.847	2.847	0	%100
49	MP4B	X	-1.487	-1.487	0	%100
50	MP4B	Z	2.576	2.576	0	%100
51	MP5B	X	-1.487	-1.487	0	%100
52	MP5B	Z	2.576	2.576	0	%100
53	M48	X	-.285	-.285	0	%100
54	M48	Z	.494	.494	0	%100
55	M49	X	-.285	-.285	0	%100
56	M49	Z	.494	.494	0	%100
57	M50	X	-.285	-.285	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
58	M50	Z	.494	.494	0	%100
59	M51	X	-.285	-.285	0	%100
60	M51	Z	.494	.494	0	%100
61	M52	X	-.285	-.285	0	%100
62	M52	Z	.494	.494	0	%100
63	M53	X	-.285	-.285	0	%100
64	M53	Z	.494	.494	0	%100
65	M54	X	-.285	-.285	0	%100
66	M54	Z	.494	.494	0	%100
67	M55	X	-.285	-.285	0	%100
68	M55	Z	.494	.494	0	%100
69	M56	X	-1.023	-1.023	0	%100
70	M56	Z	1.772	1.772	0	%100
71	M57	X	-1.023	-1.023	0	%100
72	M57	Z	1.772	1.772	0	%100
73	M58	X	-2.185	-2.185	0	%100
74	M58	Z	3.785	3.785	0	%100
75	M60	X	-1.233	-1.233	0	%100
76	M60	Z	2.135	2.135	0	%100
77	M75	X	-1.233	-1.233	0	%100
78	M75	Z	2.135	2.135	0	%100
79	M76	X	0	0	0	%100
80	M76	Z	0	0	0	%100
81	M83	X	-1.173	-1.173	0	%100
82	M83	Z	2.032	2.032	0	%100
83	M84	X	-1.173	-1.173	0	%100
84	M84	Z	2.032	2.032	0	%100
85	M85	X	0	0	0	%100
86	M85	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	-2.576	-2.576	0	%100
2	MP1A	Z	1.487	1.487	0	%100
3	M7	X	-.816	-.816	0	%100
4	M7	Z	.471	.471	0	%100
5	M8	X	-3.266	-3.266	0	%100
6	M8	Z	1.885	1.885	0	%100
7	M9	X	-.816	-.816	0	%100
8	M9	Z	.471	.471	0	%100
9	M16	X	-2.449	-2.449	0	%100
10	M16	Z	1.414	1.414	0	%100
11	M17	X	0	0	0	%100
12	M17	Z	0	0	0	%100
13	M18	X	-2.449	-2.449	0	%100
14	M18	Z	1.414	1.414	0	%100
15	M19	X	-1.483	-1.483	0	%100
16	M19	Z	.856	.856	0	%100
17	M20	X	-1.483	-1.483	0	%100
18	M20	Z	.856	.856	0	%100
19	M21	X	-1.483	-1.483	0	%100
20	M21	Z	.856	.856	0	%100
21	M22	X	-1.483	-1.483	0	%100
22	M22	Z	.856	.856	0	%100
23	M23	X	-2.047	-2.047	0	%100
24	M23	Z	1.182	1.182	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
25	MP2A	X	-2.576	-2.576	0	%100
26	MP2A	Z	1.487	1.487	0	%100
27	MP3A	X	-2.847	-2.847	0	%100
28	MP3A	Z	1.644	1.644	0	%100
29	MP4A	X	-2.576	-2.576	0	%100
30	MP4A	Z	1.487	1.487	0	%100
31	MP5A	X	-2.576	-2.576	0	%100
32	MP5A	Z	1.487	1.487	0	%100
33	MP1C	X	-2.576	-2.576	0	%100
34	MP1C	Z	1.487	1.487	0	%100
35	MP2C	X	-2.576	-2.576	0	%100
36	MP2C	Z	1.487	1.487	0	%100
37	MP3C	X	-2.847	-2.847	0	%100
38	MP3C	Z	1.644	1.644	0	%100
39	MP4C	X	-2.576	-2.576	0	%100
40	MP4C	Z	1.487	1.487	0	%100
41	MP5C	X	-2.576	-2.576	0	%100
42	MP5C	Z	1.487	1.487	0	%100
43	MP1B	X	-2.576	-2.576	0	%100
44	MP1B	Z	1.487	1.487	0	%100
45	MP2B	X	-2.576	-2.576	0	%100
46	MP2B	Z	1.487	1.487	0	%100
47	MP3B	X	-2.847	-2.847	0	%100
48	MP3B	Z	1.644	1.644	0	%100
49	MP4B	X	-2.576	-2.576	0	%100
50	MP4B	Z	1.487	1.487	0	%100
51	MP5B	X	-2.576	-2.576	0	%100
52	MP5B	Z	1.487	1.487	0	%100
53	M48	X	-1.483	-1.483	0	%100
54	M48	Z	.856	.856	0	%100
55	M49	X	-1.483	-1.483	0	%100
56	M49	Z	.856	.856	0	%100
57	M50	X	-1.483	-1.483	0	%100
58	M50	Z	.856	.856	0	%100
59	M51	X	-1.483	-1.483	0	%100
60	M51	Z	.856	.856	0	%100
61	M52	X	0	0	0	%100
62	M52	Z	0	0	0	%100
63	M53	X	0	0	0	%100
64	M53	Z	0	0	0	%100
65	M54	X	0	0	0	%100
66	M54	Z	0	0	0	%100
67	M55	X	0	0	0	%100
68	M55	Z	0	0	0	%100
69	M56	X	-3.114	-3.114	0	%100
70	M56	Z	1.798	1.798	0	%100
71	M57	X	-1.101	-1.101	0	%100
72	M57	Z	.636	.636	0	%100
73	M58	X	-3.114	-3.114	0	%100
74	M58	Z	1.798	1.798	0	%100
75	M60	X	-.712	-.712	0	%100
76	M60	Z	.411	.411	0	%100
77	M75	X	-2.847	-2.847	0	%100
78	M75	Z	1.644	1.644	0	%100
79	M76	X	-.712	-.712	0	%100
80	M76	Z	.411	.411	0	%100
81	M83	X	-.677	-.677	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
82	M83	Z	.391	.391	0	%100
83	M84	X	-2.71	-2.71	0	%100
84	M84	Z	1.565	1.565	0	%100
85	M85	X	-.677	-.677	0	%100
86	M85	Z	.391	.391	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	-2.974	-2.974	0	%100
2	MP1A	Z	0	0	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	0	0	0	%100
5	M8	X	-2.828	-2.828	0	%100
6	M8	Z	0	0	0	%100
7	M9	X	-2.828	-2.828	0	%100
8	M9	Z	0	0	0	%100
9	M16	X	-3.771	-3.771	0	%100
10	M16	Z	0	0	0	%100
11	M17	X	-.943	-.943	0	%100
12	M17	Z	0	0	0	%100
13	M18	X	-.943	-.943	0	%100
14	M18	Z	0	0	0	%100
15	M19	X	-.571	-.571	0	%100
16	M19	Z	0	0	0	%100
17	M20	X	-.571	-.571	0	%100
18	M20	Z	0	0	0	%100
19	M21	X	-.571	-.571	0	%100
20	M21	Z	0	0	0	%100
21	M22	X	-.571	-.571	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	-2.363	-2.363	0	%100
24	M23	Z	0	0	0	%100
25	MP2A	X	-2.974	-2.974	0	%100
26	MP2A	Z	0	0	0	%100
27	MP3A	X	-3.288	-3.288	0	%100
28	MP3A	Z	0	0	0	%100
29	MP4A	X	-2.974	-2.974	0	%100
30	MP4A	Z	0	0	0	%100
31	MP5A	X	-2.974	-2.974	0	%100
32	MP5A	Z	0	0	0	%100
33	MP1C	X	-2.974	-2.974	0	%100
34	MP1C	Z	0	0	0	%100
35	MP2C	X	-2.974	-2.974	0	%100
36	MP2C	Z	0	0	0	%100
37	MP3C	X	-3.288	-3.288	0	%100
38	MP3C	Z	0	0	0	%100
39	MP4C	X	-2.974	-2.974	0	%100
40	MP4C	Z	0	0	0	%100
41	MP5C	X	-2.974	-2.974	0	%100
42	MP5C	Z	0	0	0	%100
43	MP1B	X	-2.974	-2.974	0	%100
44	MP1B	Z	0	0	0	%100
45	MP2B	X	-2.974	-2.974	0	%100
46	MP2B	Z	0	0	0	%100
47	MP3B	X	-3.288	-3.288	0	%100
48	MP3B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
49	MP4B	X	-2.974	-2.974	0	%100
50	MP4B	Z	0	0	0	%100
51	MP5B	X	-2.974	-2.974	0	%100
52	MP5B	Z	0	0	0	%100
53	M48	X	-2.284	-2.284	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	-2.284	-2.284	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	-2.284	-2.284	0	%100
58	M50	Z	0	0	0	%100
59	M51	X	-2.284	-2.284	0	%100
60	M51	Z	0	0	0	%100
61	M52	X	-.571	-.571	0	%100
62	M52	Z	0	0	0	%100
63	M53	X	-.571	-.571	0	%100
64	M53	Z	0	0	0	%100
65	M54	X	-.571	-.571	0	%100
66	M54	Z	0	0	0	%100
67	M55	X	-.571	-.571	0	%100
68	M55	Z	0	0	0	%100
69	M56	X	-4.371	-4.371	0	%100
70	M56	Z	0	0	0	%100
71	M57	X	-2.046	-2.046	0	%100
72	M57	Z	0	0	0	%100
73	M58	X	-2.046	-2.046	0	%100
74	M58	Z	0	0	0	%100
75	M60	X	0	0	0	%100
76	M60	Z	0	0	0	%100
77	M75	X	-2.466	-2.466	0	%100
78	M75	Z	0	0	0	%100
79	M76	X	-2.466	-2.466	0	%100
80	M76	Z	0	0	0	%100
81	M83	X	0	0	0	%100
82	M83	Z	0	0	0	%100
83	M84	X	-2.347	-2.347	0	%100
84	M84	Z	0	0	0	%100
85	M85	X	-2.347	-2.347	0	%100
86	M85	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	-2.576	-2.576	0	%100
2	MP1A	Z	-1.487	-1.487	0	%100
3	M7	X	-.816	-.816	0	%100
4	M7	Z	-.471	-.471	0	%100
5	M8	X	-.816	-.816	0	%100
6	M8	Z	-.471	-.471	0	%100
7	M9	X	-3.266	-3.266	0	%100
8	M9	Z	-1.885	-1.885	0	%100
9	M16	X	-2.449	-2.449	0	%100
10	M16	Z	-1.414	-1.414	0	%100
11	M17	X	-2.449	-2.449	0	%100
12	M17	Z	-1.414	-1.414	0	%100
13	M18	X	0	0	0	%100
14	M18	Z	0	0	0	%100
15	M19	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
16	M19	Z	0	0	0	%100
17	M20	X	0	0	0	%100
18	M20	Z	0	0	0	%100
19	M21	X	0	0	0	%100
20	M21	Z	0	0	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	-2.047	-2.047	0	%100
24	M23	Z	-1.182	-1.182	0	%100
25	MP2A	X	-2.576	-2.576	0	%100
26	MP2A	Z	-1.487	-1.487	0	%100
27	MP3A	X	-2.847	-2.847	0	%100
28	MP3A	Z	-1.644	-1.644	0	%100
29	MP4A	X	-2.576	-2.576	0	%100
30	MP4A	Z	-1.487	-1.487	0	%100
31	MP5A	X	-2.576	-2.576	0	%100
32	MP5A	Z	-1.487	-1.487	0	%100
33	MP1C	X	-2.576	-2.576	0	%100
34	MP1C	Z	-1.487	-1.487	0	%100
35	MP2C	X	-2.576	-2.576	0	%100
36	MP2C	Z	-1.487	-1.487	0	%100
37	MP3C	X	-2.847	-2.847	0	%100
38	MP3C	Z	-1.644	-1.644	0	%100
39	MP4C	X	-2.576	-2.576	0	%100
40	MP4C	Z	-1.487	-1.487	0	%100
41	MP5C	X	-2.576	-2.576	0	%100
42	MP5C	Z	-1.487	-1.487	0	%100
43	MP1B	X	-2.576	-2.576	0	%100
44	MP1B	Z	-1.487	-1.487	0	%100
45	MP2B	X	-2.576	-2.576	0	%100
46	MP2B	Z	-1.487	-1.487	0	%100
47	MP3B	X	-2.847	-2.847	0	%100
48	MP3B	Z	-1.644	-1.644	0	%100
49	MP4B	X	-2.576	-2.576	0	%100
50	MP4B	Z	-1.487	-1.487	0	%100
51	MP5B	X	-2.576	-2.576	0	%100
52	MP5B	Z	-1.487	-1.487	0	%100
53	M48	X	-1.483	-1.483	0	%100
54	M48	Z	-.856	-.856	0	%100
55	M49	X	-1.483	-1.483	0	%100
56	M49	Z	-.856	-.856	0	%100
57	M50	X	-1.483	-1.483	0	%100
58	M50	Z	-.856	-.856	0	%100
59	M51	X	-1.483	-1.483	0	%100
60	M51	Z	-.856	-.856	0	%100
61	M52	X	-1.483	-1.483	0	%100
62	M52	Z	-.856	-.856	0	%100
63	M53	X	-1.483	-1.483	0	%100
64	M53	Z	-.856	-.856	0	%100
65	M54	X	-1.483	-1.483	0	%100
66	M54	Z	-.856	-.856	0	%100
67	M55	X	-1.483	-1.483	0	%100
68	M55	Z	-.856	-.856	0	%100
69	M56	X	-3.114	-3.114	0	%100
70	M56	Z	-1.798	-1.798	0	%100
71	M57	X	-3.114	-3.114	0	%100
72	M57	Z	-1.798	-1.798	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
73	M58	X	-1.101	-1.101	0	%100
74	M58	Z	-.636	-.636	0	%100
75	M60	X	-.712	-.712	0	%100
76	M60	Z	-.411	-.411	0	%100
77	M75	X	-.712	-.712	0	%100
78	M75	Z	-.411	-.411	0	%100
79	M76	X	-2.847	-2.847	0	%100
80	M76	Z	-1.644	-1.644	0	%100
81	M83	X	-.677	-.677	0	%100
82	M83	Z	-.391	-.391	0	%100
83	M84	X	-.677	-.677	0	%100
84	M84	Z	-.391	-.391	0	%100
85	M85	X	-2.71	-2.71	0	%100
86	M85	Z	-1.565	-1.565	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	-1.487	-1.487	0	%100
2	MP1A	Z	-2.576	-2.576	0	%100
3	M7	X	-1.414	-1.414	0	%100
4	M7	Z	-2.449	-2.449	0	%100
5	M8	X	0	0	0	%100
6	M8	Z	0	0	0	%100
7	M9	X	-1.414	-1.414	0	%100
8	M9	Z	-2.449	-2.449	0	%100
9	M16	X	-.471	-.471	0	%100
10	M16	Z	-.816	-.816	0	%100
11	M17	X	-1.885	-1.885	0	%100
12	M17	Z	-3.266	-3.266	0	%100
13	M18	X	-.471	-.471	0	%100
14	M18	Z	-.816	-.816	0	%100
15	M19	X	-.285	-.285	0	%100
16	M19	Z	-.494	-.494	0	%100
17	M20	X	-.285	-.285	0	%100
18	M20	Z	-.494	-.494	0	%100
19	M21	X	-.285	-.285	0	%100
20	M21	Z	-.494	-.494	0	%100
21	M22	X	-.285	-.285	0	%100
22	M22	Z	-.494	-.494	0	%100
23	M23	X	-1.182	-1.182	0	%100
24	M23	Z	-2.047	-2.047	0	%100
25	MP2A	X	-1.487	-1.487	0	%100
26	MP2A	Z	-2.576	-2.576	0	%100
27	MP3A	X	-1.644	-1.644	0	%100
28	MP3A	Z	-2.847	-2.847	0	%100
29	MP4A	X	-1.487	-1.487	0	%100
30	MP4A	Z	-2.576	-2.576	0	%100
31	MP5A	X	-1.487	-1.487	0	%100
32	MP5A	Z	-2.576	-2.576	0	%100
33	MP1C	X	-1.487	-1.487	0	%100
34	MP1C	Z	-2.576	-2.576	0	%100
35	MP2C	X	-1.487	-1.487	0	%100
36	MP2C	Z	-2.576	-2.576	0	%100
37	MP3C	X	-1.644	-1.644	0	%100
38	MP3C	Z	-2.847	-2.847	0	%100
39	MP4C	X	-1.487	-1.487	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
40	MP4C	Z	-2.576	-2.576	0	%100
41	MP5C	X	-1.487	-1.487	0	%100
42	MP5C	Z	-2.576	-2.576	0	%100
43	MP1B	X	-1.487	-1.487	0	%100
44	MP1B	Z	-2.576	-2.576	0	%100
45	MP2B	X	-1.487	-1.487	0	%100
46	MP2B	Z	-2.576	-2.576	0	%100
47	MP3B	X	-1.644	-1.644	0	%100
48	MP3B	Z	-2.847	-2.847	0	%100
49	MP4B	X	-1.487	-1.487	0	%100
50	MP4B	Z	-2.576	-2.576	0	%100
51	MP5B	X	-1.487	-1.487	0	%100
52	MP5B	Z	-2.576	-2.576	0	%100
53	M48	X	-.285	-.285	0	%100
54	M48	Z	-.494	-.494	0	%100
55	M49	X	-.285	-.285	0	%100
56	M49	Z	-.494	-.494	0	%100
57	M50	X	-.285	-.285	0	%100
58	M50	Z	-.494	-.494	0	%100
59	M51	X	-.285	-.285	0	%100
60	M51	Z	-.494	-.494	0	%100
61	M52	X	-1.142	-1.142	0	%100
62	M52	Z	-1.978	-1.978	0	%100
63	M53	X	-1.142	-1.142	0	%100
64	M53	Z	-1.978	-1.978	0	%100
65	M54	X	-1.142	-1.142	0	%100
66	M54	Z	-1.978	-1.978	0	%100
67	M55	X	-1.142	-1.142	0	%100
68	M55	Z	-1.978	-1.978	0	%100
69	M56	X	-1.023	-1.023	0	%100
70	M56	Z	-1.772	-1.772	0	%100
71	M57	X	-2.185	-2.185	0	%100
72	M57	Z	-3.785	-3.785	0	%100
73	M58	X	-1.023	-1.023	0	%100
74	M58	Z	-1.772	-1.772	0	%100
75	M60	X	-1.233	-1.233	0	%100
76	M60	Z	-2.135	-2.135	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	0	0	0	%100
79	M76	X	-1.233	-1.233	0	%100
80	M76	Z	-2.135	-2.135	0	%100
81	M83	X	-1.173	-1.173	0	%100
82	M83	Z	-2.032	-2.032	0	%100
83	M84	X	0	0	0	%100
84	M84	Z	0	0	0	%100
85	M85	X	-1.173	-1.173	0	%100
86	M85	Z	-2.032	-2.032	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	0	0	0	%100
2	MP1A	Z	-.536	-.536	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	-.823	-.823	0	%100
5	M8	X	0	0	0	%100
6	M8	Z	-.206	-.206	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
7	M9	X	0	0	0	%100
8	M9	Z	-.206	-.206	0	%100
9	M16	X	0	0	0	%100
10	M16	Z	0	0	0	%100
11	M17	X	0	0	0	%100
12	M17	Z	-.617	-.617	0	%100
13	M18	X	0	0	0	%100
14	M18	Z	-.617	-.617	0	%100
15	M19	X	0	0	0	%100
16	M19	Z	-.37	-.37	0	%100
17	M20	X	0	0	0	%100
18	M20	Z	-.37	-.37	0	%100
19	M21	X	0	0	0	%100
20	M21	Z	-.37	-.37	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	-.37	-.37	0	%100
23	M23	X	0	0	0	%100
24	M23	Z	-.426	-.426	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	-.536	-.536	0	%100
27	MP3A	X	0	0	0	%100
28	MP3A	Z	-.649	-.649	0	%100
29	MP4A	X	0	0	0	%100
30	MP4A	Z	-.536	-.536	0	%100
31	MP5A	X	0	0	0	%100
32	MP5A	Z	-.536	-.536	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	-.536	-.536	0	%100
35	MP2C	X	0	0	0	%100
36	MP2C	Z	-.536	-.536	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	-.649	-.649	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	-.536	-.536	0	%100
41	MP5C	X	0	0	0	%100
42	MP5C	Z	-.536	-.536	0	%100
43	MP1B	X	0	0	0	%100
44	MP1B	Z	-.536	-.536	0	%100
45	MP2B	X	0	0	0	%100
46	MP2B	Z	-.536	-.536	0	%100
47	MP3B	X	0	0	0	%100
48	MP3B	Z	-.649	-.649	0	%100
49	MP4B	X	0	0	0	%100
50	MP4B	Z	-.536	-.536	0	%100
51	MP5B	X	0	0	0	%100
52	MP5B	Z	-.536	-.536	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	0	0	0	%100
59	M51	X	0	0	0	%100
60	M51	Z	0	0	0	%100
61	M52	X	0	0	0	%100
62	M52	Z	-.37	-.37	0	%100
63	M53	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
64	M53	Z	-.37	-.37	0	%100
65	M54	X	0	0	0	%100
66	M54	Z	-.37	-.37	0	%100
67	M55	X	0	0	0	%100
68	M55	Z	-.37	-.37	0	%100
69	M56	X	0	0	0	%100
70	M56	Z	-.352	-.352	0	%100
71	M57	X	0	0	0	%100
72	M57	Z	-.867	-.867	0	%100
73	M58	X	0	0	0	%100
74	M58	Z	-.867	-.867	0	%100
75	M60	X	0	0	0	%100
76	M60	Z	-.649	-.649	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	-.162	-.162	0	%100
79	M76	X	0	0	0	%100
80	M76	Z	-.162	-.162	0	%100
81	M83	X	0	0	0	%100
82	M83	Z	-.764	-.764	0	%100
83	M84	X	0	0	0	%100
84	M84	Z	-.191	-.191	0	%100
85	M85	X	0	0	0	%100
86	M85	Z	-.191	-.191	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	.268	.268	0	%100
2	MP1A	Z	-.464	-.464	0	%100
3	M7	X	.309	.309	0	%100
4	M7	Z	-.534	-.534	0	%100
5	M8	X	.309	.309	0	%100
6	M8	Z	-.534	-.534	0	%100
7	M9	X	0	0	0	%100
8	M9	Z	0	0	0	%100
9	M16	X	.103	.103	0	%100
10	M16	Z	-.178	-.178	0	%100
11	M17	X	.103	.103	0	%100
12	M17	Z	-.178	-.178	0	%100
13	M18	X	.411	.411	0	%100
14	M18	Z	-.713	-.713	0	%100
15	M19	X	.247	.247	0	%100
16	M19	Z	-.427	-.427	0	%100
17	M20	X	.247	.247	0	%100
18	M20	Z	-.427	-.427	0	%100
19	M21	X	.247	.247	0	%100
20	M21	Z	-.427	-.427	0	%100
21	M22	X	.247	.247	0	%100
22	M22	Z	-.427	-.427	0	%100
23	M23	X	.213	.213	0	%100
24	M23	Z	-.369	-.369	0	%100
25	MP2A	X	.268	.268	0	%100
26	MP2A	Z	-.464	-.464	0	%100
27	MP3A	X	.324	.324	0	%100
28	MP3A	Z	-.562	-.562	0	%100
29	MP4A	X	.268	.268	0	%100
30	MP4A	Z	-.464	-.464	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
31	MP5A	X	.268	.268	0	%100
32	MP5A	Z	-.464	-.464	0	%100
33	MP1C	X	.268	.268	0	%100
34	MP1C	Z	-.464	-.464	0	%100
35	MP2C	X	.268	.268	0	%100
36	MP2C	Z	-.464	-.464	0	%100
37	MP3C	X	.324	.324	0	%100
38	MP3C	Z	-.562	-.562	0	%100
39	MP4C	X	.268	.268	0	%100
40	MP4C	Z	-.464	-.464	0	%100
41	MP5C	X	.268	.268	0	%100
42	MP5C	Z	-.464	-.464	0	%100
43	MP1B	X	.268	.268	0	%100
44	MP1B	Z	-.464	-.464	0	%100
45	MP2B	X	.268	.268	0	%100
46	MP2B	Z	-.464	-.464	0	%100
47	MP3B	X	.324	.324	0	%100
48	MP3B	Z	-.562	-.562	0	%100
49	MP4B	X	.268	.268	0	%100
50	MP4B	Z	-.464	-.464	0	%100
51	MP5B	X	.268	.268	0	%100
52	MP5B	Z	-.464	-.464	0	%100
53	M48	X	.062	.062	0	%100
54	M48	Z	-.107	-.107	0	%100
55	M49	X	.062	.062	0	%100
56	M49	Z	-.107	-.107	0	%100
57	M50	X	.062	.062	0	%100
58	M50	Z	-.107	-.107	0	%100
59	M51	X	.062	.062	0	%100
60	M51	Z	-.107	-.107	0	%100
61	M52	X	.062	.062	0	%100
62	M52	Z	-.107	-.107	0	%100
63	M53	X	.062	.062	0	%100
64	M53	Z	-.107	-.107	0	%100
65	M54	X	.062	.062	0	%100
66	M54	Z	-.107	-.107	0	%100
67	M55	X	.062	.062	0	%100
68	M55	Z	-.107	-.107	0	%100
69	M56	X	.262	.262	0	%100
70	M56	Z	-.454	-.454	0	%100
71	M57	X	.262	.262	0	%100
72	M57	Z	-.454	-.454	0	%100
73	M58	X	.519	.519	0	%100
74	M58	Z	-.9	-.9	0	%100
75	M60	X	.243	.243	0	%100
76	M60	Z	-.421	-.421	0	%100
77	M75	X	.243	.243	0	%100
78	M75	Z	-.421	-.421	0	%100
79	M76	X	0	0	0	%100
80	M76	Z	0	0	0	%100
81	M83	X	.287	.287	0	%100
82	M83	Z	-.496	-.496	0	%100
83	M84	X	.287	.287	0	%100
84	M84	Z	-.496	-.496	0	%100
85	M85	X	0	0	0	%100
86	M85	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	.464	.464	0	%100
2	MP1A	Z	-.268	-.268	0	%100
3	M7	X	.178	.178	0	%100
4	M7	Z	-.103	-.103	0	%100
5	M8	X	.713	.713	0	%100
6	M8	Z	-.411	-.411	0	%100
7	M9	X	.178	.178	0	%100
8	M9	Z	-.103	-.103	0	%100
9	M16	X	.534	.534	0	%100
10	M16	Z	-.309	-.309	0	%100
11	M17	X	0	0	0	%100
12	M17	Z	0	0	0	%100
13	M18	X	.534	.534	0	%100
14	M18	Z	-.309	-.309	0	%100
15	M19	X	.32	.32	0	%100
16	M19	Z	-.185	-.185	0	%100
17	M20	X	.32	.32	0	%100
18	M20	Z	-.185	-.185	0	%100
19	M21	X	.32	.32	0	%100
20	M21	Z	-.185	-.185	0	%100
21	M22	X	.32	.32	0	%100
22	M22	Z	-.185	-.185	0	%100
23	M23	X	.369	.369	0	%100
24	M23	Z	-.213	-.213	0	%100
25	MP2A	X	.464	.464	0	%100
26	MP2A	Z	-.268	-.268	0	%100
27	MP3A	X	.562	.562	0	%100
28	MP3A	Z	-.324	-.324	0	%100
29	MP4A	X	.464	.464	0	%100
30	MP4A	Z	-.268	-.268	0	%100
31	MP5A	X	.464	.464	0	%100
32	MP5A	Z	-.268	-.268	0	%100
33	MP1C	X	.464	.464	0	%100
34	MP1C	Z	-.268	-.268	0	%100
35	MP2C	X	.464	.464	0	%100
36	MP2C	Z	-.268	-.268	0	%100
37	MP3C	X	.562	.562	0	%100
38	MP3C	Z	-.324	-.324	0	%100
39	MP4C	X	.464	.464	0	%100
40	MP4C	Z	-.268	-.268	0	%100
41	MP5C	X	.464	.464	0	%100
42	MP5C	Z	-.268	-.268	0	%100
43	MP1B	X	.464	.464	0	%100
44	MP1B	Z	-.268	-.268	0	%100
45	MP2B	X	.464	.464	0	%100
46	MP2B	Z	-.268	-.268	0	%100
47	MP3B	X	.562	.562	0	%100
48	MP3B	Z	-.324	-.324	0	%100
49	MP4B	X	.464	.464	0	%100
50	MP4B	Z	-.268	-.268	0	%100
51	MP5B	X	.464	.464	0	%100
52	MP5B	Z	-.268	-.268	0	%100
53	M48	X	.32	.32	0	%100
54	M48	Z	-.185	-.185	0	%100
55	M49	X	.32	.32	0	%100
56	M49	Z	-.185	-.185	0	%100
57	M50	X	.32	.32	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
58	M50	Z	-.185	-.185	0	%100
59	M51	X	.32	.32	0	%100
60	M51	Z	-.185	-.185	0	%100
61	M52	X	0	0	0	%100
62	M52	Z	0	0	0	%100
63	M53	X	0	0	0	%100
64	M53	Z	0	0	0	%100
65	M54	X	0	0	0	%100
66	M54	Z	0	0	0	%100
67	M55	X	0	0	0	%100
68	M55	Z	0	0	0	%100
69	M56	X	.751	.751	0	%100
70	M56	Z	-.434	-.434	0	%100
71	M57	X	.305	.305	0	%100
72	M57	Z	-.176	-.176	0	%100
73	M58	X	.751	.751	0	%100
74	M58	Z	-.434	-.434	0	%100
75	M60	X	.14	.14	0	%100
76	M60	Z	-.081	-.081	0	%100
77	M75	X	.562	.562	0	%100
78	M75	Z	-.324	-.324	0	%100
79	M76	X	.14	.14	0	%100
80	M76	Z	-.081	-.081	0	%100
81	M83	X	.165	.165	0	%100
82	M83	Z	-.096	-.096	0	%100
83	M84	X	.662	.662	0	%100
84	M84	Z	-.382	-.382	0	%100
85	M85	X	.165	.165	0	%100
86	M85	Z	-.096	-.096	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	.536	.536	0	%100
2	MP1A	Z	0	0	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	0	0	0	%100
5	M8	X	.617	.617	0	%100
6	M8	Z	0	0	0	%100
7	M9	X	.617	.617	0	%100
8	M9	Z	0	0	0	%100
9	M16	X	.823	.823	0	%100
10	M16	Z	0	0	0	%100
11	M17	X	.206	.206	0	%100
12	M17	Z	0	0	0	%100
13	M18	X	.206	.206	0	%100
14	M18	Z	0	0	0	%100
15	M19	X	.123	.123	0	%100
16	M19	Z	0	0	0	%100
17	M20	X	.123	.123	0	%100
18	M20	Z	0	0	0	%100
19	M21	X	.123	.123	0	%100
20	M21	Z	0	0	0	%100
21	M22	X	.123	.123	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	.426	.426	0	%100
24	M23	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
25	MP2A	X	.536	.536	0	%100
26	MP2A	Z	0	0	0	%100
27	MP3A	X	.649	.649	0	%100
28	MP3A	Z	0	0	0	%100
29	MP4A	X	.536	.536	0	%100
30	MP4A	Z	0	0	0	%100
31	MP5A	X	.536	.536	0	%100
32	MP5A	Z	0	0	0	%100
33	MP1C	X	.536	.536	0	%100
34	MP1C	Z	0	0	0	%100
35	MP2C	X	.536	.536	0	%100
36	MP2C	Z	0	0	0	%100
37	MP3C	X	.649	.649	0	%100
38	MP3C	Z	0	0	0	%100
39	MP4C	X	.536	.536	0	%100
40	MP4C	Z	0	0	0	%100
41	MP5C	X	.536	.536	0	%100
42	MP5C	Z	0	0	0	%100
43	MP1B	X	.536	.536	0	%100
44	MP1B	Z	0	0	0	%100
45	MP2B	X	.536	.536	0	%100
46	MP2B	Z	0	0	0	%100
47	MP3B	X	.649	.649	0	%100
48	MP3B	Z	0	0	0	%100
49	MP4B	X	.536	.536	0	%100
50	MP4B	Z	0	0	0	%100
51	MP5B	X	.536	.536	0	%100
52	MP5B	Z	0	0	0	%100
53	M48	X	.493	.493	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	.493	.493	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	.493	.493	0	%100
58	M50	Z	0	0	0	%100
59	M51	X	.493	.493	0	%100
60	M51	Z	0	0	0	%100
61	M52	X	.123	.123	0	%100
62	M52	Z	0	0	0	%100
63	M53	X	.123	.123	0	%100
64	M53	Z	0	0	0	%100
65	M54	X	.123	.123	0	%100
66	M54	Z	0	0	0	%100
67	M55	X	.123	.123	0	%100
68	M55	Z	0	0	0	%100
69	M56	X	1.039	1.039	0	%100
70	M56	Z	0	0	0	%100
71	M57	X	.524	.524	0	%100
72	M57	Z	0	0	0	%100
73	M58	X	.524	.524	0	%100
74	M58	Z	0	0	0	%100
75	M60	X	0	0	0	%100
76	M60	Z	0	0	0	%100
77	M75	X	.487	.487	0	%100
78	M75	Z	0	0	0	%100
79	M76	X	.487	.487	0	%100
80	M76	Z	0	0	0	%100
81	M83	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
82	M83	Z	0	0	0	%100
83	M84	X	.573	.573	0	%100
84	M84	Z	0	0	0	%100
85	M85	X	.573	.573	0	%100
86	M85	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	.464	.464	0	%100
2	MP1A	Z	.268	.268	0	%100
3	M7	X	.178	.178	0	%100
4	M7	Z	.103	.103	0	%100
5	M8	X	.178	.178	0	%100
6	M8	Z	.103	.103	0	%100
7	M9	X	.713	.713	0	%100
8	M9	Z	.411	.411	0	%100
9	M16	X	.534	.534	0	%100
10	M16	Z	.309	.309	0	%100
11	M17	X	.534	.534	0	%100
12	M17	Z	.309	.309	0	%100
13	M18	X	0	0	0	%100
14	M18	Z	0	0	0	%100
15	M19	X	0	0	0	%100
16	M19	Z	0	0	0	%100
17	M20	X	0	0	0	%100
18	M20	Z	0	0	0	%100
19	M21	X	0	0	0	%100
20	M21	Z	0	0	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	.369	.369	0	%100
24	M23	Z	.213	.213	0	%100
25	MP2A	X	.464	.464	0	%100
26	MP2A	Z	.268	.268	0	%100
27	MP3A	X	.562	.562	0	%100
28	MP3A	Z	.324	.324	0	%100
29	MP4A	X	.464	.464	0	%100
30	MP4A	Z	.268	.268	0	%100
31	MP5A	X	.464	.464	0	%100
32	MP5A	Z	.268	.268	0	%100
33	MP1C	X	.464	.464	0	%100
34	MP1C	Z	.268	.268	0	%100
35	MP2C	X	.464	.464	0	%100
36	MP2C	Z	.268	.268	0	%100
37	MP3C	X	.562	.562	0	%100
38	MP3C	Z	.324	.324	0	%100
39	MP4C	X	.464	.464	0	%100
40	MP4C	Z	.268	.268	0	%100
41	MP5C	X	.464	.464	0	%100
42	MP5C	Z	.268	.268	0	%100
43	MP1B	X	.464	.464	0	%100
44	MP1B	Z	.268	.268	0	%100
45	MP2B	X	.464	.464	0	%100
46	MP2B	Z	.268	.268	0	%100
47	MP3B	X	.562	.562	0	%100
48	MP3B	Z	.324	.324	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
49	MP4B	X	.464	.464	0	%100
50	MP4B	Z	.268	.268	0	%100
51	MP5B	X	.464	.464	0	%100
52	MP5B	Z	.268	.268	0	%100
53	M48	X	.32	.32	0	%100
54	M48	Z	.185	.185	0	%100
55	M49	X	.32	.32	0	%100
56	M49	Z	.185	.185	0	%100
57	M50	X	.32	.32	0	%100
58	M50	Z	.185	.185	0	%100
59	M51	X	.32	.32	0	%100
60	M51	Z	.185	.185	0	%100
61	M52	X	.32	.32	0	%100
62	M52	Z	.185	.185	0	%100
63	M53	X	.32	.32	0	%100
64	M53	Z	.185	.185	0	%100
65	M54	X	.32	.32	0	%100
66	M54	Z	.185	.185	0	%100
67	M55	X	.32	.32	0	%100
68	M55	Z	.185	.185	0	%100
69	M56	X	.751	.751	0	%100
70	M56	Z	.434	.434	0	%100
71	M57	X	.751	.751	0	%100
72	M57	Z	.434	.434	0	%100
73	M58	X	.305	.305	0	%100
74	M58	Z	.176	.176	0	%100
75	M60	X	.14	.14	0	%100
76	M60	Z	.081	.081	0	%100
77	M75	X	.14	.14	0	%100
78	M75	Z	.081	.081	0	%100
79	M76	X	.562	.562	0	%100
80	M76	Z	.324	.324	0	%100
81	M83	X	.165	.165	0	%100
82	M83	Z	.096	.096	0	%100
83	M84	X	.165	.165	0	%100
84	M84	Z	.096	.096	0	%100
85	M85	X	.662	.662	0	%100
86	M85	Z	.382	.382	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	.268	.268	0	%100
2	MP1A	Z	.464	.464	0	%100
3	M7	X	.309	.309	0	%100
4	M7	Z	.534	.534	0	%100
5	M8	X	0	0	0	%100
6	M8	Z	0	0	0	%100
7	M9	X	.309	.309	0	%100
8	M9	Z	.534	.534	0	%100
9	M16	X	.103	.103	0	%100
10	M16	Z	.178	.178	0	%100
11	M17	X	.411	.411	0	%100
12	M17	Z	.713	.713	0	%100
13	M18	X	.103	.103	0	%100
14	M18	Z	.178	.178	0	%100
15	M19	X	.062	.062	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
16	M19	Z	.107	.107	0	%100
17	M20	X	.062	.062	0	%100
18	M20	Z	.107	.107	0	%100
19	M21	X	.062	.062	0	%100
20	M21	Z	.107	.107	0	%100
21	M22	X	.062	.062	0	%100
22	M22	Z	.107	.107	0	%100
23	M23	X	.213	.213	0	%100
24	M23	Z	.369	.369	0	%100
25	MP2A	X	.268	.268	0	%100
26	MP2A	Z	.464	.464	0	%100
27	MP3A	X	.324	.324	0	%100
28	MP3A	Z	.562	.562	0	%100
29	MP4A	X	.268	.268	0	%100
30	MP4A	Z	.464	.464	0	%100
31	MP5A	X	.268	.268	0	%100
32	MP5A	Z	.464	.464	0	%100
33	MP1C	X	.268	.268	0	%100
34	MP1C	Z	.464	.464	0	%100
35	MP2C	X	.268	.268	0	%100
36	MP2C	Z	.464	.464	0	%100
37	MP3C	X	.324	.324	0	%100
38	MP3C	Z	.562	.562	0	%100
39	MP4C	X	.268	.268	0	%100
40	MP4C	Z	.464	.464	0	%100
41	MP5C	X	.268	.268	0	%100
42	MP5C	Z	.464	.464	0	%100
43	MP1B	X	.268	.268	0	%100
44	MP1B	Z	.464	.464	0	%100
45	MP2B	X	.268	.268	0	%100
46	MP2B	Z	.464	.464	0	%100
47	MP3B	X	.324	.324	0	%100
48	MP3B	Z	.562	.562	0	%100
49	MP4B	X	.268	.268	0	%100
50	MP4B	Z	.464	.464	0	%100
51	MP5B	X	.268	.268	0	%100
52	MP5B	Z	.464	.464	0	%100
53	M48	X	.062	.062	0	%100
54	M48	Z	.107	.107	0	%100
55	M49	X	.062	.062	0	%100
56	M49	Z	.107	.107	0	%100
57	M50	X	.062	.062	0	%100
58	M50	Z	.107	.107	0	%100
59	M51	X	.062	.062	0	%100
60	M51	Z	.107	.107	0	%100
61	M52	X	.247	.247	0	%100
62	M52	Z	.427	.427	0	%100
63	M53	X	.247	.247	0	%100
64	M53	Z	.427	.427	0	%100
65	M54	X	.247	.247	0	%100
66	M54	Z	.427	.427	0	%100
67	M55	X	.247	.247	0	%100
68	M55	Z	.427	.427	0	%100
69	M56	X	.262	.262	0	%100
70	M56	Z	.454	.454	0	%100
71	M57	X	.519	.519	0	%100
72	M57	Z	.9	.9	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
73	M58	X	.262	.262	0	%100
74	M58	Z	.454	.454	0	%100
75	M60	X	.243	.243	0	%100
76	M60	Z	.421	.421	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	0	0	0	%100
79	M76	X	.243	.243	0	%100
80	M76	Z	.421	.421	0	%100
81	M83	X	.287	.287	0	%100
82	M83	Z	.496	.496	0	%100
83	M84	X	0	0	0	%100
84	M84	Z	0	0	0	%100
85	M85	X	.287	.287	0	%100
86	M85	Z	.496	.496	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	0	0	0	%100
2	MP1A	Z	.536	.536	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	.823	.823	0	%100
5	M8	X	0	0	0	%100
6	M8	Z	.206	.206	0	%100
7	M9	X	0	0	0	%100
8	M9	Z	.206	.206	0	%100
9	M16	X	0	0	0	%100
10	M16	Z	0	0	0	%100
11	M17	X	0	0	0	%100
12	M17	Z	.617	.617	0	%100
13	M18	X	0	0	0	%100
14	M18	Z	.617	.617	0	%100
15	M19	X	0	0	0	%100
16	M19	Z	.37	.37	0	%100
17	M20	X	0	0	0	%100
18	M20	Z	.37	.37	0	%100
19	M21	X	0	0	0	%100
20	M21	Z	.37	.37	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	.37	.37	0	%100
23	M23	X	0	0	0	%100
24	M23	Z	.426	.426	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	.536	.536	0	%100
27	MP3A	X	0	0	0	%100
28	MP3A	Z	.649	.649	0	%100
29	MP4A	X	0	0	0	%100
30	MP4A	Z	.536	.536	0	%100
31	MP5A	X	0	0	0	%100
32	MP5A	Z	.536	.536	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	.536	.536	0	%100
35	MP2C	X	0	0	0	%100
36	MP2C	Z	.536	.536	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	.649	.649	0	%100
39	MP4C	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
40	MP4C	Z	.536	.536	0	%100
41	MP5C	X	0	0	0	%100
42	MP5C	Z	.536	.536	0	%100
43	MP1B	X	0	0	0	%100
44	MP1B	Z	.536	.536	0	%100
45	MP2B	X	0	0	0	%100
46	MP2B	Z	.536	.536	0	%100
47	MP3B	X	0	0	0	%100
48	MP3B	Z	.649	.649	0	%100
49	MP4B	X	0	0	0	%100
50	MP4B	Z	.536	.536	0	%100
51	MP5B	X	0	0	0	%100
52	MP5B	Z	.536	.536	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	0	0	0	%100
59	M51	X	0	0	0	%100
60	M51	Z	0	0	0	%100
61	M52	X	0	0	0	%100
62	M52	Z	.37	.37	0	%100
63	M53	X	0	0	0	%100
64	M53	Z	.37	.37	0	%100
65	M54	X	0	0	0	%100
66	M54	Z	.37	.37	0	%100
67	M55	X	0	0	0	%100
68	M55	Z	.37	.37	0	%100
69	M56	X	0	0	0	%100
70	M56	Z	.352	.352	0	%100
71	M57	X	0	0	0	%100
72	M57	Z	.867	.867	0	%100
73	M58	X	0	0	0	%100
74	M58	Z	.867	.867	0	%100
75	M60	X	0	0	0	%100
76	M60	Z	.649	.649	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	.162	.162	0	%100
79	M76	X	0	0	0	%100
80	M76	Z	.162	.162	0	%100
81	M83	X	0	0	0	%100
82	M83	Z	.764	.764	0	%100
83	M84	X	0	0	0	%100
84	M84	Z	.191	.191	0	%100
85	M85	X	0	0	0	%100
86	M85	Z	.191	.191	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	-.268	-.268	0	%100
2	MP1A	Z	.464	.464	0	%100
3	M7	X	-.309	-.309	0	%100
4	M7	Z	.534	.534	0	%100
5	M8	X	-.309	-.309	0	%100
6	M8	Z	.534	.534	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
7	M9	X	0	0	0	%100
8	M9	Z	0	0	0	%100
9	M16	X	-.103	-.103	0	%100
10	M16	Z	.178	.178	0	%100
11	M17	X	-.103	-.103	0	%100
12	M17	Z	.178	.178	0	%100
13	M18	X	-.411	-.411	0	%100
14	M18	Z	.713	.713	0	%100
15	M19	X	-.247	-.247	0	%100
16	M19	Z	.427	.427	0	%100
17	M20	X	-.247	-.247	0	%100
18	M20	Z	.427	.427	0	%100
19	M21	X	-.247	-.247	0	%100
20	M21	Z	.427	.427	0	%100
21	M22	X	-.247	-.247	0	%100
22	M22	Z	.427	.427	0	%100
23	M23	X	-.213	-.213	0	%100
24	M23	Z	.369	.369	0	%100
25	MP2A	X	-.268	-.268	0	%100
26	MP2A	Z	.464	.464	0	%100
27	MP3A	X	-.324	-.324	0	%100
28	MP3A	Z	.562	.562	0	%100
29	MP4A	X	-.268	-.268	0	%100
30	MP4A	Z	.464	.464	0	%100
31	MP5A	X	-.268	-.268	0	%100
32	MP5A	Z	.464	.464	0	%100
33	MP1C	X	-.268	-.268	0	%100
34	MP1C	Z	.464	.464	0	%100
35	MP2C	X	-.268	-.268	0	%100
36	MP2C	Z	.464	.464	0	%100
37	MP3C	X	-.324	-.324	0	%100
38	MP3C	Z	.562	.562	0	%100
39	MP4C	X	-.268	-.268	0	%100
40	MP4C	Z	.464	.464	0	%100
41	MP5C	X	-.268	-.268	0	%100
42	MP5C	Z	.464	.464	0	%100
43	MP1B	X	-.268	-.268	0	%100
44	MP1B	Z	.464	.464	0	%100
45	MP2B	X	-.268	-.268	0	%100
46	MP2B	Z	.464	.464	0	%100
47	MP3B	X	-.324	-.324	0	%100
48	MP3B	Z	.562	.562	0	%100
49	MP4B	X	-.268	-.268	0	%100
50	MP4B	Z	.464	.464	0	%100
51	MP5B	X	-.268	-.268	0	%100
52	MP5B	Z	.464	.464	0	%100
53	M48	X	-.062	-.062	0	%100
54	M48	Z	.107	.107	0	%100
55	M49	X	-.062	-.062	0	%100
56	M49	Z	.107	.107	0	%100
57	M50	X	-.062	-.062	0	%100
58	M50	Z	.107	.107	0	%100
59	M51	X	-.062	-.062	0	%100
60	M51	Z	.107	.107	0	%100
61	M52	X	-.062	-.062	0	%100
62	M52	Z	.107	.107	0	%100
63	M53	X	-.062	-.062	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
64	M53	Z	.107	.107	0	%100
65	M54	X	-.062	-.062	0	%100
66	M54	Z	.107	.107	0	%100
67	M55	X	-.062	-.062	0	%100
68	M55	Z	.107	.107	0	%100
69	M56	X	-.262	-.262	0	%100
70	M56	Z	.454	.454	0	%100
71	M57	X	-.262	-.262	0	%100
72	M57	Z	.454	.454	0	%100
73	M58	X	-.519	-.519	0	%100
74	M58	Z	.9	.9	0	%100
75	M60	X	-.243	-.243	0	%100
76	M60	Z	.421	.421	0	%100
77	M75	X	-.243	-.243	0	%100
78	M75	Z	.421	.421	0	%100
79	M76	X	0	0	0	%100
80	M76	Z	0	0	0	%100
81	M83	X	-.287	-.287	0	%100
82	M83	Z	.496	.496	0	%100
83	M84	X	-.287	-.287	0	%100
84	M84	Z	.496	.496	0	%100
85	M85	X	0	0	0	%100
86	M85	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	-.464	-.464	0	%100
2	MP1A	Z	.268	.268	0	%100
3	M7	X	-.178	-.178	0	%100
4	M7	Z	.103	.103	0	%100
5	M8	X	-.713	-.713	0	%100
6	M8	Z	.411	.411	0	%100
7	M9	X	-.178	-.178	0	%100
8	M9	Z	.103	.103	0	%100
9	M16	X	-.534	-.534	0	%100
10	M16	Z	.309	.309	0	%100
11	M17	X	0	0	0	%100
12	M17	Z	0	0	0	%100
13	M18	X	-.534	-.534	0	%100
14	M18	Z	.309	.309	0	%100
15	M19	X	-.32	-.32	0	%100
16	M19	Z	.185	.185	0	%100
17	M20	X	-.32	-.32	0	%100
18	M20	Z	.185	.185	0	%100
19	M21	X	-.32	-.32	0	%100
20	M21	Z	.185	.185	0	%100
21	M22	X	-.32	-.32	0	%100
22	M22	Z	.185	.185	0	%100
23	M23	X	-.369	-.369	0	%100
24	M23	Z	.213	.213	0	%100
25	MP2A	X	-.464	-.464	0	%100
26	MP2A	Z	.268	.268	0	%100
27	MP3A	X	-.562	-.562	0	%100
28	MP3A	Z	.324	.324	0	%100
29	MP4A	X	-.464	-.464	0	%100
30	MP4A	Z	.268	.268	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
31	MP5A	X	-.464	-.464	0	%100
32	MP5A	Z	.268	.268	0	%100
33	MP1C	X	-.464	-.464	0	%100
34	MP1C	Z	.268	.268	0	%100
35	MP2C	X	-.464	-.464	0	%100
36	MP2C	Z	.268	.268	0	%100
37	MP3C	X	-.562	-.562	0	%100
38	MP3C	Z	.324	.324	0	%100
39	MP4C	X	-.464	-.464	0	%100
40	MP4C	Z	.268	.268	0	%100
41	MP5C	X	-.464	-.464	0	%100
42	MP5C	Z	.268	.268	0	%100
43	MP1B	X	-.464	-.464	0	%100
44	MP1B	Z	.268	.268	0	%100
45	MP2B	X	-.464	-.464	0	%100
46	MP2B	Z	.268	.268	0	%100
47	MP3B	X	-.562	-.562	0	%100
48	MP3B	Z	.324	.324	0	%100
49	MP4B	X	-.464	-.464	0	%100
50	MP4B	Z	.268	.268	0	%100
51	MP5B	X	-.464	-.464	0	%100
52	MP5B	Z	.268	.268	0	%100
53	M48	X	-.32	-.32	0	%100
54	M48	Z	.185	.185	0	%100
55	M49	X	-.32	-.32	0	%100
56	M49	Z	.185	.185	0	%100
57	M50	X	-.32	-.32	0	%100
58	M50	Z	.185	.185	0	%100
59	M51	X	-.32	-.32	0	%100
60	M51	Z	.185	.185	0	%100
61	M52	X	0	0	0	%100
62	M52	Z	0	0	0	%100
63	M53	X	0	0	0	%100
64	M53	Z	0	0	0	%100
65	M54	X	0	0	0	%100
66	M54	Z	0	0	0	%100
67	M55	X	0	0	0	%100
68	M55	Z	0	0	0	%100
69	M56	X	-.751	-.751	0	%100
70	M56	Z	.434	.434	0	%100
71	M57	X	-.305	-.305	0	%100
72	M57	Z	.176	.176	0	%100
73	M58	X	-.751	-.751	0	%100
74	M58	Z	.434	.434	0	%100
75	M60	X	-.14	-.14	0	%100
76	M60	Z	.081	.081	0	%100
77	M75	X	-.562	-.562	0	%100
78	M75	Z	.324	.324	0	%100
79	M76	X	-.14	-.14	0	%100
80	M76	Z	.081	.081	0	%100
81	M83	X	-.165	-.165	0	%100
82	M83	Z	.096	.096	0	%100
83	M84	X	-.662	-.662	0	%100
84	M84	Z	.382	.382	0	%100
85	M85	X	-.165	-.165	0	%100
86	M85	Z	.096	.096	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	-.536	-.536	0	%100
2	MP1A	Z	0	0	0	%100
3	M7	X	0	0	0	%100
4	M7	Z	0	0	0	%100
5	M8	X	-.617	-.617	0	%100
6	M8	Z	0	0	0	%100
7	M9	X	-.617	-.617	0	%100
8	M9	Z	0	0	0	%100
9	M16	X	-.823	-.823	0	%100
10	M16	Z	0	0	0	%100
11	M17	X	-.206	-.206	0	%100
12	M17	Z	0	0	0	%100
13	M18	X	-.206	-.206	0	%100
14	M18	Z	0	0	0	%100
15	M19	X	-.123	-.123	0	%100
16	M19	Z	0	0	0	%100
17	M20	X	-.123	-.123	0	%100
18	M20	Z	0	0	0	%100
19	M21	X	-.123	-.123	0	%100
20	M21	Z	0	0	0	%100
21	M22	X	-.123	-.123	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	-.426	-.426	0	%100
24	M23	Z	0	0	0	%100
25	MP2A	X	-.536	-.536	0	%100
26	MP2A	Z	0	0	0	%100
27	MP3A	X	-.649	-.649	0	%100
28	MP3A	Z	0	0	0	%100
29	MP4A	X	-.536	-.536	0	%100
30	MP4A	Z	0	0	0	%100
31	MP5A	X	-.536	-.536	0	%100
32	MP5A	Z	0	0	0	%100
33	MP1C	X	-.536	-.536	0	%100
34	MP1C	Z	0	0	0	%100
35	MP2C	X	-.536	-.536	0	%100
36	MP2C	Z	0	0	0	%100
37	MP3C	X	-.649	-.649	0	%100
38	MP3C	Z	0	0	0	%100
39	MP4C	X	-.536	-.536	0	%100
40	MP4C	Z	0	0	0	%100
41	MP5C	X	-.536	-.536	0	%100
42	MP5C	Z	0	0	0	%100
43	MP1B	X	-.536	-.536	0	%100
44	MP1B	Z	0	0	0	%100
45	MP2B	X	-.536	-.536	0	%100
46	MP2B	Z	0	0	0	%100
47	MP3B	X	-.649	-.649	0	%100
48	MP3B	Z	0	0	0	%100
49	MP4B	X	-.536	-.536	0	%100
50	MP4B	Z	0	0	0	%100
51	MP5B	X	-.536	-.536	0	%100
52	MP5B	Z	0	0	0	%100
53	M48	X	-.493	-.493	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	-.493	-.493	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	-.493	-.493	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
58	M50	Z	0	0	0	%100
59	M51	X	-.493	-.493	0	%100
60	M51	Z	0	0	0	%100
61	M52	X	-.123	-.123	0	%100
62	M52	Z	0	0	0	%100
63	M53	X	-.123	-.123	0	%100
64	M53	Z	0	0	0	%100
65	M54	X	-.123	-.123	0	%100
66	M54	Z	0	0	0	%100
67	M55	X	-.123	-.123	0	%100
68	M55	Z	0	0	0	%100
69	M56	X	-1.039	-1.039	0	%100
70	M56	Z	0	0	0	%100
71	M57	X	-.524	-.524	0	%100
72	M57	Z	0	0	0	%100
73	M58	X	-.524	-.524	0	%100
74	M58	Z	0	0	0	%100
75	M60	X	0	0	0	%100
76	M60	Z	0	0	0	%100
77	M75	X	-.487	-.487	0	%100
78	M75	Z	0	0	0	%100
79	M76	X	-.487	-.487	0	%100
80	M76	Z	0	0	0	%100
81	M83	X	0	0	0	%100
82	M83	Z	0	0	0	%100
83	M84	X	-.573	-.573	0	%100
84	M84	Z	0	0	0	%100
85	M85	X	-.573	-.573	0	%100
86	M85	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	-.464	-.464	0	%100
2	MP1A	Z	-.268	-.268	0	%100
3	M7	X	-.178	-.178	0	%100
4	M7	Z	-.103	-.103	0	%100
5	M8	X	-.178	-.178	0	%100
6	M8	Z	-.103	-.103	0	%100
7	M9	X	-.713	-.713	0	%100
8	M9	Z	-.411	-.411	0	%100
9	M16	X	-.534	-.534	0	%100
10	M16	Z	-.309	-.309	0	%100
11	M17	X	-.534	-.534	0	%100
12	M17	Z	-.309	-.309	0	%100
13	M18	X	0	0	0	%100
14	M18	Z	0	0	0	%100
15	M19	X	0	0	0	%100
16	M19	Z	0	0	0	%100
17	M20	X	0	0	0	%100
18	M20	Z	0	0	0	%100
19	M21	X	0	0	0	%100
20	M21	Z	0	0	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	-.369	-.369	0	%100
24	M23	Z	-.213	-.213	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
25	MP2A	X	-.464	-.464	0	%100
26	MP2A	Z	-.268	-.268	0	%100
27	MP3A	X	-.562	-.562	0	%100
28	MP3A	Z	-.324	-.324	0	%100
29	MP4A	X	-.464	-.464	0	%100
30	MP4A	Z	-.268	-.268	0	%100
31	MP5A	X	-.464	-.464	0	%100
32	MP5A	Z	-.268	-.268	0	%100
33	MP1C	X	-.464	-.464	0	%100
34	MP1C	Z	-.268	-.268	0	%100
35	MP2C	X	-.464	-.464	0	%100
36	MP2C	Z	-.268	-.268	0	%100
37	MP3C	X	-.562	-.562	0	%100
38	MP3C	Z	-.324	-.324	0	%100
39	MP4C	X	-.464	-.464	0	%100
40	MP4C	Z	-.268	-.268	0	%100
41	MP5C	X	-.464	-.464	0	%100
42	MP5C	Z	-.268	-.268	0	%100
43	MP1B	X	-.464	-.464	0	%100
44	MP1B	Z	-.268	-.268	0	%100
45	MP2B	X	-.464	-.464	0	%100
46	MP2B	Z	-.268	-.268	0	%100
47	MP3B	X	-.562	-.562	0	%100
48	MP3B	Z	-.324	-.324	0	%100
49	MP4B	X	-.464	-.464	0	%100
50	MP4B	Z	-.268	-.268	0	%100
51	MP5B	X	-.464	-.464	0	%100
52	MP5B	Z	-.268	-.268	0	%100
53	M48	X	-.32	-.32	0	%100
54	M48	Z	-.185	-.185	0	%100
55	M49	X	-.32	-.32	0	%100
56	M49	Z	-.185	-.185	0	%100
57	M50	X	-.32	-.32	0	%100
58	M50	Z	-.185	-.185	0	%100
59	M51	X	-.32	-.32	0	%100
60	M51	Z	-.185	-.185	0	%100
61	M52	X	-.32	-.32	0	%100
62	M52	Z	-.185	-.185	0	%100
63	M53	X	-.32	-.32	0	%100
64	M53	Z	-.185	-.185	0	%100
65	M54	X	-.32	-.32	0	%100
66	M54	Z	-.185	-.185	0	%100
67	M55	X	-.32	-.32	0	%100
68	M55	Z	-.185	-.185	0	%100
69	M56	X	-.751	-.751	0	%100
70	M56	Z	-.434	-.434	0	%100
71	M57	X	-.751	-.751	0	%100
72	M57	Z	-.434	-.434	0	%100
73	M58	X	-.305	-.305	0	%100
74	M58	Z	-.176	-.176	0	%100
75	M60	X	-.14	-.14	0	%100
76	M60	Z	-.081	-.081	0	%100
77	M75	X	-.14	-.14	0	%100
78	M75	Z	-.081	-.081	0	%100
79	M76	X	-.562	-.562	0	%100
80	M76	Z	-.324	-.324	0	%100
81	M83	X	-.165	-.165	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
82	M83	Z	-.096	-.096	0	%100
83	M84	X	-.165	-.165	0	%100
84	M84	Z	-.096	-.096	0	%100
85	M85	X	-.662	-.662	0	%100
86	M85	Z	-.382	-.382	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	MP1A	X	-.268	-.268	0	%100
2	MP1A	Z	-.464	-.464	0	%100
3	M7	X	-.309	-.309	0	%100
4	M7	Z	-.534	-.534	0	%100
5	M8	X	0	0	0	%100
6	M8	Z	0	0	0	%100
7	M9	X	-.309	-.309	0	%100
8	M9	Z	-.534	-.534	0	%100
9	M16	X	-.103	-.103	0	%100
10	M16	Z	-.178	-.178	0	%100
11	M17	X	-.411	-.411	0	%100
12	M17	Z	-.713	-.713	0	%100
13	M18	X	-.103	-.103	0	%100
14	M18	Z	-.178	-.178	0	%100
15	M19	X	-.062	-.062	0	%100
16	M19	Z	-.107	-.107	0	%100
17	M20	X	-.062	-.062	0	%100
18	M20	Z	-.107	-.107	0	%100
19	M21	X	-.062	-.062	0	%100
20	M21	Z	-.107	-.107	0	%100
21	M22	X	-.062	-.062	0	%100
22	M22	Z	-.107	-.107	0	%100
23	M23	X	-.213	-.213	0	%100
24	M23	Z	-.369	-.369	0	%100
25	MP2A	X	-.268	-.268	0	%100
26	MP2A	Z	-.464	-.464	0	%100
27	MP3A	X	-.324	-.324	0	%100
28	MP3A	Z	-.562	-.562	0	%100
29	MP4A	X	-.268	-.268	0	%100
30	MP4A	Z	-.464	-.464	0	%100
31	MP5A	X	-.268	-.268	0	%100
32	MP5A	Z	-.464	-.464	0	%100
33	MP1C	X	-.268	-.268	0	%100
34	MP1C	Z	-.464	-.464	0	%100
35	MP2C	X	-.268	-.268	0	%100
36	MP2C	Z	-.464	-.464	0	%100
37	MP3C	X	-.324	-.324	0	%100
38	MP3C	Z	-.562	-.562	0	%100
39	MP4C	X	-.268	-.268	0	%100
40	MP4C	Z	-.464	-.464	0	%100
41	MP5C	X	-.268	-.268	0	%100
42	MP5C	Z	-.464	-.464	0	%100
43	MP1B	X	-.268	-.268	0	%100
44	MP1B	Z	-.464	-.464	0	%100
45	MP2B	X	-.268	-.268	0	%100
46	MP2B	Z	-.464	-.464	0	%100
47	MP3B	X	-.324	-.324	0	%100
48	MP3B	Z	-.562	-.562	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
49	MP4B	X	-.268	-.268	0	%100
50	MP4B	Z	-.464	-.464	0	%100
51	MP5B	X	-.268	-.268	0	%100
52	MP5B	Z	-.464	-.464	0	%100
53	M48	X	-.062	-.062	0	%100
54	M48	Z	-.107	-.107	0	%100
55	M49	X	-.062	-.062	0	%100
56	M49	Z	-.107	-.107	0	%100
57	M50	X	-.062	-.062	0	%100
58	M50	Z	-.107	-.107	0	%100
59	M51	X	-.062	-.062	0	%100
60	M51	Z	-.107	-.107	0	%100
61	M52	X	-.247	-.247	0	%100
62	M52	Z	-.427	-.427	0	%100
63	M53	X	-.247	-.247	0	%100
64	M53	Z	-.427	-.427	0	%100
65	M54	X	-.247	-.247	0	%100
66	M54	Z	-.427	-.427	0	%100
67	M55	X	-.247	-.247	0	%100
68	M55	Z	-.427	-.427	0	%100
69	M56	X	-.262	-.262	0	%100
70	M56	Z	-.454	-.454	0	%100
71	M57	X	-.519	-.519	0	%100
72	M57	Z	-.9	-.9	0	%100
73	M58	X	-.262	-.262	0	%100
74	M58	Z	-.454	-.454	0	%100
75	M60	X	-.243	-.243	0	%100
76	M60	Z	-.421	-.421	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	0	0	0	%100
79	M76	X	-.243	-.243	0	%100
80	M76	Z	-.421	-.421	0	%100
81	M83	X	-.287	-.287	0	%100
82	M83	Z	-.496	-.496	0	%100
83	M84	X	0	0	0	%100
84	M84	Z	0	0	0	%100
85	M85	X	-.287	-.287	0	%100
86	M85	Z	-.496	-.496	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	M16	Y	.111	-3.118	1.55	2.131
2	M16	Y	-3.118	-4.548	2.131	2.713
3	M16	Y	-4.548	-3.638	2.713	3.294
4	M16	Y	-3.638	-5.417	3.294	3.875
5	M17	Y	-.061	-2.142	1.55	2.325
6	M17	Y	-2.142	-3.856	2.325	3.1
7	M17	Y	-3.856	-3.121	3.1	3.875
8	M19	Y	-21.228	-21.228	.11	.833
9	M20	Y	-24	-24	.11	.833
10	M21	Y	-23.625	-23.625	.11	.833
11	M22	Y	-17.571	-17.571	.095	.833
12	M17	Y	.111	-3.118	1.55	2.131
13	M17	Y	-3.118	-4.548	2.131	2.713
14	M17	Y	-4.548	-3.638	2.713	3.294
15	M17	Y	-3.638	-5.417	3.294	3.875

