



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](mailto:siting.council@ct.gov)

Web Site: [portal.ct.gov/csc](http://portal.ct.gov/csc)

**VIA ELECTRONIC MAIL**

October 15, 2021

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  
[mumali@clinellc.com](mailto:mumali@clinellc.com)

RE: **EM-VER-078-210819** - Cellco Partnership, d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 1725 Stafford Road, Mansfield, Connecticut

Dear MJ Umali:

The Connecticut Siting Council (Council) is in receipt of your correspondence of October 15, 2021 submitted in response to the Council's October 4, 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,

A handwritten signature in dark ink, appearing to read "Melanie Bachman".

Melanie Bachman  
Executive Director

MAB/CMW/laf

**From:** MJ Umali <mumali@clinellc.com>

**Sent:** Friday, October 15, 2021 10:05 AM

**To:** CSC-DL Siting Council <Siting.Council@ct.gov>

**Cc:** ATC VZ Team <ATC-VZW@clinellc.com>; Sharon Bateman <sbateman@clinellc.com>; John Coleman <jcoleman@clinellc.com>

**Subject:** RE: VZW Exempt Modification filing /MANSFIELD CENTER 2 CT(376047/13668979) / MANSFIELD NORTH

EXTERNAL EMAIL: This email originated from outside of the organization. Do not click any links or open any attachments unless you trust the sender and know the content is safe.

Good morning,

Please find response to Incomplete Memo with original filing attached above.

Thank you,



**MJ Umali** | Senior Site Acquisition Specialist

750 W Center St, Suite 301 | West Bridgewater, MA 02379

Mobile: 978-568-7906

[mumali@clinellc.com](mailto:mumali@clinellc.com) | [www.centerlinecommunications.com](http://www.centerlinecommunications.com)

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

October 7, 2021

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

**RE: EM-VER-078-210819** - Cellco Partnership, d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 1725 Stafford Road, Mansfield, Connecticut.

In response to Council Incomplete Letter for Multiple Telecommunications Facilities dated September 30, 2021, please see the following attachments outlined below per council requests:

1. Proof of mailing to Chief Elected Official of host municipality and underlying property owner
  - a. Delivery Confirmation to Chief Elected Official - UPS Label: 1Z9Y45030309032365
  - b. Delivery Confirmation to Property Owner – UPS Label: 1Z9Y45030316984387
2. Original Facility Approval with municipality
3. Original Filing sent to CSC on 8/13/2021 - VZW Exempt Modification filing /MANSFIELD CENTER 2 CT(376047/13668979) / MANSFIELD NORTH

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](mailto:MUmali@centerlinecommunications.com)

# Proof of Delivery

Dear Customer,

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

**Tracking Number**

1Z9Y45030309032365

**Weight**

1.00 LBS

**Service**

UPS Ground

**Shipped / Billed On**

08/13/2021

**Delivered On**

09/16/2021 11:03 A.M.

**Delivered To**

STORRS MANSFIELD, CT, US

**Received By**

FERRARA

**Left At**

Office

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

Sincerely,

UPS

Tracking results provided by UPS: 10/05/2021 1:59 P.M. EST



# Proof of Delivery

Dear Customer,

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

**Tracking Number**

1Z9Y45030316984387

**Weight**

1.00 LBS

**Service**

UPS Ground

**Shipped / Billed On**

08/13/2021

**Delivered On**

09/16/2021 11:03 A.M.

**Delivered To**

STORRS MANSFIELD, CT, US

**Received By**

FERRARA

**Left At**

Office

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

Sincerely,

UPS

Tracking results provided by UPS: 10/05/2021 2:06 P.M. EST

**TOWN OF MANSFIELD  
OFFICE OF THE TOWN MANAGER**



Martin H. Berliner, Town Manager

AUDREY P. BECK BUILDING  
4 SOUTH EAGLEVILLE RD  
MANSFIELD, CT 06268-2599  
(860) 429-3336  
Fax: (860) 429-6863

November 5, 2002

TCP Communications Inc.  
Attn: Ms. Sheila Becker  
3 Oceanside Drive  
Beverly, Massachusetts 01915

**RE: Proposed Telecommunications Tower at 1725 Stafford Road, Mansfield, CT**

Dear Ms. Becker:

I understand that SBA Properties, Inc. has assigned its rights to TCP Communications Inc. under its lease with the Town of Mansfield to construct a telecommunications tower on town-owned property at 1725 Stafford Road. I write to encourage you to develop this site as quickly as possible. The purpose of the proposed Stafford Road telecommunications tower is to significantly improve the town's critical communications capabilities.

There are several "dead spots" throughout the community that both the town's emergency services and its bus carrier experience. A tower at the Stafford Road location will serve to significantly reduce the number of those problem areas.

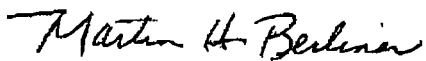
The Stafford Road site is the location of the town's school-bus garage and a dedicated antenna at that location will significantly improve communications for Mansfield's school bus carrier. The safety of our schoolchildren is our highest priority and enhanced communications abilities will greatly assist our efforts to safely transport those children.

An antenna at this location for the town's emergency services will further allow the town to improve communications for all aspects of public safety, including ambulance, fire, police, storm control and civil preparedness. One of the hallmarks of a successful emergency services system is a rapid response time, which in turn is predicated upon quality communications equipment and capabilities.

The Mansfield Planning and Zoning Commission has approved the application for construction of a telecommunications tower at this site. We look forward to the completion of the tower in the very near future, which will result in the overall improvement of the town's communications system.

Your assistance with this project is greatly appreciated. I can be reached at (860) 429-3336 with any questions.

Sincerely,



Martin H. Berliner  
Town Manager

cc: Matt Hart, Assistant Town Manager  
Greg Padick, Town Planner  
Fred Baruzzi, Deputy Superintendent of Schools  
John Jackman, Fire Marshal  
Chief William Jordan, Eagleville Fire Department  
Chief Tony Noel, Mansfield Volunteer Fire Department

CONNECTICUT SITING COUNCIL

Check: 28224  
Date: 8/11/2021  
Vendor: 0

<u>Invoice</u>	<u>P.O. Num.</u>	<u>Invoice Amt</u>	<u>Prior Balance</u>	<u>Retention</u>	<u>Discount</u>	<u>Amt. Paid</u>
531382-004		625.00	625.00	0.00	0.00	625.00
ATC - Verizon-13668979						
		<u>625.00</u>	<u>625.00</u>	<u>0.00</u>	<u>0.00</u>	<u>625.00</u>

**Centerline Communications LLC**

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

ROCKLAND TRUST COMPANY  
MEDFIELD, MA 02052

53-447/113

028224

28224

DATE

AMOUNT

8/11/2021

\*\*\*\*\*625.00

PAY  
TO THE  
ORDER  
OF

THE SUM OF SIX HUNDRED TWENTY FIVE DOLLARS AND NO CENTS

CONNECTICUT SITING COUNCIL

VOID AFTER 90 DAYS

AUTHORIZED SIGNATURE

Security features. Details on back





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](mailto:MUmali@centerlinecommunications.com)

August 11, 2021

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

**RE: Notice of Exempt Modification // Site: MANSFIELD NORTH (ATC: 376047)  
1725 Stafford Road Mansfield, CT 06268  
N 41.8359 // W 72.3079**

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless currently maintains 12 antennas at the 174-ft level on the existing 170 foot monopole tower, located at 1725 Stafford Road Mansfield, CT. The tower is owned by American Tower. The property is owned by the Town of Mansfield. The tower was originally approved by the Council in 2004. 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 6 Remote Radio Head (RRHs) and install 9 new RRHs, remove 1 OVP and add 2 new ones, remove 1 hybrid cable, remove 4 1-5/8" Coax cables and install 2 new 1-5/8' 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 Antonia Moran, Mayor of Mansfield, its Director of Planning and Development, Linda Painter, and American Tower, the tower owner, and the town of Mansfield as the property owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Enclosed to accommodate this filing are construction drawings dated July 19, 2021, by Dewberry Engineers, Inc., a structural analysis dated April 26, 2021, by A.T. Engineering, PLLC., and a structural mount analysis by Maser Consulting Connecticut date June 25, 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 April 26, 2021, and a structural mount analysis by Maser Consulting Connecticut, dated June 25, 2021, pursuant to certain conditions defined therein. Design and engineering is fully illustrated within final construction drawings, signed and stamped dated July 19, 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](mailto:MUmali@centerlinecommunications.com)

Attachments

cc: Antonia Moran, Mayor of Mansfield - as chief elected official  
Linda Painter, Director of Planning and Development of Mansfield- as P&Z official  
American Tower Corporation - as tower owner  
Town of Mansfield, CT – as ground owner

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1 OF 1

1 LBS

SHIP TO:  
ANTONIA MORAN, MAYOR OF MANSFIELD  
AUDREY P. BECK MUNICIPAL BUILDING  
4 SOUTH EAGLEVILLE ROAD  
STORRS MANSFIELD CT 06268-2574



CT 063 0-01



UPS GROUND

TRACKING #: 1Z 9Y4 503 03 0903 2365



BILLING: P/P

Reference # 1: 376047  
Reference # 2: Mansfield Center 2 CT  
CS220.18. WATNVS0 32.0A 08/2021 \*



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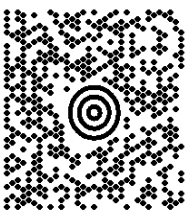
1 OF 1

1 LBS

SHIP TO:  
LINDA PAINTER  
DIRECTOR OF PLANNING & DEVELOPMENT  
AUDREY P. BECK MUNICIPAL BUILDING  
4 SOUTH EAGLEVILLE ROAD  
STORRS MANSFIELD CT 06268-2574

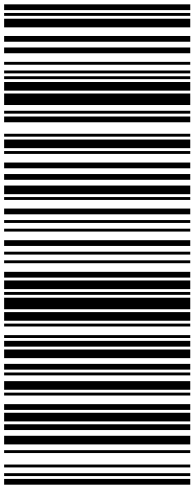
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750 W. CENTER ST.  
WEST BRIDGEWATER MA 02379

CT 063 0-01




UPS GROUND

TRACKING #: 1Z 9Y4 503 03 1550 7377



BILLING: P/P

Reference # 1: 376047  
Reference # 2: Mansfield Center 2 CT  
CS220.18. WATNVS0 32.0A 08/2021 \*





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<p> <b>1 OF 1</b>  <b>5 LBS</b> </p>	<p> <b>SHIP TO:</b>  <b>LAND MANAGEMENT</b>  <b>7814287250</b>  <b>AMERICAN TOWER CORPORATION</b>  <b>10 PRESIDENTIAL WAY</b>  <b>WOBURN MA 01801-1053</b> </p>
	<p> <b>MA 018 9-04</b>   </p>
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1 OF 1

1 LBS

SHIP TO:  
TOWN OF MANSFIELD, CT  
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CT 063 0-01

UPS GROUND

TRACKING #: 1Z 9Y4 503 03 1698 4387

BILLING: P/P

Reference # 1: 376047  
Reference # 2: Mansfield Center 2 CT  
CS220.18. WATNVS0 32.0A 08/2021 \*

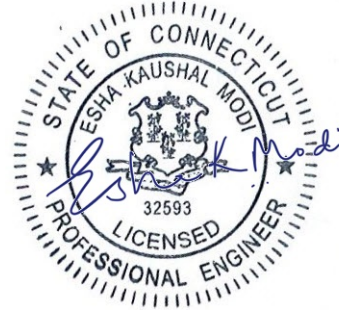


**AMERICAN TOWER®**  
C O R P O R A T I O N

---

## Structural Analysis Report

**Structure** : 170 ft Monopole  
**ATC Site Name** : MANSFIELD CENTER 2 CT, CT  
**ATC Asset Number** : 376047  
**Engineering Number** : 13668979\_C3\_01  
**Proposed Carrier** : VERIZON WIRELESS  
**Carrier Site Name** : MANSFIELD NORTH  
**Carrier Site Number** : 468088  
**Site Location** : 1725 Stafford Road  
STORRS MANSFIELD, CT 06268-1138  
41.836000,-72.307800  
**County** : Tolland  
**Date** : April 26, 2021  
**Max Usage** : 48%  
**Result** : Pass



Prepared By:  
Nick Gollifer, E.I.  
Structural Engineer

Reviewed By:

**COA: PEC.0001553**



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## **Introduction**

The purpose of this report is to summarize results of a structural analysis performed on the 170 ft monopole to reflect the change in loading by VERIZON WIRELESS.

## **Supporting Documents**

<b>Tower Drawings</b>	PennSummit, PJF Job #29202-0365, dated December 6, 2002
<b>Foundation Drawing</b>	PennSummit, PJF Job #29202-0365, dated December 6, 2002
<b>Geotechnical Report</b>	GEOServices Project #31-151383K, dated December 21, 2015

## **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.

<b>Basic Wind Speed:</b>	119 mph (3-Second Gust)
<b>Basic Wind Speed w/ Ice:</b>	50 mph (3-Second Gust) w/ 1 ½" radial ice concurrent
<b>Code:</b>	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
<b>Exposure Category:</b>	B
<b>Risk Category:</b>	II
<b>Topographic Factor Procedure:</b>	Method 1
<b>Topographic Category:</b>	1
<b>Crest Height (H):</b>	0 ft
<b>Spectral Response:</b>	$S_s = 0.18$ , $S_1 = 0.05$
<b>Site Class:</b>	D - Stiff Soil

## **Conclusion**

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

If you have any questions or require additional information, please contact American Tower via email at [Engineering@americantower.com](mailto: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. <sup>1</sup> (ft)	Qty	Antenna	Mount Type	Lines	Carrier
174.0	3	Amphenol Antel BXA-70080-4BF-EDIN-X	Triangular Low Profile Platform	(6) 1 5/8" Coax	VERIZON WIRELESS
162.0	3	Andrew HBX-6516DS-VTM	Triangular Platform with Handrails	(6) 1 5/8" Coax (1) 3/8" (0.38"-9.5mm) RET Control Cable (1) 1 5/8" (1.63"-41.3mm) Fiber (12) 1 5/8" Coax	T-MOBILE
	3	Ericsson KRY 112 489/2			
	3	Ericsson Radio 4449 B12,B71			
	3	RFS APXV18-203219-C (54.1" x 11.3")			
	3	RFS APXVAARR24_43-U-NA20			
	3	Ericsson KRY 112 144/1			
	3	Generic RCU (Remote Control Unit)			
	3	Commscope LNX-6515DS-VTM			
	3	Andrew ATSBT-BOTTOM-MF			
	3	RFS APXV18-203219-C (54.1" x 11.3")			
150.0	6	Powerwave Allgon LGP21401	Low Profile Platform	(12) 1 5/8" Coax (12) 1/2" Coax (2) 3" conduit (1) 0.39" (10mm) Fiber Trunk (2) 0.78" (19.7mm) 8 AWG 6	AT&T MOBILITY
	6	Ericsson RRUS 11 (Band 12)			
	1	Powerwave Allgon P65-17-XLH-RR			
	6	Powerwave Allgon 7770.00			
	6	Powerwave Allgon LGP21901			
	2	KMW AM-X-CD-16-65-00T-RET			
148.0	1	Generic SSB (27lb)			
130.0	3	RFS APXV9ERR18-C (62 lbs)	Low Profile Platform	(3) 1 1/4" Hybriflex Cable (1) 1 5/8" Hybriflex	SPRINT NEXTEL
	3	RFS APXV9TM14-ALU-I20			
	3	Alcatel-Lucent TD-RRH8x20-25			
	3	Alcatel-Lucent RRH 1900 MHz			
	3	Alcatel-Lucent 800MHz RRH			

**Equipment to be Removed**

Elev. <sup>1</sup> (ft)	Qty	Antenna	Mount Type	Lines	Carrier
174.0	6	Commscope HBXX-6517DS-A2M	-	(6) 1 5/8" Coax (1) 1 5/8" Hybriflex	VERIZON WIRELESS
	3	Andrew LNX-6514DS-A1M			
170.0	6	Alcatel-Lucent RRH2X60-AWS			
	1	RFS DB-T1-6Z-8AB-OZ			
	6	RFS FD9R6004/2C-3L (3.1 lbs)			

**Proposed Equipment**

Elev. <sup>1</sup> (ft)	Qty	Antenna	Mount Type	Lines	Carrier
174.0	3	Samsung B2/B66A RRH-BR049	Triangular Low Profile Platform	(2) 1 5/8" Hybriflex	VERIZON WIRELESS
	3	Samsung B5/B13 RRH-BR04C			
	2	Raycap RVZDC-6627-PF-48			
	3	Samsung MT6407-77A			
	6	Commscope NHH-65B-R2B			

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

Install proposed coax inside the pole shaft.

### **Structure Usages**

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	48%	Pass
Shaft	48%	Pass
Base Plate	36%	Pass

### **Foundations**

Reaction Component	Original Design Reactions	Factored Design Reactions*	Analysis Reactions	% of Design
Moment (Kips-Ft)	5,555.0	7,499.3	3,397.1	45%
Shear (Kips)	45.0	60.8	28.2	46%
* The design reactions are factored by 1.35 per ANSI/TIA-222-H, Sec. 15.6.2				

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

### **Deflection and Sway\***

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
174.0	Samsung B5/B13 RRH-BR04C	VERIZON WIRELESS	1.424	0.920
	Samsung B2/B66A RRH-BR049			
	Raycap RVZDC-6627-PF-48			
	Samsung MT6407-77A			
	Commscope NHH-65B-R2B			

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



## **Standard Conditions**

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

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

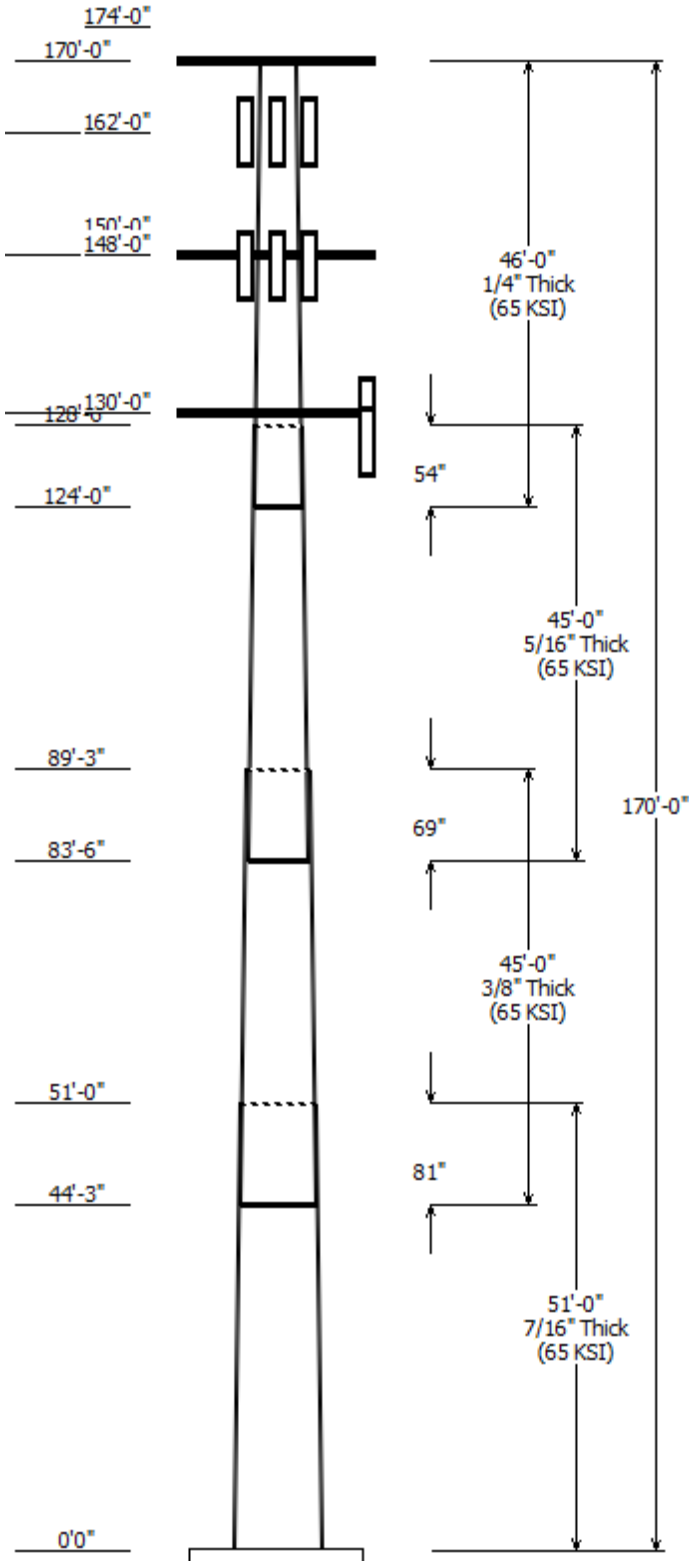
It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete.

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

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

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





## Job Information

Client : VERIZON WIRELESS  
 Pole : 376047 Code: ANSI/TIA-222-H  
 Location : MANSFIELD CENTER 2 CT, CT  
 Description : Risk Category : II  
 Shape : 18 Sides Exposure : B  
 Height : 170.00 (ft) Topo Method : Method 1  
 Base Elev (ft): 0.00 Topographic Category : 1  
 Taper: 0.247029in/ft)

## Sections Properties

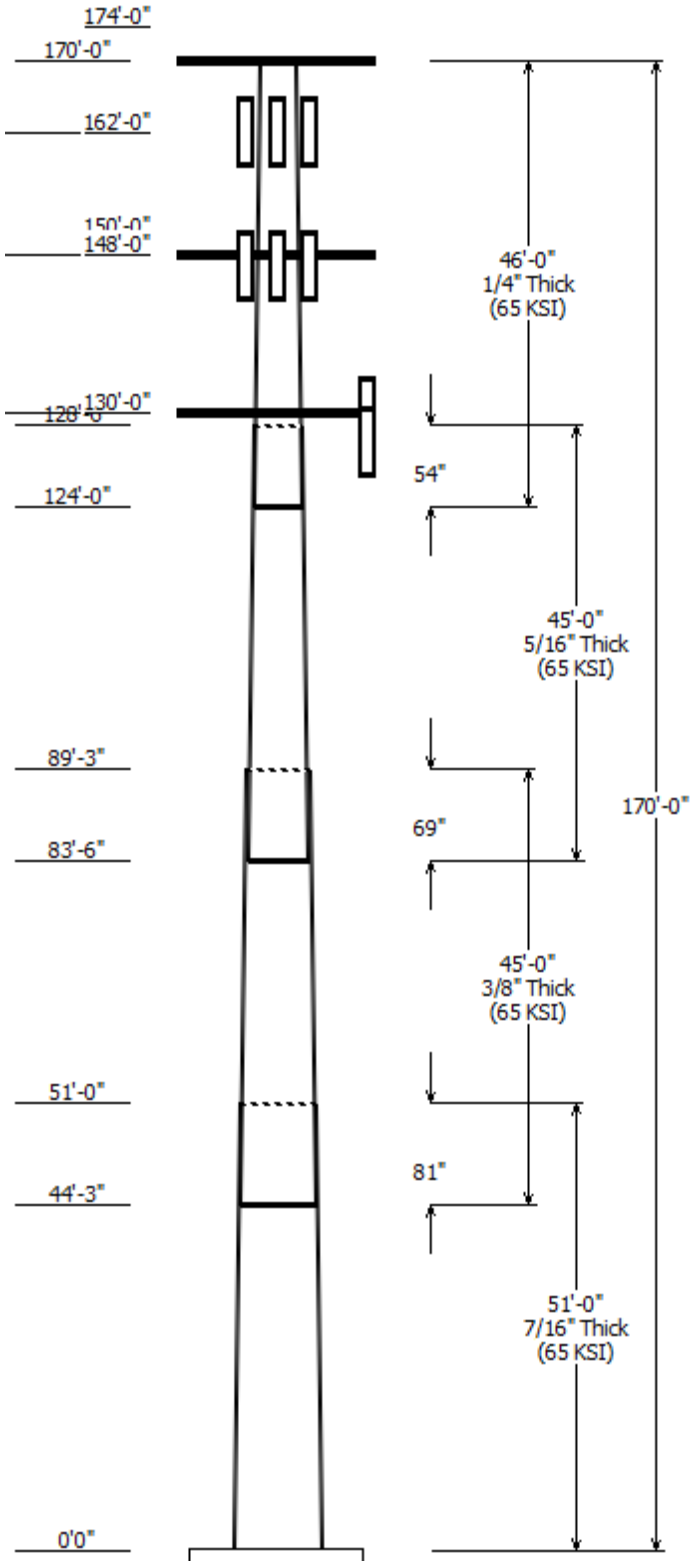
Shaft Section	Length (ft)	Diameter (in)		Thick (in)	Joint Type	Overlap Length (in)	Steel Grade
		Top	Bottom				
1	51.000	51.52	64.12	0.438		0.000	18 Sides 65
2	45.000	42.82	53.93	0.375	Slip Joint	81.000	18 Sides 65
3	45.000	33.75	44.86	0.313	Slip Joint	69.000	18 Sides 65
4	46.000	24.00	35.36	0.250	Slip Joint	54.000	18 Sides 65

## Discrete Appurtenance

Attach Elev (ft)	Force Elev (ft)	Qty	Description
174.000	174.000	6	Commscope NHH-65B-R2B
174.000	174.000	2	Raycap RVZDC-6627-PF-48
174.000	172.000	3	Amphenol Antel BXA-70080-
174.000	174.000	3	Samsung B5/B13 RRH-BR04C
174.000	174.000	3	Samsung MT6407-77A
174.000	174.000	3	Samsung B2/B66A RRH-BR049
170.000	170.000	1	Flat Low Profile Platform
162.000	162.000	3	Andrew ATSBT-BOTTOM-MF
162.000	162.000	3	Commscope LNX-6515DS-VTM
162.000	162.000	1	PerfectVision PV-LPP12M-HR-
162.000	162.000	3	RFS APXV18-203219-C (54.1" x 1
162.000	162.000	3	RFS APXVAARR24 43-U-NA20
162.000	162.000	3	RFS APXV18-203219-C (54.1" x 1
162.000	162.000	3	Ericsson Radio 4449 B12,B71
162.000	162.000	3	Ericsson KRY 112 489/2
162.000	162.000	3	Ericsson KRY 112 144/1
162.000	162.000	3	Generic RCU (Remote Control
162.000	162.000	3	Andrew HBX-6516DS-VTM
150.000	148.000	1	Powerwave Allgon P65-17-
150.000	148.000	2	KMW AM-X-CD-16-65-00T-RET
150.000	148.000	6	Powerwave Allgon 7770.00
150.000	148.000	6	Ericsson RRUS 11 (Band 12)
150.000	148.000	6	Powerwave Allgon LGP21401
150.000	148.000	6	Powerwave Allgon LGP21901
148.000	148.000	1	Flat Low Profile Platform
148.000	148.000	1	Generic SSB (27lb)
130.000	130.000	1	Flat Low Profile Platform
130.000	129.000	3	RFS APXV9ERR18-C (62 lbs)
130.000	130.000	3	RFS APXV9TM14-ALU-I20
130.000	130.000	3	Alcatel-Lucent TD-RRH8x20-25
130.000	129.000	3	Alcatel-Lucent 800MHz RRH
130.000	129.000	3	Alcatel-Lucent RRH 1900 MHz

## Linear Appurtenance

Elev (ft)		Description	Exposed To Wind
From	To		
5.000	130.0	1 1/4" Hybriflex	No
5.000	130.0	1 5/8" Hybriflex	No
5.000	150.0	1 5/8" Coax	No
5.000	150.0	1/2" Coax	No
5.000	150.0	3" conduit	No



5.000	162.0	1 5/8" (1.63"-	No
5.000	162.0	1 5/8" Coax	No
5.000	174.0	1 5/8" Coax	No
0.000	174.0	1 5/8" Hybriflex	No
0.000	162.0	1 5/8" Coax	No
0.000	162.0	3/8" (0.38"-	No
0.000	148.0	0.39" (10mm)	No
0.000	148.0	0.78" (19.7mm) 8	No