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
16	M18	Y	-.061	-2.142	1.55	2.325
17	M18	Y	-2.142	-3.856	2.325	3.1
18	M18	Y	-3.856	-3.121	3.1	3.875
19	M48	Y	-21.214	-21.214	.11	.833
20	M49	Y	-24	-24	.11	.833
21	M50	Y	-23.625	-23.625	.11	.833
22	M51	Y	-17.927	-17.927	.11	.833
23	M9	Y	-1.183	-1.183	0	1.292
24	M16	Y	0	-2.03	1.55	2.17
25	M16	Y	-2.03	-4.336	2.17	2.79
26	M16	Y	-4.336	-5.359	2.79	3.41
27	M16	Y	-5.359	-3.053	3.41	4.03
28	M16	Y	-3.053	0	4.03	4.65
29	M18	Y	0	-2.264	1.55	2.17
30	M18	Y	-2.264	-4.439	2.17	2.79
31	M18	Y	-4.439	-3.416	2.79	3.41
32	M18	Y	-3.416	-1.24	3.41	4.03
33	M18	Y	-1.24	0	4.03	4.65
34	M52	Y	.055	-17.789	0	.167
35	M52	Y	-17.789	-29.176	.167	.333
36	M52	Y	-29.176	-22.128	.333	.5
37	M52	Y	-22.128	-22.091	.5	.667
38	M52	Y	-22.091	-23.198	.667	.833
39	M53	Y	.519	-16.413	0	.167
40	M53	Y	-16.413	-31.365	.167	.333
41	M53	Y	-31.365	-23.778	.333	.5
42	M53	Y	-23.778	-23.362	.5	.667
43	M53	Y	-23.362	-33.744	.667	.833
44	M54	Y	.105	-17.163	0	.167
45	M54	Y	-17.163	-29.863	.167	.333
46	M54	Y	-29.863	-24.178	.333	.5
47	M54	Y	-24.178	-24.114	.5	.667
48	M54	Y	-24.114	-26.218	.667	.833
49	M55	Y	-.188	-14.322	0	.167
50	M55	Y	-14.322	-24.114	.167	.333
51	M55	Y	-24.114	-19.845	.333	.5
52	M55	Y	-19.845	-18.035	.5	.667
53	M55	Y	-18.035	-14.267	.667	.833