#### Load Cases

1.2D + 1.0W	119 mph with No Ice
0.9D + 1.0W	119 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 1.50 in Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	Serviceability 60 mph

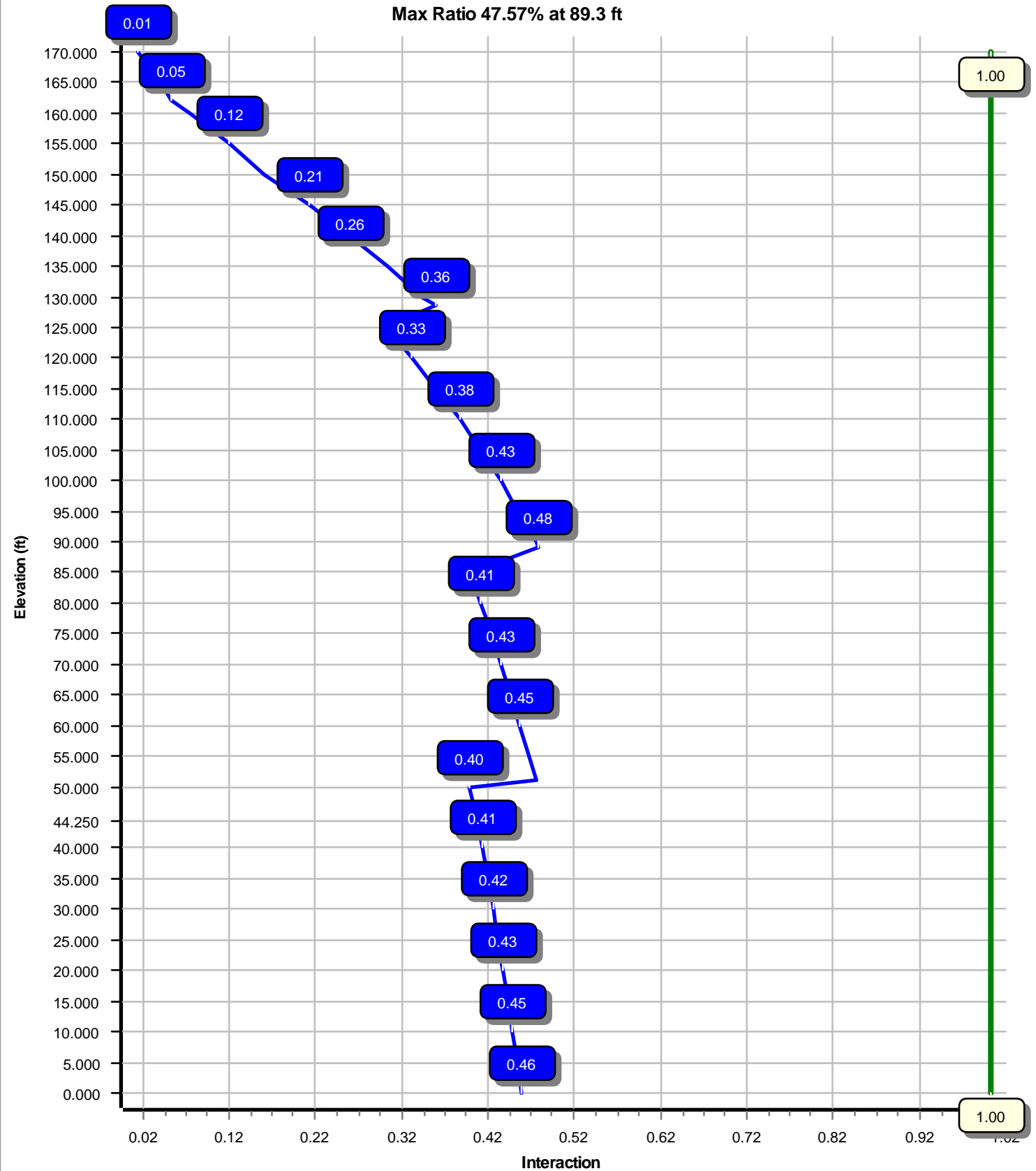
#### Reactions

Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.0W	3397.05	28.20	61.15
0.9D + 1.0W	3362.28	28.19	45.85
1.2D + 1.0Di + 1.0Wi	979.47	8.12	86.96
1.2D + 1.0Ev + 1.0Eh	210.57	1.53	61.27
0.9D - 1.0Ev + 1.0Eh	207.92	1.53	42.56
1.0D + 1.0W	767.82	6.41	50.98

#### Dish Deflections

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

Load Case : 1.2D + 1.0W  
Max Ratio 47.57% at 89.3 ft



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Site Number: 376047

Code: ANSI/TIA-222-H

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Site Name: MANSFIELD CENTER 2 CT, CT

Engineering Number: 13668979\_C3\_01

4/26/2021 7:51:17 AM

Customer: VERIZON WIRELESS

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### Analysis Parameters

Location :	Tolland County, CT	Height (ft) :	170
Code :	ANSI/TIA-222-H	Base Diameter (in) :	64.12
Shape :	18 Sides	Top Diameter (in) :	24.00
Pole Type :	Taper	Taper (in/ft) :	0.247
Pole Manufacturer :	PennSummit Tub	Rotation (deg) :	0.00
Kd (non-service) :	0.95	Ke :	0.99

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### Ice & Wind Parameters

Exposure Category:	B	Design Wind Speed Without Ice:	119 mph
Risk Category:	II	Design Wind Speed With Ice:	50 mph
Topographic Factor Procedure:	Method 1	Operational Wind Speed:	60 mph
Topographic Category:	1	Design Ice Thickness:	1.50 in
Crest Height:	0 ft	HMSL:	368.00 ft

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### Seismic Parameters

Analysis Method:	Equivalent Lateral Force Method		
Site Class:	D - Stiff Soil		
Period Based on Rayleigh Method (sec):	2.35		
$T_L$ (sec):	6	$p$ :	1
$S_s$ :	0.184	$S_1$ :	0.055
$F_a$ :	1.600	$F_v$ :	2.400
$S_{ds}$ :	0.196	$S_{d1}$ :	0.088
		$C_s$ :	0.030
		$C_s$ Max:	0.030
		$C_s$ Min:	0.030

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### Load Cases

1.2D + 1.0W	119 mph with No Ice
0.9D + 1.0W	119 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 1.50 in Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	Serviceability 60 mph

Site Number: 376047

Code: ANSI/TIA-222-H

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Site Name: MANSFIELD CENTER 2 CT, CT Engineering Number: 13668979\_C3\_01

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Customer: VERIZON WIRELESS

**Shaft Section Properties**

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Joint Len (in)	Weight (lb)	Bottom				Top				W/t Ratio	D/t Ratio	Taper (in/ft)
							Dia (in)	Elev (ft)	Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )	Dia (in)	Elev (ft)	Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )			
1-18	51.000	0.4375	65		0.00	13,828	64.12	0.00	88.43	45308.8	24.08	146.56	51.52	51.00	70.93	23387.1	19.00 117.76 0.247029
2-18	45.000	0.3750	65	Slip	81.00	8,749	53.93	44.25	63.75	23109.7	23.60	143.84	42.82	89.25	50.52	11501.0	18.37 114.19 0.247029
3-18	45.000	0.3125	65	Slip	69.00	5,923	44.86	83.50	44.19	11084.1	23.55	143.58	33.75	128.50	33.17	4685.6	17.28 108.01 0.247029
4-18	46.000	0.2500	65	Slip	54.00	3,655	35.36	124.00	27.86	4340.1	23.18	141.45	24.00	170.00	18.84	1343.0	15.16 96.00 0.247029
Shaft Weight						32,155											

**Discrete Appurtenance Properties**

Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	Weight (lb)	No Ice EPAa (sf)	Orientation Factor	Weight (lb)	Ice EPAa (sf)	Orientation Factor
174.00	Samsung B5/B13 RRH-BR04C	3	0.80	0.000	70.30	1.875	0.50	128.26	2.789	0.50
174.00	Samsung B2/B66A RRH-BR049	3	0.80	0.000	84.40	1.875	0.50	149.04	2.789	0.50
174.00	Amphenol Antel BXA-70080-4BF-	3	0.80	-2.000	9.90	3.286	0.72	92.50	5.030	0.72
174.00	Raycap RVZDC-6627-PF-48	2	0.80	0.000	32.00	3.781	0.77	143.10	5.121	0.77
174.00	Samsung MT6407-77A	3	0.80	0.000	81.60	4.709	0.61	184.87	6.248	0.61
174.00	Commscope NHH-65B-R2B	6	0.80	0.000	43.70	8.079	0.69	220.35	10.902	0.69
170.00	Flat Low Profile Platform	1	1.00	0.000	1,500.00	26.100	1.00	2,156.42	45.443	1.00
162.00	Generic RCU (Remote Control	3	0.75	0.000	1.00	0.141	1.00	6.58	0.482	1.00
162.00	Andrew ATSBT-BOTTOM-MF	3	0.75	0.000	1.80	0.170	0.50	7.68	0.467	0.50
162.00	Ericsson KRY 112 144/1	3	0.75	0.000	11.00	0.351	0.50	21.86	0.761	0.50
162.00	Ericsson KRY 112 489/2	3	0.75	0.000	15.40	0.559	0.50	33.22	1.088	0.50
162.00	Ericsson Radio 4449 B12,B71	3	0.75	0.000	74.00	1.639	0.50	130.50	2.491	0.50
162.00	Andrew HBX-6516DS-VTM	3	1.00	0.000	9.90	3.360	0.67	77.45	5.160	0.67
162.00	RFS APXV18-203219-C (54.1" x	3	0.75	0.000	39.00	5.526	0.64	151.01	7.636	0.64
162.00	RFS APXV18-203219-C (54.1" x	3	0.75	0.000	39.00	5.940	0.67	151.01	8.208	0.67
162.00	Commscope LNX-6515DS-VTM	3	0.75	0.000	50.30	11.440	0.70	281.82	14.705	0.70
162.00	RFS APXVAARR24_43-U-NA20	3	0.75	0.000	127.90	20.243	0.63	524.08	23.986	0.63
162.00	PerfectVision PV-LPP12M-HR-	1	1.00	0.000	2,000.00	27.200	1.00	3,406.09	46.323	1.00
150.00	Powerwave Allgon LGP21901	6	0.80	-2.000	5.50	0.200	0.50	13.19	0.520	0.50
150.00	Powerwave Allgon LGP21401	6	0.80	-2.000	14.10	1.104	0.50	39.08	1.819	0.50
150.00	Ericsson RRUS 11 (Band 12)	6	0.80	-2.000	50.00	2.566	0.67	118.26	3.615	0.67
150.00	Powerwave Allgon 7770.00	6	0.80	-2.000	35.00	5.508	0.65	170.06	6.564	0.65
150.00	KMW AM-X-CD-16-65-00T-RET	2	0.80	-2.000	48.50	8.024	0.75	210.67	10.817	0.75
150.00	Powerwave Allgon P65-17-XLH-	1	0.80	-2.000	59.00	11.460	1.00	275.46	14.698	1.00
148.00	Generic SSB (27lb)	1	0.80	0.000	27.00	3.200	1.00	130.48	4.390	1.00
148.00	Flat Low Profile Platform	1	1.00	0.000	1,500.00	26.100	1.00	2,147.69	45.186	1.00
130.00	Alcatel-Lucent RRH 1900 MHz	3	0.80	-1.000	46.00	2.082	0.67	112.15	3.093	0.67
130.00	Alcatel-Lucent 800MHz RRH	3	0.80	-1.000	53.00	2.134	0.67	125.87	3.100	0.67
130.00	Alcatel-Lucent TD-RRH8x20-25	3	0.80	0.000	66.00	3.704	0.60	148.25	4.962	0.60
130.00	RFS APXV9TM14-ALU-I20	3	0.80	0.000	55.10	6.381	0.66	190.96	8.545	0.66
130.00	RFS APXV9ERR18-C (62 lbs)	3	0.80	-1.000	62.00	8.024	0.71	240.80	10.778	0.71
130.00	Flat Low Profile Platform	1	1.00	0.000	1,500.00	26.100	1.00	2,139.63	44.948	1.00
Totals	Num Loadings:32	97			10,329.60			22,602.63		

**Linear Appurtenance Properties**

Load Case Azimuth (deg) :

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Max Coax / Flat Row	Dist Between Rows (in)	Dist Between Cols (in)	Dist Azimuth (deg)	Dist From Face (in)	Exposed To Wind Carrier
0.00	174.00	2	1 5/8" Hybriflex	1.98	1.30	N 0	0.00	0.00	0	0.00	N VERIZON WIRELESS
5.00	174.00	6	1 5/8" Coax	1.98	0.82	N 0	0.00	0.00	0	0.00	N VERIZON WIRELESS
0.00	162.00	6	1 5/8" Coax	1.98	0.82	N 0	0.00	0.00	0	0.00	N METRO PCS INC
0.00	162.00	1	3/8" (0.38"- 9.5mm)	0.38	0.23	N 0	0.00	0.00	0	0.00	N METRO PCS INC

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Site Number: 376047

Code: ANSI/TIA-222-H

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Site Name: MANSFIELD CENTER 2 CT, CT Engineering Number:13668979\_C3\_01

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Customer: VERIZON WIRELESS

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5.00	162.00	1	1 5/8" (1.63"-41.3mm)	1.63	1.61	N	0	0.00	0.00	0	0.00	N	T-MOBILE
5.00	162.00	12	1 5/8" Coax	1.98	0.82	N	0	0.00	0.00	0	0.00	N	T-MOBILE
5.00	150.00	12	1 5/8" Coax	1.98	0.82	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
5.00	150.00	12	1/2" Coax	0.63	0.15	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
5.00	150.00	2	3" conduit	3.50	7.58	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	148.00	1	0.39" (10mm) Fiber	0.39	0.06	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	148.00	2	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
5.00	130.00	3	1 1/4" Hybriflex Cable	1.54	1.00	N	0	0.00	0.00	0	0.00	N	SPRINT NEXTEL
5.00	130.00	1	1 5/8" Hybriflex	1.98	1.30	N	0	0.00	0.00	0	0.00	N	SPRINT NEXTEL

Site Number: 376047

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Site Name: MANSFIELD CENTER 2 CT, CT

Engineering Number: 13668979\_C3\_01

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Customer: VERIZON WIRELESS

Segment Properties (Max Len : 5.ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )	W/t Ratio	D/t Ratio	F'y (ksi)	S (in <sup>3</sup> )	Z (in <sup>3</sup> )	Weight (lb)
0.00		0.4375	64.120	88.428	45,308.8	24.08	146.56	73.1	1391.	0.0	0.0
5.00		0.4375	62.885	86.713	42,723.3	23.58	143.74	73.7	1338.	0.0	1,489.9
10.00		0.4375	61.650	84.998	40,238.0	23.08	140.91	74.3	1285.	0.0	1,460.7
15.00		0.4375	60.415	83.283	37,851.1	22.59	138.09	74.8	1234.	0.0	1,431.6
20.00		0.4375	59.179	81.568	35,560.4	22.09	135.27	75.4	1183.	0.0	1,402.4
25.00		0.4375	57.944	79.852	33,364.1	21.59	132.44	76.0	1134.	0.0	1,373.2
30.00		0.4375	56.709	78.137	31,260.1	21.09	129.62	76.6	1085.	0.0	1,344.0
35.00		0.4375	55.474	76.422	29,246.5	20.59	126.80	77.2	1038.	0.0	1,314.8
40.00		0.4375	54.239	74.707	27,321.3	20.10	123.97	77.8	992.1	0.0	1,285.6
44.25	Bot - Section 2	0.4375	53.189	73.249	25,752.9	19.67	121.57	78.3	953.6	0.0	1,069.9
45.00		0.4375	53.004	72.992	25,482.5	19.60	121.15	78.3	946.9	0.0	349.0
50.00		0.4375	51.769	71.277	23,728.1	19.10	118.33	78.9	902.8	0.0	2,295.7
51.00	Top - Section 1	0.3750	52.272	61.768	21,017.9	22.82	139.39	74.6	792.0	0.0	452.6
55.00		0.3750	51.283	60.592	19,840.1	22.35	136.76	75.1	762.0	0.0	832.7
60.00		0.3750	50.048	59.121	18,430.8	21.77	133.46	75.8	725.3	0.0	1,018.4
65.00		0.3750	48.813	57.651	17,089.8	21.19	130.17	76.5	689.6	0.0	993.4
70.00		0.3750	47.578	56.181	15,815.5	20.61	126.87	77.2	654.7	0.0	968.4
75.00		0.3750	46.343	54.711	14,606.2	20.03	123.58	77.8	620.8	0.0	943.4
80.00		0.3750	45.108	53.241	13,460.1	19.45	120.29	78.5	587.7	0.0	918.3
83.50	Bot - Section 3	0.3750	44.243	52.212	12,694.6	19.04	117.98	79.0	565.1	0.0	628.0
85.00		0.3750	43.873	51.771	12,375.7	18.87	116.99	79.2	555.6	0.0	490.0
89.25	Top - Section 2	0.3125	43.448	42.783	10,057.4	22.75	139.03	74.6	455.9	0.0	1,365.9
90.00		0.3125	43.262	42.599	9,928.4	22.65	138.44	74.8	452.0	0.0	109.0
95.00		0.3125	42.027	41.374	9,096.2	21.95	134.49	75.6	426.3	0.0	714.4
100.0		0.3125	40.792	40.149	8,311.9	21.25	130.53	76.4	401.3	0.0	693.5
105.0		0.3125	39.557	38.924	7,574.0	20.56	126.58	77.2	377.1	0.0	672.7
110.0		0.3125	38.322	37.699	6,881.2	19.86	122.63	78.0	353.7	0.0	651.8
115.0		0.3125	37.087	36.474	6,231.9	19.16	118.68	78.9	331.0	0.0	631.0
120.0		0.3125	35.851	35.249	5,624.8	18.47	114.72	79.7	309.0	0.0	610.1
124.0	Bot - Section 4	0.3125	34.863	34.269	5,168.6	17.91	111.56	80.3	292.0	0.0	473.1
125.0		0.3125	34.616	34.024	5,058.5	17.77	110.77	80.5	287.8	0.0	210.7
128.5	Top - Section 3	0.2500	34.252	26.979	3,940.8	22.39	137.01	75.1	226.6	0.0	725.5
130.0		0.2500	33.881	26.685	3,813.4	22.13	135.52	75.4	221.7	0.0	137.0
135.0		0.2500	32.646	25.705	3,408.5	21.26	130.58	76.4	205.6	0.0	445.7
140.0		0.2500	31.411	24.725	3,033.3	20.39	125.64	77.4	190.2	0.0	429.0
145.0		0.2500	30.176	23.745	2,686.7	19.52	120.70	78.4	175.4	0.0	412.3
148.0		0.2500	29.435	23.157	2,492.0	19.00	117.74	79.1	166.8	0.0	239.4
150.0		0.2500	28.941	22.765	2,367.6	18.65	115.76	79.5	161.1	0.0	156.3
155.0		0.2500	27.705	21.785	2,074.8	17.78	110.82	80.5	147.5	0.0	379.0
160.0		0.2500	26.470	20.805	1,807.2	16.91	105.88	81.5	134.5	0.0	362.3
162.0		0.2500	25.976	20.413	1,706.9	16.56	103.90	81.9	129.4	0.0	140.3
165.0		0.2500	25.235	19.825	1,563.6	16.04	100.94	82.5	122.0	0.0	205.4
170.0		0.2500	24.000	18.845	1,343.0	15.16	96.00	82.6	110.2	0.0	329.0

32,155.2

Site Number: 376047

Code: ANSI/TIA-222-H

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Site Name: MANSFIELD CENTER 2 CT, CT

Engineering Number:13668979\_C3\_01

4/26/2021 7:51:17 AM

Customer: VERIZON WIRELESS

**Load Case:** 1.2D + 1.0W

119 mph with No Ice

23 Iterations

Gust Response Factor :1.10

Dead Load Factor :1.20

Wind Load Factor :1.00

### Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		256.6	0.0					0.0	0.0	256.6	0.0	0.0	0.0
5.00		508.2	1,787.9					0.0	53.9	508.2	1,841.8	0.0	0.0
10.00		498.3	1,752.9					0.0	338.8	498.3	2,091.6	0.0	0.0
15.00		488.3	1,717.9					0.0	338.8	488.3	2,056.6	0.0	0.0
20.00		478.3	1,682.8					0.0	338.8	478.3	2,021.6	0.0	0.0
25.00		468.3	1,647.8					0.0	338.8	468.3	1,986.6	0.0	0.0
30.00		463.8	1,612.8					0.0	338.8	463.8	1,951.6	0.0	0.0
35.00		468.6	1,577.8					0.0	338.8	468.6	1,916.6	0.0	0.0
40.00		439.9	1,542.8					0.0	338.8	439.9	1,881.5	0.0	0.0
44.25	Bot - Section 2	240.1	1,283.8					0.0	287.9	240.1	1,571.8	0.0	0.0
45.00		281.7	418.8					0.0	50.8	281.7	469.6	0.0	0.0
50.00		294.2	2,754.8					0.0	338.8	294.2	3,093.6	0.0	0.0
51.00	Top - Section 1	246.3	543.2					0.0	67.8	246.3	610.9	0.0	0.0
55.00		443.9	999.3					0.0	271.0	443.9	1,270.3	0.0	0.0
60.00		493.3	1,222.1					0.0	338.8	493.3	1,560.8	0.0	0.0
65.00		492.3	1,192.1					0.0	338.8	492.3	1,530.8	0.0	0.0
70.00		490.1	1,162.0					0.0	338.8	490.1	1,500.8	0.0	0.0
75.00		486.9	1,132.0					0.0	338.8	486.9	1,470.8	0.0	0.0
80.00		411.0	1,102.0					0.0	338.8	411.0	1,440.8	0.0	0.0
83.50	Bot - Section 3	241.2	753.6					0.0	237.1	241.2	990.7	0.0	0.0
85.00		277.8	588.0					0.0	101.6	277.8	689.6	0.0	0.0
89.25	Top - Section 2	241.0	1,639.1					0.0	287.9	241.0	1,927.0	0.0	0.0
90.00		273.9	130.7					0.0	50.8	273.9	181.6	0.0	0.0
95.00		472.5	857.2					0.0	338.8	472.5	1,196.0	0.0	0.0
100.00		465.4	832.2					0.0	338.8	465.4	1,171.0	0.0	0.0
105.00		457.6	807.2					0.0	338.8	457.6	1,146.0	0.0	0.0
110.00		449.2	782.2					0.0	338.8	449.2	1,121.0	0.0	0.0
115.00		440.3	757.2					0.0	338.8	440.3	1,095.9	0.0	0.0
120.00		388.7	732.2					0.0	338.8	388.7	1,070.9	0.0	0.0
124.00	Bot - Section 4	213.6	567.7					0.0	271.0	213.6	838.7	0.0	0.0
125.00		191.0	252.8					0.0	67.8	191.0	320.6	0.0	0.0
128.50	Top - Section 3	211.0	870.6					0.0	237.1	211.0	1,107.7	0.0	0.0
130.00	Appurtenance(s)	268.4	164.3	2,466.7	0.0	-812.6	2,815.6	0.0	101.6	2,735.1	3,081.5	0.0	0.0
135.00		405.8	534.8					0.0	313.0	405.8	847.8	0.0	0.0
140.00		394.5	514.8					0.0	313.0	394.5	827.8	0.0	0.0
145.00		308.2	494.8					0.0	313.0	308.2	807.8	0.0	0.0
148.00	Appurtenance(s)	188.4	287.3	1,184.3	0.0	0.0	1,832.4	0.0	187.8	1,372.7	2,307.5	0.0	0.0
150.00	Appurtenance(s)	256.9	187.5	1,957.1	0.0	-3,914.2	940.3	0.0	122.2	2,214.0	1,250.0	0.0	0.0
155.00		358.2	454.8					0.0	144.7	358.2	599.5	0.0	0.0
160.00		244.5	434.8					0.0	144.7	244.5	579.5	0.0	0.0
162.00	Appurtenance(s)	169.4	168.3	4,280.6	0.0	0.0	3,729.5	0.0	57.9	4,450.1	3,955.7	0.0	0.0
165.00		263.6	246.5					0.0	27.1	263.6	273.5	0.0	0.0
170.00	Appurtenance(s)	162.7	394.8	1,122.0	0.0	0.0	1,800.0	0.0	45.1	1,284.8	2,239.9	0.0	0.0
Totals:										26,304.6	59,895.3	0.00	0.00



Site Number: 376047

Code: ANSI/TIA-222-H

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Site Name: MANSFIELD CENTER 2 CT, CT