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
1	M16	Y	.136	-3.811	1.55	2.131
2	M16	Y	-3.811	-5.558	2.131	2.713
3	M16	Y	-5.558	-4.446	2.713	3.294
4	M16	Y	-4.446	-6.62	3.294	3.875
5	M17	Y	-.075	-2.618	1.55	2.325
6	M17	Y	-2.618	-4.712	2.325	3.1
7	M17	Y	-4.712	-3.814	3.1	3.875
8	M19	Y	-25.945	-25.945	.11	.833
9	M20	Y	-29.333	-29.333	.11	.833
10	M21	Y	-28.875	-28.875	.11	.833
11	M22	Y	-21.475	-21.475	.095	.833
12	M17	Y	.136	-3.811	1.55	2.131
13	M17	Y	-3.811	-5.558	2.131	2.713
14	M17	Y	-5.558	-4.446	2.713	3.294
15	M17	Y	-4.446	-6.62	3.294	3.875

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...	End Location[ft,...
16	M18	Y	-.075	-2.618	1.55	2.325
17	M18	Y	-2.618	-4.712	2.325	3.1
18	M18	Y	-4.712	-3.814	3.1	3.875
19	M48	Y	-25.928	-25.928	.11	.833
20	M49	Y	-29.333	-29.333	.11	.833
21	M50	Y	-28.875	-28.875	.11	.833
22	M51	Y	-21.911	-21.911	.11	.833
23	M9	Y	-1.445	-1.445	0	1.292
24	M16	Y	5.73e-16	-2.481	1.55	2.17
25	M16	Y	-2.481	-5.299	2.17	2.79
26	M16	Y	-5.299	-6.55	2.79	3.41
27	M16	Y	-6.55	-3.731	3.41	4.03
28	M16	Y	-3.731	5.73e-16	4.03	4.65
29	M18	Y	-5.73e-16	-2.767	1.55	2.17
30	M18	Y	-2.767	-5.425	2.17	2.79
31	M18	Y	-5.425	-4.175	2.79	3.41
32	M18	Y	-4.175	-1.516	3.41	4.03
33	M18	Y	-1.516	-5.73e-16	4.03	4.65
34	M52	Y	.068	-21.742	0	.167
35	M52	Y	-21.742	-35.66	.167	.333
36	M52	Y	-35.66	-27.046	.333	.5
37	M52	Y	-27.046	-27	.5	.667
38	M52	Y	-27	-28.353	.667	.833
39	M53	Y	.634	-20.06	0	.167
40	M53	Y	-20.06	-38.334	.167	.333
41	M53	Y	-38.334	-29.062	.333	.5
42	M53	Y	-29.062	-28.554	.5	.667
43	M53	Y	-28.554	-41.243	.667	.833
44	M54	Y	.129	-20.977	0	.167
45	M54	Y	-20.977	-36.499	.167	.333
46	M54	Y	-36.499	-29.551	.333	.5
47	M54	Y	-29.551	-29.473	.5	.667
48	M54	Y	-29.473	-32.044	.667	.833
49	M55	Y	-.23	-17.504	0	.167
50	M55	Y	-17.504	-29.473	.167	.333
51	M55	Y	-29.473	-24.256	.333	.5
52	M55	Y	-24.256	-22.042	.5	.667
53	M55	Y	-22.042	-17.438	.667	.833

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N158A	N159A	N21A	N24	Y	A-B	-.009
2	N158A	N103A	N28	N24	Y	A-B	-.009
3	N103A	N85	N21A	N28	Y	A-B	-.009

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N158A	N159A	N21A	N24	Y	A-B	-.011
2	N158A	N103A	N28	N24	Y	A-B	-.011
3	N103A	N85	N21A	N28	Y	A-B	-.011

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	N23	max	646.54	10	132.211	7	6959.096	1	.105	7	1.366	4	.313	4
2		min	-648.481	4	-418.15	1	-3684.565	7	-.3	1	-1.369	10	-.307	10
3	N26	max	6388.092	9	315.627	3	2015.045	3	.516	12	1.628	12	.372	7
4		min	-3507.177	3	-469.856	9	-3675.546	9	-.476	6	-1.631	6	-.316	1
5	N29	max	3206.46	11	133.383	11	1848.271	11	.33	3	1.366	8	.143	12
6		min	-6012.902	5	-417.02	5	-3470.471	5	-.236	9	-1.37	2	-.313	6
7	N106A	max	39.887	10	3021.563	13	-190.504	7	0	51	0	9	0	3
8		min	-39.945	4	109.949	7	-5985.688	13	0	1	0	3	0	9
9	N107A	max	3.705	3	3097.094	21	3069.037	21	0	11	0	5	0	5
10		min	-5315.743	21	13.195	3	-2.14	3	0	5	0	11	0	11
11	N110	max	5154.951	17	3005.05	17	2976.106	17	0	1	0	1	0	1
12		min	150.719	11	101.769	11	87.018	11	0	7	0	7	0	7
13	Totals:	max	5646.188	10	7557.513	19	5624.314	1						
14		min	-5646.188	4	3403.999	1	-5624.313	7						

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

	Memb...	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[...	Dir	LC	phi*P...	phi*Pnt [...	phi*Mn ...	phi*Mn z-...	Cb	Eqn
1	MP4B	PIPE_2.0	.369	4.833	2	.113	4.833		12	14916...	32130	1.872	1.872	2.9...	H1...
2	MP4C	PIPE_2.0	.369	4.833	6	.112	4.833		4	14916...	32130	1.872	1.872	4.3...	H1...
3	MP4A	PIPE_2.0	.367	4.833	10	.112	4.833		8	14916...	32130	1.872	1.872	3.13	H1...
4	MP2A	PIPE_2.0	.359	4.833	4	.107	2.417		6	14916...	32130	1.872	1.872	3.0...	H1...
5	MP2C	PIPE_2.0	.359	4.833	12	.106	2.417		2	14916...	32130	1.872	1.872	2.8...	H1...
6	MP2B	PIPE_2.0	.358	4.833	8	.106	2.417		10	14916...	32130	1.872	1.872	4.2...	H1...
7	M84	L3X3X4	.346	0	5	.036	.047	y	6	44401...	46656	1.688	3.756	1.9...	H2...
8	M85	L3X3X4	.344	0	1	.034	.093	y	2	44401...	46656	1.688	3.756	1.9...	H2...
9	M83	L3X3X4	.342	0	9	.034	0	y	10	44401...	46656	1.688	3.756	1.9...	H2...
10	MP3A	PIPE_2.5	.278	4.833	4	.131	4.833		4	30038...	50715	3.596	3.596	2.2...	H1...
11	MP3C	PIPE_2.5	.277	4.833	12	.131	4.833		12	30038...	50715	3.596	3.596	2.2...	H1...
12	MP3B	PIPE_2.5	.277	4.833	8	.131	4.833		8	30038...	50715	3.596	3.596	2.2...	H1...
13	M16	HSS3.5X3.5X4	.269	2.26	16	.079	3.956	y	15	86100...	120474	12.075	12.075	2.8...	H1...
14	M18	HSS3.5X3.5X4	.269	2.26	20	.078	3.956	y	19	86100...	120474	12.075	12.075	2.8...	H1...
15	M17	HSS3.5X3.5X4	.266	2.26	24	.082	7.75	z	12	86100...	120474	12.075	12.075	2.8...	H1...
16	M60	PIPE_2.5	.247	6.64	7	.113	10.0...		6	14559...	50715	3.596	3.596	2.5...	H1...
17	M76	PIPE_2.5	.246	6.64	11	.113	10.0...		10	14559...	50715	3.596	3.596	2.4...	H1...
18	M75	PIPE_2.5	.246	6.64	3	.113	10.0...		2	14559...	50715	3.596	3.596	2.4...	H1...
19	MP5B	PIPE_2.0	.235	4.833	1	.096	2.333		11	14916...	32130	1.872	1.872	3.15	H1...
20	MP5A	PIPE_2.0	.235	4.833	9	.096	2.333		7	14916...	32130	1.872	1.872	3.12	H1...
21	MP5C	PIPE_2.0	.235	4.833	6	.095	2.333		3	14916...	32130	1.872	1.872	3.9...	H1...
22	M23	PIPE_2.0	.228	2.75	9	.026	2.75		9	29344...	32130	1.872	1.872	2.4...	H1...
23	MP1B	PIPE_2.0	.221	4.833	9	.093	2.333		11	14916...	32130	1.872	1.872	3.1...	H1...
24	MP1A	PIPE_2.0	.221	4.833	5	.093	2.333		7	14916...	32130	1.872	1.872	3.1...	H1...
25	MP1C	PIPE_2.0	.220	4.833	1	.092	2.333		3	14916...	32130	1.872	1.872	3.1...	H1...
26	M7	HSS3.5X3.5X4	.194	0	1	.075	12.9...	y	2	47385...	120474	12.075	12.075	3.1...	H1...
27	M9	HSS3.5X3.5X4	.194	12.9...	5	.074	0	z	11	47385...	120474	12.075	12.075	3.1...	H1...
28	M8	HSS3.5X3.5X4	.192	0	9	.075	12.9...	y	10	47385...	120474	12.075	12.075	3.1...	H1...
29	M57	LL3x3x3x3	.144	5.059	21	.004	0	z	12	47647...	70632	5.543	3.751	1	H1...
30	M56	LL3x3x3x3	.141	5.059	13	.004	0	z	4	47647...	70632	5.543	3.751	1	H1...
31	M58	LL3x3x3x3	.140	5.059	17	.004	0	z	8	47647...	70632	5.543	3.751	1	H1...
32	M53	L2x2x4	.037	0	18	.005	0	y	24	29529...	30585.6	.691	1.577	2.2...	H2...
33	M54	L2x2x4	.036	0	18	.005	0	y	24	29529...	30585.6	.691	1.577	2.3...	H2...
34	M49	L2x2x4	.035	0	22	.005	0	y	24	29529...	30585.6	.691	1.577	2.3...	H2...
35	M20	L2x2x4	.035	0	14	.005	0	y	23	29529...	30585.6	.691	1.577	2.3...	H2...
36	M50	L2x2x4	.034	0	22	.005	0	y	24	29529...	30585.6	.691	1.577	2.3...	H2...
37	M21	L2x2x4	.034	0	14	.005	0	y	23	29529...	30585.6	.691	1.577	2.3...	H2...

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

	Memb...	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[...	Dir	LC	phi*P...	phi*Pnt [...	phi*Mn ...	phi*Mn z-...	Cb	Eqn
38	M52	L2x2x4	.034	0	18	.005	0	y	24	29529..	30585.6	.691	1.577	2.3...	H2...
39	M19	L2x2x4	.031	0	14	.005	0	y	23	29529..	30585.6	.691	1.577	2.3...	H2...
40	M48	L2x2x4	.031	0	22	.005	0	y	22	29529..	30585.6	.691	1.577	2.3...	H2...
41	M55	L2x2x4	.028	0	18	.004	0	y	24	29529..	30585.6	.691	1.577	2.3...	H2...
42	M51	L2x2x4	.027	0	22	.004	0	y	24	29529..	30585.6	.691	1.577	2.3...	H2...
43	M22	L2x2x4	.027	0	14	.004	0	y	23	29529..	30585.6	.691	1.577	2.3...	H2...

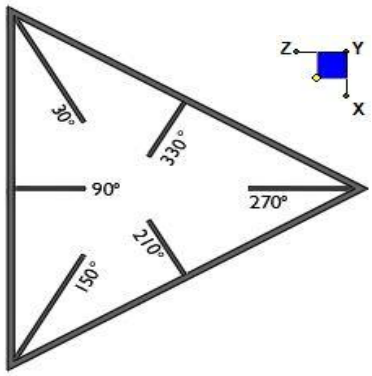
Client:	Verizon Wireless	Date:	7/7/2021
Site Name:	COLCHESTER SOUTH CT		
Project No.	21777720A		
Title:	Antenna Mount Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

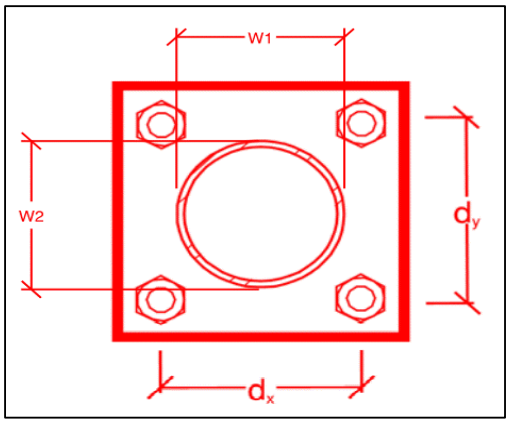
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N23	270
N26	30
N29	150



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:	yes
Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)* :	3
d_y (in) *(Delta Y of typ. bolt config. sketch)* :	7
Bolt Type:	A325N
Bolt Diameter (in):	0.625
Required Tensile Strength (kips):	14.7
Required Shear Strength (kips):	5.4
Tensile Strength / bolt (kips):	20.7
Shear Strength / bolt (kips):	12.4
Tensile Capacity Overall:	**17.8%***
Shear Capacity Overall:	**11.0%**



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

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:	Rect
Plate Width (in):	6
Plate Height (in):	10
W1 (in):	3.5
W2 (in):	3.5
Fy (ksi, plate):	36
t_{Plate} (in):	0.5
Weld Size (1/16 in):	6
Phi*Rn (kip/in):	8.35
Required Weld Strength (kip/in):	1.36
Plate Bending Capacity:	**55.9%**
Weld Capacity:	**16.3%**

Max Plate Bending Strengths

Mu_{xx} *(kip-in)* :	6.8
$Phi*Mn_{xx}$ *(kip-in)* :	12.2
Mu_{yy} *(kip-in)* :	0.0
$Phi*Mn_{yy}$ *(kip-in)* :	20.3

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

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

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

Base Requirements:

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

Photo Requirements:

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

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

Material Certification:

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

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

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

Certifying Individual: Company _____

Name _____

Signature _____

Antenna & equipment placement and Geometry Confirmation:

- The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.

☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the antenna placement diagrams as included in this mount analysis.

☐ The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.

Certifying Individual: Company _____

Name _____

Signature _____

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

Issue:

Contractor to inspect climbing facilities at site and ensure that the safety climb is in good condition and that the wire rope does not or will not interfere with the existing or proposed mount connections. Contractor shall install safety climb wire rope guides around mount connections as needed. Remove the existing RRH ring mount below existing platform.

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

Structure: 469142-VZW - COLCHESTER SOUTH CT

Sector: **A**

Structure Type: Monopole

Mount Elev: 180.00

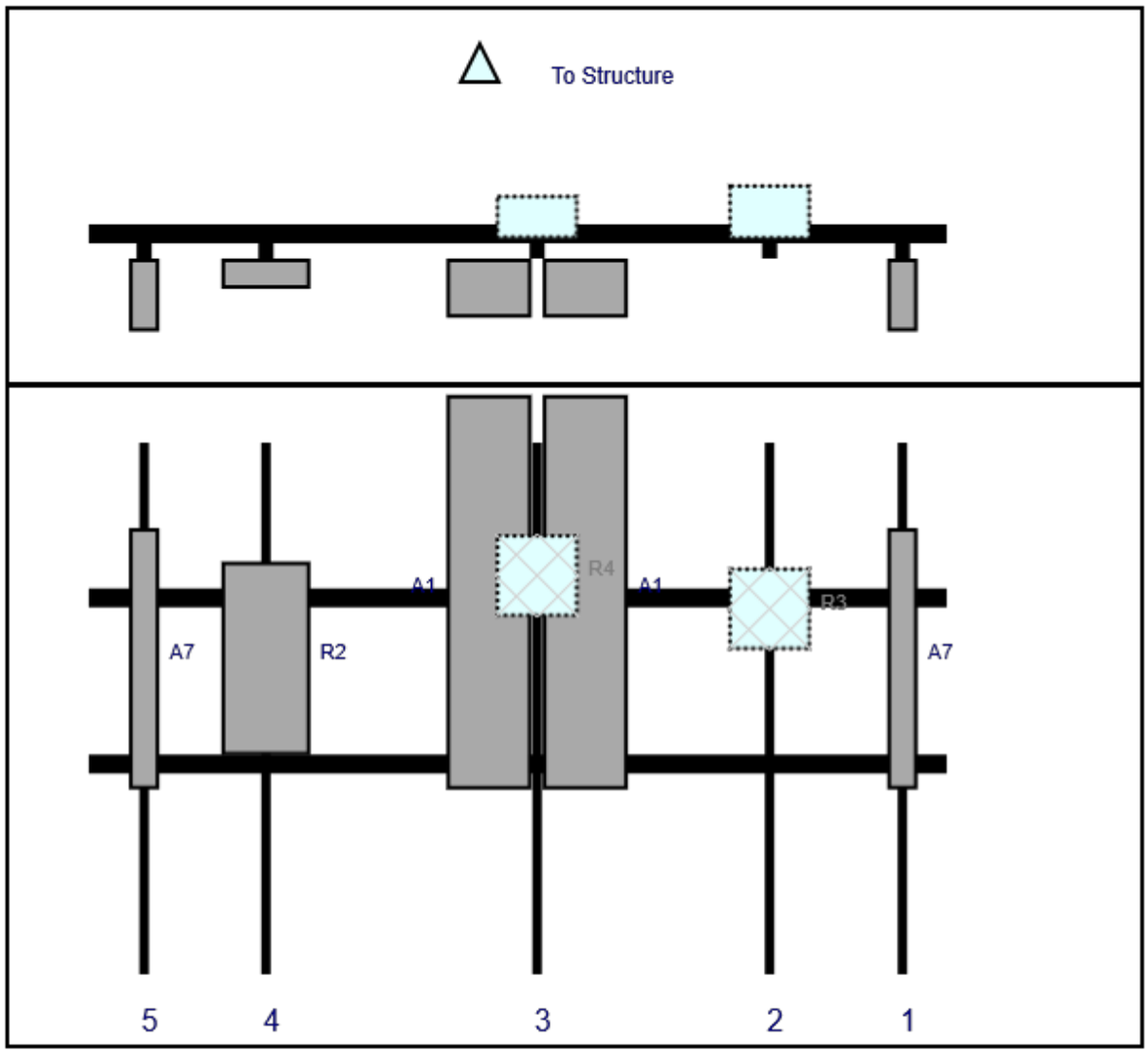
10084894

7/7/2021

Page: 1

Plan View

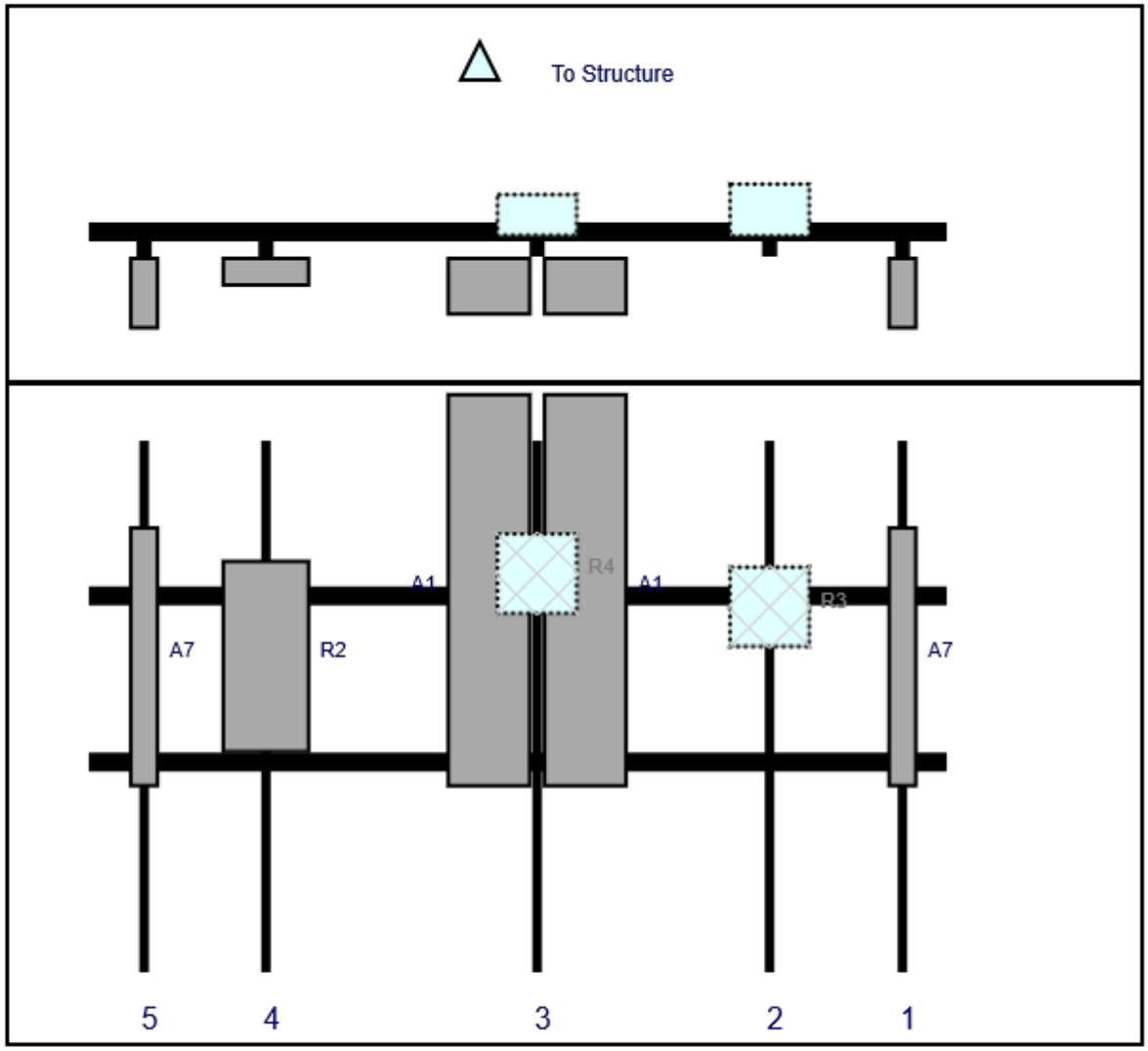
Front View
Looking at Structure



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
A7	LPA-80080-4CF	47.2	5.5	147	1	a	Front	39	0	Retained	04/21/2021
R3	B2/B66A RRH-BR049	15	15	123	2	a	Behind	30	0	Added	
A1	MX06FRO660-03	71.3	15.4	81	3	a	Front	27	8.7	Added	
A1	MX06FRO660-03	71.3	15.4	81	3	b	Front	27	-8.7	Added	
R4	B5/B13 RRH-BR04C	15	15	81	3	a	Behind	24	0	Added	
R2	MT6407-77A	35.1	16.1	32	4	a	Front	39	0	Added	
A7	LPA-80080-4CF	47.2	5.5	10	5	a	Front	39	0	Retained	04/21/2021

Plan View

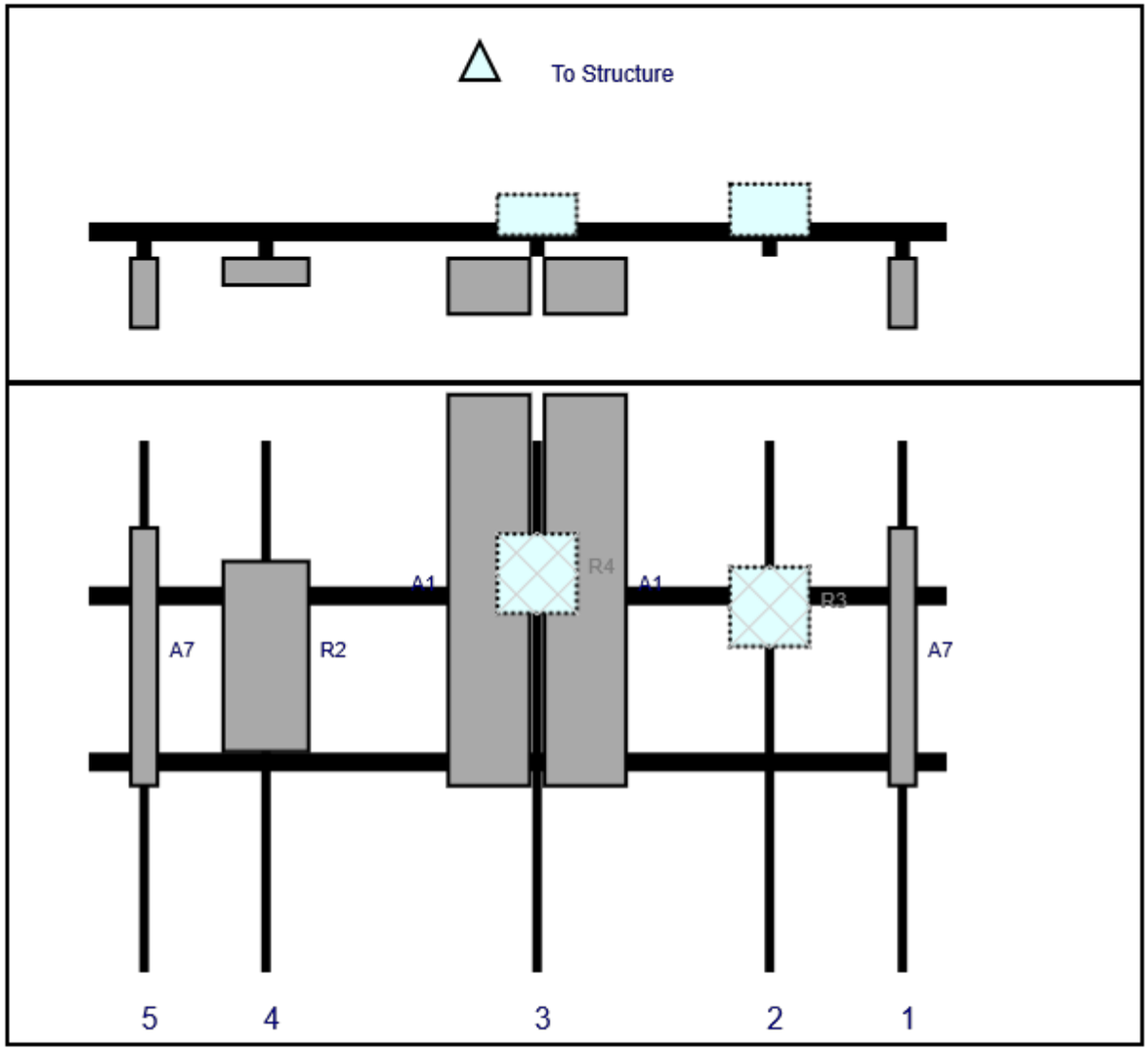
Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A7	LPA-80080-4CF	47.2	5.5	147	1	a	Front	39	0	Retained	04/21/2021
R3	B2/B66A RRH-BR049	15	15	123	2	a	Behind	30	0	Added	
A1	MX06FRO660-03	71.3	15.4	81	3	a	Front	27	8.7	Added	
A1	MX06FRO660-03	71.3	15.4	81	3	b	Front	27	-8.7	Added	
R4	B5/B13 RRH-BR04C	15	15	81	3	a	Behind	24	0	Added	
R2	MT6407-77A	35.1	16.1	32	4	a	Front	39	0	Added	
A7	LPA-80080-4CF	47.2	5.5	10	5	a	Front	39	0	Retained	04/21/2021

Plan View

Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A7	LPA-80080-4CF	47.2	5.5	147	1	a	Front	39	0	Retained	04/21/2021
R3	B2/B66A RRH-BR049	15	15	123	2	a	Behind	30	0	Added	
A1	MX06FRO660-03	71.3	15.4	81	3	a	Front	27	8.7	Added	
A1	MX06FRO660-03	71.3	15.4	81	3	b	Front	27	-8.7	Added	
R4	B5/B13 RRH-BR04C	15	15	81	3	a	Behind	24	0	Added	
R2	MT6407-77A	35.1	16.1	32	4	a	Front	39	0	Added	
A7	LPA-80080-4CF	47.2	5.5	10	5	a	Front	39	0	Retained	04/21/2021

Maser Consulting Connecticut

Subject	*TIA-222-H Usage*	
Site Information	*Site ID:*	*469142-VZW / COLCHESTER SOUTH CT*
	Site Name:	*COLCHESTER SOUTH CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*856 Middletown Road* *Colchester, Connecticut 06415* *New London County*
	Latitude:	*41.551633°*
	Longitude:	*-72.425794°*
Structure Information	*Tower Type:*	*180-Ft Monopole*
	Mount Type:	*12.92-Ft Platform Mount*

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,

Justin Linette, PE
Senior Technical Manager

PROJECT NOTES

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

verizon

MOUNT MODIFICATION DRAWINGS
EXISTING 12.92' PLATFORM

SITE NAME: COLCHESTER SOUTH CT
SITE NUMBER: 469142

856 MIDDLETOWN ROAD
COLCHESTER, CONNECTICUT 06415
NEW LONDON COUNTY

PROJECT INFORMATION

SITE INFORMATION

LATITUDE:	41.551633° N
LONGITUDE:	72.425794° W
JURISDICTION:	NEW LONDON COUNTY

APPLICANT/LESSEE

COMPANY:	VERIZON WIRELESS

CLIENT REPRESENTATIVE

COMPANY:	VERIZON WIRELESS
ADDRESS:	118 FLANDERS ROAD, THIRD FLOOR
CITY, STATE, ZIP:	WESTBOROUGH, MA 01581
CONTACT:	ANDREW CANDIELLO
EMAIL:	ANDREW.CANDIELLO@VERIZONWIRELESS.COM

PROJECT MANAGER

COMPANY:	MASER CONSULTING
CONTACT:	PETER ALBANO
PHONE:	856-797-0412
E-MAIL:	PETER.ALBANO@COLLIERSENGINEERING.COM

SHEET INDEX

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

CONTRACTOR PMI REQUIREMENTS

PMI LOCATION:	HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #:	10084894
VZW LOCATION CODE (PSLC):	469142
FUZE ID:	16272138

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

REFERENCED DOCUMENTS

FAILING MOUNT ANALYSIS REPORT

SMART TOOL PROJECT #:	10058872
MASER CONSULTING PROJECT #:	21777720A
ANALYSIS DATE:	7/2/2021

MASER CONSULTING CONNECTICUT
WILL BE KNOWN AS COLLIERS ENGINEERING & DESIGN IN 2021
Customer Loyalty *through* Client Satisfaction
www.maserconsulting.com
Office Locations:
- NEW JERSEY
- NEW YORK
- PENNSYLVANIA
- VIRGINIA
- FLORIDA
- NORTH CAROLINA
- SOUTH CAROLINA
- NEW MEXICO
- MARYLAND
- GEORGIA
- TEXAS
- TENNESSEE
- COLORADO

verizon

811 PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTHS SURFACE ANYWHERE IN ANY STATE
Know what's below. Call before you dig.
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE: AS SHOWN | JOB NUMBER: 21777720A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	7/8/2021	ISSUED FOR CONSTRUCTION	CDH	JL

STATE OF CONNECTICUT — LICENSED PROFESSIONAL ENGINEER

Justin Linette
CONNECTICUT LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: PEN.0031965 (31965)
MASER CONSULTING
C.T. C.O.A. #: PC.0000131

Digitally Signed by Justin Peter Linette
Date: 2021.07.08 15:02:11-04'00'

SITE NAME:

COLCHESTER SOUTH CT
469142
856 MIDDLETOWN ROAD
COLCHESTER,
CONNECTICUT 06415
NEW LONDON COUNTY

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

SHEET TITLE: TITLE SHEET

SHEET NUMBER: T-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

BILL OF MATERIALS

VZWSMART KITS

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

OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
3	PERFECT VISION	PV-XP-ST-U	CROSSOVER PLATE	OR EOR APPROVED EQUAL, CONTACT MASER CONSULTING FOR APPROVAL OF SUBSTITUTION.
3	-	-	96" LONG P2.5 STD PIPE	GALVANIZED.

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

VZWSMART KITS - APPROVED VENDORS

COMMSCOPE

CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM

METROSITE FABRICATORS, LLC

CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM

PERFECTVISION

CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSSALES@PERFECT-VISION.COM

SABRE INDUSTRIES, INC.

CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM

SITE PRO 1

CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

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

MASER CONSULTING CONNECTICUT
WILL BE KNOWN AS COLLIERS ENGINEERING & DESIGN IN 2021
Customer Loyalty *through* Client Satisfaction
www.maserconsulting.com
Office Locations:
- NEW JERSEY
- NEW YORK
- PENNSYLVANIA
- VIRGINIA
- FLORIDA
- NORTH CAROLINA
- SOUTH CAROLINA
- NEW MEXICO
- MARYLAND
- GEORGIA
- TEXAS
- TENNESSEE
- COLORADO

verizon

PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTHS SURFACE ANYWHERE IN ANY STATE
811 Know what's below. Call before you dig.
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE : AS SHOWN
JOB NUMBER : 21777720A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	7/8/2021	ISSUED FOR CONSTRUCTION	CDH	JL

STATE OF CONNECTICUT — JUSTIN PETER LINETTE — LICENSED PROFESSIONAL ENGINEER

Justin Linette
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: PEN.0031965 (31965)
MASER CONSULTING
CT. C.O.A. #: PC.0000131

Digitally signed by Justin Peter Linette
Date: 2021.07.08 15:02:22-04'00'

SITE NAME:

COLCHESTER SOUTH CT
469142

856 MIDDLETOWN ROAD
COLCHESTER,
CONNECTICUT 06415
NEW LONDON COUNTY

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

SHEET TITLE : BILL OF MATERIALS

SHEET NUMBER : S-1

GENERAL NOTES

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

DESIGN LOADS

WIND LOADS

a. BASIC WIND SPEED (3 SECOND GUST), V = 121 MPH

b. EXPOSURE CATEGORY B

c. TOPOGRAPHIC CATEGORY 1

d. MEAN BASE ELEVATION (AMSL) = 557.74'

ICE LOADS

a. ICE WIND SPEED (3 SECOND GUST), V = 50 MPH

b. ICE THICKNESS = 1.00 IN

SEISMIC LOADS

a. SEISMIC DESIGN CATEGORY B

b. SHORT TERM MCER GROUND MOTION, S_S = .210

c. LONG TERM MCER GROUND MOTION, S_1 = .056

STRUCTURAL STEEL

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

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

3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
   a. SUBMIT SHOP DRAWINGS TO PETER.ALBANO@COLLIERSENGINEERING.COM
   b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
9. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
10. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
11. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
12. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
13. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

MASER CONSULTING CONNECTICUT
WILL BE KNOWN AS COLLIERS ENGINEERING & DESIGN IN 2021
Customer Loyalty *through* Client Satisfaction
www.maserconsulting.com
Office Locations:
- NEW JERSEY
- NEW YORK
- PENNSYLVANIA
- VIRGINIA
- FLORIDA
- NORTH CAROLINA
- SOUTH CAROLINA
- NEW MEXICO
- MARYLAND
- GEORGIA
- TEXAS
- TENNESSEE
- COLORADO

verizon

PROTECT YOURSELF

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

811 Know what's below. Call before you dig.

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

SCALE : AS SHOWN

JOB NUMBER : 21777720A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
0	7/8/2021	ISSUED FOR CONSTRUCTION	CDH	JL

Justin Linette
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: PEN.0031965 (31965)
MASER CONSULTING
C.T. C.OA. #: JPC.0000131

Digitally signed by Justin Peter Linette
Date: 2021.07.08 15:02:22 -04'00'

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

SITE NAME:

COLCHESTER SOUTH CT
469142

856 MIDDLETOWN ROAD
COLCHESTER,
CONNECTICUT 06415
NEW LONDON COUNTY

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

SHEET TITLE : MODIFICATION NOTES

SHEET NUMBER : S-2

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

7000A\21777720A\Construction\Mount Fix\Rev 0\469142_COLCHESTER SOUTH CT_16272138_Mount Mod Drawing.dwg\S-2 By: CHOGE

MODIFICATION INSPECTION NOTES

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

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

THE MODIFICATION INSPECTION (MI) IS A VISUAL INSPECTION OF MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE MODIFICATION DRAWINGS, AS DESIGNED BY THE ENGINEER OF RECORD (EOR).

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

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

MI INSPECTOR

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

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS

THE MI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GC INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE MI REPORT TO EOR.

GENERAL CONTRACTOR

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

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE MI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE MI INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS

THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MI CHECKLIST.

RECOMMENDATIONS

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

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

CORRECTION OF FAILING MI'S

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

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

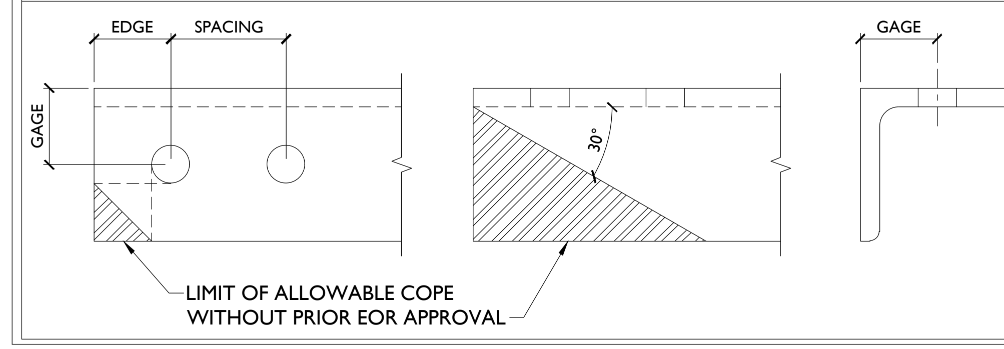
REQUIRED PHOTOS

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

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

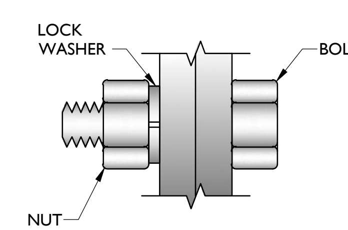
PHOTOS OF ELEVATED MODIFICATIONS TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.

ALLOWABLE COPING



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

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



TYP. BOLT ASSEMBLY

NOTES:

1. ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
2. THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.
3. SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS
4. MATCH EXISTING GAGES WHEN APPLICABLE, UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.