Engineering Number: 13668979\_C3\_01

4/26/2021 7:51:21 AM

Customer: VERIZON WIRELESS

**Load Case:** 1.2D + 1.0W

119 mph with No Ice

23 Iterations

Gust Response Factor : 1.10

Dead Load Factor : 1.20

Wind Load Factor : 1.00

**Calculated Forces**

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-61.15	-28.20	0.00	-3,397.05	0.00	3,397.05	5,816.03	1,551.91	8,926.27	7,628.28	0.00	0.00	0.456
5.00	-59.25	-27.80	0.00	-3,256.04	0.00	3,256.04	5,748.91	1,521.81	8,583.41	7,393.01	0.06	-0.10	0.451
10.00	-57.11	-27.40	0.00	-3,117.04	0.00	3,117.04	5,680.00	1,491.71	8,247.26	7,158.90	0.22	-0.21	0.446
15.00	-55.01	-27.01	0.00	-2,980.02	0.00	2,980.02	5,609.27	1,461.61	7,917.82	6,926.09	0.50	-0.32	0.440
20.00	-52.94	-26.62	0.00	-2,844.98	0.00	2,844.98	5,536.73	1,431.51	7,595.10	6,694.72	0.89	-0.43	0.435
25.00	-50.90	-26.24	0.00	-2,711.87	0.00	2,711.87	5,462.39	1,401.41	7,279.10	6,464.93	1.40	-0.54	0.429
30.00	-48.91	-25.85	0.00	-2,580.70	0.00	2,580.70	5,386.24	1,371.31	6,969.80	6,236.85	2.03	-0.65	0.423
35.00	-46.94	-25.45	0.00	-2,451.46	0.00	2,451.46	5,308.29	1,341.21	6,667.23	6,010.63	2.77	-0.77	0.417
40.00	-45.02	-25.07	0.00	-2,324.21	0.00	2,324.21	5,228.52	1,311.11	6,371.36	5,786.40	3.64	-0.88	0.411
44.25	-43.43	-24.85	0.00	-2,217.67	0.00	2,217.67	5,159.30	1,285.53	6,125.16	5,597.47	4.47	-0.98	0.405
45.00	-42.93	-24.61	0.00	-2,199.04	0.00	2,199.04	5,146.95	1,281.01	6,082.22	5,564.30	4.62	-1.00	0.404
50.00	-39.82	-24.31	0.00	-2,075.99	0.00	2,075.99	5,063.57	1,250.91	5,799.78	5,344.47	5.74	-1.12	0.397
51.00	-39.18	-24.09	0.00	-2,051.68	0.00	2,051.68	4,145.19	1,084.02	5,081.17	4,429.04	5.97	-1.15	0.473
55.00	-37.88	-23.70	0.00	-1,955.32	0.00	1,955.32	4,096.07	1,063.38	4,889.54	4,292.62	6.98	-1.24	0.465
60.00	-36.27	-23.26	0.00	-1,836.82	0.00	1,836.82	4,033.03	1,037.58	4,655.19	4,123.27	8.35	-1.38	0.455
65.00	-34.70	-22.81	0.00	-1,720.54	0.00	1,720.54	3,968.19	1,011.78	4,426.58	3,955.34	9.87	-1.52	0.444
70.00	-33.16	-22.36	0.00	-1,606.50	0.00	1,606.50	3,901.54	985.98	4,203.74	3,788.98	11.53	-1.65	0.433
75.00	-31.65	-21.90	0.00	-1,494.71	0.00	1,494.71	3,833.09	960.18	3,986.64	3,624.33	13.34	-1.79	0.421
80.00	-30.18	-21.51	0.00	-1,385.19	0.00	1,385.19	3,762.82	934.38	3,775.31	3,461.52	15.29	-1.93	0.409
83.50	-29.17	-21.27	0.00	-1,309.90	0.00	1,309.90	3,712.56	916.32	3,630.80	3,348.72	16.75	-2.03	0.400
85.00	-28.46	-21.01	0.00	-1,278.00	0.00	1,278.00	3,690.75	908.58	3,569.73	3,300.69	17.39	-2.08	0.395
89.25	-26.52	-20.73	0.00	-1,188.71	0.00	1,188.71	2,874.01	750.84	2,925.29	2,552.34	19.30	-2.20	0.476
90.00	-26.31	-20.49	0.00	-1,173.16	0.00	1,173.16	2,866.38	747.62	2,900.22	2,534.55	19.65	-2.22	0.473
95.00	-25.08	-20.04	0.00	-1,070.70	0.00	1,070.70	2,814.48	726.12	2,735.83	2,416.57	22.06	-2.38	0.453
100.00	-23.88	-19.59	0.00	-970.50	0.00	970.50	2,760.76	704.62	2,576.23	2,299.74	24.64	-2.54	0.431
105.00	-22.70	-19.15	0.00	-872.54	0.00	872.54	2,705.24	683.12	2,421.43	2,184.20	27.38	-2.70	0.409
110.00	-21.55	-18.70	0.00	-776.81	0.00	776.81	2,647.91	661.62	2,271.43	2,070.09	30.29	-2.85	0.384
115.00	-20.43	-18.26	0.00	-683.31	0.00	683.31	2,588.77	640.12	2,126.22	1,957.55	33.36	-3.00	0.358
120.00	-19.35	-17.85	0.00	-592.03	0.00	592.03	2,527.82	618.62	1,985.81	1,846.73	36.58	-3.15	0.329
124.00	-18.50	-17.62	0.00	-520.61	0.00	520.61	2,477.76	601.42	1,876.93	1,759.39	39.27	-3.26	0.304
125.00	-18.17	-17.43	0.00	-503.00	0.00	503.00	2,465.07	597.12	1,850.19	1,737.75	39.96	-3.29	0.298
128.50	-17.06	-17.17	0.00	-442.00	0.00	442.00	1,822.58	473.49	1,454.12	1,275.73	42.40	-3.38	0.357
130.00	-14.12	-14.28	0.00	-416.24	0.00	416.24	1,810.10	468.33	1,422.60	1,253.09	43.47	-3.42	0.341
135.00	-13.27	-13.86	0.00	-344.84	0.00	344.84	1,767.32	451.13	1,320.04	1,178.21	47.13	-3.56	0.301
140.00	-12.44	-13.44	0.00	-275.56	0.00	275.56	1,722.74	433.93	1,221.31	1,104.37	50.93	-3.69	0.258
145.00	-11.63	-13.09	0.00	-208.38	0.00	208.38	1,676.35	416.73	1,126.42	1,031.69	54.86	-3.81	0.210
148.00	-9.41	-11.58	0.00	-169.10	0.00	169.10	1,647.65	406.41	1,071.33	988.71	57.27	-3.87	0.178
150.00	-8.31	-9.29	0.00	-145.94	0.00	145.94	1,628.16	399.53	1,035.37	960.33	58.90	-3.90	0.158
155.00	-7.72	-8.90	0.00	-99.48	0.00	99.48	1,578.15	382.33	948.15	890.42	63.03	-3.98	0.117
160.00	-7.16	-8.62	0.00	-54.97	0.00	54.97	1,526.34	365.13	864.77	822.09	67.22	-4.03	0.072
162.00	-3.52	-3.90	0.00	-37.73	0.00	37.73	1,505.11	358.25	832.50	795.24	68.91	-4.04	0.050
165.00	-3.27	-3.62	0.00	-26.02	0.00	26.02	1,472.72	347.93	785.23	755.50	71.45	-4.06	0.037
170.00	0.00	-3.38	0.00	-7.90	0.00	7.90	1,400.09	330.73	709.52	682.38	75.71	-4.08	0.012

Site Number: 376047

Code: ANSI/TIA-222-H

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Site Name: MANSFIELD CENTER 2 CT, CT

Engineering Number: 13668979\_C3\_01

4/26/2021 7:51:21 AM

Customer: VERIZON WIRELESS

**Load Case:** 0.9D + 1.0W

119 mph with No Ice (Reduced DL)

23 Iterations

Gust Response Factor : 1.10

Dead Load Factor : 0.90

Wind Load Factor : 1.00

**Applied Segment Forces Summary**

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		256.6	0.0					0.0	0.0	256.6	0.0	0.0	0.0
5.00		508.2	1,340.9					0.0	40.5	508.2	1,381.4	0.0	0.0
10.00		498.3	1,314.7					0.0	254.1	498.3	1,568.7	0.0	0.0
15.00		488.3	1,288.4					0.0	254.1	488.3	1,542.5	0.0	0.0
20.00		478.3	1,262.1					0.0	254.1	478.3	1,516.2	0.0	0.0
25.00		468.3	1,235.9					0.0	254.1	468.3	1,489.9	0.0	0.0
30.00		463.8	1,209.6					0.0	254.1	463.8	1,463.7	0.0	0.0
35.00		468.6	1,183.3					0.0	254.1	468.6	1,437.4	0.0	0.0
40.00		439.9	1,157.1					0.0	254.1	439.9	1,411.2	0.0	0.0
44.25	Bot - Section 2	240.1	962.9					0.0	216.0	240.1	1,178.8	0.0	0.0
45.00		281.7	314.1					0.0	38.1	281.7	352.2	0.0	0.0
50.00		294.2	2,066.1					0.0	254.1	294.2	2,320.2	0.0	0.0
51.00	Top - Section 1	246.3	407.4					0.0	50.8	246.3	458.2	0.0	0.0
55.00		443.9	749.4					0.0	203.3	443.9	952.7	0.0	0.0
60.00		493.3	916.6					0.0	254.1	493.3	1,170.6	0.0	0.0
65.00		492.3	894.0					0.0	254.1	492.3	1,148.1	0.0	0.0
70.00		490.1	871.5					0.0	254.1	490.1	1,125.6	0.0	0.0
75.00		486.9	849.0					0.0	254.1	486.9	1,103.1	0.0	0.0
80.00		411.0	826.5					0.0	254.1	411.0	1,080.6	0.0	0.0
83.50	Bot - Section 3	241.2	565.2					0.0	177.8	241.2	743.0	0.0	0.0
85.00		277.8	441.0					0.0	76.2	277.8	517.2	0.0	0.0
89.25	Top - Section 2	241.0	1,229.3					0.0	216.0	241.0	1,445.3	0.0	0.0
90.00		273.9	98.1					0.0	38.1	273.9	136.2	0.0	0.0
95.00		472.5	642.9					0.0	254.1	472.5	897.0	0.0	0.0
100.00		465.4	624.2					0.0	254.1	465.4	878.2	0.0	0.0
105.00		457.6	605.4					0.0	254.1	457.6	859.5	0.0	0.0
110.00		449.2	586.6					0.0	254.1	449.2	840.7	0.0	0.0
115.00		440.3	567.9					0.0	254.1	440.3	822.0	0.0	0.0
120.00		388.7	549.1					0.0	254.1	388.7	803.2	0.0	0.0
124.00	Bot - Section 4	213.6	425.8					0.0	203.3	213.6	629.1	0.0	0.0
125.00		191.0	189.6					0.0	50.8	191.0	240.4	0.0	0.0
128.50	Top - Section 3	211.0	653.0					0.0	177.8	211.0	830.8	0.0	0.0
130.00	Appurtenance(s)	268.4	123.3	2,466.7	0.0	-812.6	2,111.7	0.0	76.2	2,735.1	2,311.2	0.0	0.0
135.00		405.8	401.1					0.0	234.7	405.8	635.8	0.0	0.0
140.00		394.5	386.1					0.0	234.7	394.5	620.8	0.0	0.0
145.00		308.2	371.1					0.0	234.7	308.2	605.8	0.0	0.0
148.00	Appurtenance(s)	188.4	215.5	1,184.3	0.0	0.0	1,374.3	0.0	140.8	1,372.7	1,730.6	0.0	0.0
150.00	Appurtenance(s)	256.9	140.6	1,957.1	0.0	-3,914.2	705.2	0.0	91.7	2,214.0	937.5	0.0	0.0
155.00		358.2	341.1					0.0	108.5	358.2	449.6	0.0	0.0
160.00		244.5	326.1					0.0	108.5	244.5	434.6	0.0	0.0
162.00	Appurtenance(s)	169.4	126.2	4,280.6	0.0	0.0	2,797.1	0.0	43.4	4,450.1	2,966.8	0.0	0.0
165.00		263.6	184.8					0.0	20.3	263.6	205.1	0.0	0.0
170.00	Appurtenance(s)	162.7	296.1	1,122.0	0.0	0.0	1,350.0	0.0	33.8	1,284.8	1,679.9	0.0	0.0
Totals:										26,304.6	44,921.5	0.00	0.00

Site Number: 376047

Code: ANSI/TIA-222-H

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Site Name: MANSFIELD CENTER 2 CT, CT

Engineering Number: 13668979\_C3\_01

4/26/2021 7:51:24 AM

Customer: VERIZON WIRELESS

**Load Case:** 0.9D + 1.0W

119 mph with No Ice (Reduced DL)

23 Iterations

Gust Response Factor : 1.10

Dead Load Factor : 0.90

Wind Load Factor : 1.00

**Calculated Forces**

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-45.85	-28.19	0.00	-3,362.28	0.00	3,362.28	5,816.03	1,551.91	8,926.27	7,628.28	0.00	0.00	0.449
5.00	-44.42	-27.76	0.00	-3,221.34	0.00	3,221.34	5,748.91	1,521.81	8,583.41	7,393.01	0.06	-0.10	0.444
10.00	-42.80	-27.34	0.00	-3,082.55	0.00	3,082.55	5,680.00	1,491.71	8,247.26	7,158.90	0.22	-0.21	0.438
15.00	-41.21	-26.92	0.00	-2,945.88	0.00	2,945.88	5,609.27	1,461.61	7,917.82	6,926.09	0.50	-0.31	0.433
20.00	-39.65	-26.50	0.00	-2,811.29	0.00	2,811.29	5,536.73	1,431.51	7,595.10	6,694.72	0.88	-0.42	0.427
25.00	-38.11	-26.10	0.00	-2,678.77	0.00	2,678.77	5,462.39	1,401.41	7,279.10	6,464.93	1.39	-0.53	0.422
30.00	-36.61	-25.69	0.00	-2,548.29	0.00	2,548.29	5,386.24	1,371.31	6,969.80	6,236.85	2.00	-0.64	0.416
35.00	-35.12	-25.27	0.00	-2,419.84	0.00	2,419.84	5,308.29	1,341.21	6,667.23	6,010.63	2.74	-0.76	0.410
40.00	-33.67	-24.88	0.00	-2,293.47	0.00	2,293.47	5,228.52	1,311.11	6,371.36	5,786.40	3.60	-0.87	0.403
44.25	-32.47	-24.65	0.00	-2,187.74	0.00	2,187.74	5,159.30	1,285.53	6,125.16	5,597.47	4.42	-0.97	0.398
45.00	-32.10	-24.40	0.00	-2,169.25	0.00	2,169.25	5,146.95	1,281.01	6,082.22	5,564.30	4.57	-0.99	0.396
50.00	-29.75	-24.10	0.00	-2,047.25	0.00	2,047.25	5,063.57	1,250.91	5,799.78	5,344.47	5.67	-1.11	0.389
51.00	-29.27	-23.88	0.00	-2,023.15	0.00	2,023.15	4,145.19	1,084.02	5,081.17	4,429.04	5.91	-1.13	0.464
55.00	-28.28	-23.47	0.00	-1,927.64	0.00	1,927.64	4,096.07	1,063.38	4,889.54	4,292.62	6.89	-1.23	0.456
60.00	-27.07	-23.02	0.00	-1,810.28	0.00	1,810.28	4,033.03	1,037.58	4,655.19	4,123.27	8.25	-1.36	0.446
65.00	-25.88	-22.56	0.00	-1,695.21	0.00	1,695.21	3,968.19	1,011.78	4,426.58	3,955.34	9.75	-1.50	0.436
70.00	-24.72	-22.09	0.00	-1,582.43	0.00	1,582.43	3,901.54	985.98	4,203.74	3,788.98	11.39	-1.63	0.424
75.00	-23.58	-21.63	0.00	-1,471.96	0.00	1,471.96	3,833.09	960.18	3,986.64	3,624.33	13.18	-1.77	0.413
80.00	-22.47	-21.23	0.00	-1,363.81	0.00	1,363.81	3,762.82	934.38	3,775.31	3,461.52	15.10	-1.91	0.400
83.50	-21.71	-20.99	0.00	-1,289.50	0.00	1,289.50	3,712.56	916.32	3,630.80	3,348.72	16.54	-2.01	0.391
85.00	-21.17	-20.73	0.00	-1,258.01	0.00	1,258.01	3,690.75	908.58	3,569.73	3,300.69	17.18	-2.05	0.387
89.25	-19.71	-20.46	0.00	-1,169.92	0.00	1,169.92	2,874.01	750.84	2,925.29	2,552.34	19.06	-2.17	0.466
90.00	-19.55	-20.21	0.00	-1,154.58	0.00	1,154.58	2,866.38	747.62	2,900.22	2,534.55	19.40	-2.19	0.463
95.00	-18.62	-19.75	0.00	-1,053.54	0.00	1,053.54	2,814.48	726.12	2,735.83	2,416.57	21.78	-2.35	0.443
100.00	-17.71	-19.30	0.00	-954.78	0.00	954.78	2,760.76	704.62	2,576.23	2,299.74	24.32	-2.50	0.422
105.00	-16.82	-18.85	0.00	-858.29	0.00	858.29	2,705.24	683.12	2,421.43	2,184.20	27.03	-2.66	0.400
110.00	-15.95	-18.40	0.00	-764.05	0.00	764.05	2,647.91	661.62	2,271.43	2,070.09	29.90	-2.81	0.376
115.00	-15.11	-17.96	0.00	-672.05	0.00	672.05	2,588.77	640.12	2,126.22	1,957.55	32.92	-2.96	0.350
120.00	-14.29	-17.56	0.00	-582.26	0.00	582.26	2,527.82	618.62	1,985.81	1,846.73	36.10	-3.10	0.322
124.00	-13.65	-17.33	0.00	-512.03	0.00	512.03	2,477.76	601.42	1,876.93	1,759.39	38.75	-3.21	0.297
125.00	-13.41	-17.14	0.00	-494.70	0.00	494.70	2,465.07	597.12	1,850.19	1,737.75	39.42	-3.24	0.291
128.50	-12.57	-16.89	0.00	-434.72	0.00	434.72	1,822.58	473.49	1,454.12	1,275.73	41.83	-3.33	0.349
130.00	-10.40	-14.04	0.00	-409.38	0.00	409.38	1,810.10	468.33	1,422.60	1,253.09	42.89	-3.37	0.333
135.00	-9.76	-13.62	0.00	-339.16	0.00	339.16	1,767.32	451.13	1,320.04	1,178.21	46.49	-3.51	0.294
140.00	-9.13	-13.21	0.00	-271.04	0.00	271.04	1,722.74	433.93	1,221.31	1,104.37	50.24	-3.64	0.252
145.00	-8.53	-12.88	0.00	-204.99	0.00	204.99	1,676.35	416.73	1,126.42	1,031.69	54.11	-3.75	0.205
148.00	-6.89	-11.40	0.00	-166.37	0.00	166.37	1,647.65	406.41	1,071.33	988.71	56.49	-3.81	0.173
150.00	-6.09	-9.13	0.00	-143.57	0.00	143.57	1,628.16	399.53	1,035.37	960.33	58.09	-3.85	0.154
155.00	-5.66	-8.75	0.00	-97.91	0.00	97.91	1,578.15	382.33	948.15	890.42	62.16	-3.92	0.114
160.00	-5.23	-8.48	0.00	-54.16	0.00	54.16	1,526.34	365.13	864.77	822.09	66.29	-3.97	0.070
162.00	-2.58	-3.84	0.00	-37.20	0.00	37.20	1,505.11	358.25	832.50	795.24	67.95	-3.98	0.049
165.00	-2.40	-3.56	0.00	-25.69	0.00	25.69	1,472.72	347.93	785.23	755.50	70.46	-4.00	0.036
170.00	0.00	-3.38	0.00	-7.90	0.00	7.90	1,400.09	330.73	709.52	682.38	74.66	-4.02	0.012

Site Number: 376047

Code: ANSI/TIA-222-H

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Site Name: MANSFIELD CENTER 2 CT, CT

Engineering Number: 13668979\_C3\_01

4/26/2021 7:51:24 AM

Customer: VERIZON WIRELESS

**Load Case:** 1.2D + 1.0Di + 1.0Wi

50 mph with 1.50 in Radial Ice

22 Iterations

Gust Response Factor : 1.10

Ice Dead Load Factor : 1.00

Dead Load Factor : 1.20

Ice Importance Factor : 1.00

Wind Load Factor : 1.00

**Applied Segment Forces Summary**

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		77.1	0.0					0.0	0.0	77.1	0.0	0.0	0.0
5.00		153.2	2,252.9					0.0	53.9	153.2	2,306.8	0.0	0.0
10.00		150.7	2,262.9					0.0	338.8	150.7	2,601.7	0.0	0.0
15.00		148.1	2,244.7					0.0	338.8	148.1	2,583.4	0.0	0.0
20.00		145.4	2,217.2					0.0	338.8	145.4	2,555.9	0.0	0.0
25.00		142.6	2,184.9					0.0	338.8	142.6	2,523.7	0.0	0.0
30.00		141.5	2,149.6					0.0	338.8	141.5	2,488.4	0.0	0.0
35.00		143.3	2,112.3					0.0	338.8	143.3	2,451.1	0.0	0.0
40.00		134.7	2,073.4					0.0	338.8	134.7	2,412.2	0.0	0.0
44.25	Bot - Section 2	73.6	1,731.7					0.0	287.9	73.6	2,019.7	0.0	0.0
45.00		86.4	499.2					0.0	50.8	86.4	550.0	0.0	0.0
50.00		90.3	3,281.8					0.0	338.8	90.3	3,620.5	0.0	0.0
51.00	Top - Section 1	75.7	648.7					0.0	67.8	75.7	716.5	0.0	0.0
55.00		136.7	1,415.8					0.0	271.0	136.7	1,686.8	0.0	0.0
60.00		152.1	1,734.9					0.0	338.8	152.1	2,073.7	0.0	0.0
65.00		152.1	1,696.9					0.0	338.8	152.1	2,035.7	0.0	0.0
70.00		151.8	1,658.5					0.0	338.8	151.8	1,997.2	0.0	0.0
75.00		151.1	1,619.6					0.0	338.8	151.1	1,958.3	0.0	0.0
80.00		127.8	1,580.3					0.0	338.8	127.8	1,919.0	0.0	0.0
83.50	Bot - Section 3	75.1	1,084.0					0.0	237.1	75.1	1,321.1	0.0	0.0
85.00		86.6	730.8					0.0	101.6	86.6	832.5	0.0	0.0
89.25	Top - Section 2	75.1	2,036.0					0.0	287.9	75.1	2,323.9	0.0	0.0
90.00		85.6	200.7					0.0	50.8	85.6	251.5	0.0	0.0
95.00		147.8	1,312.2					0.0	338.8	147.8	1,651.0	0.0	0.0
100.00		146.0	1,276.8					0.0	338.8	146.0	1,615.5	0.0	0.0
105.00		143.9	1,241.1					0.0	338.8	143.9	1,579.8	0.0	0.0
110.00		141.7	1,205.2					0.0	338.8	141.7	1,543.9	0.0	0.0
115.00		139.3	1,169.0					0.0	338.8	139.3	1,507.8	0.0	0.0
120.00		123.3	1,132.7					0.0	338.8	123.3	1,471.5	0.0	0.0
124.00	Bot - Section 4	67.9	881.0					0.0	271.0	67.9	1,152.0	0.0	0.0
125.00		60.8	331.8					0.0	67.8	60.8	399.6	0.0	0.0
128.50	Top - Section 3	67.2	1,141.2					0.0	237.1	67.2	1,378.3	0.0	0.0
130.00	Appurtenance(s)	85.8	279.3	660.0	0.0	-198.7	4,736.2	0.0	101.6	745.8	5,117.2	0.0	0.0
135.00		130.0	905.8					0.0	313.0	130.0	1,218.8	0.0	0.0
140.00		126.9	873.8					0.0	313.0	126.9	1,186.8	0.0	0.0
145.00		99.5	841.7					0.0	313.0	99.5	1,154.7	0.0	0.0
148.00	Appurtenance(s)	61.0	491.2	355.2	0.0	0.0	2,475.7	0.0	187.8	416.3	3,154.7	0.0	0.0
150.00	Appurtenance(s)	83.5	321.5	455.6	0.0	-911.2	2,732.8	0.0	122.2	539.2	3,176.5	0.0	0.0
155.00		116.9	777.1					0.0	144.7	116.9	921.9	0.0	0.0
160.00		80.1	744.7					0.0	144.7	80.1	889.4	0.0	0.0
162.00	Appurtenance(s)	55.8	290.4	1,075.8	0.0	0.0	7,549.8	0.0	57.9	1,131.6	7,898.1	0.0	0.0
165.00		87.1	425.0					0.0	27.1	87.1	452.0	0.0	0.0
170.00	Appurtenance(s)	53.9	679.4	344.9	0.0	0.0	2,363.4	0.0	45.1	398.8	3,087.9	0.0	0.0
Totals:										7,666.89	83,786.8	0.00	0.00

Site Number: 376047

Code: ANSI/TIA-222-H

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Site Name: MANSFIELD CENTER 2 CT, CT

Engineering Number: 13668979\_C3\_01

4/26/2021 7:51:27 AM

Customer: VERIZON WIRELESS

**Load Case:** 1.2D + 1.0Di + 1.0Wi

50 mph with 1.50 in Radial Ice

22 Iterations

Gust Response Factor : 1.10

Ice Dead Load Factor : 1.00

Dead Load Factor : 1.20

Ice Importance Factor : 1.00

Wind Load Factor : 1.00

**Calculated Forces**

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-86.96	-8.12	0.00	-979.47	0.00	979.47	5,816.03	1,551.91	8,926.27	7,628.28	0.00	0.00	0.143
5.00	-84.65	-8.01	0.00	-938.85	0.00	938.85	5,748.91	1,521.81	8,583.41	7,393.01	0.02	-0.03	0.142
10.00	-82.04	-7.91	0.00	-898.78	0.00	898.78	5,680.00	1,491.71	8,247.26	7,158.90	0.06	-0.06	0.140
15.00	-79.45	-7.80	0.00	-859.25	0.00	859.25	5,609.27	1,461.61	7,917.82	6,926.09	0.14	-0.09	0.138
20.00	-76.89	-7.69	0.00	-820.26	0.00	820.26	5,536.73	1,431.51	7,595.10	6,694.72	0.26	-0.12	0.136
25.00	-74.37	-7.58	0.00	-781.81	0.00	781.81	5,462.39	1,401.41	7,279.10	6,464.93	0.40	-0.16	0.135
30.00	-71.87	-7.48	0.00	-743.90	0.00	743.90	5,386.24	1,371.31	6,969.80	6,236.85	0.58	-0.19	0.133
35.00	-69.42	-7.36	0.00	-706.52	0.00	706.52	5,308.29	1,341.21	6,667.23	6,010.63	0.80	-0.22	0.131
40.00	-67.00	-7.26	0.00	-669.71	0.00	669.71	5,228.52	1,311.11	6,371.36	5,786.40	1.05	-0.25	0.129
44.25	-64.98	-7.19	0.00	-638.87	0.00	638.87	5,159.30	1,285.53	6,125.16	5,597.47	1.29	-0.28	0.127
45.00	-64.43	-7.12	0.00	-633.48	0.00	633.48	5,146.95	1,281.01	6,082.22	5,564.30	1.33	-0.29	0.126
50.00	-60.81	-7.04	0.00	-597.85	0.00	597.85	5,063.57	1,250.91	5,799.78	5,344.47	1.65	-0.32	0.124
51.00	-60.09	-6.98	0.00	-590.82	0.00	590.82	4,145.19	1,084.02	5,081.17	4,429.04	1.72	-0.33	0.148
55.00	-58.40	-6.86	0.00	-562.91	0.00	562.91	4,096.07	1,063.38	4,889.54	4,292.62	2.01	-0.36	0.145
60.00	-56.32	-6.74	0.00	-528.60	0.00	528.60	4,033.03	1,037.58	4,655.19	4,123.27	2.41	-0.40	0.142
65.00	-54.28	-6.61	0.00	-494.92	0.00	494.92	3,968.19	1,011.78	4,426.58	3,955.34	2.84	-0.44	0.139
70.00	-52.28	-6.48	0.00	-461.89	0.00	461.89	3,901.54	985.98	4,203.74	3,788.98	3.32	-0.48	0.135
75.00	-50.32	-6.34	0.00	-429.51	0.00	429.51	3,833.09	960.18	3,986.64	3,624.33	3.84	-0.52	0.132
80.00	-48.40	-6.23	0.00	-397.79	0.00	397.79	3,762.82	934.38	3,775.31	3,461.52	4.41	-0.56	0.128
83.50	-47.08	-6.15	0.00	-376.00	0.00	376.00	3,712.56	916.32	3,630.80	3,348.72	4.83	-0.59	0.125
85.00	-46.24	-6.08	0.00	-366.77	0.00	366.77	3,690.75	908.58	3,569.73	3,300.69	5.01	-0.60	0.124
89.25	-43.92	-5.99	0.00	-340.94	0.00	340.94	2,874.01	750.84	2,925.29	2,552.34	5.56	-0.63	0.149
90.00	-43.66	-5.93	0.00	-336.44	0.00	336.44	2,866.38	747.62	2,900.22	2,534.55	5.66	-0.64	0.148
95.00	-42.01	-5.79	0.00	-306.81	0.00	306.81	2,814.48	726.12	2,735.83	2,416.57	6.36	-0.69	0.142
100.00	-40.39	-5.66	0.00	-277.85	0.00	277.85	2,760.76	704.62	2,576.23	2,299.74	7.10	-0.73	0.136
105.00	-38.81	-5.52	0.00	-249.56	0.00	249.56	2,705.24	683.12	2,421.43	2,184.20	7.89	-0.78	0.129
110.00	-37.26	-5.39	0.00	-221.93	0.00	221.93	2,647.91	661.62	2,271.43	2,070.09	8.72	-0.82	0.121
115.00	-35.75	-5.25	0.00	-194.99	0.00	194.99	2,588.77	640.12	2,126.22	1,957.55	9.61	-0.86	0.113
120.00	-34.28	-5.13	0.00	-168.71	0.00	168.71	2,527.82	618.62	1,985.81	1,846.73	10.53	-0.90	0.105
124.00	-33.13	-5.06	0.00	-148.19	0.00	148.19	2,477.76	601.42	1,876.93	1,759.39	11.31	-0.94	0.098
125.00	-32.73	-5.00	0.00	-143.14	0.00	143.14	2,465.07	597.12	1,850.19	1,737.75	11.50	-0.94	0.096
128.50	-31.35	-4.92	0.00	-125.64	0.00	125.64	1,822.58	473.49	1,454.12	1,275.73	12.21	-0.97	0.116
130.00	-26.25	-4.10	0.00	-118.26	0.00	118.26	1,810.10	468.33	1,422.60	1,253.09	12.51	-0.98	0.109
135.00	-25.03	-3.96	0.00	-97.78	0.00	97.78	1,767.32	451.13	1,320.04	1,178.21	13.56	-1.02	0.097
140.00	-23.84	-3.83	0.00	-77.96	0.00	77.96	1,722.74	433.93	1,221.31	1,104.37	14.66	-1.06	0.085
145.00	-22.69	-3.72	0.00	-58.82	0.00	58.82	1,676.35	416.73	1,126.42	1,031.69	15.78	-1.09	0.071
148.00	-19.54	-3.25	0.00	-47.67	0.00	47.67	1,647.65	406.41	1,071.33	988.71	16.47	-1.11	0.060
150.00	-16.37	-2.65	0.00	-41.18	0.00	41.18	1,628.16	399.53	1,035.37	960.33	16.94	-1.12	0.053
155.00	-15.45	-2.52	0.00	-27.94	0.00	27.94	1,578.15	382.33	948.15	890.42	18.12	-1.14	0.041
160.00	-14.56	-2.42	0.00	-15.34	0.00	15.34	1,526.34	365.13	864.77	822.09	19.33	-1.15	0.028
162.00	-6.69	-1.13	0.00	-10.50	0.00	10.50	1,505.11	358.25	832.50	795.24	19.81	-1.16	0.018
165.00	-6.24	-1.04	0.00	-7.10	0.00	7.10	1,472.72	347.93	785.23	755.50	20.54	-1.16	0.014
170.00	0.00	-0.91	0.00	-1.91	0.00	1.91	1,400.09	330.73	709.52	682.38	21.76	-1.17	0.003