MASER CONSULTING CONNECTICUT
WILL BE KNOWN AS COLLIERS ENGINEERING & DESIGN IN 2021
Customer Loyalty *through* Client Satisfaction
www.maserconsulting.com
Office Locations:
NEW JERSEY, NEW YORK, PENNSYLVANIA, VIRGINIA, FLORIDA, NORTH CAROLINA, SOUTH CAROLINA, NEW MEXICO, MARYLAND, GEORGIA, TEXAS, TENNESSEE, COLORADO

verizon

PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE
811 Know what's below. Call before you dig.
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE: AS SHOWN	JOB NUMBER: 21777720A			
0	7/8/2021	ISSUED FOR CONSTRUCTION	CDH	JL
REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY

Justin Linette
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: PEN.0031965 (31965)
MASER CONSULTING
C.T. C.O.A. #: PEC.0001313
Digitally signed by Justin Peter Linette
Date: 2021.07.08 15:02:22-04'00'

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

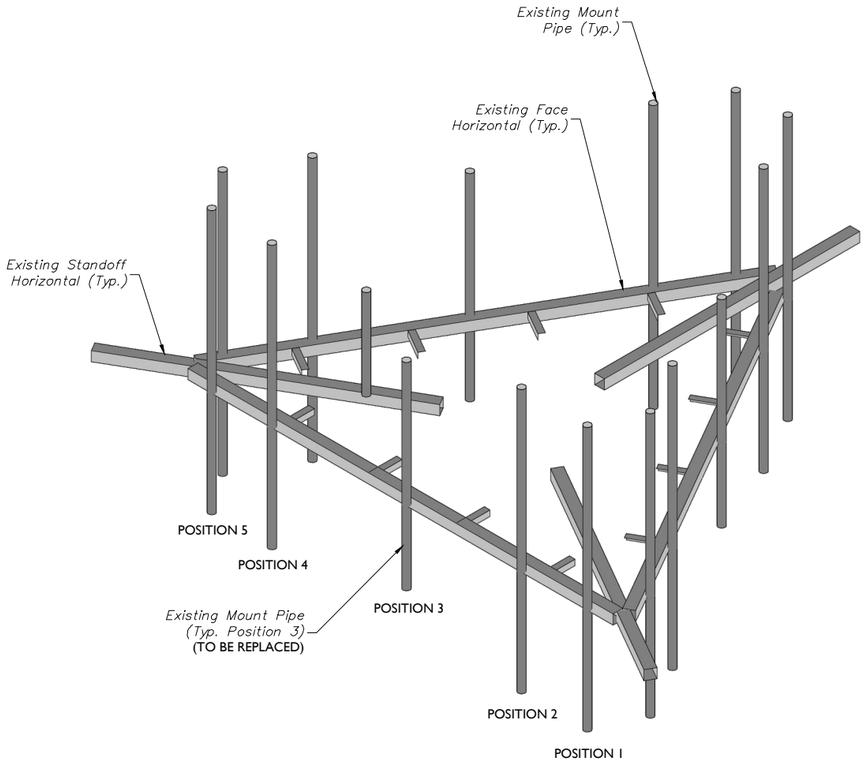
SITE NAME:
COLCHESTER SOUTH CT
469142
856 MIDDLETOWN ROAD
COLCHESTER, CONNECTICUT 06415
NEW LONDON COUNTY

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

SHEET TITLE: MODIFICATION NOTES

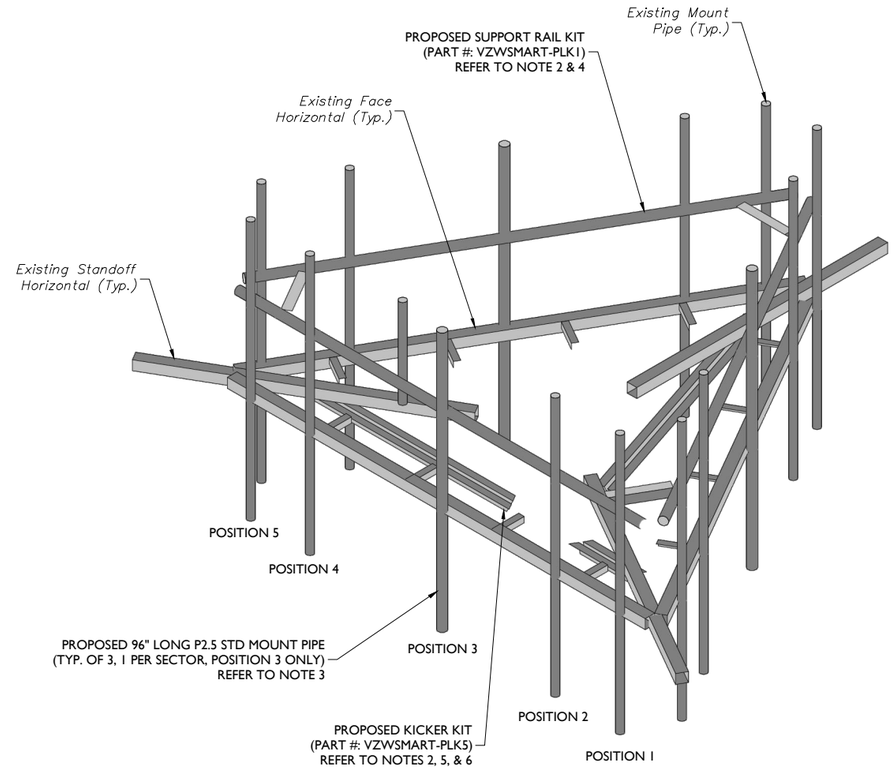
SHEET NUMBER: S-3

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



1 EXISTING PLATFORM ISOMETRIC VIEW

SCALE : N.T.S.



2 PROPOSED PLATFORM ISOMETRIC VIEW

SCALE : N.T.S.

STRUCTURAL NOTES:

1. PER THE MOUNT MAPPING COMPLETED BY ELITE ICT, LLC ON 4/21/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (180.0') ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
3. CONNECT NEW MOUNT PIPE TO EXISTING HORIZONTAL WITH CROSSOVER PLATE PERFECT VISION (PART #: PV-XP-ST-U OR EOR APPROVED EQUIVALENT). CONNECT TO PROPOSED SUPPORT RAIL WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).
4. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
5. CONNECT OTHER END OF KICKER KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7).
6. REMOVE THE EXISTING RRH RING MOUNT BELOW EXISTING PLATFORM.

MASER CONSULTING CONNECTICUT
WILL BE KNOWN AS COLLIERS ENGINEERING & DESIGN IN 2021
Customer Loyalty *through* Client Satisfaction
www.maserconsulting.com
Office Locations:
- NEW JERSEY
- NEW YORK
- PENNSYLVANIA
- VIRGINIA
- FLORIDA
- NORTH CAROLINA
- SOUTH CAROLINA
- NEW MEXICO
- MARYLAND
- GEORGIA
- TEXAS
- TENNESSEE
- COLORADO

verizon

811 Know what's below. Call before you dig.

PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE : AS SHOWN
JOB NUMBER : 21777720A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	7/8/2021	ISSUED FOR CONSTRUCTION	CDH	JL

STATE OF CONNECTICUT · JUSTIN PETER LINETTE · LICENSED PROFESSIONAL ENGINEER

Justin Linette
CONNECTICUT LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: PEN.0031965 (31965)
MASER CONSULTING
C.T. C.O.A. #: PC.0000131

Digitally Signed by Justin Peter Linette
Date: 2021.07.08 15:02:28-04'00'

SITE NAME:

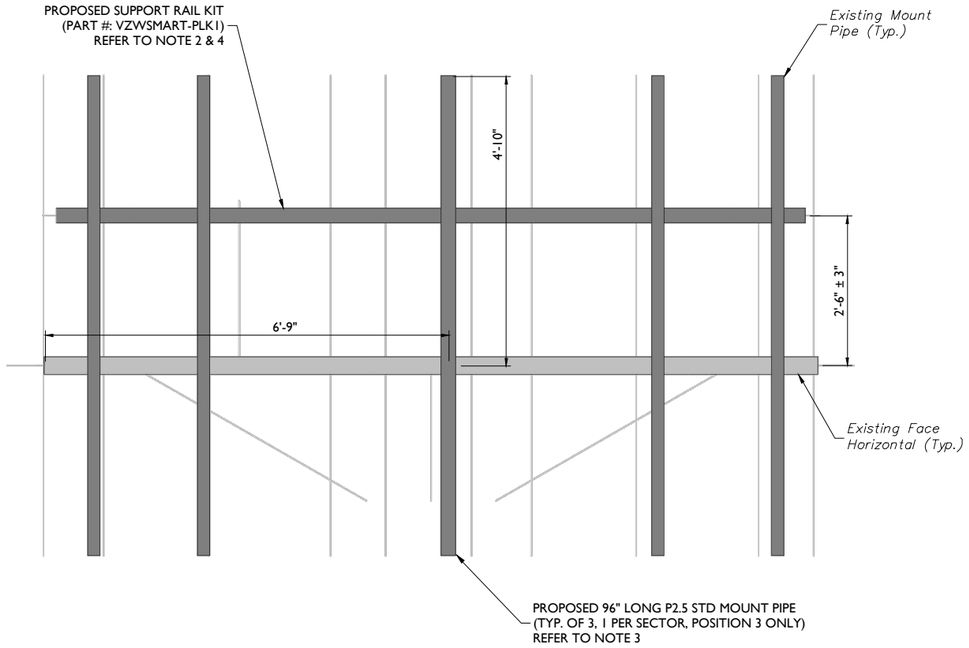
COLCHESTER SOUTH CT
469142

856 MIDDLETOWN ROAD
COLCHESTER,
CONNECTICUT 06415
NEW LONDON COUNTY

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

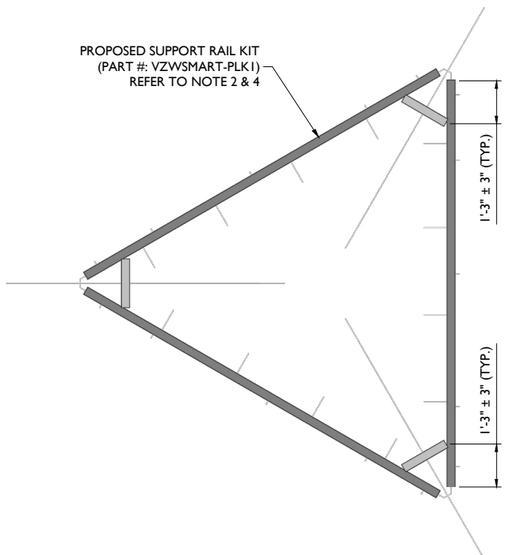
SHEET TITLE :
MODIFICATION DETAILS

SHEET NUMBER :
S-4



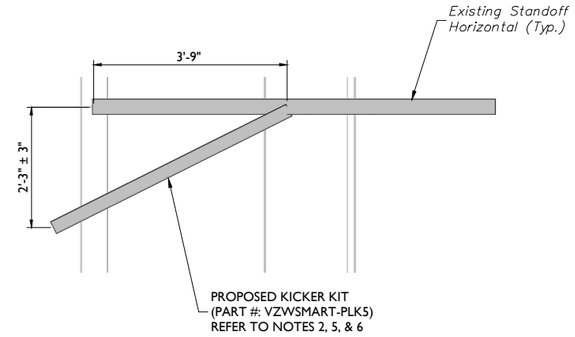
1 PROPOSED FRONT ELEVATION (TYP. ALL SECTORS)

SCALE : N.T.S.



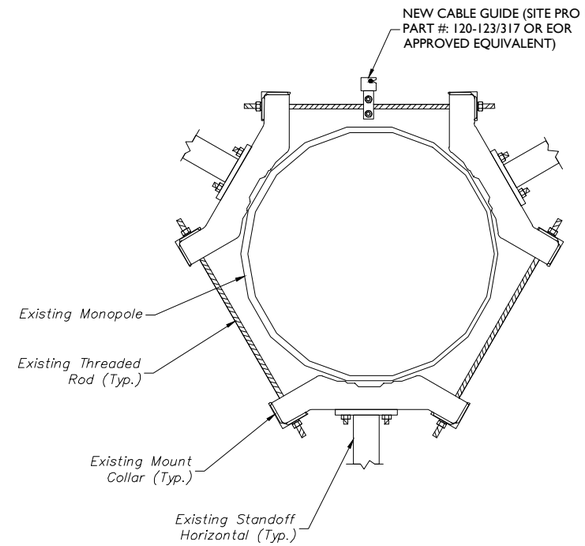
2 PROPOSED PLAN VIEW

SCALE : N.T.S.



3 PROPOSED SIDE ELEVATION (TYP. ALL SECTORS)

SCALE : N.T.S.



4 PROPOSED CABLE GUIDE

SCALE : N.T.S.

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
3. CONNECT NEW MOUNT PIPE TO EXISTING HORIZONTAL WITH CROSSOVER PLATE PERFECT VISION (PART #: PV-XP-ST-U OR EOR APPROVED EQUIVALENT). CONNECT TO PROPOSED SUPPORT RAIL WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).
4. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
5. CONNECT OTHER END OF KICKER KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7).
6. REMOVE THE EXISTING RRH RING MOUNT BELOW EXISTING PLATFORM.

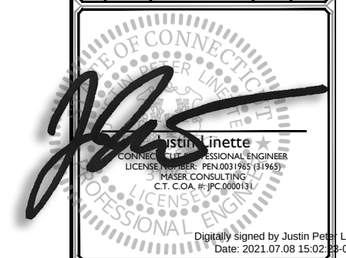
MASER CONSULTING CONNECTICUT
WILL BE KNOWN AS COLLIERS ENGINEERING & DESIGN IN 2021
Customer Loyalty *through* Client Satisfaction
www.maserconsulting.com
Office Locations:
- NEW JERSEY
- NEW YORK
- PENNSYLVANIA
- VIRGINIA
- FLORIDA
- NORTH CAROLINA
- SOUTH CAROLINA
- NEW MEXICO
- MARYLAND
- GEORGIA
- TEXAS
- TENNESSEE
- COLORADO

verizon

811 PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE
Know what's below. Call before you dig.
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE :	JOB NUMBER :
AS SHOWN	21777720A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	7/8/2021	ISSUED FOR CONSTRUCTION	CDH	JL



Justin Linette
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: PEN.0031965 (31965)
MASER CONSULTING
CT. C.O.A. #: PC.0000131

Digitally signed by Justin Peter Linette
Date: 2021.07.08 15:02:23-04'00'

SITE NAME:

COLCHESTER SOUTH CT
469142

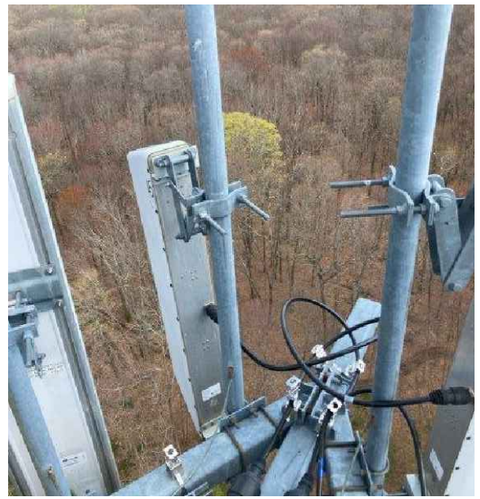
856 MIDDLETOWN ROAD
COLCHESTER,
CONNECTICUT 06415
NEW LONDON COUNTY

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

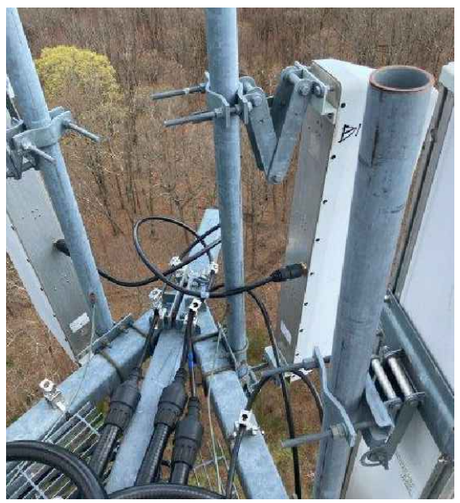
SHEET TITLE :
MODIFICATION DETAILS

SHEET NUMBER :
S-5

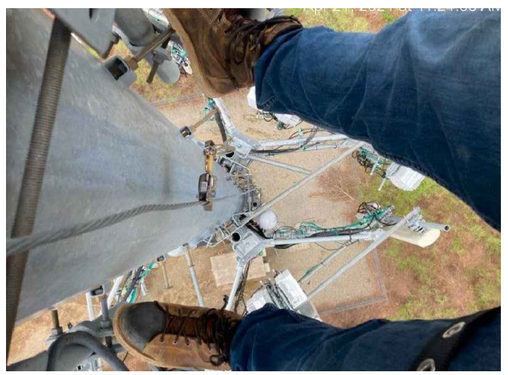
MOUNT PHOTO 1



MOUNT PHOTO 2



MOUNT PHOTO 3



MOUNT PHOTO 4

MASER CONSULTING CONNECTICUT
WILL BE KNOWN AS COLLIERS ENGINEERING & DESIGN IN 2021
Customer Loyalty *through* Client Satisfaction
www.maserconsulting.com
Office Locations:
- NEW JERSEY
- NEW YORK
- PENNSYLVANIA
- VIRGINIA
- FLORIDA
- NORTH CAROLINA
- SOUTH CAROLINA
- NEW MEXICO
- MARYLAND
- GEORGIA
- TEXAS
- TENNESSEE
- COLORADO

verizon

811 Know what's below. Call before you dig.

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

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

SCALE :	JOB NUMBER :
AS SHOWN	21777720A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	7/8/2021	ISSUED FOR CONSTRUCTION	CDH	JL

Justin Linette
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: PEN.0031965 (31965)
MASER CONSULTING
CT. C.O.A. #: PC.0000131

Digitally signed by Justin Peter Linette
Date: 2021.07.08 15:02:23-04'00'

SITE NAME:

COLCHESTER SOUTH CT
469142

856 MIDDLETOWN ROAD
COLCHESTER,
CONNECTICUT 06415
NEW LONDON COUNTY

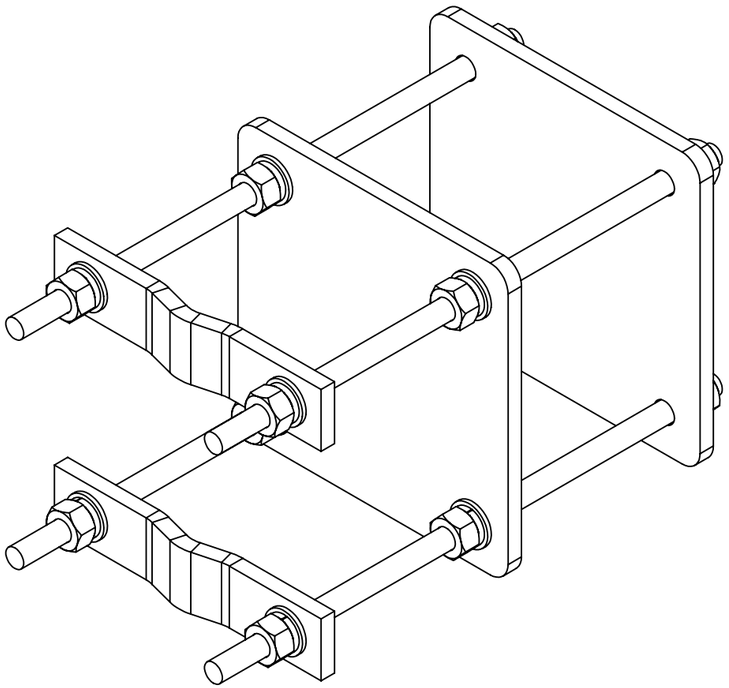
MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054

Phone: 856.797.0412
Fax: 856.722.1120

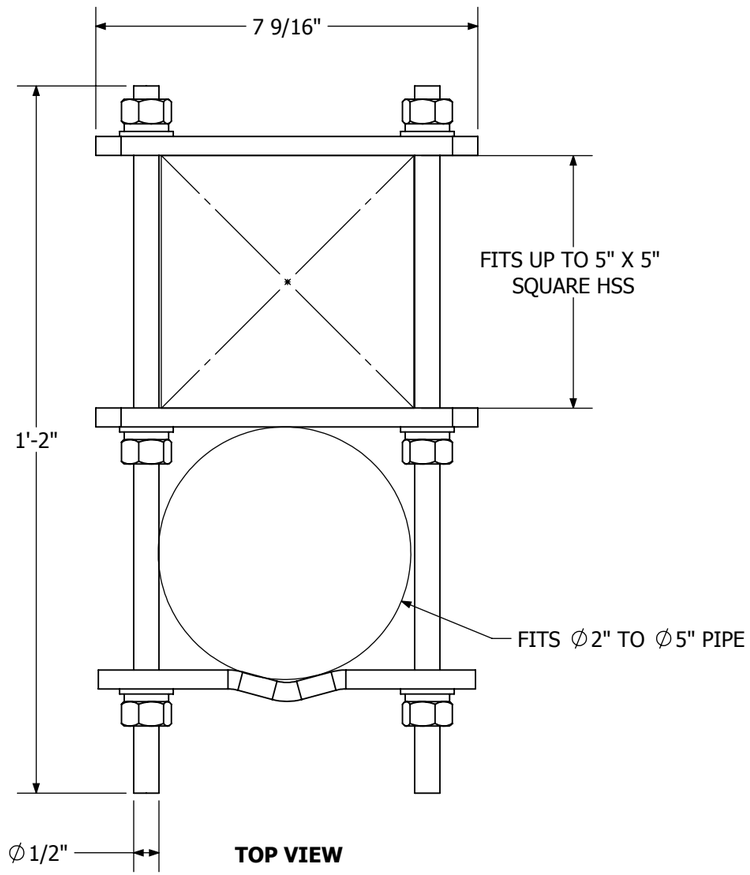
SHEET TITLE :
MOUNT PHOTOS

SHEET NUMBER :
S-6

PV-XP-ST-U



PX-XP-ST-U
SQUARE TUBE TO ROUND PIPE CROSSOVER
WEIGHT: 18.2 LBS



TOP VIEW

PERFECT VISION MANUFACTURING
16101 La Grande Dr.
Little Rock, AR 72223
(630)-201-4012

STAMP:

REVISIONS:

NO.	DATE	DESCRIPTION	BY	CHK	APD
0	10/23/15	INITIAL RELEASE	DJN	AM	SS
1					
2					
3					
4					
5					

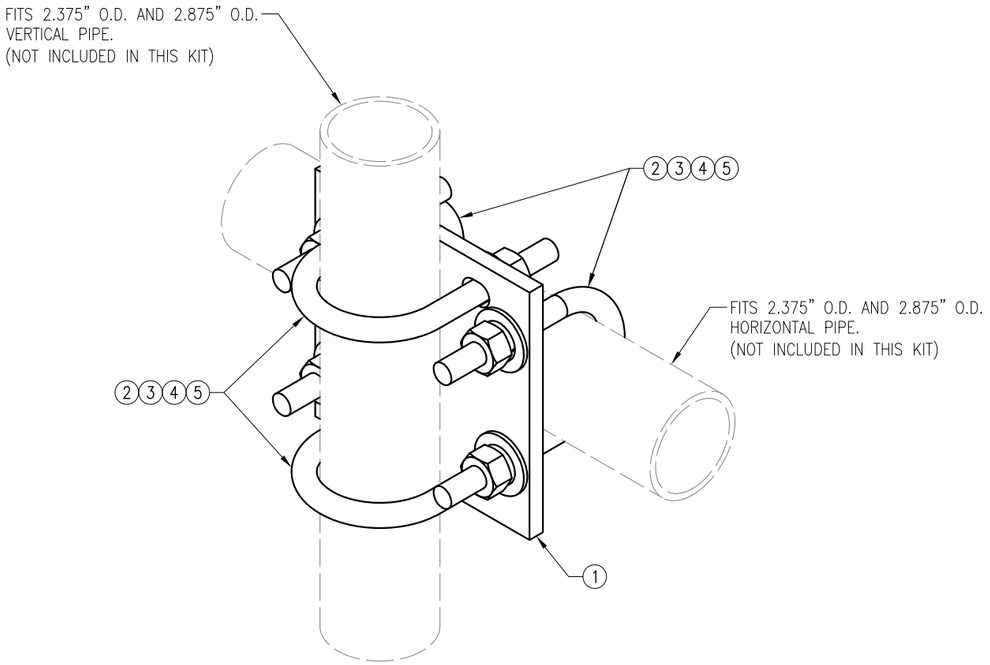
SITE INFORMATION:

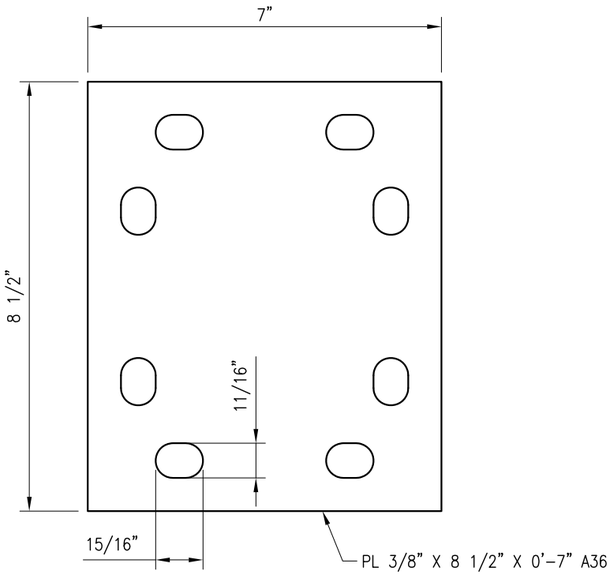
DESIGN TYPE:
HSS TO PIPE CROSSOVER

SHEET TITLE:
ENGINEERING DETAIL

SHEET TITLE: E-1

REVISION: 0





PL375-857

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

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

VzW SMART Tool© Vendor

verizon

DRAWN BY: H.R | CHECKED BY: HMA

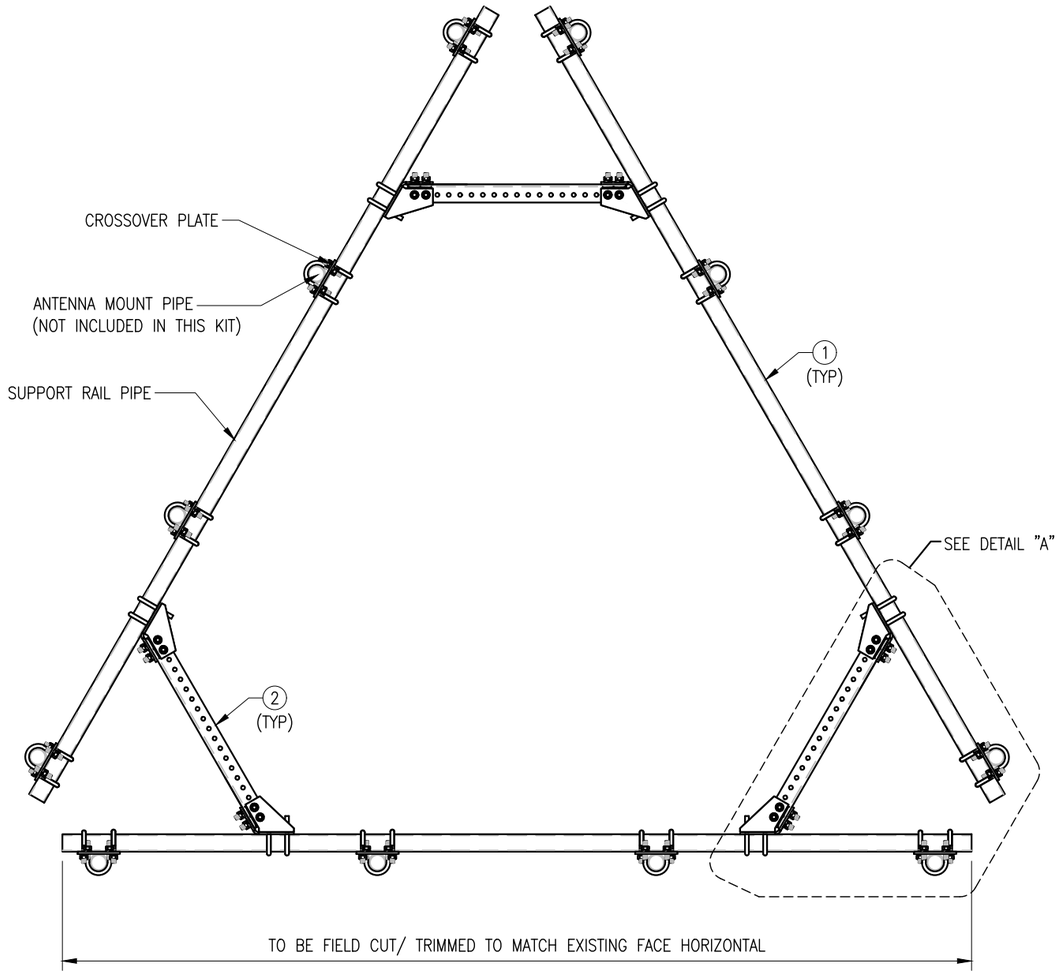
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	H.R	05/08/20