Site Number: 376047

Code: ANSI/TIA-222-H

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Site Name: MANSFIELD CENTER 2 CT, CT

Engineering Number: 13668979\_C3\_01

4/26/2021 7:51:27 AM

Customer: VERIZON WIRELESS

**Load Case:** 1.0D + 1.0W

Serviceability 60 mph

22 Iterations

Gust Response Factor : 1.10

Dead Load Factor : 1.00

Wind Load Factor : 1.00

**Applied Segment Forces Summary**

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		58.4	0.0					0.0	0.0	58.4	0.0	0.0	0.0
5.00		115.6	1,489.9					0.0	44.9	115.6	1,534.9	0.0	0.0
10.00		113.3	1,460.7					0.0	282.3	113.3	1,743.0	0.0	0.0
15.00		111.1	1,431.6					0.0	282.3	111.1	1,713.9	0.0	0.0
20.00		108.8	1,402.4					0.0	282.3	108.8	1,684.7	0.0	0.0
25.00		106.5	1,373.2					0.0	282.3	106.5	1,655.5	0.0	0.0
30.00		105.5	1,344.0					0.0	282.3	105.5	1,626.3	0.0	0.0
35.00		106.6	1,314.8					0.0	282.3	106.6	1,597.1	0.0	0.0
40.00		100.1	1,285.6					0.0	282.3	100.1	1,567.9	0.0	0.0
44.25	Bot - Section 2	54.6	1,069.9					0.0	240.0	54.6	1,309.8	0.0	0.0
45.00		64.1	349.0					0.0	42.3	64.1	391.4	0.0	0.0
50.00		66.9	2,295.7					0.0	282.3	66.9	2,578.0	0.0	0.0
51.00	Top - Section 1	56.0	452.6					0.0	56.5	56.0	509.1	0.0	0.0
55.00		101.0	832.7					0.0	225.8	101.0	1,058.6	0.0	0.0
60.00		112.2	1,018.4					0.0	282.3	112.2	1,300.7	0.0	0.0
65.00		112.0	993.4					0.0	282.3	112.0	1,275.7	0.0	0.0
70.00		111.5	968.4					0.0	282.3	111.5	1,250.7	0.0	0.0
75.00		110.8	943.4					0.0	282.3	110.8	1,225.7	0.0	0.0
80.00		93.5	918.3					0.0	282.3	93.5	1,200.6	0.0	0.0
83.50	Bot - Section 3	54.9	628.0					0.0	197.6	54.9	825.6	0.0	0.0
85.00		63.2	490.0					0.0	84.7	63.2	574.7	0.0	0.0
89.25	Top - Section 2	54.8	1,365.9					0.0	240.0	54.8	1,605.9	0.0	0.0
90.00		62.3	109.0					0.0	42.3	62.3	151.3	0.0	0.0
95.00		107.5	714.4					0.0	282.3	107.5	996.7	0.0	0.0
100.00		105.8	693.5					0.0	282.3	105.8	975.8	0.0	0.0
105.00		104.1	672.7					0.0	282.3	104.1	955.0	0.0	0.0
110.00		102.2	651.8					0.0	282.3	102.2	934.1	0.0	0.0
115.00		100.2	631.0					0.0	282.3	100.2	913.3	0.0	0.0
120.00		88.4	610.1					0.0	282.3	88.4	892.4	0.0	0.0
124.00	Bot - Section 4	48.6	473.1					0.0	225.8	48.6	698.9	0.0	0.0
125.00		43.4	210.7					0.0	56.5	43.4	267.1	0.0	0.0
128.50	Top - Section 3	48.0	725.5					0.0	197.6	48.0	923.1	0.0	0.0
130.00	Appurtenance(s)	61.0	137.0	561.1	0.0	-184.8	2,346.3	0.0	84.7	622.1	2,567.9	0.0	0.0
135.00		92.3	445.7					0.0	260.8	92.3	706.5	0.0	0.0
140.00		89.7	429.0					0.0	260.8	89.7	689.8	0.0	0.0
145.00		70.1	412.3					0.0	260.8	70.1	673.1	0.0	0.0
148.00	Appurtenance(s)	42.9	239.4	269.4	0.0	0.0	1,527.0	0.0	156.5	312.2	1,922.9	0.0	0.0
150.00	Appurtenance(s)	58.4	156.3	445.2	0.0	-890.3	783.6	0.0	101.8	503.6	1,041.7	0.0	0.0
155.00		81.5	379.0					0.0	120.6	81.5	499.6	0.0	0.0
160.00		55.6	362.3					0.0	120.6	55.6	482.9	0.0	0.0
162.00	Appurtenance(s)	38.5	140.3	973.7	0.0	0.0	3,107.9	0.0	48.2	1,012.2	3,296.4	0.0	0.0
165.00		60.0	205.4					0.0	22.6	60.0	227.9	0.0	0.0
170.00	Appurtenance(s)	37.0	329.0	255.2	0.0	0.0	1,500.0	0.0	37.6	292.2	1,866.6	0.0	0.0
Totals:										5,983.25	49,912.7	0.00	0.00

Site Number: 376047

Code: ANSI/TIA-222-H

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Site Name: MANSFIELD CENTER 2 CT, CT

Engineering Number: 13668979\_C3\_01

4/26/2021 7:51:30 AM

Customer: VERIZON WIRELESS

**Load Case:** 1.0D + 1.0W

Serviceability 60 mph

22 Iterations

Gust Response Factor : 1.10

Dead Load Factor : 1.00

Wind Load Factor : 1.00

**Calculated Forces**

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-50.98	-6.41	0.00	-767.82	0.00	767.82	5,816.03	1,551.91	8,926.27	7,628.28	0.00	0.00	0.109
5.00	-49.44	-6.32	0.00	-735.76	0.00	735.76	5,748.91	1,521.81	8,583.41	7,393.01	0.01	-0.02	0.108
10.00	-47.69	-6.22	0.00	-704.17	0.00	704.17	5,680.00	1,491.71	8,247.26	7,158.90	0.05	-0.05	0.107
15.00	-45.98	-6.13	0.00	-673.06	0.00	673.06	5,609.27	1,461.61	7,917.82	6,926.09	0.11	-0.07	0.105
20.00	-44.29	-6.04	0.00	-642.42	0.00	642.42	5,536.73	1,431.51	7,595.10	6,694.72	0.20	-0.10	0.104
25.00	-42.63	-5.95	0.00	-612.23	0.00	612.23	5,462.39	1,401.41	7,279.10	6,464.93	0.32	-0.12	0.103
30.00	-41.00	-5.86	0.00	-582.50	0.00	582.50	5,386.24	1,371.31	6,969.80	6,236.85	0.46	-0.15	0.101
35.00	-39.40	-5.76	0.00	-553.22	0.00	553.22	5,308.29	1,341.21	6,667.23	6,010.63	0.63	-0.17	0.099
40.00	-37.83	-5.67	0.00	-524.41	0.00	524.41	5,228.52	1,311.11	6,371.36	5,786.40	0.82	-0.20	0.098
44.25	-36.52	-5.62	0.00	-500.30	0.00	500.30	5,159.30	1,285.53	6,125.16	5,597.47	1.01	-0.22	0.096
45.00	-36.13	-5.57	0.00	-496.09	0.00	496.09	5,146.95	1,281.01	6,082.22	5,564.30	1.04	-0.23	0.096
50.00	-33.55	-5.50	0.00	-468.25	0.00	468.25	5,063.57	1,250.91	5,799.78	5,344.47	1.30	-0.25	0.094
51.00	-33.04	-5.45	0.00	-462.76	0.00	462.76	4,145.19	1,084.02	5,081.17	4,429.04	1.35	-0.26	0.112
55.00	-31.98	-5.36	0.00	-440.96	0.00	440.96	4,096.07	1,063.38	4,889.54	4,292.62	1.58	-0.28	0.111
60.00	-30.68	-5.25	0.00	-414.18	0.00	414.18	4,033.03	1,037.58	4,655.19	4,123.27	1.89	-0.31	0.108
65.00	-29.40	-5.15	0.00	-387.91	0.00	387.91	3,968.19	1,011.78	4,426.58	3,955.34	2.23	-0.34	0.106
70.00	-28.15	-5.05	0.00	-362.15	0.00	362.15	3,901.54	985.98	4,203.74	3,788.98	2.60	-0.37	0.103
75.00	-26.92	-4.94	0.00	-336.92	0.00	336.92	3,833.09	960.18	3,986.64	3,624.33	3.01	-0.40	0.100
80.00	-25.72	-4.85	0.00	-312.20	0.00	312.20	3,762.82	934.38	3,775.31	3,461.52	3.45	-0.44	0.097
83.50	-24.89	-4.80	0.00	-295.22	0.00	295.22	3,712.56	916.32	3,630.80	3,348.72	3.78	-0.46	0.095
85.00	-24.31	-4.74	0.00	-288.02	0.00	288.02	3,690.75	908.58	3,569.73	3,300.69	3.93	-0.47	0.094
89.25	-22.71	-4.68	0.00	-267.89	0.00	267.89	2,874.01	750.84	2,925.29	2,552.34	4.36	-0.50	0.113
90.00	-22.56	-4.62	0.00	-264.38	0.00	264.38	2,866.38	747.62	2,900.22	2,534.55	4.44	-0.50	0.112
95.00	-21.56	-4.52	0.00	-241.27	0.00	241.27	2,814.48	726.12	2,735.83	2,416.57	4.98	-0.54	0.108
100.00	-20.58	-4.42	0.00	-218.68	0.00	218.68	2,760.76	704.62	2,576.23	2,299.74	5.56	-0.57	0.103
105.00	-19.62	-4.31	0.00	-196.61	0.00	196.61	2,705.24	683.12	2,421.43	2,184.20	6.18	-0.61	0.097
110.00	-18.69	-4.21	0.00	-175.04	0.00	175.04	2,647.91	661.62	2,271.43	2,070.09	6.84	-0.64	0.092
115.00	-17.77	-4.11	0.00	-153.97	0.00	153.97	2,588.77	640.12	2,126.22	1,957.55	7.53	-0.68	0.086
120.00	-16.88	-4.02	0.00	-133.41	0.00	133.41	2,527.82	618.62	1,985.81	1,846.73	8.26	-0.71	0.079
124.00	-16.18	-3.97	0.00	-117.33	0.00	117.33	2,477.76	601.42	1,876.93	1,759.39	8.86	-0.74	0.073
125.00	-15.91	-3.93	0.00	-113.36	0.00	113.36	2,465.07	597.12	1,850.19	1,737.75	9.02	-0.74	0.072
128.50	-14.99	-3.87	0.00	-99.62	0.00	99.62	1,822.58	473.49	1,454.12	1,275.73	9.57	-0.76	0.086
130.00	-12.43	-3.22	0.00	-93.81	0.00	93.81	1,810.10	468.33	1,422.60	1,253.09	9.81	-0.77	0.082
135.00	-11.72	-3.12	0.00	-77.72	0.00	77.72	1,767.32	451.13	1,320.04	1,178.21	10.64	-0.80	0.073
140.00	-11.03	-3.03	0.00	-62.12	0.00	62.12	1,722.74	433.93	1,221.31	1,104.37	11.49	-0.83	0.063
145.00	-10.36	-2.95	0.00	-46.98	0.00	46.98	1,676.35	416.73	1,126.42	1,031.69	12.38	-0.86	0.052
148.00	-8.44	-2.61	0.00	-38.13	0.00	38.13	1,647.65	406.41	1,071.33	988.71	12.93	-0.87	0.044
150.00	-7.41	-2.09	0.00	-32.90	0.00	32.90	1,628.16	399.53	1,035.37	960.33	13.29	-0.88	0.039
155.00	-6.91	-2.01	0.00	-22.43	0.00	22.43	1,578.15	382.33	948.15	890.42	14.22	-0.90	0.030
160.00	-6.43	-1.94	0.00	-12.40	0.00	12.40	1,526.34	365.13	864.77	822.09	15.17	-0.91	0.019
162.00	-3.15	-0.88	0.00	-8.52	0.00	8.52	1,505.11	358.25	832.50	795.24	15.55	-0.91	0.013
165.00	-2.92	-0.82	0.00	-5.88	0.00	5.88	1,472.72	347.93	785.23	755.50	16.13	-0.92	0.010
170.00	0.00	-0.77	0.00	-1.80	0.00	1.80	1,400.09	330.73	709.52	682.38	17.09	-0.92	0.003

Site Number: 376047

Code: ANSI/TIA-222-H

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Site Name: MANSFIELD CENTER 2 CT, CT

Engineering Number: 13668979\_C3\_01

4/26/2021 7:51:31 AM

Customer: VERIZON WIRELESS

### Equivalent Lateral Forces Method Analysis

Spectral Response Acceleration for Short Period ( $S_s$ ):	0.18
Spectral Response Acceleration at 1.0 Second Period ( $S_1$ ):	0.05
Long-Period Transition Period ( $T_L$ ):	6
Importance Factor ( $I_E$ ):	1.00
Site Coefficient $F_a$ :	1.60
Site Coefficient $F_v$ :	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period ( $S_{ds}$ ):	0.20
Design Spectral Response Acceleration at 1.0 Second Period ( $S_{d1}$ ):	0.09
Seismic Response Coefficient ( $C_s$ ):	0.03
Upper Limit $C_s$	0.03
Lower Limit $C_s$	0.03
Period based on Rayleigh Method (sec):	2.35
Redundancy Factor (p):	1.00
Seismic Force Distribution Exponent (k):	1.92
Total Unfactored Dead Load:	50.98 k
Seismic Base Shear (E):	1.53 k

### Load Case 1.2D + 1.0Ev + 1.0Eh

### Seismic

Segment	Height Above Base (ft)	Weight (lb)	$W_z$ (lb-ft)	$C_{vx}$	Horizontal Force (lb)	Vertical Force (lb)
42	167.50	367	6,983	0.020	30	454
41	163.50	228	4,145	0.012	18	282
40	161.00	188	3,327	0.009	14	234
39	157.50	483	8,171	0.023	35	598
38	152.50	500	7,945	0.022	34	619
37	149.00	258	3,925	0.011	17	320
36	146.50	396	5,828	0.016	25	491
35	142.50	673	9,395	0.026	40	834
34	137.50	690	8,988	0.025	39	855
33	132.50	706	8,572	0.024	37	876
32	129.25	222	2,564	0.007	11	275
31	126.75	923	10,284	0.029	44	1,144
30	124.50	267	2,875	0.008	12	331
29	122.00	699	7,235	0.020	31	866
28	117.50	892	8,593	0.024	37	1,106
27	112.50	913	8,088	0.023	35	1,132
26	107.50	934	7,579	0.021	33	1,158
25	102.50	955	7,070	0.020	30	1,183
24	97.50	976	6,561	0.018	28	1,209
23	92.50	997	6,056	0.017	26	1,235
22	89.63	151	865	0.002	4	187
21	87.13	1,606	8,696	0.025	37	1,990
20	84.25	575	2,917	0.008	13	712
19	81.75	826	3,955	0.011	17	1,023
18	77.50	1,201	5,190	0.015	22	1,488



Site Number: 376047

Code: ANSI/TIA-222-H

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Site Name: MANSFIELD CENTER 2 CT, CT

Engineering Number: 13668979\_C3\_01

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Customer: VERIZON WIRELESS

17	72.50	1,226	4,660	0.013	20	1,519
16	67.50	1,251	4,144	0.012	18	1,550
15	62.50	1,276	3,645	0.010	16	1,581
14	57.50	1,301	3,166	0.009	14	1,612
13	53.00	1,059	2,202	0.006	9	1,312
12	50.50	509	965	0.003	4	631
11	47.50	2,578	4,344	0.012	19	3,195
10	44.63	391	585	0.002	3	485
9	42.13	1,310	1,752	0.005	8	1,623
8	37.50	1,568	1,676	0.005	7	1,943
7	32.50	1,597	1,297	0.004	6	1,979
6	27.50	1,626	957	0.003	4	2,015
5	22.50	1,655	662	0.002	3	2,052
4	17.50	1,685	416	0.001	2	2,088
3	12.50	1,714	221	0.001	1	2,124
2	7.50	1,743	84	0.000	0	2,160
1	2.50	1,535	9	0.000	0	1,902
Samsung B5/B13 RRH-B	170.00	211	4,134	0.012	18	261
Samsung B2/B66A RRH-	170.00	253	4,963	0.014	21	314
Amphenol Antel BXA-7	170.00	30	582	0.002	3	37
Raycap RVZDC-6627-PF	170.00	64	1,254	0.004	5	79
Samsung MT6407-77A	170.00	245	4,798	0.014	21	303
Commscope NHH-65B-R2	170.00	262	5,139	0.014	22	325
Flat Low Profile Pla	170.00	1,500	29,400	0.083	127	1,859
Generic RCU (Remote	162.00	3	54	0.000	0	4
Andrew ATSBT-BOTTOM-	162.00	5	96	0.000	0	7
Ericsson KRY 112 144	162.00	33	590	0.002	3	41
Ericsson KRY 112 489	162.00	46	825	0.002	4	57
Ericsson Radio 4449	162.00	222	3,966	0.011	17	275
Andrew HBX-6516DS-VT	162.00	30	531	0.001	2	37
RFS APXV18-203219-C	162.00	117	2,090	0.006	9	145
RFS APXV18-203219-C	162.00	117	2,090	0.006	9	145
Commscope LNX-6515DS	162.00	151	2,696	0.008	12	187
RFS APXVAARR24_43-U-	162.00	384	6,854	0.019	30	476
PerfectVision PV-LP	162.00	2,000	35,728	0.101	154	2,479
Powerwave Allgon LGP	150.00	33	508	0.001	2	41
Powerwave Allgon LGP	150.00	85	1,303	0.004	6	105
Ericsson RRUS 11 (Ba	150.00	300	4,621	0.013	20	372
Powerwave Allgon 777	150.00	210	3,235	0.009	14	260
KMW AM-X-CD-16-65-00	150.00	97	1,494	0.004	6	120
Powerwave Allgon P65	150.00	59	909	0.003	4	73
Generic SSB (27lb)	148.00	27	405	0.001	2	33
Flat Low Profile Pla	148.00	1,500	22,518	0.063	97	1,859
Alcatel-Lucent RRH 1	130.00	138	1,614	0.005	7	171
Alcatel-Lucent 800MH	130.00	159	1,860	0.005	8	197
Alcatel-Lucent TD-RR	130.00	198	2,316	0.007	10	245
RFS APXV9TM14-ALU-I2	130.00	165	1,933	0.005	8	205
RFS APXV9ERR18-C (62	130.00	186	2,176	0.006	9	231
Flat Low Profile Pla	130.00	1,500	17,545	0.049	76	1,859
		50,978	354,820	1.000	1,529	63,174

Load Case 0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W <sub>z</sub> (lb-ft)	C <sub>vx</sub>	Horizontal Force (lb)	Vertical Force (lb)
42	167.50	367	6,983	0.020	30	316
41	163.50	228	4,145	0.012	18	196
40	161.00	188	3,327	0.009	14	162
39	157.50	483	8,171	0.023	35	416
38	152.50	500	7,945	0.022	34	430
37	149.00	258	3,925	0.011	17	222

Site Number: 376047

Code: ANSI/TIA-222-H

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Site Name: MANSFIELD CENTER 2 CT, CT

Engineering Number: 13668979\_C3\_01

4/26/2021 7:51:31 AM

Customer: VERIZON WIRELESS

36	146.50	396	5,828	0.016	25	341
35	142.50	673	9,395	0.026	40	579
34	137.50	690	8,988	0.025	39	594
33	132.50	706	8,572	0.024	37	608
32	129.25	222	2,564	0.007	11	191
31	126.75	923	10,284	0.029	44	795
30	124.50	267	2,875	0.008	12	230
29	122.00	699	7,235	0.020	31	602
28	117.50	892	8,593	0.024	37	768
27	112.50	913	8,088	0.023	35	786
26	107.50	934	7,579	0.021	33	804
25	102.50	955	7,070	0.020	30	822
24	97.50	976	6,561	0.018	28	840
23	92.50	997	6,056	0.017	26	858
22	89.63	151	865	0.002	4	130
21	87.13	1,606	8,696	0.025	37	1,382
20	84.25	575	2,917	0.008	13	495
19	81.75	826	3,955	0.011	17	711
18	77.50	1,201	5,190	0.015	22	1,033
17	72.50	1,226	4,660	0.013	20	1,055
16	67.50	1,251	4,144	0.012	18	1,077
15	62.50	1,276	3,645	0.010	16	1,098
14	57.50	1,301	3,166	0.009	14	1,120
13	53.00	1,059	2,202	0.006	9	911
12	50.50	509	965	0.003	4	438
11	47.50	2,578	4,344	0.012	19	2,219
10	44.63	391	585	0.002	3	337
9	42.13	1,310	1,752	0.005	8	1,127
8	37.50	1,568	1,676	0.005	7	1,350
7	32.50	1,597	1,297	0.004	6	1,375
6	27.50	1,626	957	0.003	4	1,400
5	22.50	1,655	662	0.002	3	1,425
4	17.50	1,685	416	0.001	2	1,450
3	12.50	1,714	221	0.001	1	1,475
2	7.50	1,743	84	0.000	0	1,500
1	2.50	1,535	9	0.000	0	1,321
Samsung B5/B13 RRH-B	170.00	211	4,134	0.012	18	182
Samsung B2/B66A RRH-	170.00	253	4,963	0.014	21	218
Amphenol Antel BXA-7	170.00	30	582	0.002	3	26
Raycap RVZDC-6627-PF	170.00	64	1,254	0.004	5	55
Samsung MT6407-77A	170.00	245	4,798	0.014	21	211
Commscope NHH-65B-R2	170.00	262	5,139	0.014	22	226
Flat Low Profile Pla	170.00	1,500	29,400	0.083	127	1,291
Generic RCU (Remote	162.00	3	54	0.000	0	3
Andrew ATSBT-BOTTOM-	162.00	5	96	0.000	0	5
Ericsson KRY 112 144	162.00	33	590	0.002	3	28
Ericsson KRY 112 489	162.00	46	825	0.002	4	40
Ericsson Radio 4449	162.00	222	3,966	0.011	17	191
Andrew HBX-6516DS-VT	162.00	30	531	0.001	2	26
RFS APXV18-203219-C	162.00	117	2,090	0.006	9	101
RFS APXV18-203219-C	162.00	117	2,090	0.006	9	101
Commscope LNX-6515DS	162.00	151	2,696	0.008	12	130
RFS APXVAARR24_43-U-	162.00	384	6,854	0.019	30	330
PerfectVision PV-LP	162.00	2,000	35,728	0.101	154	1,721
Powerwave Allgon LGP	150.00	33	508	0.001	2	28
Powerwave Allgon LGP	150.00	85	1,303	0.004	6	73
Ericsson RRUS 11 (Ba	150.00	300	4,621	0.013	20	258
Powerwave Allgon 777	150.00	210	3,235	0.009	14	181
KMW AM-X-CD-16-65-00	150.00	97	1,494	0.004	6	83
Powerwave Allgon P65	150.00	59	909	0.003	4	51
Generic SSB (27Ib)	148.00	27	405	0.001	2	23
Flat Low Profile Pla	148.00	1,500	22,518	0.063	97	1,291
Alcatel-Lucent RRH 1	130.00	138	1,614	0.005	7	119
Alcatel-Lucent 800MH	130.00	159	1,860	0.005	8	137

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Site Number: 376047	Code: ANSI/TIA-222-H	© 2007 - 2021 by ATC IP LLC. All rights reserved.
Site Name: MANSFIELD CENTER 2 CT, CT	Engineering Number: 13668979_C3_01	4/26/2021 7:51:31 AM
Customer: VERIZON WIRELESS		

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Alcatel-Lucent TD-RR	130.00	198	2,316	0.007	10	170
RFS APXV9TM14-ALU-I2	130.00	165	1,933	0.005	8	142
RFS APXV9ERR18-C (62	130.00	186	2,176	0.006	9	160
Flat Low Profile Pla	130.00	1,500	17,545	0.049	76	1,291
		50,978	354,820	1.000	1,529	43,879

Site Number: 376047

Code: ANSI/TIA-222-H

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Site Name: MANSFIELD CENTER 2 CT, CT