SHEET TITLE:

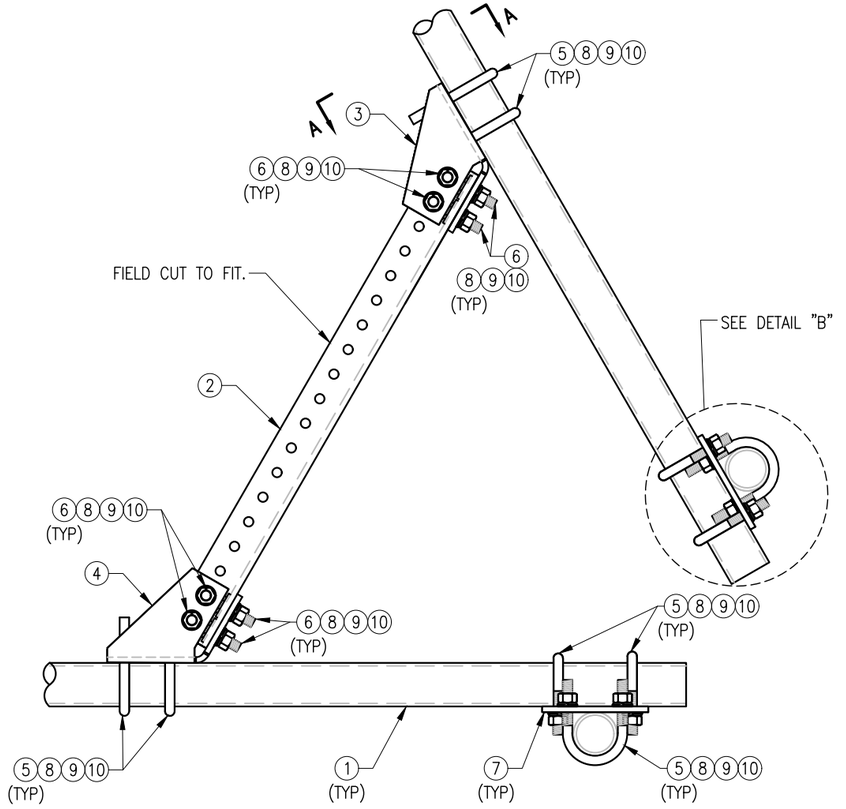
VZWSMART-MSK1
CROSSOVER PLATE

SHEET NUMBER: VZWSMART-MSK1

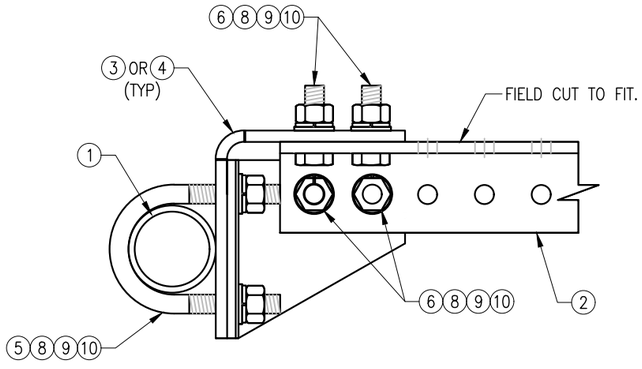
REV #: 0



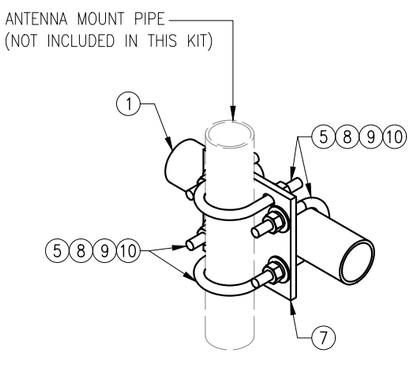
PLAN VIEW



DETAIL "A"



SECTION "A–A"



DETAIL "B"

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

VZW SMART–PLK1 (SUPPORT RAIL KIT)

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

VzW SMART Tool© Vendor

verizon

DRAWN BY: H.R | CHECKED BY: HMA

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

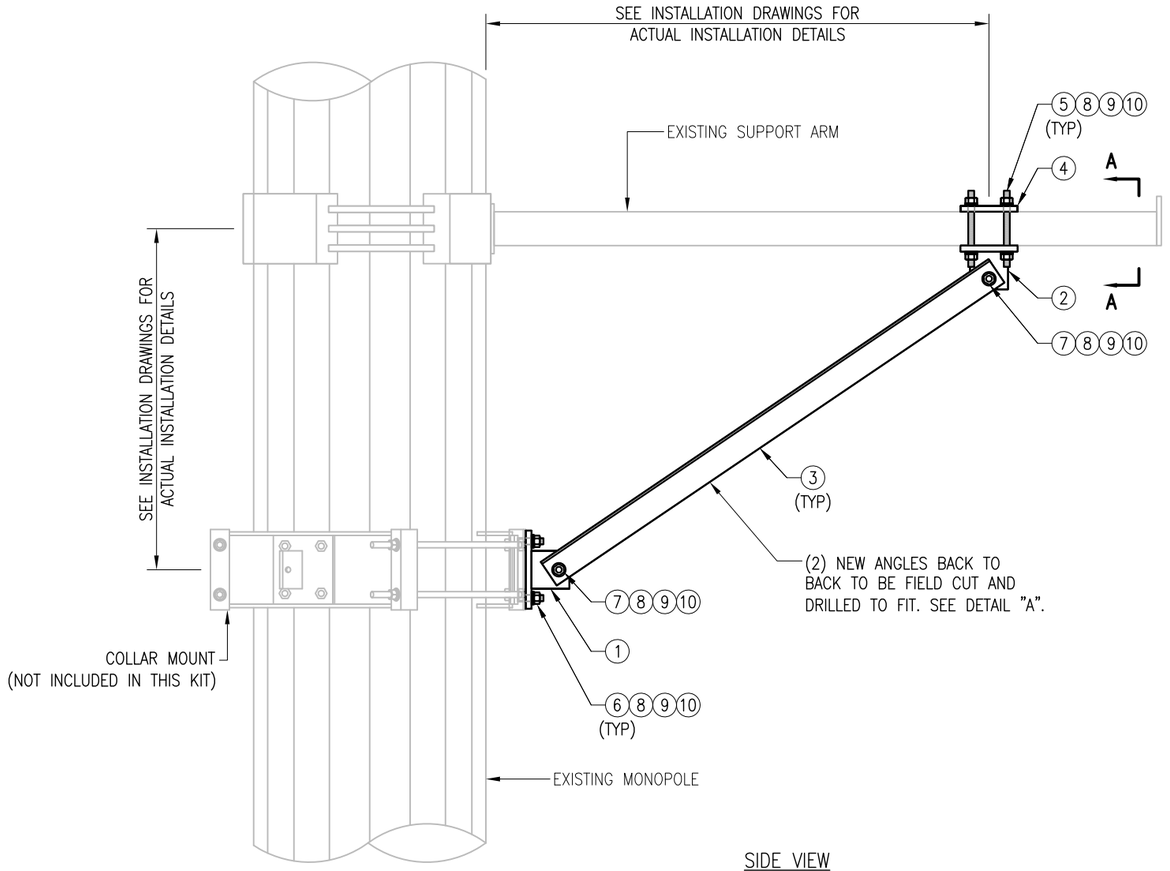
SHEET TITLE:

VZWSMART–PLK1
SUPPORT RAIL KIT

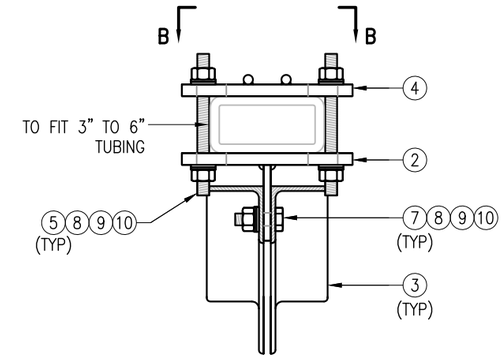
SHEET NUMBER: VZWSMART–PLK1

REV #: 0

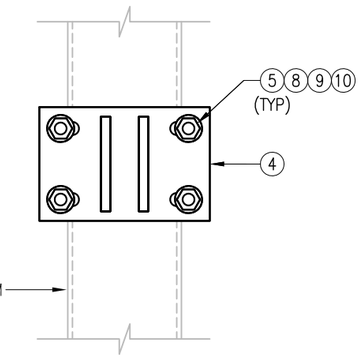
NOTE:
THE LOCATION OF KICKER AND EXISTING ANTENNA MOUNT SHOWN ON THE DRAWING IS FOR REPRESENTATION PURPOSE ONLY. SEE INSTALLATION DRAWINGS FOR ACTUAL INSTALLATION OF DETAILS.



SIDE VIEW
KICKER KIT

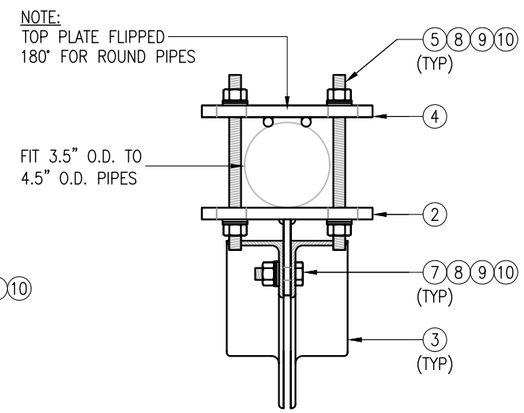


SECTION "A–A"
RECT. HSS MOUNTING

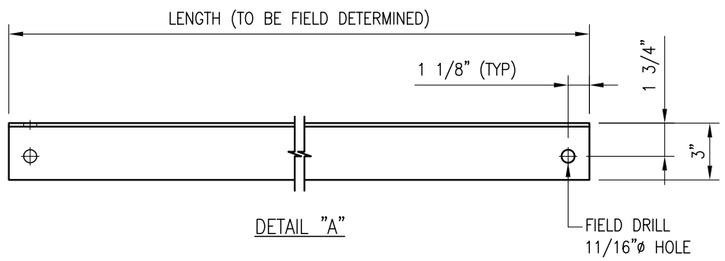


SECTION "B–B"

NOTE:
TOP PLATE FLIPPED 180° FOR ROUND PIPES



SECTION "A–A"
ROUND PIPE MOUNTING



DETAIL "A"

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

VZWSMART–PLK5 (KICKER KIT)

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

VzW
SMART Tool©
Vendor

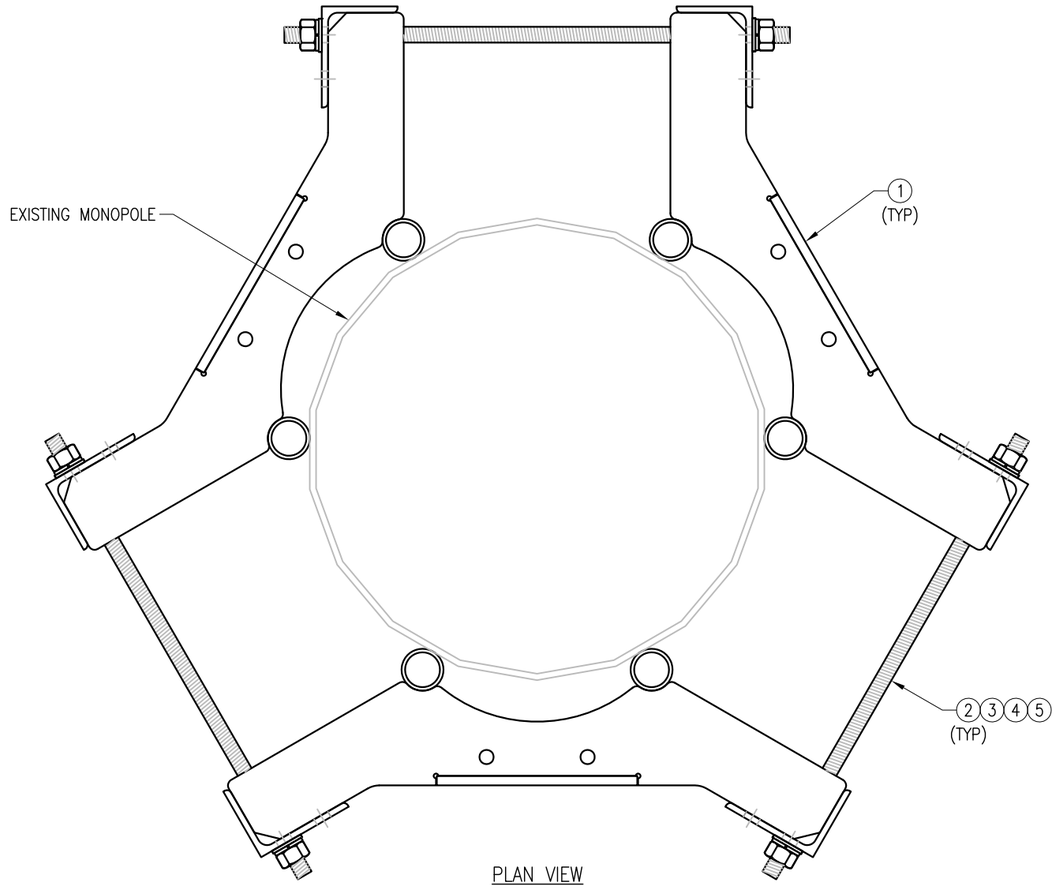
verizon

DRAWN BY: MN | CHECKED BY: HMA/KW

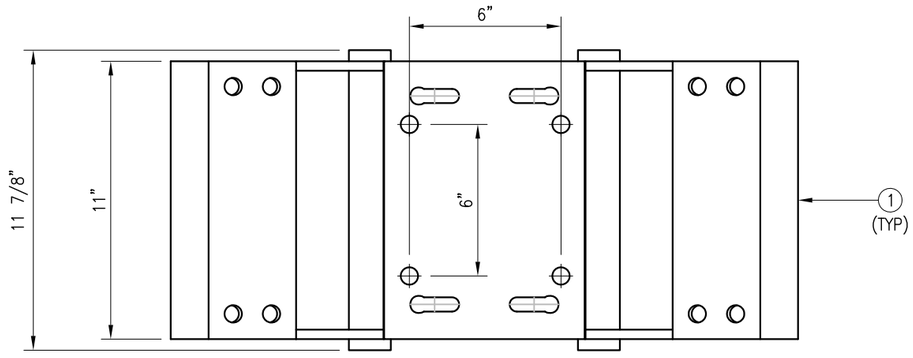
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	MN	05/08/20

SHEET TITLE:
VZWSMART–PLK5
KICKER KIT

SHEET NUMBER: VZWSMART–PLK5
REV #: 0



PLAN VIEW
MONOPOLE COLLAR MOUNT ASSEMBLY



FRONT VIEW

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

VZWSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)

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

VzW SMART Tool© Vendor

verizon

DRAWN BY: BT | CHECKED BY: HMA/KW

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

SHEET TITLE:
VZWSMART-PLK7
MONOPOLE COLLAR
MOUNT ASSEMBLY

SHEET NUMBER: VZWSMART-PLK7

REV #: 0

Site Name: ***COLCHESTER SOUTH 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	609	2437	180	0.0027	0.5007	0.54%
VZW CDMA	877.26	2	296	592	180	0.0007	0.5848	0.11%
VZW Cellular	874	4	623	2494	180	0.0028	0.5827	0.48%
VZW PCS	1975	4	1428	5713	180	0.0063	1.0000	0.63%
VZW AWS	2120	4	1530	6122	180	0.0068	1.0000	0.68%
VZW CBAND	3730.08	4	6531	26125	180	0.0290	1.0000	2.90%
Total Percentage of Maximum Permissible Exposure								5.34%

*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

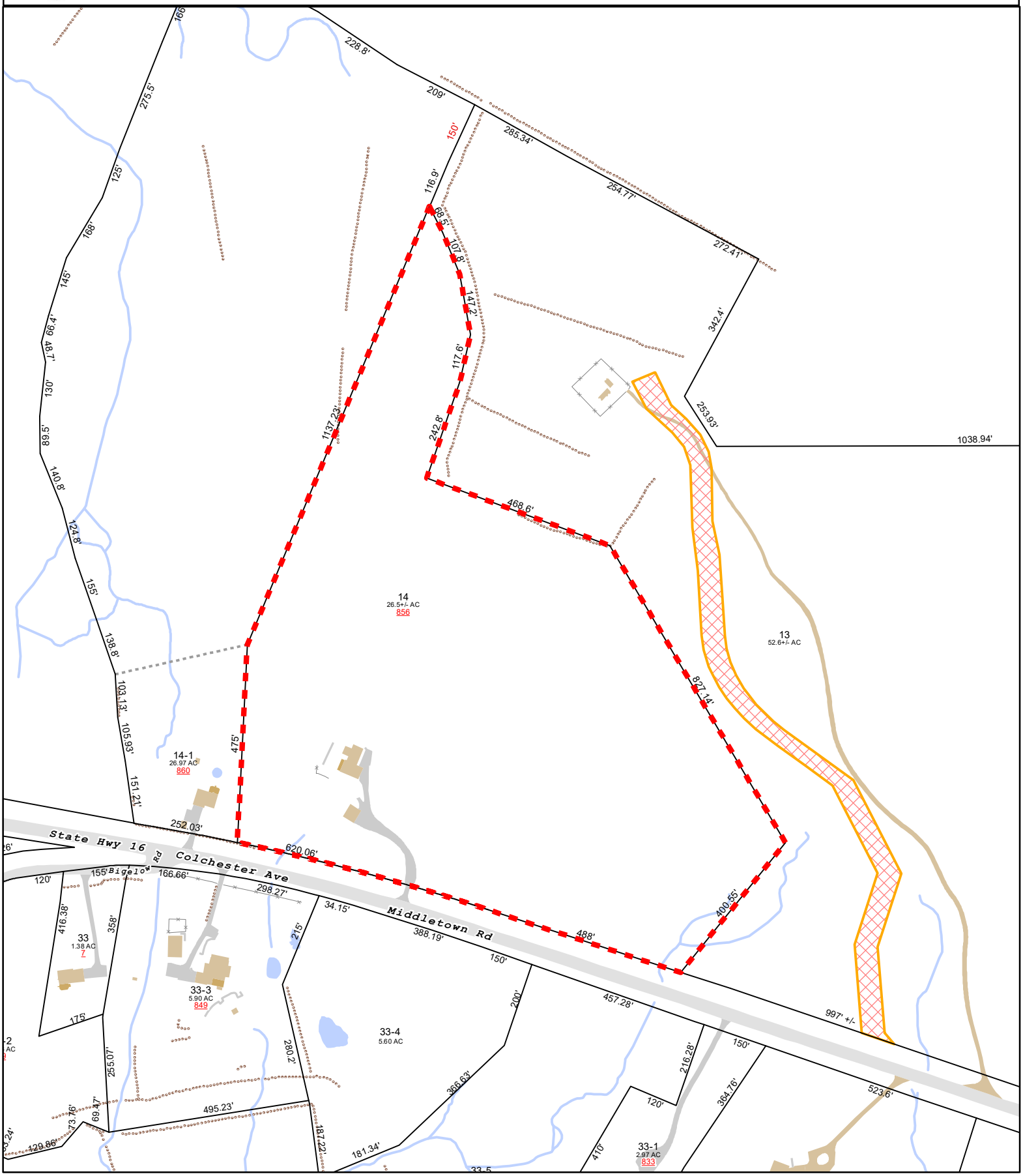
MHz = Megahertz
mW/cm^2 = milliwatts per square centimeter
ERP = Effective Radiated Power

Absolute worst case maximum values used.

Town of Colchester, Connecticut - Assessment Parcel Map

Parcel: 4W-13-014-000

Address: 856 MIDDLETOWN RD



Approximate Scale: 1 inch = 300 feet

0 150 300 450 600 Feet

Map Produced: April 2021 / Grand List: 2020

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

Town of Colchester, CT

Property Report

Map Block Lot **4W-13/014-000** | PID **2914** | Building # **1** | Section # **1** | Account **L0208000**

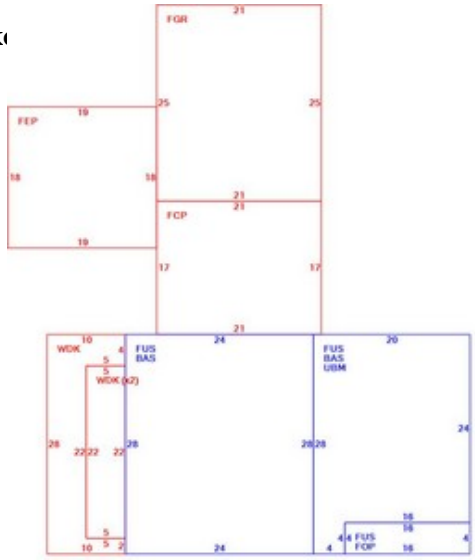
Property Information

Property Location	856 MIDDLETOWN RD
Owner	HANNAH SARAH + SEAN
Co-Owner	na
Mailing Address	856 MIDDLETOWN RD COLCHESTER CT 06415
Land Use	1010 Single Fam
Land Class	R
Zoning Code	R60
Census Tract	

Neighborhood	
Acreage	26.5
Utilities	UNKNOWN
Lot Setting/Desc	UNKNOWN UNKNOWN
Additional Info	

Photo

Sk



Primary Construction Details

Year Built	1977
Stories	2
Building Style	Colonial
Building Use	Residential
Building Condition	
Interior Floors 1	Carpet
Interior Floors 2	NA
Total Rooms	6
Basement Garages	
Occupancy	1.00
Building Grade	

Bedrooms	4 Bedrooms
Full Bathrooms	2
Half Bathrooms	0
Extra Fixtures	0
Bath Style	
Kitchen Style	
Roof Style	Gable
Roof Cover	Asphalt
AC Type	Central
Fireplaces	0

Exterior Walls	Vinyl Siding
Exterior Walls 2	NA
Interior Walls	Drywall
Interior Walls 2	NA
Heating Type	Hot Water
Heating Fuel	Oil
Sq. Ft. Basement	
Fin BSMT Quality	
Extra Kitchens	01

Report Created On **8/31/2021**

Town of Colchester, CT

Property Report | Map Block Lot **4W-13/014-000** | PID **2914** | Building # **1** | Section # **1** | Account **L0208000**

Valuation Summary

(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	195600	136900
Extras	2400	1700
Improvements		
Outbuildings	10900	7600
Land	95100	46120
Total	304000	192320

Outbuilding and Extra Features

Type	Description
Garage	840 S.F.
Fpl 2ST Chim	1 UNITS

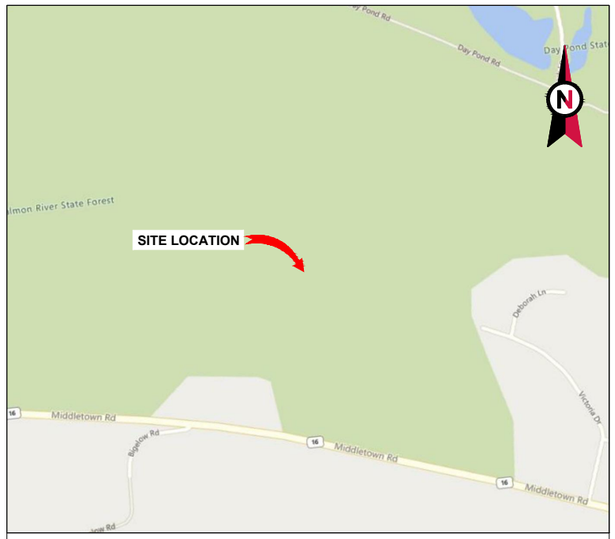
Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
First Floor	1168	1168
Carport	357	0
Enclosed Porch	342	0
Garage	525	0
Open Porch	64	0
Upper Story, Finished	1232	1232
Basement, Unfinished	496	0
Wood Deck	390	0
Total Area		2400

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
HANNAH SARAH + SEAN	1391/0208	12/24/2019	318000
MILAZZO MICHAEL P JR + LYNNE	1262/0063	8/10/2015	322500
LEONE LORRAINE M	0319/0154	1/19/1993	0
LEONE LOUIS J + LORRAINE M	0098/0353	10/13/1970	0

Report Created On **8/31/2021**



VICINITY MAP

AMERICAN TOWER®

ATC SITE NAME: COLCHESTER SOUTH CT
ATC SITE NUMBER: 411179
VERIZON SITE NAME: COLCHESTER SOUTH CT
VERIZON SITE NUMBER:469142
SITE ADDRESS: 856 MIDDLETOWN ROAD
COLCHESTER, CT 06415

LOCATION MAP

VERIZON
ANTENNA AMENDMENT DRAWINGS

COMPLIANCE CODE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. 2018 CONNECTICUT STATE BUILDING CODE, INCORPORATING THE 2015 IBC
2. 2017 NATIONAL ELECTRIC CODE - NFPA 70
3. LOCAL BUILDING CODE
4. CITY/COUNTY ORDINANCES

UTILITY COMPANIES

POWER COMPANY: NORTHEAST UTILITIES
PHONE: (860) 358-3200

TELEPHONE COMPANY: WESTELL
PHONE: (630) 898-2500

811 Know what's below. Call before you dig.

&2175$&725 30, 5(48,5(0(176

PMI LOCATION:	HTTPS://PMI.VZWSMART.COM
SMART TOOL VENDOR PROJECT #:	10084894
VZW LOCATION CODE (PSLC):	469142
ANALYSIS DATE:	JULY 08, 2021

*** PMI AND REQUIREMENTS ARE EMBEDDED IN MOUNT ANALYSIS REPORT

IF MOUNT MODIFICATION IS REQUIRED ONLY USE VZW APPROVED SMART KIT VENDORS

REFER TO MOUNT MODIFICATION DRAWINGS PAGE FOR VZW SMART KIT APPROVED VENDORS

PROJECT SUMMARY

SITE ADDRESS:

856 MIDDLETOWN ROAD

COLCHESTER, CT 06415

COUNTY: NEW LONDON

GEOGRAPHIC COORDINATES:

LATITUDE: 41.551611

LONGITUDE: -72.425833

GROUND ELEVATION: 557' AMSL

PROJECT TEAM

TOWER OWNER:

AMERICAN TOWER
10 PRESIDENTIAL WAY
WOBURN, MA 01801

APPLICANT:

VERIZON WIRELESS

ENGINEER:

COLLIERS ENGINEERING & DESIGN, CT, P.C. D/B/A
135 NEW ROAD
MADISON, CT 06443

PROJECT #:
21904163A

PROPERTY OWNER:

LORRAINE M LEONETTE
856 MIDDLETOWN ROAD
COLCHESTER, CT 06415

PROJECT DESCRIPTION

THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:

REMOVE (9) ANTENNA(s), (3) RRH(s), (2) OVP(s) AND (2) HYBRID CABLE(s)

INSTALL (9) ANTENNA(s), (6) RRH(s), (1) OVP(s) AND (2) HYBRID CABLE(s)

EXISTING (6) ANTENNA(s) AND (18) COAX CABLE(s) TO REMAIN

PROJECT NOTES

1. THE FACILITY IS UNMANNED.
2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.
3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.
4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.
5. HANDICAP ACCESS IS NOT REQUIRED.
6. 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).