Engineering Number: 13668979\_C3\_01

4/26/2021 7:51:31 AM

Customer: VERIZON WIRELESS

Load Case 1.2D + 1.0Ev + 1.0Eh

## Seismic

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-61.27	-1.53	0.00	-210.57	0.00	210.57	5,816.03	1,551.91	8,926.27	7,628.28	0.00	0.00	0.038
5.00	-59.11	-1.54	0.00	-202.91	0.00	202.91	5,748.91	1,521.81	8,583.41	7,393.01	0.00	-0.01	0.038
10.00	-56.99	-1.54	0.00	-195.21	0.00	195.21	5,680.00	1,491.71	8,247.26	7,158.90	0.01	-0.01	0.037
15.00	-54.90	-1.55	0.00	-187.50	0.00	187.50	5,609.27	1,461.61	7,917.82	6,926.09	0.03	-0.02	0.037
20.00	-52.85	-1.55	0.00	-179.76	0.00	179.76	5,536.73	1,431.51	7,595.10	6,694.72	0.06	-0.03	0.036
25.00	-50.83	-1.55	0.00	-172.00	0.00	172.00	5,462.39	1,401.41	7,279.10	6,464.93	0.09	-0.03	0.036
30.00	-48.85	-1.55	0.00	-164.24	0.00	164.24	5,386.24	1,371.31	6,969.80	6,236.85	0.13	-0.04	0.035
35.00	-46.91	-1.55	0.00	-156.49	0.00	156.49	5,308.29	1,341.21	6,667.23	6,010.63	0.17	-0.05	0.035
40.00	-45.29	-1.54	0.00	-148.75	0.00	148.75	5,228.52	1,311.11	6,371.36	5,786.40	0.23	-0.06	0.034
44.25	-44.80	-1.54	0.00	-142.18	0.00	142.18	5,159.30	1,285.53	6,125.16	5,597.47	0.28	-0.06	0.034
45.00	-41.61	-1.53	0.00	-141.02	0.00	141.02	5,146.95	1,281.01	6,082.22	5,564.30	0.29	-0.06	0.033
50.00	-40.98	-1.52	0.00	-133.40	0.00	133.40	5,063.57	1,250.91	5,799.78	5,344.47	0.36	-0.07	0.033
51.00	-39.66	-1.52	0.00	-131.87	0.00	131.87	4,145.19	1,084.02	5,081.17	4,429.04	0.38	-0.07	0.039
55.00	-38.05	-1.50	0.00	-125.81	0.00	125.81	4,096.07	1,063.38	4,889.54	4,292.62	0.44	-0.08	0.039
60.00	-36.47	-1.49	0.00	-118.28	0.00	118.28	4,033.03	1,037.58	4,655.19	4,123.27	0.53	-0.09	0.038
65.00	-34.92	-1.48	0.00	-110.82	0.00	110.82	3,968.19	1,011.78	4,426.58	3,955.34	0.62	-0.10	0.037
70.00	-33.40	-1.46	0.00	-103.43	0.00	103.43	3,901.54	985.98	4,203.74	3,788.98	0.73	-0.11	0.036
75.00	-31.91	-1.44	0.00	-96.13	0.00	96.13	3,833.09	960.18	3,986.64	3,624.33	0.84	-0.11	0.035
80.00	-30.89	-1.42	0.00	-88.93	0.00	88.93	3,762.82	934.38	3,775.31	3,461.52	0.97	-0.12	0.034
83.50	-30.18	-1.41	0.00	-83.95	0.00	83.95	3,712.56	916.32	3,630.80	3,348.72	1.06	-0.13	0.033
85.00	-28.19	-1.37	0.00	-81.83	0.00	81.83	3,690.75	908.58	3,569.73	3,300.69	1.10	-0.13	0.032
89.25	-28.00	-1.37	0.00	-75.99	0.00	75.99	2,874.01	750.84	2,925.29	2,552.34	1.22	-0.14	0.040
90.00	-26.76	-1.35	0.00	-74.96	0.00	74.96	2,866.38	747.62	2,900.22	2,534.55	1.25	-0.14	0.039
95.00	-25.56	-1.32	0.00	-68.23	0.00	68.23	2,814.48	726.12	2,735.83	2,416.57	1.40	-0.15	0.037
100.00	-24.37	-1.29	0.00	-61.64	0.00	61.64	2,760.76	704.62	2,576.23	2,299.74	1.57	-0.16	0.036
105.00	-23.21	-1.26	0.00	-55.19	0.00	55.19	2,705.24	683.12	2,421.43	2,184.20	1.74	-0.17	0.034
110.00	-22.08	-1.22	0.00	-48.91	0.00	48.91	2,647.91	661.62	2,271.43	2,070.09	1.93	-0.18	0.032
115.00	-20.98	-1.19	0.00	-42.80	0.00	42.80	2,588.77	640.12	2,126.22	1,957.55	2.12	-0.19	0.030
120.00	-20.11	-1.15	0.00	-36.87	0.00	36.87	2,527.82	618.62	1,985.81	1,846.73	2.33	-0.20	0.028
124.00	-19.78	-1.14	0.00	-32.25	0.00	32.25	2,477.76	601.42	1,876.93	1,759.39	2.50	-0.21	0.026
125.00	-18.63	-1.09	0.00	-31.11	0.00	31.11	2,465.07	597.12	1,850.19	1,737.75	2.54	-0.21	0.025
128.50	-18.36	-1.08	0.00	-27.28	0.00	27.28	1,822.58	473.49	1,454.12	1,275.73	2.70	-0.21	0.031
130.00	-14.58	-0.92	0.00	-25.66	0.00	25.66	1,810.10	468.33	1,422.60	1,253.09	2.77	-0.22	0.029
135.00	-13.72	-0.88	0.00	-21.08	0.00	21.08	1,767.32	451.13	1,320.04	1,178.21	3.00	-0.23	0.026
140.00	-12.89	-0.83	0.00	-16.70	0.00	16.70	1,722.74	433.93	1,221.31	1,104.37	3.24	-0.23	0.023
145.00	-12.40	-0.81	0.00	-12.53	0.00	12.53	1,676.35	416.73	1,126.42	1,031.69	3.49	-0.24	0.020
148.00	-10.19	-0.68	0.00	-10.11	0.00	10.11	1,647.65	406.41	1,071.33	988.71	3.64	-0.24	0.016
150.00	-8.60	-0.59	0.00	-8.74	0.00	8.74	1,628.16	399.53	1,035.37	960.33	3.74	-0.25	0.014
155.00	-8.00	-0.55	0.00	-5.79	0.00	5.79	1,578.15	382.33	948.15	890.42	4.00	-0.25	0.012
160.00	-7.76	-0.54	0.00	-3.02	0.00	3.02	1,526.34	365.13	864.77	822.09	4.27	-0.25	0.009
162.00	-3.63	-0.26	0.00	-1.94	0.00	1.94	1,505.11	358.25	832.50	795.24	4.37	-0.25	0.005
165.00	-3.18	-0.23	0.00	-1.15	0.00	1.15	1,472.72	347.93	785.23	755.50	4.53	-0.26	0.004
170.00	0.00	-0.22	0.00	0.00	0.00	0.00	1,400.09	330.73	709.52	682.38	4.80	-0.26	0.000

Site Number: 376047

Code: ANSI/TIA-222-H

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Site Name: MANSFIELD CENTER 2 CT, CT

Engineering Number: 13668979\_C3\_01

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Customer: VERIZON WIRELESS

Load Case 0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

## Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-42.56	-1.53	0.00	-207.92	0.00	207.92	5,816.03	1,551.91	8,926.27	7,628.28	0.00	0.00	0.035
5.00	-41.06	-1.54	0.00	-200.27	0.00	200.27	5,748.91	1,521.81	8,583.41	7,393.01	0.00	-0.01	0.034
10.00	-39.58	-1.54	0.00	-192.59	0.00	192.59	5,680.00	1,491.71	8,247.26	7,158.90	0.01	-0.01	0.034
15.00	-38.13	-1.54	0.00	-184.90	0.00	184.90	5,609.27	1,461.61	7,917.82	6,926.09	0.03	-0.02	0.033
20.00	-36.71	-1.54	0.00	-177.19	0.00	177.19	5,536.73	1,431.51	7,595.10	6,694.72	0.06	-0.03	0.033
25.00	-35.31	-1.54	0.00	-169.48	0.00	169.48	5,462.39	1,401.41	7,279.10	6,464.93	0.09	-0.03	0.033
30.00	-33.93	-1.54	0.00	-161.78	0.00	161.78	5,386.24	1,371.31	6,969.80	6,236.85	0.13	-0.04	0.032
35.00	-32.58	-1.53	0.00	-154.08	0.00	154.08	5,308.29	1,341.21	6,667.23	6,010.63	0.17	-0.05	0.032
40.00	-31.45	-1.53	0.00	-146.41	0.00	146.41	5,228.52	1,311.11	6,371.36	5,786.40	0.23	-0.05	0.031
44.25	-31.12	-1.53	0.00	-139.91	0.00	139.91	5,159.30	1,285.53	6,125.16	5,597.47	0.28	-0.06	0.031
45.00	-28.90	-1.51	0.00	-138.76	0.00	138.76	5,146.95	1,281.01	6,082.22	5,564.30	0.29	-0.06	0.031
50.00	-28.46	-1.51	0.00	-131.21	0.00	131.21	5,063.57	1,250.91	5,799.78	5,344.47	0.36	-0.07	0.030
51.00	-27.55	-1.50	0.00	-129.70	0.00	129.70	4,145.19	1,084.02	5,081.17	4,429.04	0.37	-0.07	0.036
55.00	-26.43	-1.49	0.00	-123.70	0.00	123.70	4,096.07	1,063.38	4,889.54	4,292.62	0.43	-0.08	0.035
60.00	-25.33	-1.47	0.00	-116.26	0.00	116.26	4,033.03	1,037.58	4,655.19	4,123.27	0.52	-0.09	0.034
65.00	-24.25	-1.46	0.00	-108.89	0.00	108.89	3,968.19	1,011.78	4,426.58	3,955.34	0.61	-0.09	0.034
70.00	-23.20	-1.44	0.00	-101.60	0.00	101.60	3,901.54	985.98	4,203.74	3,788.98	0.72	-0.10	0.033
75.00	-22.16	-1.42	0.00	-94.40	0.00	94.40	3,833.09	960.18	3,986.64	3,624.33	0.83	-0.11	0.032
80.00	-21.45	-1.40	0.00	-87.31	0.00	87.31	3,762.82	934.38	3,775.31	3,461.52	0.95	-0.12	0.031
83.50	-20.96	-1.39	0.00	-82.40	0.00	82.40	3,712.56	916.32	3,630.80	3,348.72	1.05	-0.13	0.030
85.00	-19.58	-1.35	0.00	-80.31	0.00	80.31	3,690.75	908.58	3,569.73	3,300.69	1.09	-0.13	0.030
89.25	-19.45	-1.35	0.00	-74.56	0.00	74.56	2,874.01	750.84	2,925.29	2,552.34	1.21	-0.14	0.036
90.00	-18.59	-1.32	0.00	-73.55	0.00	73.55	2,866.38	747.62	2,900.22	2,534.55	1.23	-0.14	0.036
95.00	-17.75	-1.30	0.00	-66.93	0.00	66.93	2,814.48	726.12	2,735.83	2,416.57	1.38	-0.15	0.034
100.00	-16.93	-1.27	0.00	-60.45	0.00	60.45	2,760.76	704.62	2,576.23	2,299.74	1.54	-0.16	0.032
105.00	-16.12	-1.23	0.00	-54.12	0.00	54.12	2,705.24	683.12	2,421.43	2,184.20	1.71	-0.17	0.031
110.00	-15.34	-1.20	0.00	-47.94	0.00	47.94	2,647.91	661.62	2,271.43	2,070.09	1.90	-0.18	0.029
115.00	-14.57	-1.16	0.00	-41.95	0.00	41.95	2,588.77	640.12	2,126.22	1,957.55	2.09	-0.19	0.027
120.00	-13.97	-1.13	0.00	-36.13	0.00	36.13	2,527.82	618.62	1,985.81	1,846.73	2.29	-0.20	0.025
124.00	-13.74	-1.12	0.00	-31.61	0.00	31.61	2,477.76	601.42	1,876.93	1,759.39	2.46	-0.20	0.024
125.00	-12.94	-1.07	0.00	-30.49	0.00	30.49	2,465.07	597.12	1,850.19	1,737.75	2.50	-0.21	0.023
128.50	-12.75	-1.06	0.00	-26.73	0.00	26.73	1,822.58	473.49	1,454.12	1,275.73	2.65	-0.21	0.028
130.00	-10.12	-0.90	0.00	-25.14	0.00	25.14	1,810.10	468.33	1,422.60	1,253.09	2.72	-0.21	0.026
135.00	-9.53	-0.86	0.00	-20.65	0.00	20.65	1,767.32	451.13	1,320.04	1,178.21	2.95	-0.22	0.023
140.00	-8.95	-0.82	0.00	-16.36	0.00	16.36	1,722.74	433.93	1,221.31	1,104.37	3.19	-0.23	0.020
145.00	-8.61	-0.79	0.00	-12.28	0.00	12.28	1,676.35	416.73	1,126.42	1,031.69	3.43	-0.24	0.017
148.00	-7.07	-0.67	0.00	-9.90	0.00	9.90	1,647.65	406.41	1,071.33	988.71	3.58	-0.24	0.014
150.00	-5.97	-0.58	0.00	-8.56	0.00	8.56	1,628.16	399.53	1,035.37	960.33	3.68	-0.24	0.013
155.00	-5.55	-0.54	0.00	-5.67	0.00	5.67	1,578.15	382.33	948.15	890.42	3.94	-0.25	0.010
160.00	-5.39	-0.53	0.00	-2.96	0.00	2.96	1,526.34	365.13	864.77	822.09	4.20	-0.25	0.007
162.00	-2.52	-0.26	0.00	-1.90	0.00	1.90	1,505.11	358.25	832.50	795.24	4.30	-0.25	0.004
165.00	-2.21	-0.23	0.00	-1.13	0.00	1.13	1,472.72	347.93	785.23	755.50	4.46	-0.25	0.003
170.00	0.00	-0.22	0.00	0.00	0.00	0.00	1,400.09	330.73	709.52	682.38	4.72	-0.25	0.000

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Site Number: 376047

Code: ANSI/TIA-222-H

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Site Name: MANSFIELD CENTER 2 CT, CT

Engineering Number: 13668979\_C3\_01

4/26/2021 7:51:31 AM

Customer: VERIZON WIRELESS

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### Analysis Summary

Load Case	Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.0W	28.20	0.00	61.15	0.00	0.00	3397.05	89.25	0.48
0.9D + 1.0W	28.19	0.00	45.85	0.00	0.00	3362.28	89.25	0.47
1.2D + 1.0Di + 1.0Wi	8.12	0.00	86.96	0.00	0.00	979.47	89.25	0.15
1.2D + 1.0Ev + 1.0Eh	1.53	0.00	61.27	0.00	0.00	210.57	89.25	0.04
0.9D - 1.0Ev + 1.0Eh	1.53	0.00	42.56	0.00	0.00	207.92	89.25	0.04
1.0D + 1.0W	6.41	0.00	50.98	0.00	0.00	767.82	89.25	0.11

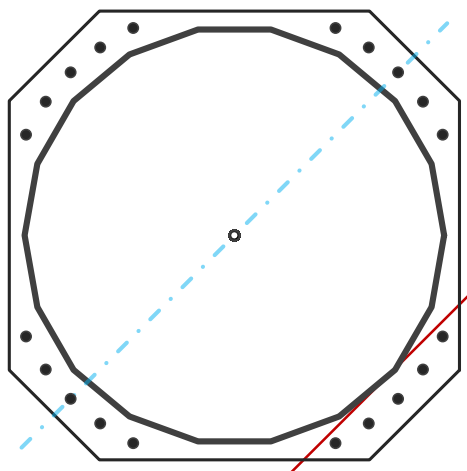
## Base Plate & Anchor Rod Analysis

Pole Dimensions		
Number of Sides	18	-
Diameter	64.12	in
Thickness	7/16	in
Orientation Offset	0	°

Base Reactions		
Moment, Mu	3,397.1	k-ft
Axial, Pu	61.2	k
Shear, Vu	28.2	k
Neutral Axis	225	°

Report Capacities		
Component	Capacity	Result
Base Plate	36%	Pass
Anchor Rods	48%	Pass
Dwyidag	-	-

Base Plate		
Shape	Square	-
Width	70	in
Thickness	3 1/4	in
Grade	A572-55	
Yield Strength, Fy	55	ksi
Tensile Strength, Fu	70	ksi
Clip	14	in
Orientation Offset	0	°
Anchor Rod Detail	d	$\eta=0.5$
Clear Distance	3	in
Applied Moment, Mu	1642.8	k
Bending Stress, $\phi M_n$	4542.2	k



Original Anchor Rods		
Arrangement	Cluster	-
Quantity	20	-
Diameter, $\phi$	2 1/4	in
Bolt Circle	72	in
Grade	A615-75	
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Spacing	6.0	in
Orientation Offset	0	°
Applied Force, Pu	116.2	k
Anchor Rods, $\phi P_n$	243.6	k

Calculations for Monopole Base Plate & Anchor Rod Analysis

Reaction Distribution				Geometric Properties					
Reaction	Shear Vu	Moment Mu	Factor	Section	Gross Area	Net Area	Individual Inertia	Threads per Inch	Moment of Inertia
-	k	k-ft	-	-	in <sup>2</sup>	in <sup>2</sup>	in <sup>4</sup>	#	in <sup>4</sup>
Base Forces	28.2	3397.1	1.00	Pole	87.0845	4.8380	0.3097		44151.55
Anchor Rod Forces	28.2	3397.1	1.00	Bolt	3.9761	3.2477	0.8393	4.5	42106.84
Additional Bolt (Grp1) Forces	0.0	0.0	0.00	Bolt1	0.0000	0.0000	0.0000	0	0.00
Additional Bolt (Grp2) Forces	0.0	0.0	0.00	Bolt2	0.0000	0.0000	0.0000	0	0.00
Dywidag Forces	0.0	0.0	0.00	Dywidag	0.0000	0.0000	0.0000		0.00
Stiffener Forces	0.0	0.0	0.00	Stiffener	0.0000	0.0000	0.0000		0.00

Base Plate			Anchor Rods		
Shape	Square	-	Anchor Rod Quantity, N	20	-
Width, W	70	in	Rod Diameter, d	2.25	in
Thickness, t	3.25	in	Bolt Circle, BC	72	in
Yield Strength, Fy	55	ksi	Yield Strength, Fy	75	ksi
Tensile Strength, Fu	70	ksi	Tensile Strength, Fu	100	ksi
Base Plate Chord	28.082	in	Applied Axial, Pu	116.2	k
Detail Type	d	-	Applied Shear, Vu	0.4	k
Detail Factor	0.50	-	Compressive Capacity, ϕPn	243.6	k
Clear Distance	3	-	Tensile Capacity, ϕRnt	0.477	OK
			Interaction Capacity	0.481	OK

External Base Plate		
Chord Length AA	34.750	in
Additional AA	0.000	in
Section Modulus, Z	91.762	in <sup>3</sup>
Applied Moment, Mu	1642.8	k-ft
Bending Capacity, ϕMn	4542.2	k-ft
Capacity, Mu/ϕMn	0.362	OK
Chord Length AB	33.759	in
Additional AB	0.000	in
Section Modulus, Z	89.145	in <sup>3</sup>
Applied Moment, Mu	1362.5	k-ft
Bending Capacity, ϕMn	4412.7	k-ft
Capacity, Mu/ϕMn	0.309	OK
Bend Line Length	0.000	in
Additional Bend Line	0.000	in
Section Modulus, Z	0.000	in <sup>3</sup>
Applied Moment, Mu	0.0	k-ft
Bending Capacity, ϕMn	0.0	k-ft
Capacity, Mu/ϕMn		

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





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## Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10069740  
Maser Consulting Connecticut Project #: 21777463A

June 25, 2021

### Site Information

Site ID: 468088-VZW / MANSFIELD NORTH CT  
Site Name: MANSFIELD NORTH CT  
Carrier Name: Verizon Wireless  
Address: 1725 Stafford Rd  
Mansfield, Connecticut 06268  
Tolland County  
Latitude: 41.836000°  
Longitude: -72.307611°

### Structure Information

Tower Type: 170-ft Monopole  
Mount Type: 14.00-ft Platform

FUZE ID # 16272196

### Analysis Results

Platform: 52.1% 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: Zachary Bandilla

## **Executive Summary:**

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

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

## **Sources of Information:**

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS, Site ID: 674962, dated March 16, 2021
Mount Mapping	RKS Design & Engineering LLC, Site ID: ATC: 376047, dated March 29, 2021
Previous Mount Analysis	Maser Consulting Connecticut, Project #: 21777463A, Dated May 7, 2021
Mount Modification Drawings	Maser Consulting Connecticut, Project #: 21777463A, Dated June 24, 2021

## **Analysis Criteria:**

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), $V_{ULT}$ : 119 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.50 in Risk Category: II Exposure Category: B Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, $K_e$ : 0.987
Seismic Parameters:	$S_s$ : 0.184 $S_1$ : 0.055
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Live Load, $L_v$ : 250 lbs Maintenance Live Load, $L_m$ : 500 lbs
Analysis Software:	RISA-3D (V17)

### **Final Loading Configuration:**

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
168.00	170.00	3	Samsung	MT6407-77A	Added
		6	Commscope	NHH-65B-R2B	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		2	Raycap	RVZDC-6627-PF-48	
		3	Amphenol Antel	BXA-70080-4CF-EDIN-0	Retained

The recent mount mapping did not report existing OVP units. However, it is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required.

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

### **Standard Conditions:**

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

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

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

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

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
  - o Channel, Solid Round, Angle, Plate      ASTM A36 (Gr. 36)
  - o HSS (Rectangular)                              ASTM 500 (Gr. B-46)
  - o Pipe    ASTM A53 (Gr. B-35)
  - o Threaded Rod                                      F1554 (Gr. 36)
  - o Bolts    ASTM A325
8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

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

### **Analysis Results:**

Component	Utilization %	Pass/Fail
<i>Face</i>	<i>47.7 %</i>	<i>Pass</i>
<i>Standoff</i>	<i>29.6 %</i>	<i>Pass</i>
<i>Grating Support</i>	<i>37.0 %</i>	<i>Pass</i>
<i>Grating Corner Support</i>	<i>12.4 %</i>	<i>Pass</i>
<i>Antenna Pipe</i>	<i>52.1 %</i>	<i>Pass</i>
<i>MOD Support Rail</i>	<i>38.6 %</i>	<i>Pass</i>
<i>MOD Support Rail Corner</i>	<i>25.8 %</i>	<i>Pass</i>
<i>MOD V-Brace</i>	<i>17.5 %</i>	<i>Pass</i>
<i>Connection Check</i>	<i>22.8 %</i>	<i>Pass</i>

<b>Structure Rating – (Controlling Utilization of all Components)</b>	<b>52.1%</b>
---	--------------

### **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 Wind Speed Usage and Adoption Letter







## Antenna Mount Mapping Form (PATENT PENDING)

FCC #

UNKNOWN

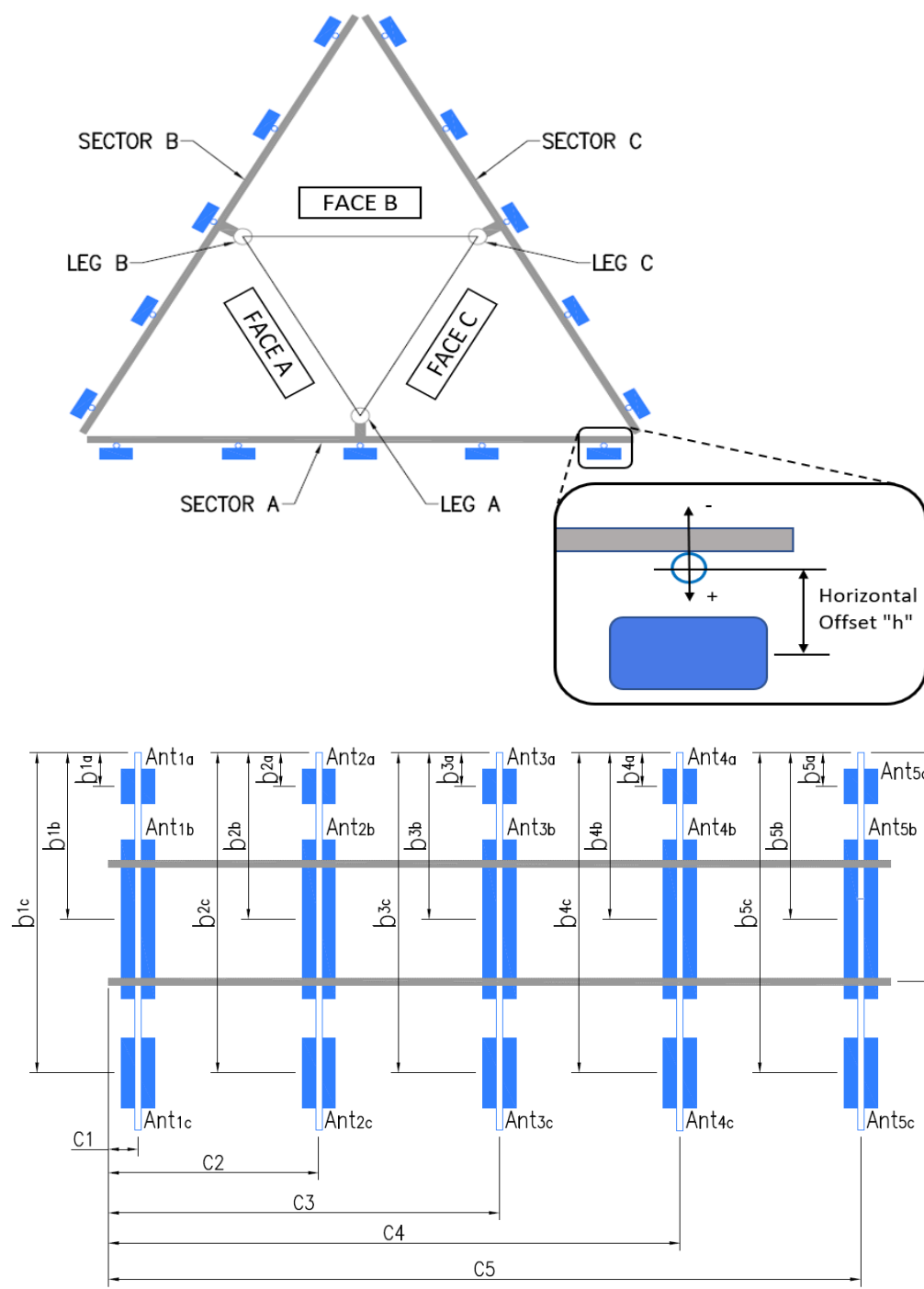
<b>Tower Owner:</b>	AMERICAN TOWER CORPORATION	<b>Mapping Date:</b>	3/29/2021
<b>Site Name:</b>	ATC: MANSFIELD CENTER 2 CT; VZW: MANSFIELD NORTH CT	<b>Tower Type:</b>	Monopole
<b>Site Number or ID:</b>	ATC: 376047	<b>Tower Height (Ft.):</b>	169.5
<b>Mapping Contractor:</b>	RKS Design & Engineering LLC	<b>Mount Elevation (Ft.):</b>	169.75

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

Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	PIPE 2.375"Ø X 0.16" X 84.25" LONG	56.25	15.50	C1	PIPE 2.375"Ø X 0.16" X 84.25" LONG	56.25	15.50
A2	PIPE 2.375"Ø X 0.16" X 84" LONG	61.25	78.50	C2	PIPE 2.375"Ø X 0.16" X 84" LONG	61.25	78.50
A3	PIPE 2.375"Ø X 0.16" X 84" LONG	56.50	128.50	C3	PIPE 2.375"Ø X 0.16" X 84" LONG	56.50	128.50
A4	PIPE 2.375"Ø X 0.16" X 84.25" LONG	63.75	152.50	C4	PIPE 2.375"Ø X 0.16" X 84.25" LONG	63.75	152.50
A5				C5			
A6				C6			
B1	PIPE 2.375"Ø X 0.16" X 84.25" LONG	56.25	15.50	D1			
B2	PIPE 2.375"Ø X 0.16" X 84" LONG	61.25	78.50	D2			
B3	PIPE 2.375"Ø X 0.16" X 84" LONG	56.50	128.50	D3			
B4	PIPE 2.375"Ø X 0.16" X 84.25" LONG	63.75	152.50	D4			
B5				D5			
B6				D6			
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :							
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :							
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :							5.5
Please enter additional information or comments below.							
Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):					25

Enter antenna model. If not labeled, enter "Unknown".							Mounting Locations [Units are inches and degrees]			Photos of antennas
Ants. Items	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b <sub>1a</sub> , b <sub>2a</sub> , b <sub>3a</sub> , b <sub>1b</sub> ..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
<b>Sector A</b>										
Ant <sub>1a</sub>	B4 RRH2X60-4R	10.63	5.75	36.60		172.021	29.00	-7.00		33, 178
Ant <sub>1b</sub>	HBXX-6517DS-A2M	12.00	6.50	75.00		171.479	35.50	9.00	15.00	33, 178
Ant <sub>1c</sub>										
Ant <sub>2a</sub>										
Ant <sub>2b</sub>	LNX-6514DS-A1M	11.90	7.10	72.90		171.479	40.50	7.00	15.00	33, 179
Ant <sub>2c</sub>										
Ant <sub>3a</sub>										
Ant <sub>3b</sub>	HBXX-6517DS-A2M	12.00	6.50	75.00		171.625	34.00	9.00	15.00	33, 180
Ant <sub>3c</sub>										
Ant <sub>4a</sub>										
Ant <sub>4b</sub>	BXA-70080-4CF-EDIN	8.00	5.90	47.50		171.896	38.00	9.50	15.00	33, 180
Ant <sub>4c</sub>										
Ant <sub>5a</sub>										
Ant <sub>5b</sub>										
Ant <sub>5c</sub>										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										



**Antenna Layout (Looking Out From Tower)**

[illegible]