PROJECT LOCATION DIRECTIONS

FROM EAST HARTFORD TAKE ROUTE 2 EAST TO EXIT 16 RTE. 149 WESTCHESTER/ MOODUS. RIGHT OFF RAMP ONTO RTE. 149 SOUTH. APPROX. 3.3 MILES TAKE RIGHT AT TRAFFIC LIGHT ONTO RTE. 16 WEST. APPROX. .5 MILES LOOK FOR TUBULAR GATE ON RIGHT MARKED 812. FOLLOW DIRT ROAD BACK TO SITE.

SHEET INDEX

SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
G-001	TITLE SHEET	0	08/10/21	MLH
G-002	GENERAL NOTES	0	08/10/21	MLH
C-101	DETAILED SITE PLAN	0	08/10/21	MLH
C-201	TOWER ELEVATION	0	08/10/21	MLH
C-401	ANTENNA INFORMATION & SCHEDULE	0	08/10/21	MLH
C-501	CONSTRUCTION DETAILS	0	08/10/21	MLH
E-501	GROUNDING DETAILS	0	08/10/21	MLH
R-601	SUPPLEMENTAL			
R-602	SUPPLEMENTAL			
R-603	SUPPLEMENTAL			
R-604	SUPPLEMENTAL			
R-605	SUPPLEMENTAL			

AMERICAN TOWER®

Colliers Engineering & Design
www.colliersengineering.com
Doing Business as MASER CONSULTING
MADISON
135 New Road
Madison, CT 06443
Phone: 860.395.0055
COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

REV.	DESCRIPTION	BY	DATE
A	PRELIM	MLH	07/23/21
0	FOR CONSTRUCTION	AMN	08/10/21

ATC SITE NUMBER:
411179

ATC SITE NAME:
COLCHESTER SOUTH CT

VERIZON SITE NAME:
COLCHESTER SOUTH CT

SITE ADDRESS:
856 MIDDLETOWN ROAD
COLCHESTER, CT 06415

SEAL:

Alec S. Norris
CONNECTICUT LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 32588
COLLIERS ENGINEERING & DESIGN CT, P.C.
C.T. JPC.0000131

verizon

DATE DRAWN:	07/23/21
ATC JOB NO:	13701327_D1
CUSTOMER ID:	COLCHESTER SOUTH CT
CUSTOMER #:	469142

TITLE SHEET

SHEET NUMBER:	REVISION:
G-001	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 NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT 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 OD COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND
   - B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND VERIZON SPECIFICATIONS.
   - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
   - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
   - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
   - F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
   - G. ANTENNA AND COAXIAL CABLE GROUNDING:
2. ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

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

AMERICAN TOWER®

Colliers Engineering & Design

www.colliersengineering.com

Doing Business as MASER CONSULTING

MADISON
135 New Road

Madison, CT 06443
Phone: 860.395.0055

COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

REV.	DESCRIPTION	BY	DATE
A	PRELIM	MLH	07/23/21
0	FOR CONSTRUCTION	AMN	08/10/21

ATC SITE NUMBER:
411179

ATC SITE NAME:
COLCHESTER SOUTH CT

VERIZON SITE NAME:
COLCHESTER SOUTH CT

SITE ADDRESS:
856 MIDDLETOWN ROAD
COLCHESTER, CT 06415

SEAL:

Alec S. Norris
CONNECTICUT LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 32588
COLLIERS ENGINEERING & DESIGN CT, P.C.
C.T. JPC.0000131

verizon

DATE DRAWN:	07/23/21
ATC JOB NO:	13701327_D1
CUSTOMER ID:	COLCHESTER SOUTH CT
CUSTOMER #:	469142

GENERAL NOTES

SHEET NUMBER:	REVISION:
G-002	0

SITE PLAN NOTES:

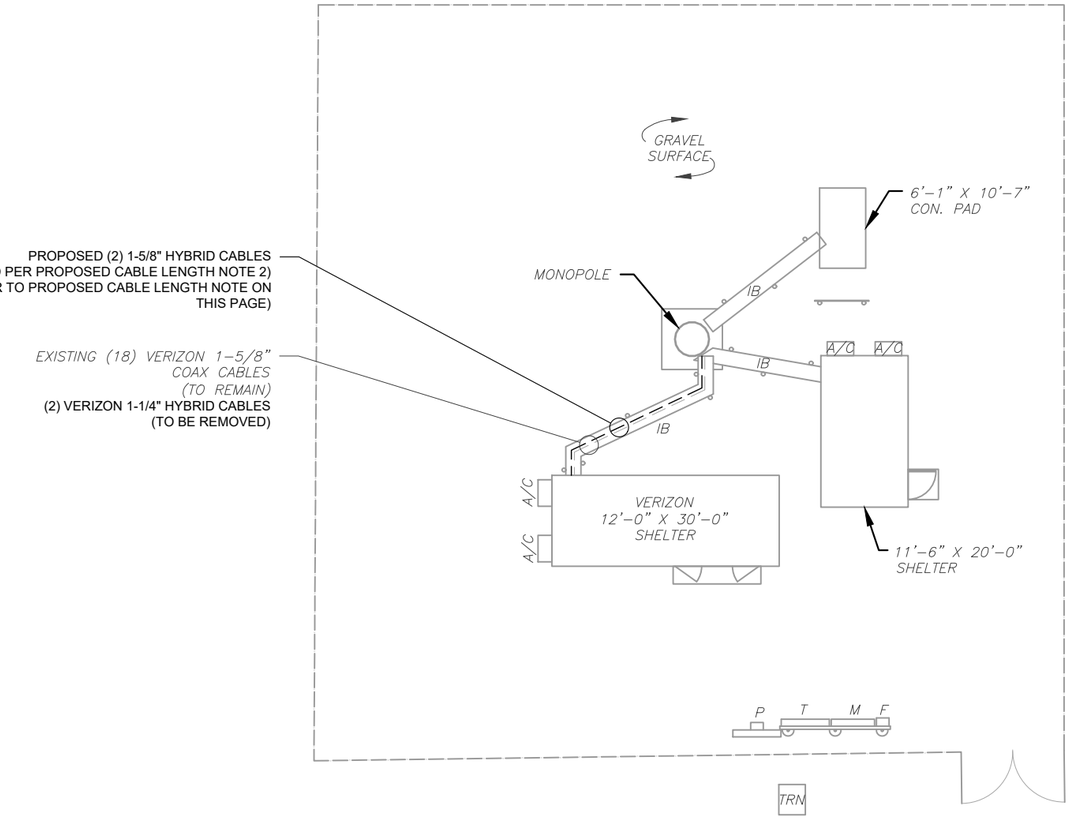
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.

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

GRAPHIC SCALE

20 0 10 20

(IN FEET)

1 UNIT = 20 FEET

PROPOSED CABLE LENGTH:

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **222'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.

AMERICAN TOWER®

Colliers Engineering & Design

www.colliersengineering.com

Doing Business as MASER CONSULTING

MADISON
135 New Road

Madison, CT 06443
Phone: 860.395.0055

COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

REV.	DESCRIPTION	BY	DATE
A	PRELIM	MLH	07/23/21
0	FOR CONSTRUCTION	AMN	08/10/21

ATC SITE NUMBER:
411179

ATC SITE NAME:
COLCHESTER SOUTH CT

VERIZON SITE NAME:
COLCHESTER SOUTH CT

SITE ADDRESS:
856 MIDDLETOWN ROAD
COLCHESTER, CT 06415

SEAL:

Alec S. Norris
CONNECTICUT LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 32588
COLLIERS ENGINEERING & DESIGN CT, P.C.
C.T. JPC.0000131

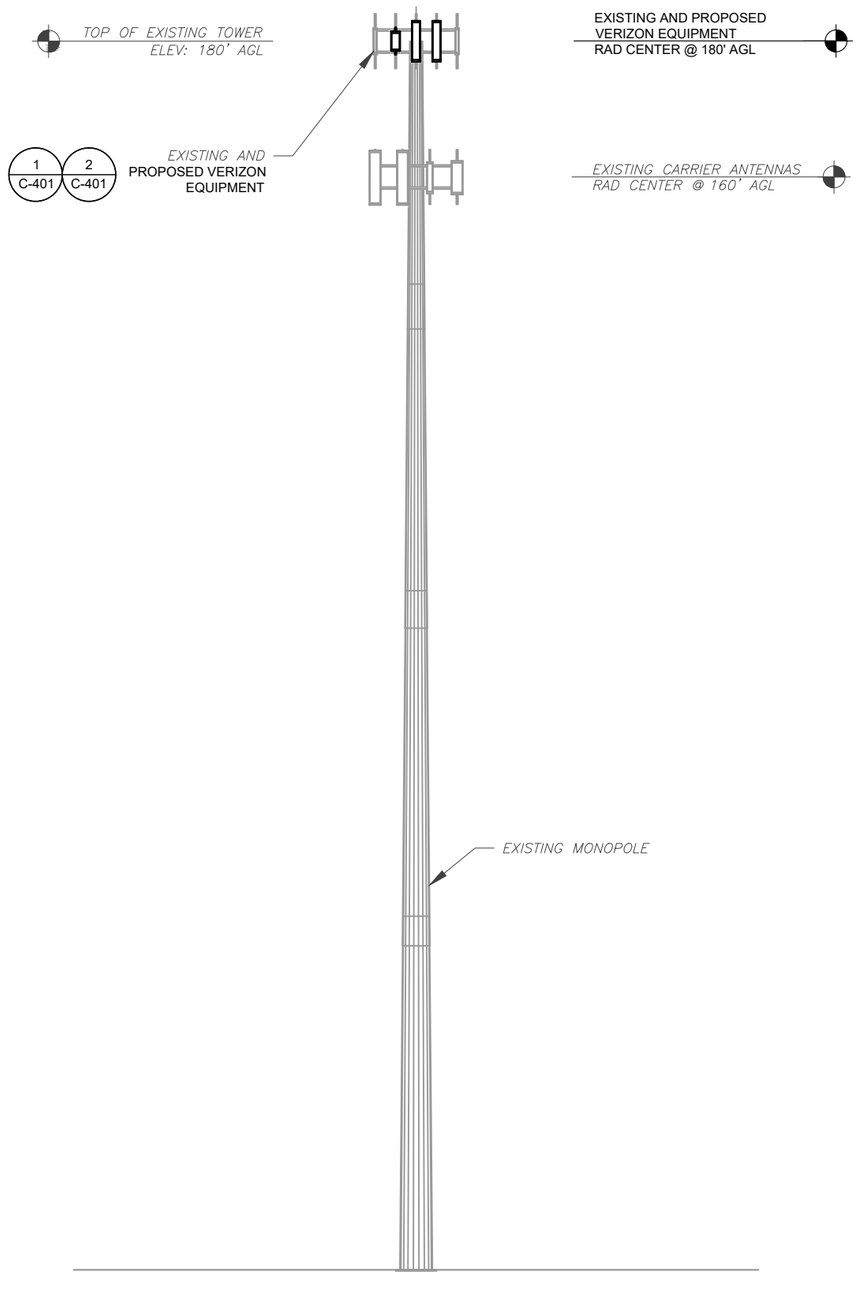
verizon

DATE DRAWN:	07/23/21
ATC JOB NO:	13701327_D1
CUSTOMER ID:	COLCHESTER SOUTH CT
CUSTOMER #:	469142

DETAILED SITE PLAN

SHEET NUMBER: C-101

REVISION: 0



1 TOWER ELEVATION
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING CONNECTICUT, DATED 07/08/21, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION DETAILED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

TOWER NOTE:

1. 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.
2. 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.
3. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)
4. TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.

AMERICAN TOWER®

Colliers Engineering & Design
www.colliersengineering.com
Doing Business as MASER CONSULTING
MADISON
135 New Road
Madison, CT 06443
Phone: 860.395.0055
COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

REV.	DESCRIPTION	BY	DATE
A	PRELIM	MLH	07/23/21
0	FOR CONSTRUCTION	AMN	08/10/21

ATC SITE NUMBER:
411179

ATC SITE NAME:
COLCHESTER SOUTH CT

VERIZON SITE NAME:
COLCHESTER SOUTH CT

SITE ADDRESS:
856 MIDDLETOWN ROAD
COLCHESTER, CT 06415

SEAL:

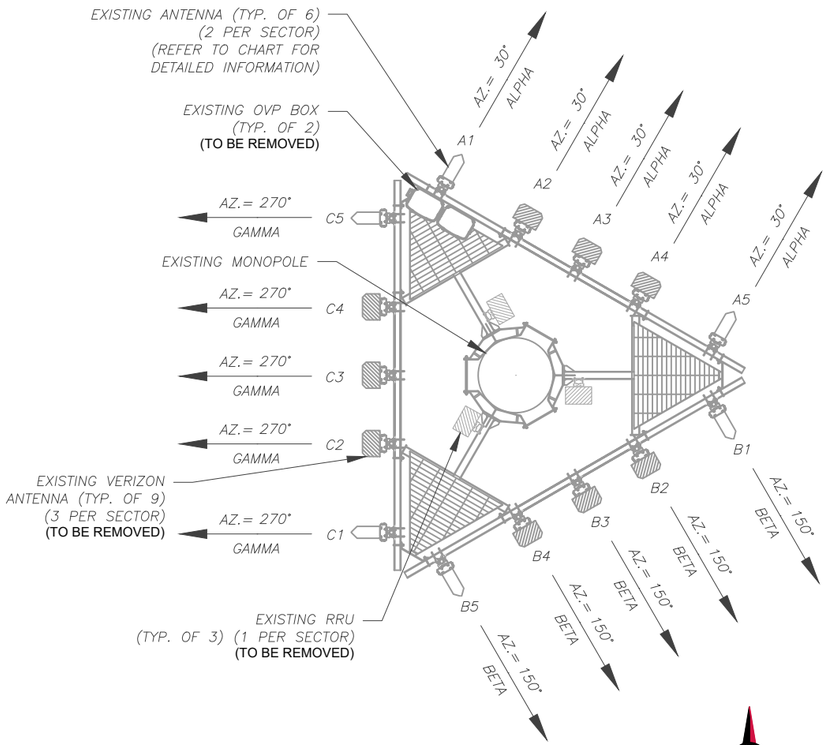
Alec S. Norris
CONNECTICUT LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 32588
COLLIERS ENGINEERING & DESIGN CT, P.C.
C.T. JPC.0000131

verizon

DATE DRAWN:	07/23/21
ATC JOB NO:	13701327_D1
CUSTOMER ID:	COLCHESTER SOUTH CT
CUSTOMER #:	469142

TOWER ELEVATION

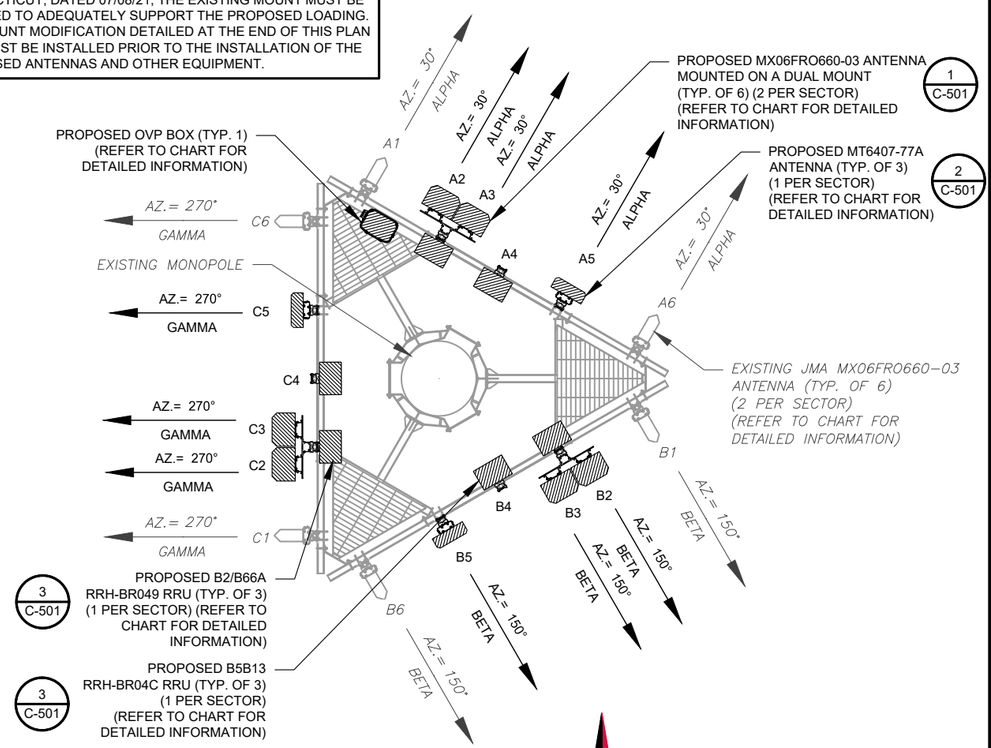
SHEET NUMBER:	REVISION:
C-201	0



1 EXISTING ANTENNA PLAN

SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING CONNECTICUT, DATED 07/08/21, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION DETAILED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.



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	180'	30°	A1	LPA-80080-4CF-EDIN-0	850 CDMA	2/0	RMN	–	–
			A2	HBXX-6517DS-A2M	AWS LTE	2/0	RMV	–	–
			A3	LNX-6514DS-A1M	700 LTE	2/0	RMV	UHIC B4 RRH 2X60-4R	RMV
			A4	HBXX-6517DS-A2M	AWS LTE	2/0	RMV	–	–
			A5	LPA-80080-4CF-EDIN-0	850 CDMA	2/0	RMN	–	–
BETA	180'	150°	B1	LPA-80080-4CF-EDIN-0	850 CDMA	2/0	RMN	–	–
			B2	HBXX-6517DS-A2M	AWS LTE	2/0	RMV	–	–
			B3	LNX-6514DS-A1M	700 LTE	2/0	RMV	UHIC B4 RRH 2X60-4R	RMV
			B4	HBXX-6517DS-A2M	AWS LTE	2/0	RMV	–	–
			B5	LPA-80080-4CF-EDIN-0	850 CDMA	2/0	RMN	–	–
GAMMA	180'	270°	C1	LPA-80080-4CF-EDIN-0	850 CDMA	2/0	RMN	–	–
			C2	HBXX-6517DS-A2M	AWS LTE	2/0	RMV	–	–
			C3	LNX-6514DS-A1M	700 LTE	2/0	RMV	UHIC B4 RRH 2X60-4R	RMV
			C4	HBXX-6517DS-A2M	AWS LTE	2/0	RMV	–	–
			C5	LPA-80080-4CF-EDIN-0	850 CDMA	2/0	RMN	–	–

NOTES

1. CONFIRM WITH VERIZON REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

STATUS ABBREVIATIONS

RMV: TO BE REMOVED
RMN: TO REMAIN
REL: TO BE RELOCATED
ADD: TO BE ADDED

CABLE LENGTHS FOR JUMPERS

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

FINAL ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY					NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	180'	30°	A1	LPA-80080-4CF-EDIN-0	850 CDMA	2/0	RMN	-	-
			A2	MX06FRO660-03	700/850/190/AWS	2/0	ADD	B2B66A RRH-BR049 RRU	ADD
			A3	MX06FRO660-03	700/850/190/AWS	2/0	ADD	-	-
			A4	-	-	-	-	B5/B13 RH-BR04C RRU	ADD
			A5	MT6407-77A	5G	6/0	ADD	-	-
			A6	LPA-80080-4CF-EDIN-0	850 CDMA	2/0	RMN	-	-
BETA	180'	150°	B1	LPA-80080-4CF-EDIN-0	850 CDMA	2/0	RMN	-	-
			B2	MX06FRO660-03	700/850/190/AWS	2/0	ADD	B2B66A RRH-BR049 RRU	ADD
			B3	MX06FRO660-03	700/850/190/AWS	2/0	ADD	-	-
			B4	-	-	-	-	B5/B13 RH-BR04C RRU	ADD
			B5	MT6407-77A	5G	6/0	ADD	-	-
			B6	LPA-80080-4CF-EDIN-0	850 CDMA	2/0	RMN	-	-
GAMMA	180'	270°	C1	LPA-80080-4CF-EDIN-0	850 CDMA	2/0	RMN	-	-
			C2	MX06FRO660-03	700/850/190/AWS	2/0	ADD	B2B66A RRH-BR049 RRU	ADD
			C3	MX06FRO660-03	700/850/190/AWS	2/0	ADD	-	-
			C4	-	-	-	-	B5/B13 RH-BR04C RRU	ADD
			C5	MT6407-77A	5G	6/0	ADD	-	-
			C6	LPA-80080-4CF-EDIN-0	850 CDMA	2/0	RMN	-	-

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(2) DB-T1-6Z-8AB-0Z	RMV	(18) 1-5/8"	(2) 1-1/4"	RMV
–	–	–	–	-

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(1) RVZDC-6627-PF-48	ADD	–	(2) 1-5/8"	ADD
		(18) 1-5/8"		RMN

3 EQUIPMENT SCHEDULES

AMERICAN TOWER®

Colliers Engineering & Design

www.colliersengineering.com

Doing Business as MASER CONSULTING

MADISON
135 New Road

Madison, CT 06443
Phone: 860.395.0055

COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

REV.	DESCRIPTION	BY	DATE
A	PRELIM	MLH	07/23/21
0	FOR CONSTRUCTION	AMN	08/10/21

ATC SITE NUMBER:
411179

ATC SITE NAME:
COLCHESTER SOUTH CT

VERIZON SITE NAME:
COLCHESTER SOUTH CT

SITE ADDRESS:
856 MIDDLETOWN ROAD
COLCHESTER, CT 06415

SEAL:

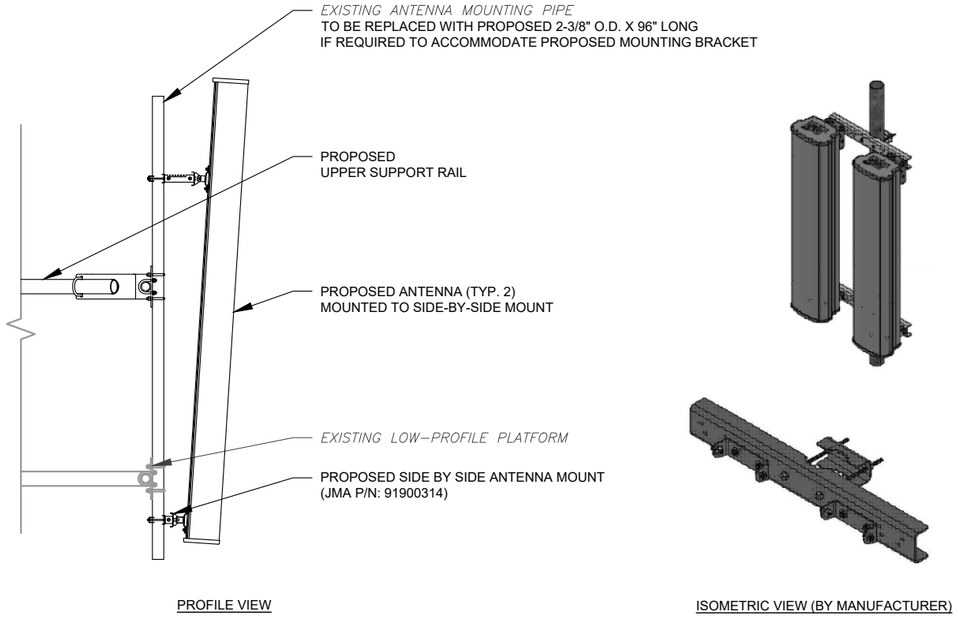
Alec S. Norris
CONNECTICUT LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 32588
COLLIERS ENGINEERING & DESIGN CT, P.C.
C.T. JPC.0000131

verizon

DATE DRAWN:	07/23/21
ATC JOB NO:	13701327_D1
CUSTOMER ID:	COLCHESTER SOUTH CT
CUSTOMER #:	469142

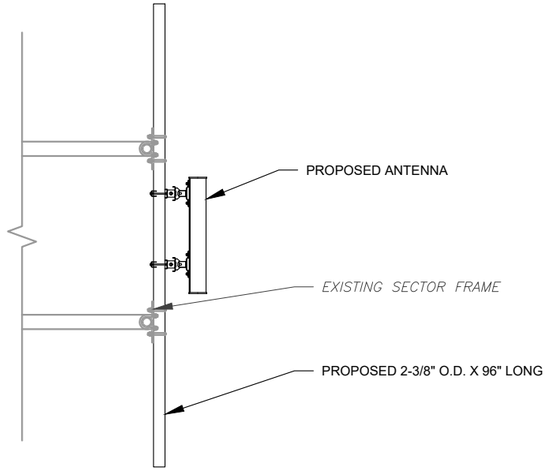
ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:	REVISION:
C-401	0



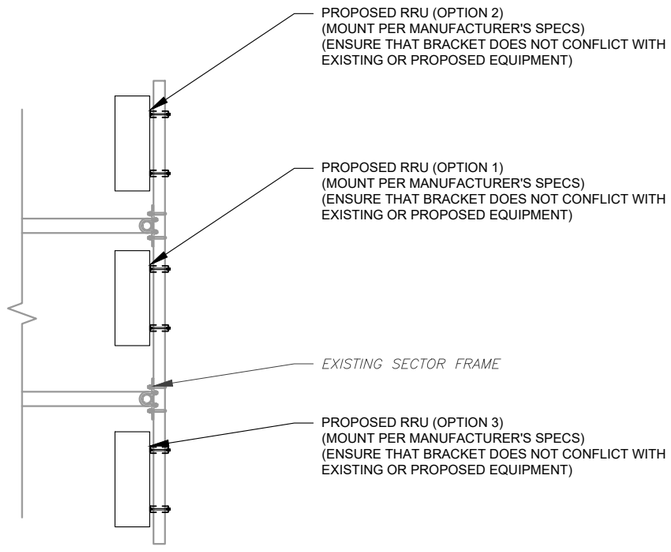
1 PROPOSED SIDE-BY-SIDE MOUNT

SCALE: NOT TO SCALE



2 PROPOSED 5G/CBRS ANTENNA MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.



3 PROPOSED RRU MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.

AMERICAN TOWER®

Colliers Engineering & Design

www.colliersengineering.com

Doing Business as MASER CONSULTING

MADISON
135 New Road

Madison, CT 06443
Phone: 860.395.0055

COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

REV.	DESCRIPTION	BY	DATE
A	PRELIM	MLH	07/23/21
0	FOR CONSTRUCTION	AMN	08/10/21

ATC SITE NUMBER:
411179

ATC SITE NAME:
COLCHESTER SOUTH CT

VERIZON SITE NAME:
COLCHESTER SOUTH CT

SITE ADDRESS:
856 MIDDLETOWN ROAD
COLCHESTER, CT 06415

SEAL:

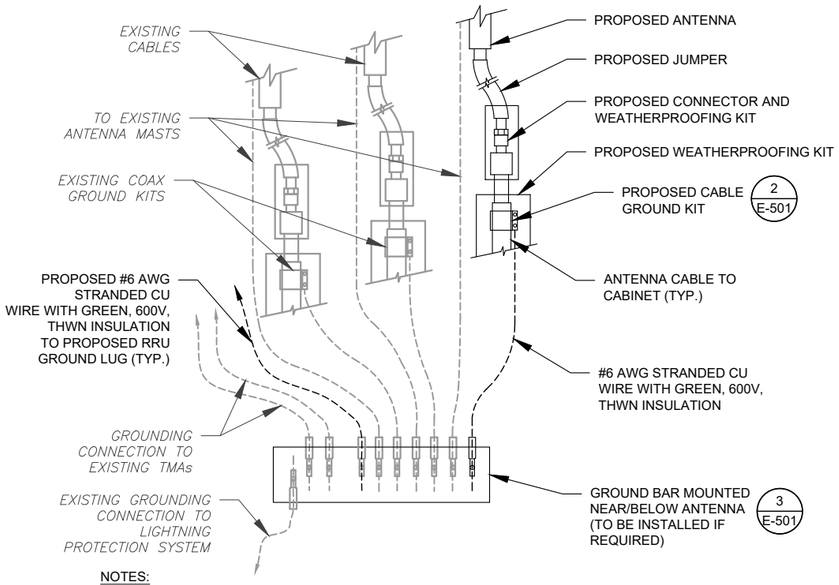
Alec S. Norris
CONNECTICUT LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 32588
COLLIERS ENGINEERING & DESIGN CT, P.C.
C.T. JPC.0000131

verizon

DATE DRAWN:	07/23/21
ATC JOB NO:	13701327_D1
CUSTOMER ID:	COLCHESTER SOUTH CT
CUSTOMER #:	469142

CONSTRUCTION DETAILS

SHEET NUMBER:	REVISION:
C-501	0

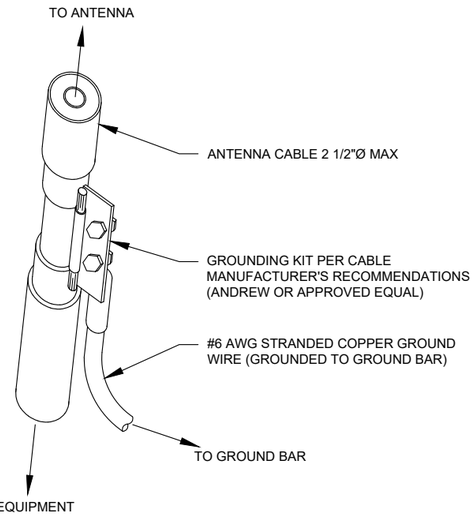


NOTES:

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.

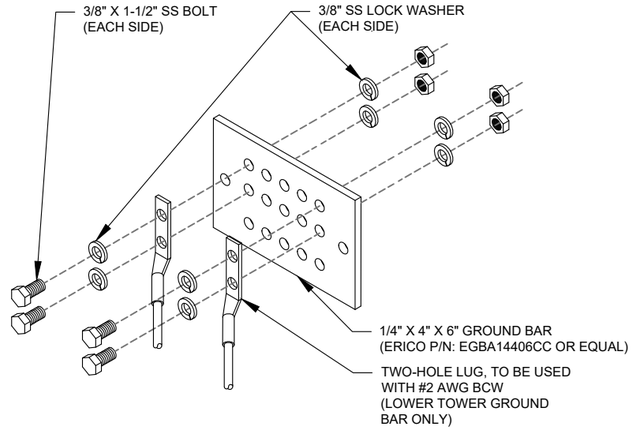


GROUND KIT NOTES:

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.

AMERICAN TOWER®

Colliers Engineering & Design
www.colliersengineering.com
Doing Business as MASER CONSULTING
MADISON
135 New Road
Madison, CT 06443
Phone: 860.395.0055
COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

REV.	DESCRIPTION	BY	DATE
A	PRELIM	MLH	07/23/21
0	FOR CONSTRUCTION	AMN	08/10/21

ATC SITE NUMBER:
411179

ATC SITE NAME:
COLCHESTER SOUTH CT

VERIZON SITE NAME:
COLCHESTER SOUTH CT

SITE ADDRESS:
856 MIDDLETOWN ROAD
COLCHESTER, CT 06415

SEAL:

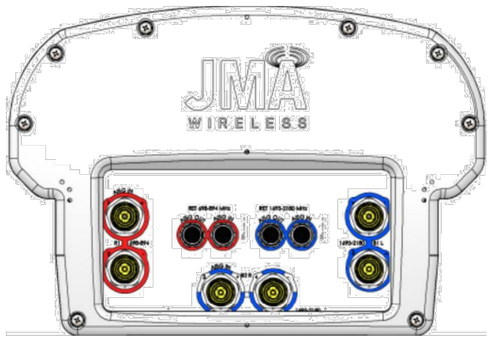
Alec S. Norris
CONNECTICUT LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER: 32588
COLLIERS ENGINEERING & DESIGN CT, P.C.
C.T. JPC.0000131

verizon

DATE DRAWN:	07/23/21
ATC JOB NO:	13701327_D1
CUSTOMER ID:	COLCHESTER SOUTH CT
CUSTOMER #:	469142

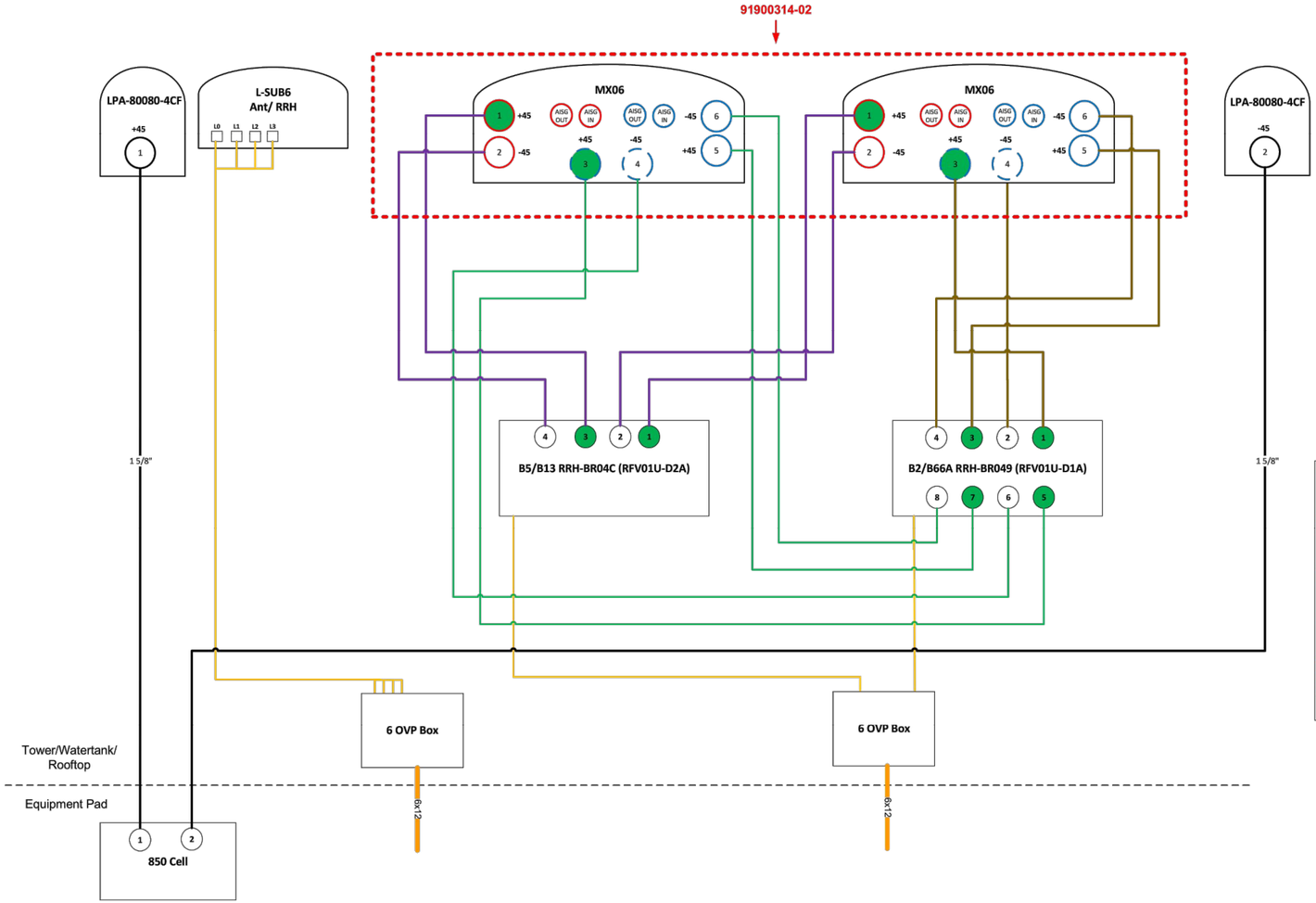
GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0



- Port 1 & 2 are for low band (698-896 MHz).
- Port 3,4,5, & 6 are for high band (1695-2360 MHz).
- Smart Bias Tee (SBT) is through port 1 & 3 for low band and port 1 for high band.
- AISG cable is only needed when drawn in the diagrams below, if it is not drawn then SBT is enough to control all RET motors.
- Not all SBT ports are needed to control RET, only green port connection to green port will control RET.

RET DC signal pass for RET
(Port that will control RET)



DC signal capable Port

AISG Cable

RET DC signal pass for RET
(Port that will control RET)

Hybriflex cables

Comments:

Diagram shows antenna port configuration as viewed from below antennas.

Antenna positions are indicated as viewed from IN FRONT of antennas.

Cap and weatherproof unused antenna ports.

All plumbing diagram colors are irrelevant except for AISG & Hybriflex cable. (For the coax colors follow Coax Colors guide above)

1 PLUMBING DIAGRAM

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-601	-

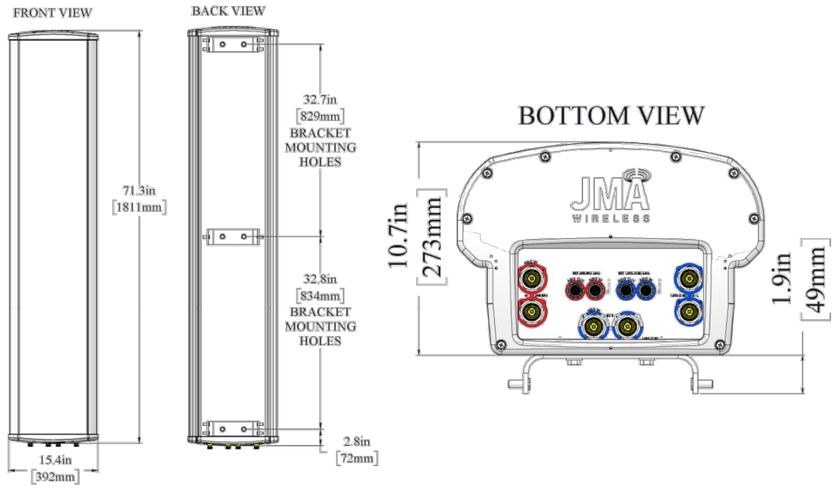
Product Specifications

MX06FRO660-02

NWAV™ X-Pol Antenna | Hex-Port | 6 ft | 60°

JMA WIRELESS

Mechanical Specifications	
Dimensions height/ width/ depth, inches (mm)	71.3/ 15.4/ 10.7 (1811/ 392/ 272)
Shipping dimensions length/ width/ height, inches (mm)	82/ 20/ 15 (2083/ 508/ 381)
No. of RF input ports, connector type & location	6 x 4.3-10 female, bottom
RF connector torque	96 lbf·in (10.85 N m or 8 lbf·ft)
Net antenna weight, lb (kg)	46 (20.0)
Shipping weight, lb (kg)	81 (37.0)
Antenna mounting and downtilt kit included with antenna	91900318
Net weight of the mounting and downtilt kit, lb (kg)	15 (6.8)
Range of mechanical up/ down tilt	-2º to 12º
Rated wind survival speed, mph (km/h)	150 (241)
Frontal, lateral & rear wind loading @ 150 km/h, lbf (N)	185 (826), 129 (574), 185 (826)
Equivalent flat plate @100 mph and Cd=2, sq. ft.	4.27

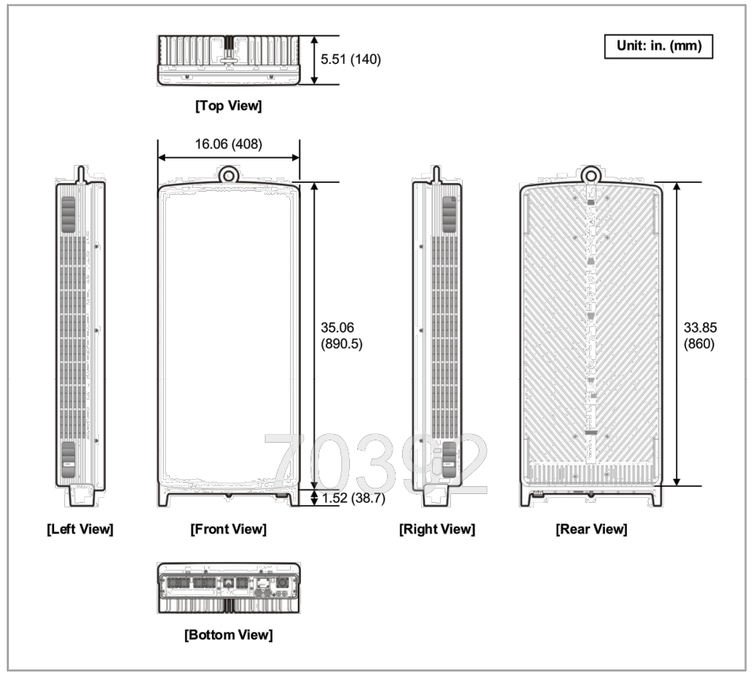


SAMSUNG

Overview

The following figures depict the physical views of the MT6407-77A.

Figure 1. Appearance

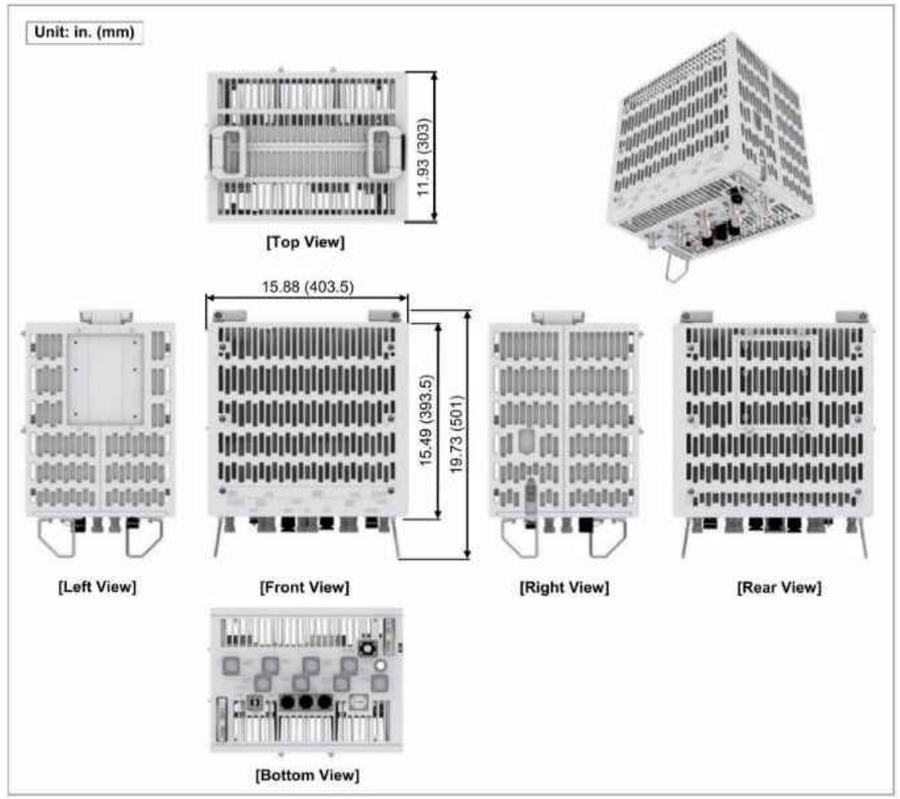


102 MT6407-77A

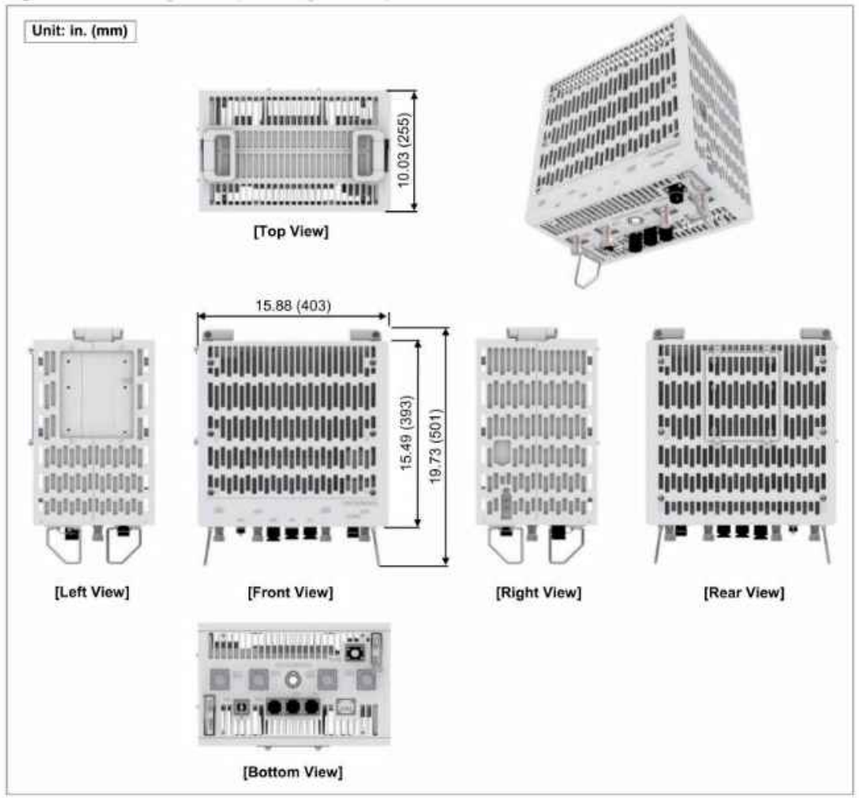
SUPPLEMENTAL

SHEET NUMBER: R-602

REVISION: -



RFV01U-D1A



RFV01U-D2A

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-603	-

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

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10084894
Maser Consulting Connecticut Project #: 21777720A

July 8, 2021

Site Information

Site ID:	*469142-VZW / COLCHESTER SOUTH CT*
Site Name:	*COLCHESTER SOUTH CT*
Carrier Name:	*Verizon Wireless*
Address:	*856 Middletown Road* *Colchester, Connecticut 06415* *New London County*
Latitude:	*41.551633°*
Longitude:	*-72.425794°*

Structure Information

Tower Type:	*180-Ft Monopole*
Mount Type:	*12.92-Ft Platform*

FUZE ID # 16272138

Analysis Results

Platform: **55.9% 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: Conner Hoge

STATE OF CONNECTICUT
JUSTIN PETER LINETTE
No. 31965
LICENSED
PROFESSIONAL ENGINEER

Digitally signed by Justin Linette
Date: 2021.07.08 14:59:57-04'00'

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
   - Channel, Solid Round, Angle, Plate — ASTM A36 (Gr. 36)
   - HSS (Rectangular) — ASTM 500 (Gr. B-46)
   - Pipe — ASTM A53 (Gr. B-35)
   - Threaded Rod — F1554 (Gr. 36)
   - Bolts — ASTM A325

8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

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

Analysis Results:

Component	Utilization %	Pass/Fail
Antenna Pipe	37.0%	Pass
Face Horizontal	19.0%	Pass
Standoff Horizontal	27.0%	Pass
Grating Support	3.0%	Pass
Kicker	14.0%	Pass
Support Rail	25.0%	Pass
Mount Connection	55.9%	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**55.9%**

Recommendation:

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

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

Attachments:

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

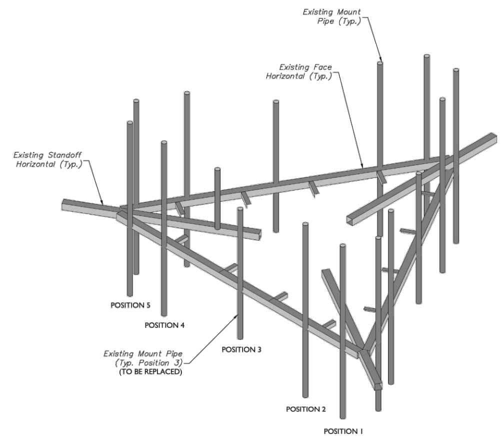
1 MOUNT ANALYSIS

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 CONSTRUCTION.

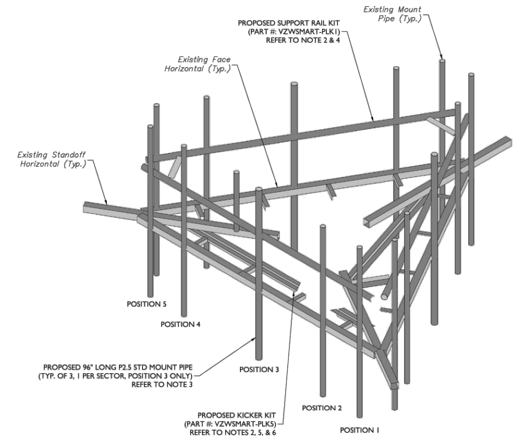
SUPPLEMENTAL

SHEET NUMBER: R-604

REVISION: -



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


PROPOSED SUPPORT RAIL KIT (PART #: VZWSMART-PLK1) REFER TO NOTE 2 & 4
Existing Mount Pipe (Typ.)
Existing Face Horizontal (Typ.)
Existing Standoff Horizontal (Typ.)
POSITION 5
POSITION 4
PROPOSED 96" LONG P2.5 STD MOUNT PIPE (TYP. OF 3, 1 PER SECTOR, POSITION 3 ONLY) REFER TO NOTE 3
POSITION 3
PROPOSED KICKER KIT (PART #: VZWSMART-PLK3) REFER TO NOTES 2, 5, & 6
POSITION 2
POSITION 1

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

STRUCTURAL NOTES:

1. PER THE MOUNT MAPPING COMPLETED BY ELITE ICT, LLC ON 4/21/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (180.0') ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
3. CONNECT NEW MOUNT PIPE TO EXISTING HORIZONTAL WITH CROSSOVER PLATE PERFECT VISION (PART #: PV-XP-ST-U OR EOR APPROVED EQUIVALENT). CONNECT TO PROPOSED SUPPORT RAIL WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).
4. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
5. CONNECT OTHER END OF KICKER KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7).
6. REMOVE THE EXISTING RRH RING MOUNT BELOW EXISTING PLATFORM.

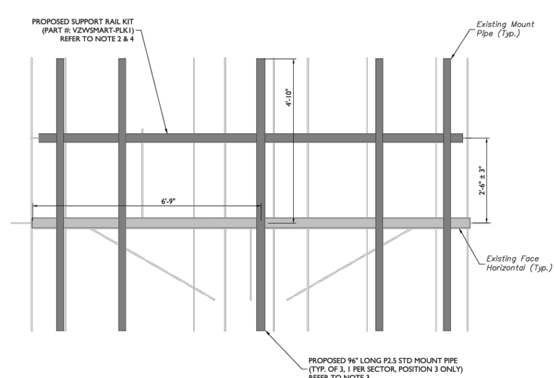
MASER CONSULTING CONNECTICUT

verizon

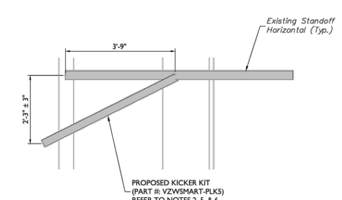
SITE NAME:
COLCHESTER SOUTH CT
469142
856 MIDDLETOWN ROAD
COLCHESTER, CONNECTICUT 06415
NEW LONDON COUNTY

MODIFICATION DETAILS

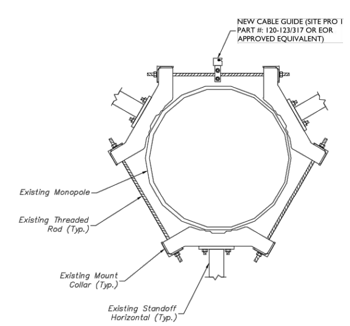
S-4



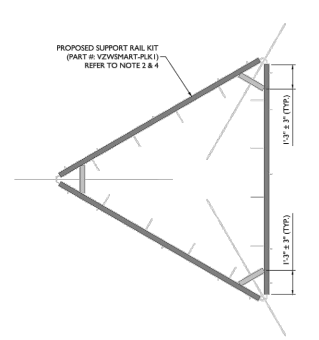
1 PROPOSED FRONT ELEVATION (TYP. ALL SECTORS)
SCALE : N.T.S.



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



4 PROPOSED CABLE GUIDE
SCALE : N.T.S.



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

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
3. CONNECT NEW MOUNT PIPE TO EXISTING HORIZONTAL WITH CROSSOVER PLATE PERFECT VISION (PART #: PV-XP-ST-U OR EOR APPROVED EQUIVALENT). CONNECT TO PROPOSED SUPPORT RAIL WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).
4. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
5. CONNECT OTHER END OF KICKER KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7).
6. REMOVE THE EXISTING RRH RING MOUNT BELOW EXISTING PLATFORM.

MASER CONSULTING CONNECTICUT

verizon

SITE NAME:
COLCHESTER SOUTH CT
469142
856 MIDDLETOWN ROAD
COLCHESTER, CONNECTICUT 06415
NEW LONDON COUNTY

MODIFICATION DETAILS

S-5

1 MOUNT MODIFICATION

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 CONSTRUCTION.

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-605	-