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

1	COAX TOTAL (13): (12) FH 1-5/8, (1) 1-1/2"Ø	
2		
3		
4		
5		
6		
7		
8		

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





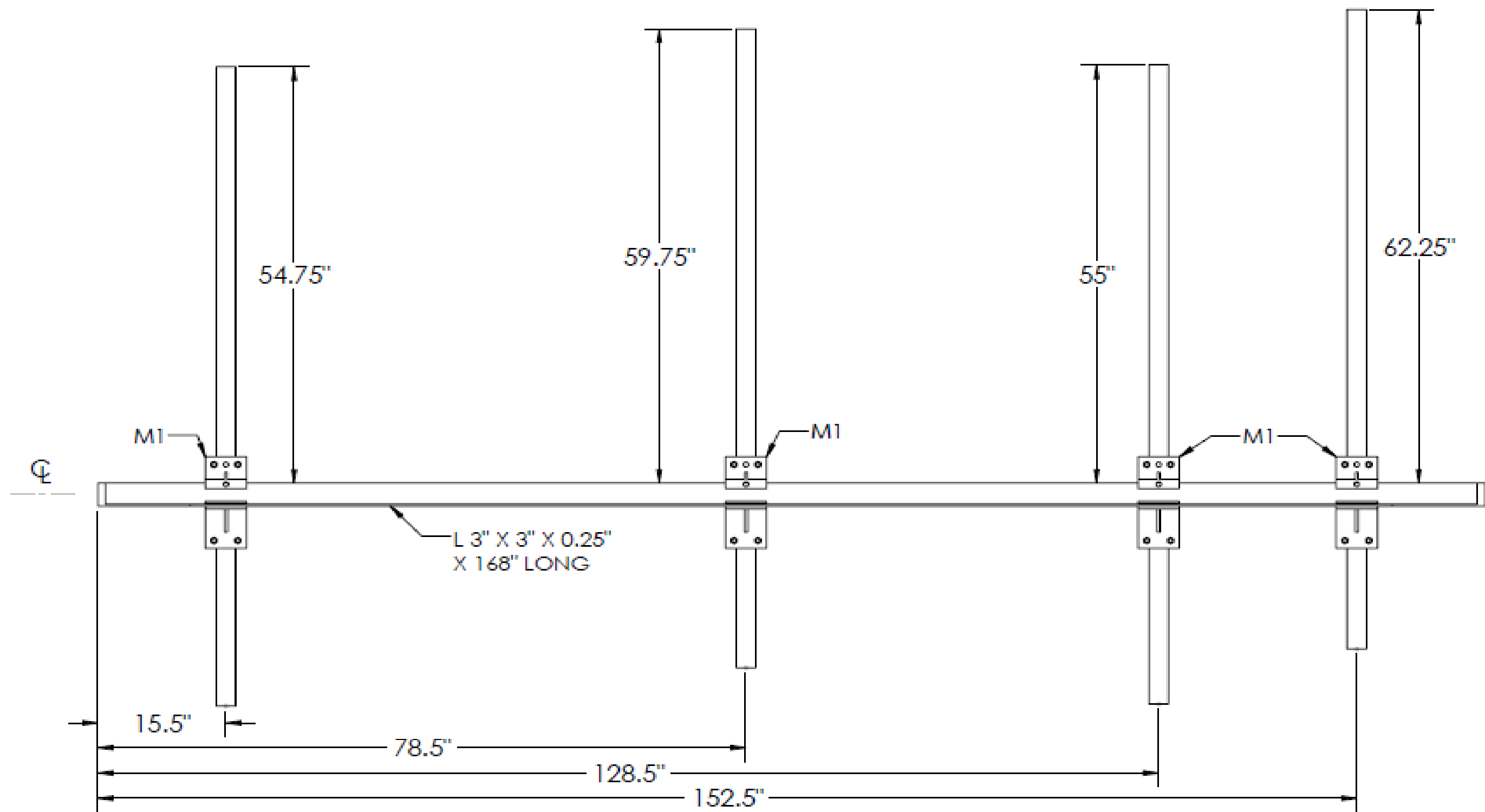
# Antenna Mount Mapping Form (PATENT PENDING)

FCC #  
UNKNOWN

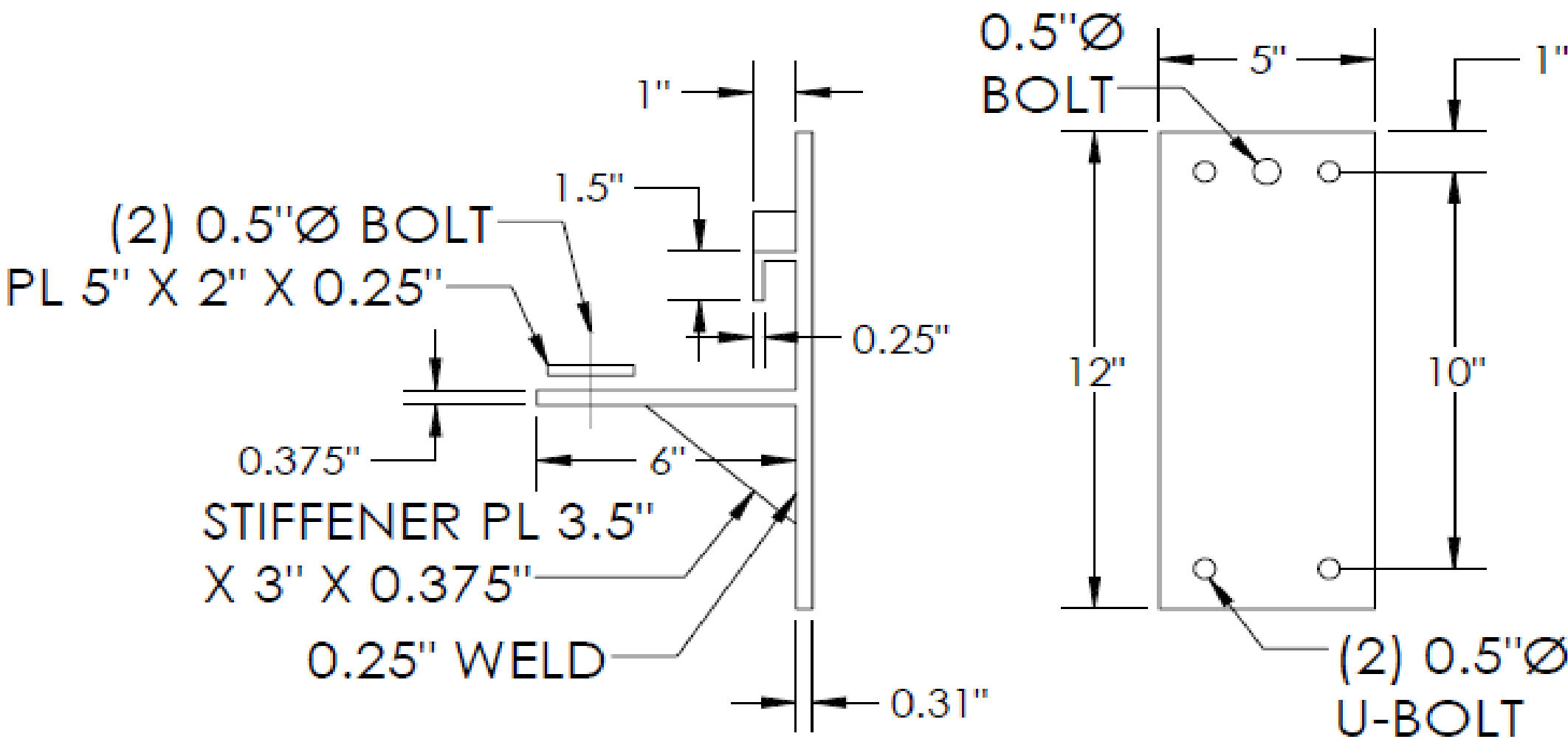
Tower Owner:	AMERICAN TOWER CORPORATION	Mapping Date:	3/29/2021
Site Name:	ATC: MANSFIELD CENTER 2 CT; VZW: MANSFIELD NORTH CT	Tower Type:	Monopole
Site Number or ID:	ATC: 376047	Tower Height (Ft.):	169.5
Mapping Contractor:	RKS Design & Engineering LLC	Mount Elevation (Ft.):	169.75

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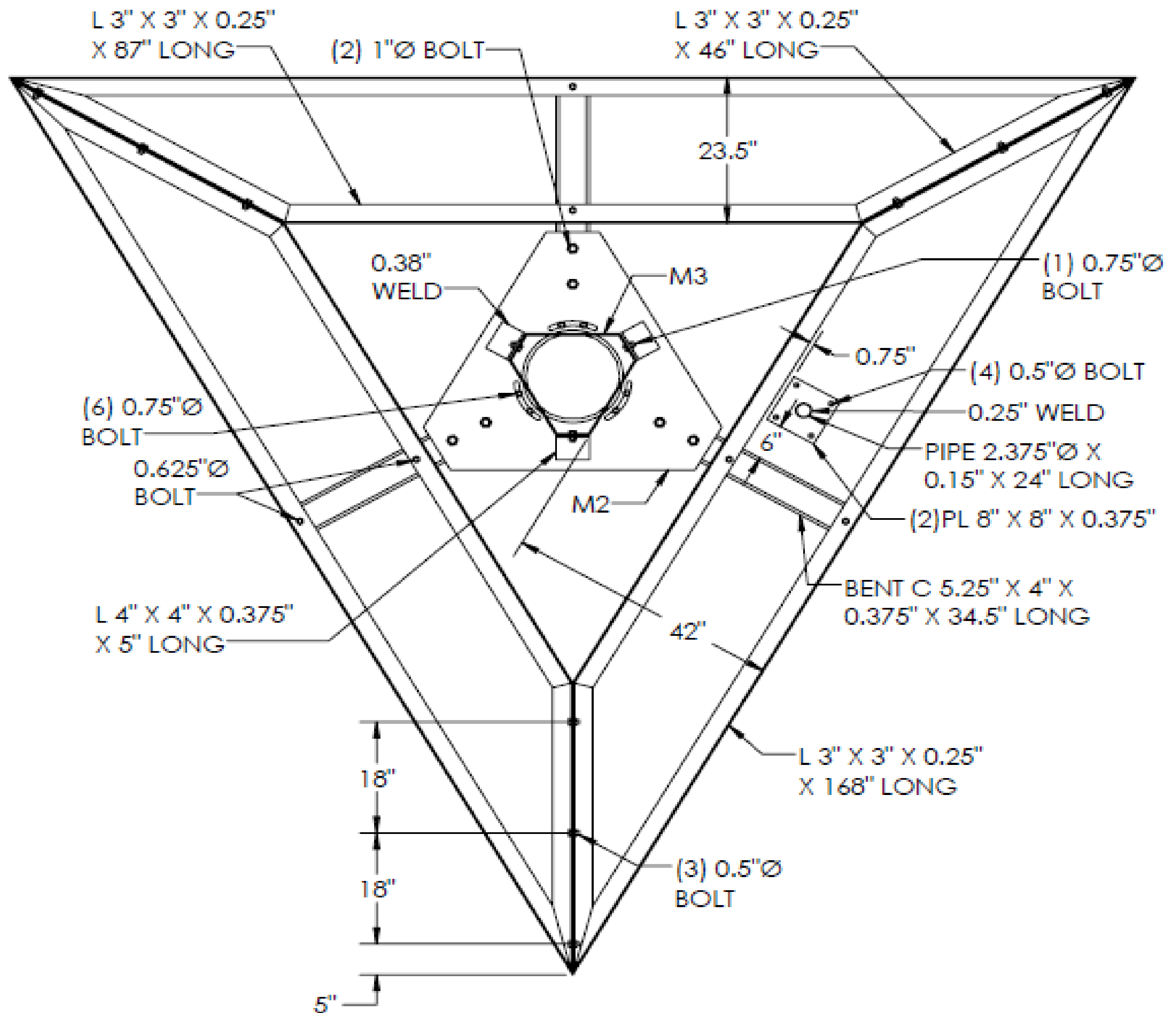
Please Insert Sketches of the Antenna Mount



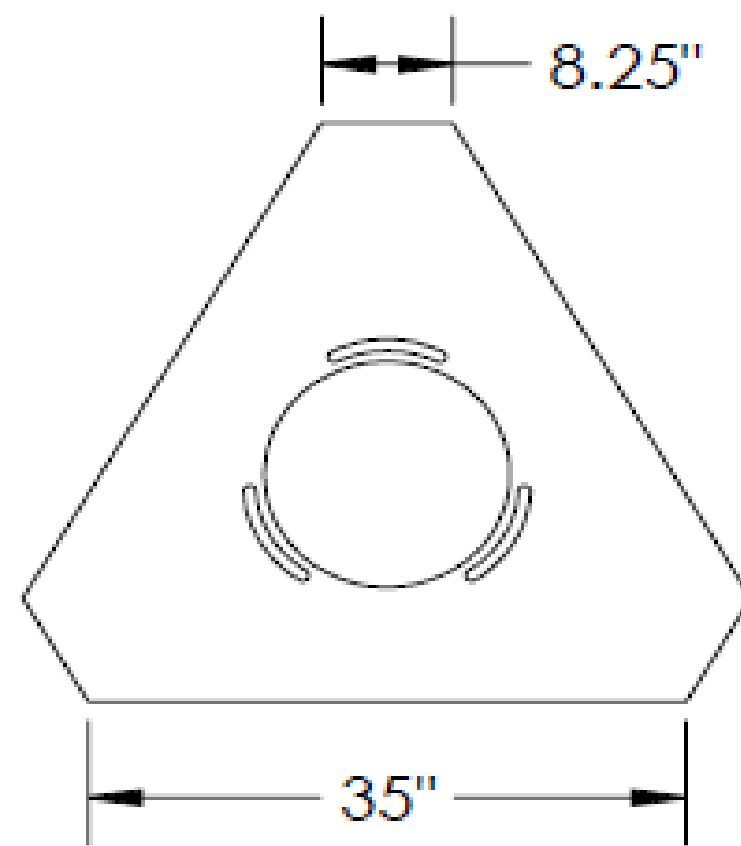
**SECTOR A, B & C**



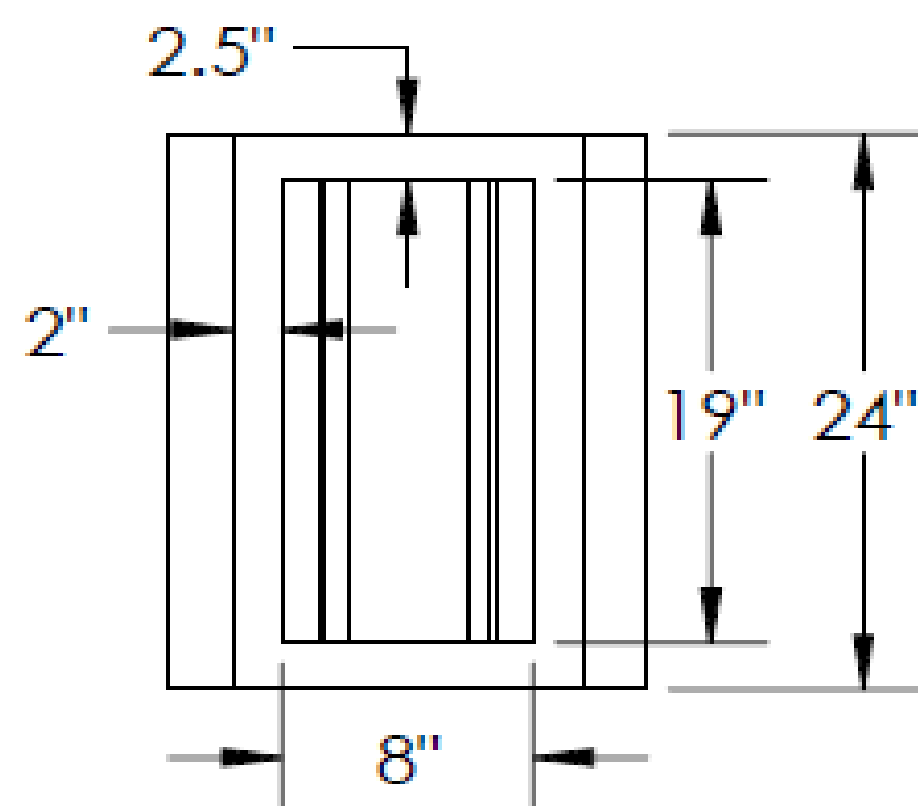
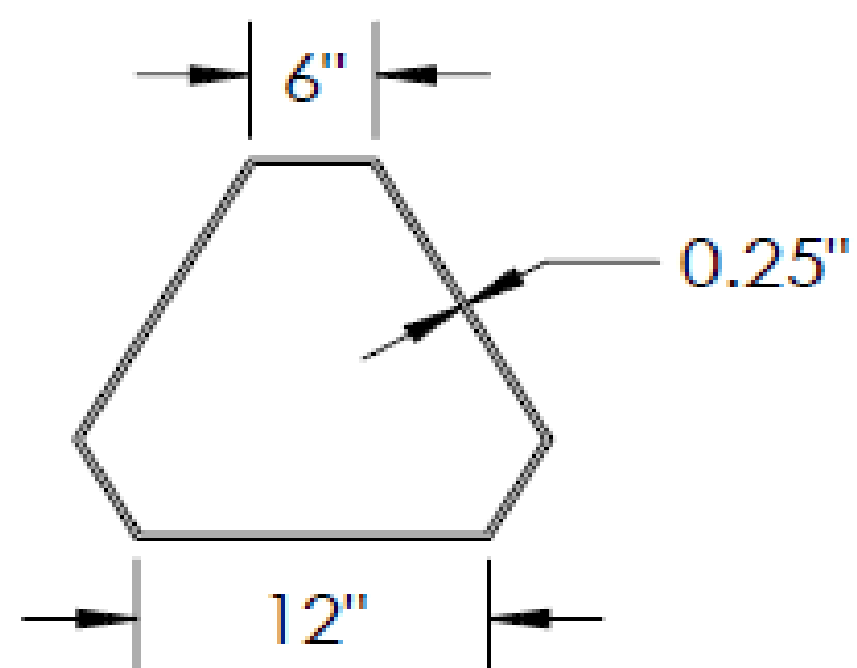
**M1 MEMBER DETAIL**



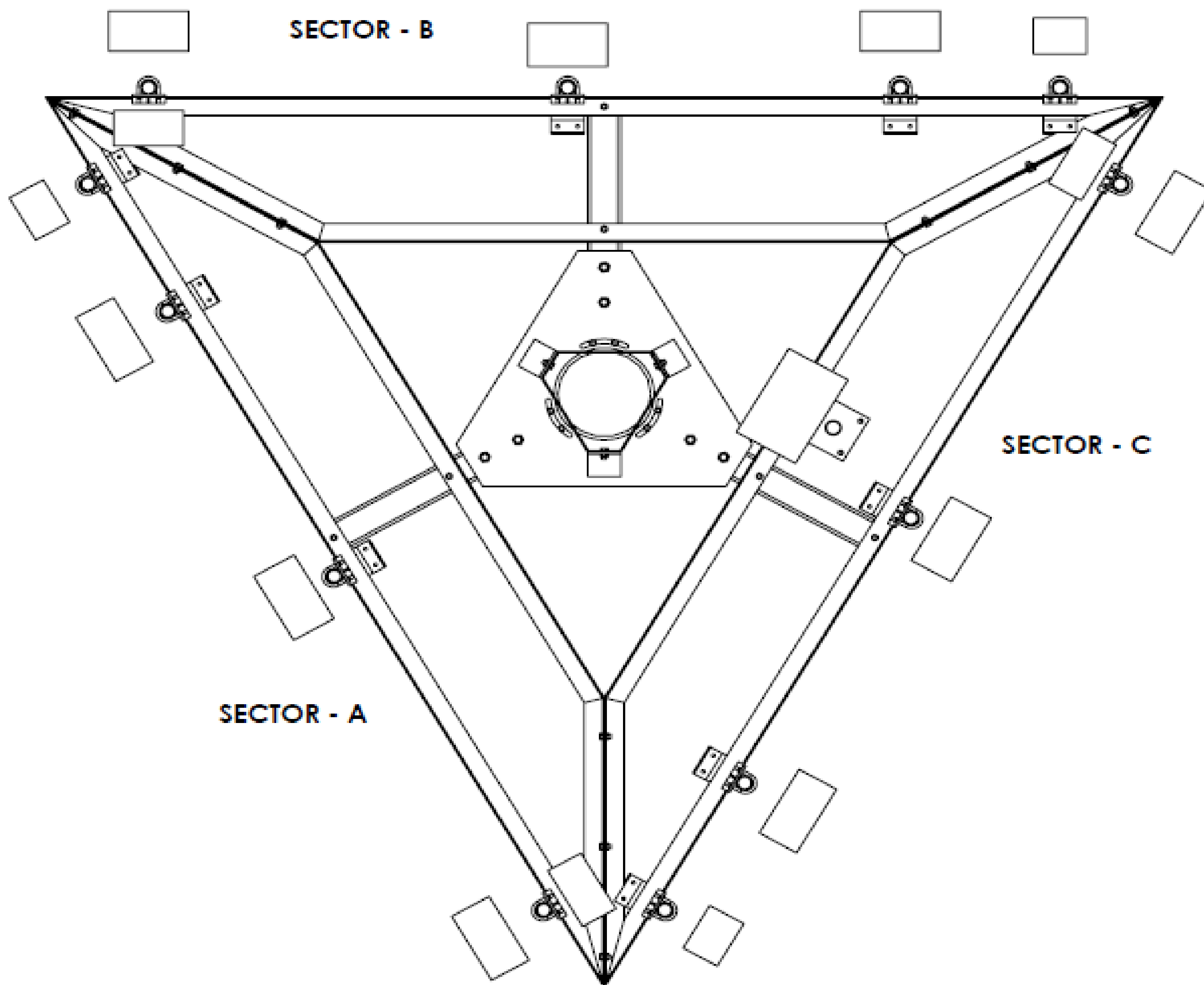
**MOUNT PLAN VIEW**



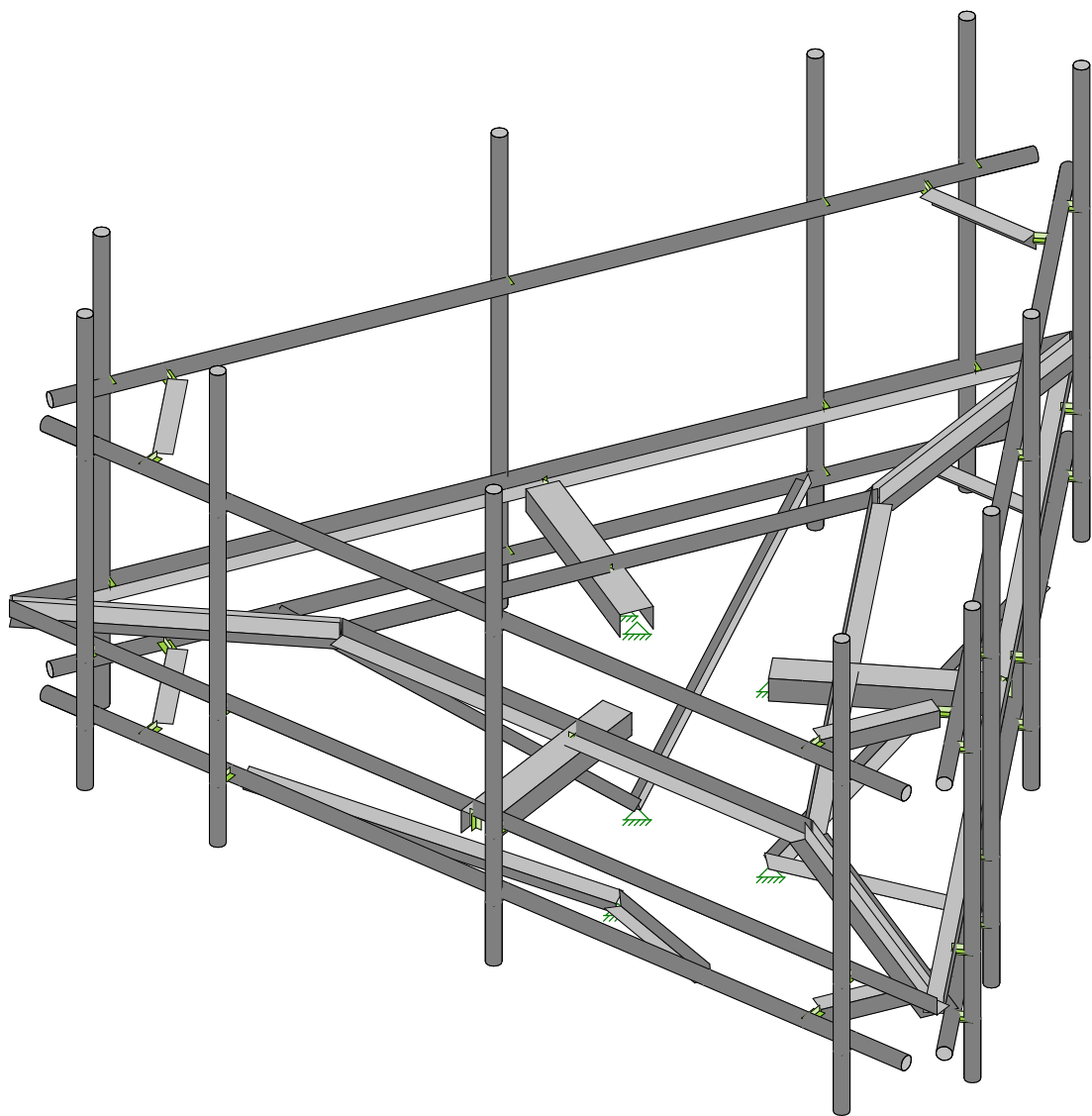
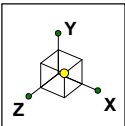
M2 MEMBER DETAIL  
0.75" THK



M3 MEMBER DETAIL



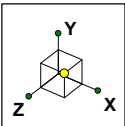
**ANTENNA PLAN VIEW**



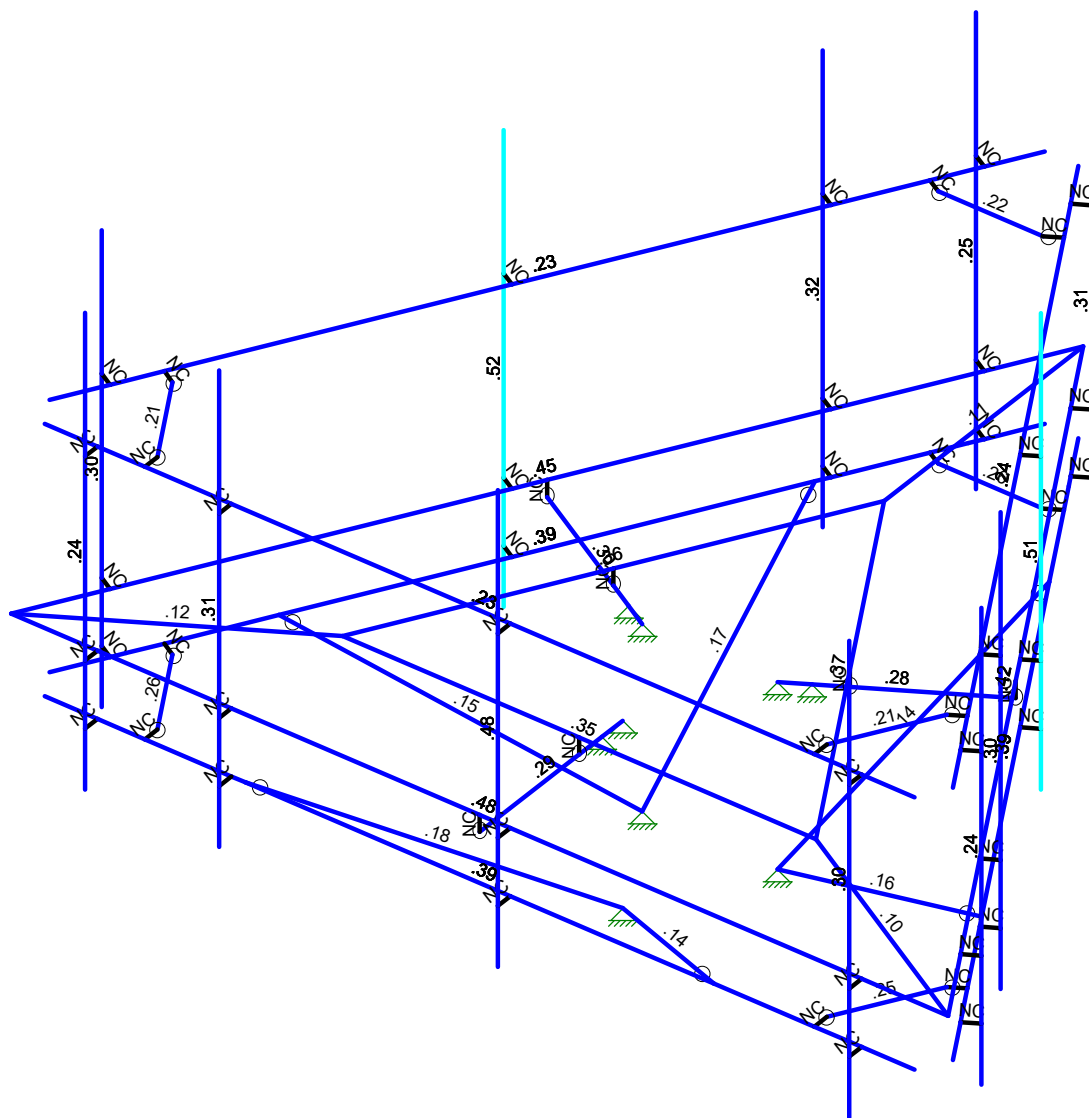
SK - 6

June 21, 2021 at 10:51 AM

468088-VZW\_MT\_LO\_H.r3d



Code Check ( Env )	
No Calc	> 1.0
	.90-1.0
	.75-.90
	.50-.75
	0.-.50

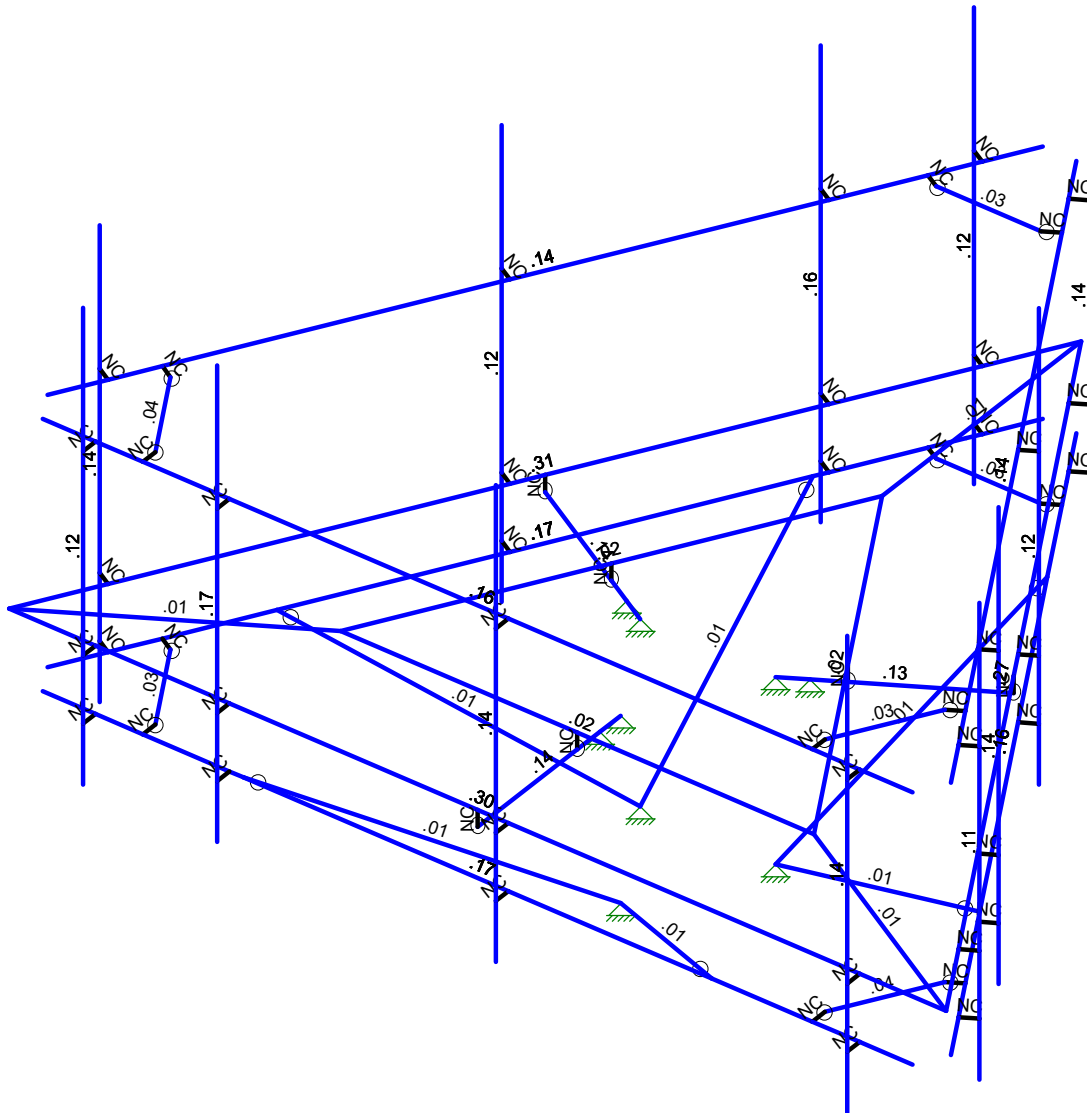
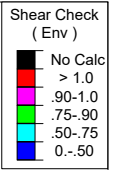
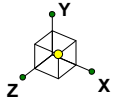


Member Code Checks Displayed (Enveloped)  
Envelope Only Solution

SK - 7

June 21, 2021 at 10:51 AM

468088-VZW\_MT\_LO\_H.r3d



Member Shear Checks Displayed (Enveloped)  
Envelope Only Solution

SK - 8

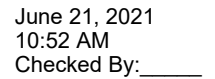
June 21, 2021 at 10:51 AM

468088-VZW\_MT\_LO\_H.r3d

### Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None					96		
2	Antenna Di	None					96		
3	Antenna Wo (0 Deg)	None					96		
4	Antenna Wo (30 Deg)	None					96		
5	Antenna Wo (60 Deg)	None					96		
6	Antenna Wo (90 Deg)	None					96		
7	Antenna Wo (120 Deg)	None					96		
8	Antenna Wo (150 Deg)	None					96		
9	Antenna Wo (180 Deg)	None					96		
10	Antenna Wo (210 Deg)	None					96		
11	Antenna Wo (240 Deg)	None					96		
12	Antenna Wo (270 Deg)	None					96		
13	Antenna Wo (300 Deg)	None					96		
14	Antenna Wo (330 Deg)	None					96		
15	Antenna Wi (0 Deg)	None					96		
16	Antenna Wi (30 Deg)	None					96		
17	Antenna Wi (60 Deg)	None					96		
18	Antenna Wi (90 Deg)	None					96		
19	Antenna Wi (120 Deg)	None					96		
20	Antenna Wi (150 Deg)	None					96		
21	Antenna Wi (180 Deg)	None					96		
22	Antenna Wi (210 Deg)	None					96		
23	Antenna Wi (240 Deg)	None					96		
24	Antenna Wi (270 Deg)	None					96		
25	Antenna Wi (300 Deg)	None					96		
26	Antenna Wi (330 Deg)	None					96		
27	Antenna Wm (0 Deg)	None					96		
28	Antenna Wm (30 Deg)	None					96		
29	Antenna Wm (60 Deg)	None					96		
30	Antenna Wm (90 Deg)	None					96		
31	Antenna Wm (120 Deg)	None					96		
32	Antenna Wm (150 Deg)	None					96		
33	Antenna Wm (180 Deg)	None					96		
34	Antenna Wm (210 Deg)	None					96		
35	Antenna Wm (240 Deg)	None					96		
36	Antenna Wm (270 Deg)	None					96		
37	Antenna Wm (300 Deg)	None					96		
38	Antenna Wm (330 Deg)	None					96		
39	Structure D	None		-1					3
40	Structure Di	None						42	3
41	Structure Wo (0 Deg)	None						84	
42	Structure Wo (30 Deg)	None						84	
43	Structure Wo (60 Deg)	None						84	
44	Structure Wo (90 Deg)	None						84	
45	Structure Wo (120 D...	None						84	
46	Structure Wo (150 D...	None						84	
47	Structure Wo (180 D...	None						84	
48	Structure Wo (210 D...	None						84	
49	Structure Wo (240 D...	None						84	
50	Structure Wo (270 D...	None						84	
51	Structure Wo (300 D...	None						84	
52	Structure Wo (330 D...	None						84	
53	Structure Wi (0 Deg)	None						84	
54	Structure Wi (30 Deg)	None						84	
55	Structure Wi (60 Deg)	None						84	
56	Structure Wi (90 Deg)	None						84	





	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...)	Surface(P...
57	Structure Wi (120 De...	None						84		
58	Structure Wi (150 De...	None						84		
59	Structure Wi (180 De...	None						84		
60	Structure Wi (210 De...	None						84		
61	Structure Wi (240 De...	None						84		
62	Structure Wi (270 De...	None						84		
63	Structure Wi (300 De...	None						84		
64	Structure Wi (330 De...	None						84		
65	Structure Wm (0 Deg)	None						84		
66	Structure Wm (30 De...	None						84		
67	Structure Wm (60 De...	None						84		
68	Structure Wm (90 De...	None						84		
69	Structure Wm (120 D...	None						84		
70	Structure Wm (150 D...	None						84		
71	Structure Wm (180 D...	None						84		
72	Structure Wm (210 D...	None						84		
73	Structure Wm (240 D...	None						84		
74	Structure Wm (270 D...	None						84		
75	Structure Wm (300 D...	None						84		
76	Structure Wm (330 D...	None						84		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	BLC 39 Transient Are...	None						29		
82	BLC 40 Transient Are...	None						29		

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

### Load Combinations (Continued)

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

### Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	0	0	0	0	
2	N2	0.	-.25	1.166452	0	
3	N3	0.	-.25	1.583119	0	
4	N4	-1.010177	-.25	-0.583226	0	
5	N5	-1.371021	-.25	-0.791559	0	
6	N6	1.010177	-.25	-0.583226	0	
7	N7	1.371021	-.25	-0.791559	0	
8	N8	-7.	0	4.041452	0	
9	N9	7.	0	4.041452	0	
10	N10	-0.	0	-8.082904	0	
11	N11	0.	-.25	4.041452	0	
12	N12	-3.5	-.25	-2.020726	0	
13	N13	3.5	-.25	-2.020726	0	
14	N14	0.	0	2.041452	0	

### Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
15	N15	3.535898	0	2.041452	0	
16	N16	-3.535898	0	2.041452	0	
17	N17	1.767949	0	-1.020726	0	
18	N18	-0.	0	-4.082904	0	
19	N19	-1.767949	0	-1.020726	0	
20	N20	5.708333	0	4.041452	0	
21	N21	0.458333	0	4.041452	0	
22	N22	-3.708333	0	4.041452	0	
23	N23	-5.708333	0	4.041452	0	
24	N24	5.708333	0	4.291452	0	
25	N25	0.458333	0	4.291452	0	
26	N26	-3.708333	0	4.291452	0	
27	N27	-5.708333	0	4.291452	0	
28	N28	5.708333	5.104167	4.291452	0	
29	N29	0.458333	5.104167	4.291452	0	
30	N30	-3.708333	5.104167	4.291452	0	
31	N31	-5.708333	5.104167	4.291452	0	
32	N32	5.708333	-1.895833	4.291452	0	
33	N33	0.458333	-1.895833	4.291452	0	
34	N34	-3.708333	-1.895833	4.291452	0	
35	N35	-5.708333	-1.895833	4.291452	0	
36	N36	0.645833	0	-6.964288	0	
37	N37	3.270833	0	-2.417654	0	
38	N38	5.354167	0	1.190785	0	
39	N39	6.354167	0	2.922836	0	
40	N40	0.86234	0	-7.089288	0	
41	N41	3.48734	0	-2.542654	0	
42	N42	5.570673	0	1.065785	0	
43	N43	6.570673	0	2.797836	0	
44	N44	0.86234	5.104167	-7.089288	0	
45	N45	3.48734	5.104167	-2.542654	0	
46	N46	5.570673	5.104167	1.065785	0	
47	N47	6.570673	5.104167	2.797836	0	
48	N48	0.86234	-1.895833	-7.089288	0	
49	N49	3.48734	-1.895833	-2.542654	0	
50	N50	5.570673	-1.895833	1.065785	0	
51	N51	6.570673	-1.895833	2.797836	0	
52	N52	-6.354167	0	2.922836	0	
53	N53	-3.729167	0	-1.623798	0	
54	N54	-1.645833	0	-5.232237	0	
55	N55	-0.645833	0	-6.964288	0	
56	N56	-6.570673	0	2.797836	0	
57	N57	-3.945673	0	-1.748798	0	
58	N58	-1.86234	0	-5.357237	0	
59	N59	-0.86234	0	-7.089288	0	
60	N60	-6.570673	5.104167	2.797836	0	
61	N61	-3.945673	5.104167	-1.748798	0	
62	N62	-1.86234	5.104167	-5.357237	0	
63	N63	-0.86234	5.104167	-7.089288	0	
64	N64	-6.570673	-1.895833	2.797836	0	
65	N65	-3.945673	-1.895833	-1.748798	0	
66	N66	-1.86234	-1.895833	-5.357237	0	
67	N67	-0.86234	-1.895833	-7.089288	0	
68	N74	0.	0	4.041452	0	
69	N75	-3.5	0	-2.020726	0	
70	N76	3.5	0	-2.020726	0	
71	N77	0.	-0.25	2.041452	0	

### Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
72	N78	1.767949	-.25	-1.020726	0	
73	N79	-1.767949	-.25	-1.020726	0	
74	N80	5.708333	3	4.041452	0	
75	N81	0.458333	3	4.041452	0	
76	N82	-3.708333	3	4.041452	0	
77	N83	-5.708333	3	4.041452	0	
78	N84	5.708333	3	4.291452	0	
79	N85	0.458333	3	4.291452	0	
80	N86	-3.708333	3	4.291452	0	
81	N87	-5.708333	3	4.291452	0	
82	N88	0.645833	3	-6.964288	0	
83	N89	3.270833	3	-2.417654	0	
84	N90	5.354167	3	1.190785	0	
85	N91	6.354167	3	2.922836	0	
86	N92	0.86234	3	-7.089288	0	
87	N93	3.48734	3	-2.542654	0	
88	N94	5.570673	3	1.065785	0	
89	N95	6.570673	3	2.797836	0	
90	N96	-6.354167	3	2.922836	0	
91	N97	-3.729167	3	-1.623798	0	
92	N98	-1.645833	3	-5.232237	0	
93	N99	-0.645833	3	-6.964288	0	
94	N100	-6.570673	3	2.797836	0	
95	N101	-3.945673	3	-1.748798	0	
96	N102	-1.86234	3	-5.357237	0	
97	N103	-0.86234	3	-7.089288	0	
98	N104	-6.5	3	4.041452	0	
99	N105	6.5	3	4.041452	0	
100	N106	6.75	3	3.608439	0	
101	N107	0.25	3	-7.649891	0	
102	N108	-0.25	3	-7.649891	0	
103	N109	-6.75	3	3.608439	0	
104	N110	-5.	3	4.041452	0	
105	N111	5.	3	4.041452	0	
106	N112	-5.	3	3.791452	0	
107	N113	5	3	3.791452	0	
108	N114	6.	3	2.309401	0	
109	N115	1.	3	-6.350853	0	
110	N116	5.783494	3	2.434401	0	
111	N117	0.783494	3	-6.225853	0	
112	N118	-1.	3	-6.350853	0	
113	N119	-6.	3	2.309401	0	
114	N120	-0.783494	3	-6.225853	0	
115	N121	-5.783494	3	2.434401	0	
116	N116A	5.708333	-1	4.041452	0	
117	N117A	0.458333	-1	4.041452	0	
118	N118A	-3.708333	-1	4.041452	0	
119	N119A	-5.708333	-1	4.041452	0	
120	N120A	5.708333	-1	4.291452	0	
121	N121A	0.458333	-1	4.291452	0	
122	N122	-3.708333	-1	4.291452	0	
123	N123	-5.708333	-1	4.291452	0	
124	N124	0.645833	-1	-6.964288	0	
125	N125	3.270833	-1	-2.417654	0	
126	N126	5.354167	-1	1.190785	0	
127	N127	6.354167	-1	2.922836	0	
128	N128	0.86234	-1	-7.089288	0	

### Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
129	N129	3.48734	-1	-2.542654	0	
130	N130	5.570673	-1	1.065785	0	
131	N131	6.570673	-1	2.797836	0	
132	N132	-6.354167	-1	2.922836	0	
133	N133	-3.729167	-1	-1.623798	0	
134	N134	-1.645833	-1	-5.232237	0	
135	N135	-0.645833	-1	-6.964288	0	
136	N136	-6.570673	-1	2.797836	0	
137	N137	-3.945673	-1	-1.748798	0	
138	N138	-1.86234	-1	-5.357237	0	
139	N139	-0.86234	-1	-7.089288	0	
140	N140	-6.5	-1	4.041452	0	
141	N141	6.5	-1	4.041452	0	
142	N142	6.75	-1	3.608439	0	
143	N143	0.25	-1	-7.649891	0	
144	N144	-0.25	-1	-7.649891	0	
145	N145	-6.75	-1	3.608439	0	
146	N146	-5.	-1	4.041452	0	
147	N147	5.5	-1	4.041452	0	
148	N148	-5.	-1	3.791452	0	
149	N149	5.5	-1	3.791452	0	
150	N150	6.25	-1	2.742414	0	
151	N151	0.75	-1	-6.783866	0	
152	N152	6.033494	-1	2.867414	0	
153	N153	0.533494	-1	-6.658866	0	
154	N154	-0.75	-1	-6.783866	0	
155	N155	-6.25	-1	2.742414	0	
156	N156	-0.533494	-1	-6.658866	0	
157	N157	-6.033494	-1	2.867414	0	
158	N158	-3.5	-1	4.041452	0	
159	N159	3.5	-1	4.041452	0	
160	N160	0.	-3	1.166452	0	
161	N161	5.25	-1	1.010363	0	
162	N162	1.75	-1	-5.051815	0	
163	N163	1.010177	-3	-0.583226	0	
164	N164	-1.75	-1	-5.051815	0	
165	N165	-5.25	-1	1.010363	0	
166	N166	-1.010177	-3	-0.583226	0	
167	N168	5.	-1	4.041452	0	
168	N170	5	-1	3.791452	0	
169	N171	6.	-1	2.309401	0	
170	N172	1.	-1	-6.350853	0	
171	N173	5.783494	-1	2.434401	0	
172	N174	0.783494	-1	-6.225853	0	
173	N175	-1.	-1	-6.350853	0	
174	N176	-6.	-1	2.309401	0	
175	N177	-0.783494	-1	-6.225853	0	
176	N178	-5.783494	-1	2.434401	0	

### Hot Rolled Steel Section Sets

	Label	Shape	Type	Design L...	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face	L3X3X4	None	None	A36 Gr.36	Typical	1.44	1.23	1.23	.031
2	Standoff	C5.25x4X0.375	None	None	A36 Gr.36	Typical	4.688	7.568	20.707	.207
3	Grating Support	L3X3X4	None	None	A36 Gr.36	Typical	1.44	1.23	1.23	.031
4	Grating Corner Support	LL3x3x4x0	None	None	A36 Gr.36	Typical	2.88	4.5	2.46	.063

### Hot Rolled Steel Section Sets (Continued)

	Label	Shape	Type	Design L...	Material	Design ...	A [in <sup>2</sup> ]	I <sub>yy</sub> [in <sup>4</sup> ]	I <sub>zz</sub> [in <sup>4</sup> ]	J [in <sup>4</sup> ]
5	Antenna Pipe	PIPE 2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
6	MOD_Antenna Pipe	PIPE 2.5	None	None	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
7	MOD_Support Rail	PIPE 2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
8	MOD_Support Rail Cor...	L3X3X4	None	None	A36 Gr.36	Typical	1.44	1.23	1.23	.031
9	MOD_V-Brace	L2.5x2.5x4	None	None	A36 Gr.36	Typical	1.19	.692	.692	.026

### Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	L <sub>byy</sub> [ft]	L <sub>bzz</sub> [ft]	L <sub>comp top</sub> [ft]	L <sub>comp bot</sub> [ft]	L-torqu...	K <sub>yy</sub>	K <sub>zz</sub>	C <sub>b</sub>	Function
1	M1	Face	14	7	7							Lateral
2	M2	Face	14	7	7							Lateral
3	M3	Face	14	7	7							Lateral
4	M4	Standoff	2.875									Lateral
5	M5	Standoff	2.875									Lateral
6	M6	Standoff	2.875									Lateral
7	M7	Grating Sup...	7.072									Lateral
8	M8	Grating Sup...	7.072									Lateral
9	M9	Grating Sup...	7.072									Lateral
10	M10	Grating Cor...	4									Lateral
11	M11	Grating Cor...	4									Lateral
12	M12	Grating Cor...	4									Lateral
13	MP1A	Antenna Pipe	7									Lateral
14	MP2A	Antenna Pipe	7									Lateral
15	MP3A	Antenna Pipe	7									Lateral
16	MP4A	Antenna Pipe	7									Lateral
17	MP1B	Antenna Pipe	7									Lateral
18	MP2B	Antenna Pipe	7									Lateral
19	MP3B	Antenna Pipe	7									Lateral
20	MP4B	Antenna Pipe	7									Lateral
21	MP1C	Antenna Pipe	7									Lateral
22	MP2C	Antenna Pipe	7									Lateral
23	MP3C	Antenna Pipe	7									Lateral
24	MP4C	Antenna Pipe	7									Lateral
25	M25	MOD_Supp...	13									Lateral
26	M26	MOD_Supp...	13									Lateral
27	M27	MOD_Supp...	13									Lateral
28	M28	MOD_Supp...	1.567									Lateral
29	M29	MOD_Supp...	1.567									Lateral
30	M30	MOD_Supp...	1.567									Lateral
31	M67	MOD_Supp...	13									Lateral
32	M68	MOD_Supp...	13									Lateral
33	M69	MOD_Supp...	13									Lateral
34	M91	MOD_V-Bra...	4.951									Lateral
35	M92	MOD_V-Bra...	4.951									Lateral
36	M93	MOD_V-Bra...	4.951									Lateral
37	M94	MOD_V-Bra...	4.951									Lateral
38	M95	MOD_V-Bra...	4.951									Lateral
39	M96	MOD_V-Bra...	4.951									Lateral
40	M88	MOD_Supp...	1.567									Lateral
41	M89	MOD_Supp...	1.567									Lateral
42	M90	MOD_Supp...	1.567									Lateral



### Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N8	N9		270	Face	None	None	A36 Gr.36	Typical
2	M2	N10	N8		270	Face	None	None	A36 Gr.36	Typical
3	M3	N9	N10		270	Face	None	None	A36 Gr.36	Typical
4	M4	N2	N11		90	Standoff	None	None	A36 Gr.36	Typical
5	M5	N4	N12		90	Standoff	None	None	A36 Gr.36	Typical
6	M6	N6	N13		90	Standoff	None	None	A36 Gr.36	Typical
7	M7	N15	N16		270	Grating Support	None	None	A36 Gr.36	Typical
8	M8	N16	N18		270	Grating Support	None	None	A36 Gr.36	Typical
9	M9	N18	N15		270	Grating Support	None	None	A36 Gr.36	Typical
10	M10	N15	N9		180	Grating Corner...	None	None	A36 Gr.36	Typical
11	M11	N16	N8		180	Grating Corner...	None	None	A36 Gr.36	Typical
12	M12	N18	N10		180	Grating Corner...	None	None	A36 Gr.36	Typical
13	MP1A	N28	N32			Antenna Pipe	None	None	A53 Gr.B	Typical
14	MP2A	N29	N33			Antenna Pipe	None	None	A53 Gr.B	Typical
15	MP3A	N30	N34			Antenna Pipe	None	None	A53 Gr.B	Typical
16	MP4A	N31	N35			Antenna Pipe	None	None	A53 Gr.B	Typical
17	MP1B	N60	N64			Antenna Pipe	None	None	A53 Gr.B	Typical
18	MP2B	N61	N65			Antenna Pipe	None	None	A53 Gr.B	Typical
19	MP3B	N62	N66			Antenna Pipe	None	None	A53 Gr.B	Typical
20	MP4B	N63	N67			Antenna Pipe	None	None	A53 Gr.B	Typical
21	MP1C	N44	N48			Antenna Pipe	None	None	A53 Gr.B	Typical
22	MP2C	N45	N49			Antenna Pipe	None	None	A53 Gr.B	Typical
23	MP3C	N46	N50			Antenna Pipe	None	None	A53 Gr.B	Typical
24	MP4C	N47	N51			Antenna Pipe	None	None	A53 Gr.B	Typical
25	M25	N104	N105			MOD_Support ...	None	None	A53 Gr.B	Typical
26	M26	N108	N109			MOD_Support ...	None	None	A53 Gr.B	Typical
27	M27	N106	N107			MOD_Support ...	None	None	A53 Gr.B	Typical
28	M28	N112	N121		90	MOD_Support ...	None	None	A36 Gr.36	Typical
29	M29	N120	N117		90	MOD_Support ...	None	None	A36 Gr.36	Typical
30	M30	N116	N113		90	MOD_Support ...	None	None	A36 Gr.36	Typical
31	M31	N20	N24			RIGID	None	None	RIGID	Typical
32	M32	N21	N25			RIGID	None	None	RIGID	Typical
33	M33	N22	N26			RIGID	None	None	RIGID	Typical
34	M34	N23	N27			RIGID	None	None	RIGID	Typical
35	M35	N36	N40			RIGID	None	None	RIGID	Typical
36	M36	N37	N41			RIGID	None	None	RIGID	Typical
37	M37	N38	N42			RIGID	None	None	RIGID	Typical
38	M38	N39	N43			RIGID	None	None	RIGID	Typical
39	M39	N52	N56			RIGID	None	None	RIGID	Typical
40	M40	N53	N57			RIGID	None	None	RIGID	Typical
41	M41	N54	N58			RIGID	None	None	RIGID	Typical
42	M42	N55	N59			RIGID	None	None	RIGID	Typical
43	M43	N11	N74			RIGID	None	None	RIGID	Typical
44	M44	N77	N14			RIGID	None	None	RIGID	Typical
45	M45	N12	N75			RIGID	None	None	RIGID	Typical
46	M46	N79	N19			RIGID	None	None	RIGID	Typical
47	M47	N13	N76			RIGID	None	None	RIGID	Typical
48	M48	N78	N17			RIGID	None	None	RIGID	Typical
49	M49	N80	N84			RIGID	None	None	RIGID	Typical
50	M50	N81	N85			RIGID	None	None	RIGID	Typical
51	M51	N82	N86			RIGID	None	None	RIGID	Typical
52	M52	N83	N87			RIGID	None	None	RIGID	Typical
53	M53	N88	N92			RIGID	None	None	RIGID	Typical
54	M54	N89	N93			RIGID	None	None	RIGID	Typical
55	M55	N90	N94			RIGID	None	None	RIGID	Typical
56	M56	N91	N95			RIGID	None	None	RIGID	Typical

### Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
57	M57	N96	N100			RIGID	None	None	RIGID	Typical
58	M58	N97	N101			RIGID	None	None	RIGID	Typical
59	M59	N98	N102			RIGID	None	None	RIGID	Typical
60	M60	N99	N103			RIGID	None	None	RIGID	Typical
61	M61	N112	N110			RIGID	None	None	RIGID	Typical
62	M62	N113	N111			RIGID	None	None	RIGID	Typical
63	M63	N116	N114			RIGID	None	None	RIGID	Typical
64	M64	N117	N115			RIGID	None	None	RIGID	Typical
65	M65	N120	N118			RIGID	None	None	RIGID	Typical
66	M66	N121	N119			RIGID	None	None	RIGID	Typical
67	M67	N140	N141			MOD_Support ...	None	None	A53 Gr.B	Typical
68	M68	N144	N145			MOD_Support ...	None	None	A53 Gr.B	Typical
69	M69	N142	N143			MOD_Support ...	None	None	A53 Gr.B	Typical
70	M73	N116A	N120A			RIGID	None	None	RIGID	Typical
71	M74	N117A	N121A			RIGID	None	None	RIGID	Typical
72	M75	N118A	N122			RIGID	None	None	RIGID	Typical
73	M76	N119A	N123			RIGID	None	None	RIGID	Typical
74	M77	N124	N128			RIGID	None	None	RIGID	Typical
75	M78	N125	N129			RIGID	None	None	RIGID	Typical
76	M79	N126	N130			RIGID	None	None	RIGID	Typical
77	M80	N127	N131			RIGID	None	None	RIGID	Typical
78	M81	N132	N136			RIGID	None	None	RIGID	Typical
79	M82	N133	N137			RIGID	None	None	RIGID	Typical
80	M83	N134	N138			RIGID	None	None	RIGID	Typical
81	M84	N135	N139			RIGID	None	None	RIGID	Typical
82	M91	N158	N160			MOD_V-Brace	None	None	A36 Gr.36	Typical
83	M92	N159	N160		270	MOD_V-Brace	None	None	A36 Gr.36	Typical
84	M93	N165	N166		270	MOD_V-Brace	None	None	A36 Gr.36	Typical
85	M94	N164	N166			MOD_V-Brace	None	None	A36 Gr.36	Typical
86	M95	N162	N163		270	MOD_V-Brace	None	None	A36 Gr.36	Typical
87	M96	N161	N163			MOD_V-Brace	None	None	A36 Gr.36	Typical
88	M88	N148	N178		90	MOD_Support ...	None	None	A36 Gr.36	Typical
89	M89	N177	N174		90	MOD_Support ...	None	None	A36 Gr.36	Typical
90	M90	N173	N170		90	MOD_Support ...	None	None	A36 Gr.36	Typical
91	M91A	N148	N146			RIGID	None	None	RIGID	Typical
92	M92A	N170	N168			RIGID	None	None	RIGID	Typical
93	M93A	N173	N171			RIGID	None	None	RIGID	Typical
94	M94A	N174	N172			RIGID	None	None	RIGID	Typical
95	M95A	N177	N175			RIGID	None	None	RIGID	Typical
96	M96A	N178	N176			RIGID	None	None	RIGID	Typical

### Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes	** NA **			None
2	M2						Yes	** NA **			None
3	M3						Yes	** NA **			None
4	M4						Yes	** NA **			None
5	M5						Yes	** NA **			None
6	M6						Yes	** NA **			None
7	M7						Yes	** NA **			None
8	M8						Yes	** NA **			None
9	M9						Yes	** NA **			None
10	M10						Yes	** NA **			None
11	M11						Yes	** NA **			None
12	M12						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...
13	MP1A						Yes	** NA **			None
14	MP2A						Yes	** NA **			None
15	MP3A						Yes	** NA **			None
16	MP4A						Yes	** NA **			None
17	MP1B						Yes	** NA **			None
18	MP2B						Yes	** NA **			None
19	MP3B						Yes	** NA **			None
20	MP4B						Yes	** NA **			None
21	MP1C						Yes	** NA **			None
22	MP2C						Yes	** NA **			None
23	MP3C						Yes	** NA **			None
24	MP4C						Yes	** NA **			None
25	M25						Yes	** NA **			None
26	M26						Yes	** NA **			None
27	M27						Yes	** NA **			None
28	M28						Yes	** NA **			None
29	M29						Yes	** NA **			None
30	M30						Yes	** NA **			None
31	M31						Yes	** NA **			None
32	M32						Yes	** NA **			None
33	M33						Yes	** NA **			None
34	M34						Yes	** NA **			None
35	M35						Yes	** NA **			None
36	M36						Yes	** NA **			None
37	M37						Yes	** NA **			None
38	M38						Yes	** NA **			None
39	M39						Yes	** NA **			None
40	M40						Yes	** NA **			None
41	M41						Yes	** NA **			None
42	M42						Yes	** NA **			None
43	M43		OOOXOO				Yes	** NA **			None
44	M44		OOOXOO				Yes	** NA **			None
45	M45		OOOXOO				Yes	** NA **			None
46	M46		OOOXOO				Yes	** NA **			None
47	M47		OOOXOO				Yes	** NA **			None
48	M48		OOOXOO				Yes	** NA **			None
49	M49						Yes	** NA **			None
50	M50						Yes	** NA **			None
51	M51						Yes	** NA **			None
52	M52						Yes	** NA **			None
53	M53						Yes	** NA **			None
54	M54						Yes	** NA **			None
55	M55						Yes	** NA **			None
56	M56						Yes	** NA **			None
57	M57						Yes	** NA **			None
58	M58						Yes	** NA **			None
59	M59						Yes	** NA **			None
60	M60						Yes	** NA **			None
61	M61		OOOOOO				Yes	** NA **			None
62	M62		OOOOOO				Yes	** NA **			None
63	M63		OOOOOO				Yes	** NA **			None
64	M64		OOOOOO				Yes	** NA **			None
65	M65		OOOOOO				Yes	** NA **			None
66	M66		OOOOOO				Yes	** NA **			None
67	M67						Yes	** NA **			None
68	M68						Yes	** NA **			None
69	M69						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...
70	M73						Yes	** NA **			None
71	M74						Yes	** NA **			None
72	M75						Yes	** NA **			None
73	M76						Yes	** NA **			None
74	M77						Yes	** NA **			None
75	M78						Yes	** NA **			None
76	M79						Yes	** NA **			None
77	M80						Yes	** NA **			None
78	M81						Yes	** NA **			None
79	M82						Yes	** NA **			None
80	M83						Yes	** NA **			None
81	M84						Yes	** NA **			None
82	M91	BenPIN					Yes	** NA **			None
83	M92	BenPIN					Yes	** NA **			None
84	M93	BenPIN					Yes	** NA **			None
85	M94	BenPIN					Yes	** NA **			None
86	M95	BenPIN					Yes	** NA **			None
87	M96	BenPIN					Yes	** NA **			None
88	M88						Yes	** NA **			None
89	M89						Yes	** NA **			None
90	M90						Yes	** NA **			None
91	M91A		OOOOOO				Yes	** NA **			None
92	M92A		OOOOOO				Yes	** NA **			None
93	M93A		OOOOOO				Yes	** NA **			None
94	M94A		OOOOOO				Yes	** NA **			None
95	M95A		OOOOOO				Yes	** NA **			None
96	M96A		OOOOOO				Yes	** NA **			None

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-43.55	2
2	MP1A	My	-.021	2
3	MP1A	Mz	.006	2
4	MP1A	Y	-43.55	4
5	MP1A	My	-.021	4
6	MP1A	Mz	.006	4
7	MP1B	Y	-43.55	2
8	MP1B	My	.006	2
9	MP1B	Mz	-.021	2
10	MP1B	Y	-43.55	4
11	MP1B	My	.006	4
12	MP1B	Mz	-.021	4
13	MP1C	Y	-43.55	2
14	MP1C	My	.015	2
15	MP1C	Mz	.015	2
16	MP1C	Y	-43.55	4
17	MP1C	My	.015	4
18	MP1C	Mz	.015	4
19	MP2A	Y	-21.85	.5
20	MP2A	My	-.007	.5
21	MP2A	Mz	.016	.5
22	MP2A	Y	-21.85	6.5
23	MP2A	My	-.007	6.5
24	MP2A	Mz	.016	6.5
25	MP2B	Y	-21.85	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
26	MP2B	My	-.01	.5
27	MP2B	Mz	-.014	.5
28	MP2B	Y	-21.85	6.5
29	MP2B	My	-.01	6.5
30	MP2B	Mz	-.014	6.5
31	MP2C	Y	-21.85	.5
32	MP2C	My	.017	.5
33	MP2C	Mz	-.002	.5
34	MP2C	Y	-21.85	6.5
35	MP2C	My	.017	6.5
36	MP2C	Mz	-.002	6.5
37	MP2A	Y	-21.85	.5
38	MP2A	My	-.014	.5
39	MP2A	Mz	-.01	.5
40	MP2A	Y	-21.85	6.5
41	MP2A	My	-.014	6.5
42	MP2A	Mz	-.01	6.5
43	MP2B	Y	-21.85	.5
44	MP2B	My	.016	.5
45	MP2B	Mz	-.007	.5
46	MP2B	Y	-21.85	6.5
47	MP2B	My	.016	6.5
48	MP2B	Mz	-.007	6.5
49	MP2C	Y	-21.85	.5
50	MP2C	My	-.002	.5
51	MP2C	Mz	.017	.5
52	MP2C	Y	-21.85	6.5
53	MP2C	My	-.002	6.5
54	MP2C	Mz	.017	6.5
55	MP4A	Y	-6	1
56	MP4A	My	-.003	1
57	MP4A	Mz	.000776	1
58	MP4A	Y	-6	5
59	MP4A	My	-.003	5
60	MP4A	Mz	.000776	5
61	MP4B	Y	-6	1
62	MP4B	My	.000776	1
63	MP4B	Mz	-.003	1
64	MP4B	Y	-6	5
65	MP4B	My	.000776	5
66	MP4B	Mz	-.003	5
67	MP4C	Y	-6	1
68	MP4C	My	.002	1
69	MP4C	Mz	.002	1
70	MP4C	Y	-6	5
71	MP4C	My	.002	5
72	MP4C	Mz	.002	5
73	MP2A	Y	-84.4	2.5
74	MP2A	My	-.041	2.5
75	MP2A	Mz	.011	2.5
76	MP2B	Y	-84.4	2.5
77	MP2B	My	-.041	2.5
78	MP2B	Mz	.011	2.5
79	MP2C	Y	-84.4	2.5
80	MP2C	My	-.041	2.5
81	MP2C	Mz	.011	2.5
82	MP3A	Y	-70.3	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
83	MP3A	My	-.034	4
84	MP3A	Mz	.009	4
85	MP3B	Y	-70.3	4
86	MP3B	My	-.034	4
87	MP3B	Mz	.009	4
88	MP3C	Y	-70.3	2.5
89	MP3C	My	-.034	2.5
90	MP3C	Mz	.009	2.5
91	MP3A	Y	-32	1.5
92	MP3A	My	.015	1.5
93	MP3A	Mz	-.004	1.5
94	MP3B	Y	-32	1.5
95	MP3B	My	.015	1.5
96	MP3B	Mz	-.004	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	Y	-57.84	2
2	MP1A	My	-.028	2
3	MP1A	Mz	.007	2
4	MP1A	Y	-57.84	4
5	MP1A	My	-.028	4
6	MP1A	Mz	.007	4
7	MP1B	Y	-57.84	2
8	MP1B	My	.007	2
9	MP1B	Mz	-.028	2
10	MP1B	Y	-57.84	4
11	MP1B	My	.007	4
12	MP1B	Mz	-.028	4
13	MP1C	Y	-57.84	2
14	MP1C	My	.02	2
15	MP1C	Mz	.02	2
16	MP1C	Y	-57.84	4
17	MP1C	My	.02	4
18	MP1C	Mz	.02	4
19	MP2A	Y	-97.959	.5
20	MP2A	My	-.031	.5
21	MP2A	Mz	.072	.5
22	MP2A	Y	-97.959	6.5
23	MP2A	My	-.031	6.5
24	MP2A	Mz	.072	6.5
25	MP2B	Y	-97.959	.5
26	MP2B	My	-.046	.5
27	MP2B	Mz	-.063	.5
28	MP2B	Y	-97.959	6.5
29	MP2B	My	-.046	6.5
30	MP2B	Mz	-.063	6.5
31	MP2C	Y	-97.959	.5
32	MP2C	My	.078	.5
33	MP2C	Mz	-.009	.5
34	MP2C	Y	-97.959	6.5
35	MP2C	My	.078	6.5
36	MP2C	Mz	-.009	6.5
37	MP2A	Y	-97.959	.5
38	MP2A	My	-.063	.5
39	MP2A	Mz	-.046	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
40	MP2A	Y	-97.959	6.5
41	MP2A	My	-.063	6.5
42	MP2A	Mz	-.046	6.5
43	MP2B	Y	-97.959	.5
44	MP2B	My	.072	.5
45	MP2B	Mz	-.031	.5
46	MP2B	Y	-97.959	6.5
47	MP2B	My	.072	6.5
48	MP2B	Mz	-.031	6.5
49	MP2C	Y	-97.959	.5
50	MP2C	My	-.009	.5
51	MP2C	Mz	.078	.5
52	MP2C	Y	-97.959	6.5
53	MP2C	My	-.009	6.5
54	MP2C	Mz	.078	6.5
55	MP4A	Y	-50.616	1
56	MP4A	My	-.024	1
57	MP4A	Mz	.007	1
58	MP4A	Y	-50.616	5
59	MP4A	My	-.024	5
60	MP4A	Mz	.007	5
61	MP4B	Y	-50.616	1
62	MP4B	My	.007	1
63	MP4B	Mz	-.024	1
64	MP4B	Y	-50.616	5
65	MP4B	My	.007	5
66	MP4B	Mz	-.024	5
67	MP4C	Y	-50.616	1
68	MP4C	My	.018	1
69	MP4C	Mz	.018	1
70	MP4C	Y	-50.616	5
71	MP4C	My	.018	5
72	MP4C	Mz	.018	5
73	MP2A	Y	-73.549	2.5
74	MP2A	My	-.036	2.5
75	MP2A	Mz	.01	2.5
76	MP2B	Y	-73.549	2.5
77	MP2B	My	-.036	2.5
78	MP2B	Mz	.01	2.5
79	MP2C	Y	-73.549	2.5
80	MP2C	My	-.036	2.5
81	MP2C	Mz	.01	2.5
82	MP3A	Y	-66.421	4
83	MP3A	My	-.032	4
84	MP3A	Mz	.009	4
85	MP3B	Y	-66.421	4
86	MP3B	My	-.032	4
87	MP3B	Mz	.009	4
88	MP3C	Y	-66.421	2.5
89	MP3C	My	-.032	2.5
90	MP3C	Mz	.009	2.5
91	MP3A	Y	-122.709	1.5
92	MP3A	My	.059	1.5
93	MP3A	Mz	-.016	1.5
94	MP3B	Y	-122.709	1.5
95	MP3B	My	.059	1.5
96	MP3B	Mz	-.016	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	0	2
2	MP1A	Z	-79.174	2
3	MP1A	Mx	-.01	2
4	MP1A	X	0	4
5	MP1A	Z	-79.174	4
6	MP1A	Mx	-.01	4
7	MP1B	X	0	2
8	MP1B	Z	-35.678	2
9	MP1B	Mx	.017	2
10	MP1B	X	0	4
11	MP1B	Z	-35.678	4
12	MP1B	Mx	.017	4
13	MP1C	X	0	2
14	MP1C	Z	-57.426	2
15	MP1C	Mx	-.02	2
16	MP1C	X	0	4
17	MP1C	Z	-57.426	4
18	MP1C	Mx	-.02	4
19	MP2A	X	0	.5
20	MP2A	Z	-138.675	.5
21	MP2A	Mx	-.102	.5
22	MP2A	X	0	6.5
23	MP2A	Z	-138.675	6.5
24	MP2A	Mx	-.102	6.5
25	MP2B	X	0	.5
26	MP2B	Z	-97.029	.5
27	MP2B	Mx	.063	.5
28	MP2B	X	0	6.5
29	MP2B	Z	-97.029	6.5
30	MP2B	Mx	.063	6.5
31	MP2C	X	0	.5
32	MP2C	Z	-117.852	.5
33	MP2C	Mx	.01	.5
34	MP2C	X	0	6.5
35	MP2C	Z	-117.852	6.5
36	MP2C	Mx	.01	6.5
37	MP2A	X	0	.5
38	MP2A	Z	-138.675	.5
39	MP2A	Mx	.066	.5
40	MP2A	X	0	6.5
41	MP2A	Z	-138.675	6.5
42	MP2A	Mx	.066	6.5
43	MP2B	X	0	.5
44	MP2B	Z	-97.029	.5
45	MP2B	Mx	.031	.5
46	MP2B	X	0	6.5
47	MP2B	Z	-97.029	6.5
48	MP2B	Mx	.031	6.5
49	MP2C	X	0	.5
50	MP2C	Z	-117.852	.5
51	MP2C	Mx	-.094	.5
52	MP2C	X	0	6.5
53	MP2C	Z	-117.852	6.5
54	MP2C	Mx	-.094	6.5
55	MP4A	X	0	1
56	MP4A	Z	-61.616	1
57	MP4A	Mx	-.008	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP4A	X	0	5
59	MP4A	Z	-61.616	5
60	MP4A	Mx	-.008	5
61	MP4B	X	0	1
62	MP4B	Z	-49.948	1
63	MP4B	Mx	.024	1
64	MP4B	X	0	5
65	MP4B	Z	-49.948	5
66	MP4B	Mx	.024	5
67	MP4C	X	0	1
68	MP4C	Z	-55.782	1
69	MP4C	Mx	-.02	1
70	MP4C	X	0	5
71	MP4C	Z	-55.782	5
72	MP4C	Mx	-.02	5
73	MP2A	X	0	2.5
74	MP2A	Z	-64.221	2.5
75	MP2A	Mx	-.008	2.5
76	MP2B	X	0	2.5
77	MP2B	Z	-64.221	2.5
78	MP2B	Mx	-.008	2.5
79	MP2C	X	0	2.5
80	MP2C	Z	-64.221	2.5
81	MP2C	Mx	-.008	2.5
82	MP3A	X	0	4
83	MP3A	Z	-63.662	4
84	MP3A	Mx	-.008	4
85	MP3B	X	0	4
86	MP3B	Z	-63.662	4
87	MP3B	Mx	-.008	4
88	MP3C	X	0	2.5
89	MP3C	Z	-63.662	2.5
90	MP3C	Mx	-.008	2.5
91	MP3A	X	0	1.5
92	MP3A	Z	-130.101	1.5
93	MP3A	Mx	.017	1.5
94	MP3B	X	0	1.5
95	MP3B	Z	-130.101	1.5
96	MP3B	Mx	.017	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	28.713	2
2	MP1A	Z	-49.733	2
3	MP1A	Mx	-.02	2
4	MP1A	X	28.713	4
5	MP1A	Z	-49.733	4
6	MP1A	Mx	-.02	4
7	MP1B	X	17.839	2
8	MP1B	Z	-30.898	2
9	MP1B	Mx	.017	2
10	MP1B	X	17.839	4
11	MP1B	Z	-30.898	4
12	MP1B	Mx	.017	4
13	MP1C	X	39.587	2
14	MP1C	Z	-68.567	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
15	MP1C	Mx	-.01	2
16	MP1C	X	39.587	4
17	MP1C	Z	-68.567	4
18	MP1C	Mx	-.01	4
19	MP2A	X	58.926	.5
20	MP2A	Z	-102.063	.5
21	MP2A	Mx	-.094	.5
22	MP2A	X	58.926	6.5
23	MP2A	Z	-102.063	6.5
24	MP2A	Mx	-.094	6.5
25	MP2B	X	48.514	.5
26	MP2B	Z	-84.029	.5
27	MP2B	Mx	.031	.5
28	MP2B	X	48.514	6.5
29	MP2B	Z	-84.029	6.5
30	MP2B	Mx	.031	6.5
31	MP2C	X	69.338	.5
32	MP2C	Z	-120.096	.5
33	MP2C	Mx	.066	.5
34	MP2C	X	69.338	6.5
35	MP2C	Z	-120.096	6.5
36	MP2C	Mx	.066	6.5
37	MP2A	X	58.926	.5
38	MP2A	Z	-102.063	.5
39	MP2A	Mx	.01	.5
40	MP2A	X	58.926	6.5
41	MP2A	Z	-102.063	6.5
42	MP2A	Mx	.01	6.5
43	MP2B	X	48.514	.5
44	MP2B	Z	-84.029	.5
45	MP2B	Mx	.063	.5
46	MP2B	X	48.514	6.5
47	MP2B	Z	-84.029	6.5
48	MP2B	Mx	.063	6.5
49	MP2C	X	69.338	.5
50	MP2C	Z	-120.096	.5
51	MP2C	Mx	-.102	.5
52	MP2C	X	69.338	6.5
53	MP2C	Z	-120.096	6.5
54	MP2C	Mx	-.102	6.5
55	MP4A	X	27.891	1
56	MP4A	Z	-48.309	1
57	MP4A	Mx	-.02	1
58	MP4A	X	27.891	5
59	MP4A	Z	-48.309	5
60	MP4A	Mx	-.02	5
61	MP4B	X	24.974	1
62	MP4B	Z	-43.257	1
63	MP4B	Mx	.024	1
64	MP4B	X	24.974	5
65	MP4B	Z	-43.257	5
66	MP4B	Mx	.024	5
67	MP4C	X	30.808	1
68	MP4C	Z	-53.361	1
69	MP4C	Mx	-.008	1
70	MP4C	X	30.808	5
71	MP4C	Z	-53.361	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
72	MP4C	Mx	-.008	5
73	MP2A	X	27.396	2.5
74	MP2A	Z	-47.451	2.5
75	MP2A	Mx	-.019	2.5
76	MP2B	X	27.396	2.5
77	MP2B	Z	-47.451	2.5
78	MP2B	Mx	-.019	2.5
79	MP2C	X	27.396	2.5
80	MP2C	Z	-47.451	2.5
81	MP2C	Mx	-.019	2.5
82	MP3A	X	25.31	4
83	MP3A	Z	-43.839	4
84	MP3A	Mx	-.018	4
85	MP3B	X	25.31	4
86	MP3B	Z	-43.839	4
87	MP3B	Mx	-.018	4
88	MP3C	X	25.31	2.5
89	MP3C	Z	-43.839	2.5
90	MP3C	Mx	-.018	2.5
91	MP3A	X	55.307	1.5
92	MP3A	Z	-95.794	1.5
93	MP3A	Mx	.039	1.5
94	MP3B	X	55.307	1.5
95	MP3B	Z	-95.794	1.5
96	MP3B	Mx	.039	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	30.898	2
2	MP1A	Z	-17.839	2
3	MP1A	Mx	-.017	2
4	MP1A	X	30.898	4
5	MP1A	Z	-17.839	4
6	MP1A	Mx	-.017	4
7	MP1B	X	49.733	2
8	MP1B	Z	-28.713	2
9	MP1B	Mx	.02	2
10	MP1B	X	49.733	4
11	MP1B	Z	-28.713	4
12	MP1B	Mx	.02	4
13	MP1C	X	68.567	2
14	MP1C	Z	-39.587	2
15	MP1C	Mx	.01	2
16	MP1C	X	68.567	4
17	MP1C	Z	-39.587	4
18	MP1C	Mx	.01	4
19	MP2A	X	84.029	.5
20	MP2A	Z	-48.514	.5
21	MP2A	Mx	-.063	.5
22	MP2A	X	84.029	6.5
23	MP2A	Z	-48.514	6.5
24	MP2A	Mx	-.063	6.5
25	MP2B	X	102.063	.5
26	MP2B	Z	-58.926	.5
27	MP2B	Mx	-.01	.5
28	MP2B	X	102.063	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2B	Z	-58.926	6.5
30	MP2B	Mx	-.01	6.5
31	MP2C	X	120.096	.5
32	MP2C	Z	-69.338	.5
33	MP2C	Mx	.102	.5
34	MP2C	X	120.096	6.5
35	MP2C	Z	-69.338	6.5
36	MP2C	Mx	.102	6.5
37	MP2A	X	84.029	.5
38	MP2A	Z	-48.514	.5
39	MP2A	Mx	-.031	.5
40	MP2A	X	84.029	6.5
41	MP2A	Z	-48.514	6.5
42	MP2A	Mx	-.031	6.5
43	MP2B	X	102.063	.5
44	MP2B	Z	-58.926	.5
45	MP2B	Mx	.094	.5
46	MP2B	X	102.063	6.5
47	MP2B	Z	-58.926	6.5
48	MP2B	Mx	.094	6.5
49	MP2C	X	120.096	.5
50	MP2C	Z	-69.338	.5
51	MP2C	Mx	-.066	.5
52	MP2C	X	120.096	6.5
53	MP2C	Z	-69.338	6.5
54	MP2C	Mx	-.066	6.5
55	MP4A	X	43.257	1
56	MP4A	Z	-24.974	1
57	MP4A	Mx	-.024	1
58	MP4A	X	43.257	5
59	MP4A	Z	-24.974	5
60	MP4A	Mx	-.024	5
61	MP4B	X	48.309	1
62	MP4B	Z	-27.891	1
63	MP4B	Mx	.02	1
64	MP4B	X	48.309	5
65	MP4B	Z	-27.891	5
66	MP4B	Mx	.02	5
67	MP4C	X	53.361	1
68	MP4C	Z	-30.808	1
69	MP4C	Mx	.008	1
70	MP4C	X	53.361	5
71	MP4C	Z	-30.808	5
72	MP4C	Mx	.008	5
73	MP2A	X	39.285	2.5
74	MP2A	Z	-22.681	2.5
75	MP2A	Mx	-.022	2.5
76	MP2B	X	39.285	2.5
77	MP2B	Z	-22.681	2.5
78	MP2B	Mx	-.022	2.5
79	MP2C	X	39.285	2.5
80	MP2C	Z	-22.681	2.5
81	MP2C	Mx	-.022	2.5
82	MP3A	X	32.545	4
83	MP3A	Z	-18.79	4
84	MP3A	Mx	-.018	4
85	MP3B	X	32.545	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
86	MP3B	Z	-18.79	4
87	MP3B	Mx	-.018	4
88	MP3C	X	32.545	2.5
89	MP3C	Z	-18.79	2.5
90	MP3C	Mx	-.018	2.5
91	MP3A	X	78.918	1.5
92	MP3A	Z	-45.563	1.5
93	MP3A	Mx	.044	1.5
94	MP3B	X	78.918	1.5
95	MP3B	Z	-45.563	1.5
96	MP3B	Mx	.044	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	35.678	2
2	MP1A	Z	0	2
3	MP1A	Mx	-.017	2
4	MP1A	X	35.678	4
5	MP1A	Z	0	4
6	MP1A	Mx	-.017	4
7	MP1B	X	79.174	2
8	MP1B	Z	0	2
9	MP1B	Mx	.01	2
10	MP1B	X	79.174	4
11	MP1B	Z	0	4
12	MP1B	Mx	.01	4
13	MP1C	X	57.426	2
14	MP1C	Z	0	2
15	MP1C	Mx	.02	2
16	MP1C	X	57.426	4
17	MP1C	Z	0	4
18	MP1C	Mx	.02	4
19	MP2A	X	97.029	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-.031	.5
22	MP2A	X	97.029	6.5
23	MP2A	Z	0	6.5
24	MP2A	Mx	-.031	6.5
25	MP2B	X	138.675	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-.066	.5
28	MP2B	X	138.675	6.5
29	MP2B	Z	0	6.5
30	MP2B	Mx	-.066	6.5
31	MP2C	X	117.852	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.094	.5
34	MP2C	X	117.852	6.5
35	MP2C	Z	0	6.5
36	MP2C	Mx	.094	6.5
37	MP2A	X	97.029	.5
38	MP2A	Z	0	.5
39	MP2A	Mx	-.063	.5
40	MP2A	X	97.029	6.5
41	MP2A	Z	0	6.5
42	MP2A	Mx	-.063	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
43	MP2B	X	138.675	.5
44	MP2B	Z	0	.5
45	MP2B	Mx	.102	.5
46	MP2B	X	138.675	6.5
47	MP2B	Z	0	6.5
48	MP2B	Mx	.102	6.5
49	MP2C	X	117.852	.5
50	MP2C	Z	0	.5
51	MP2C	Mx	-.01	.5
52	MP2C	X	117.852	6.5
53	MP2C	Z	0	6.5
54	MP2C	Mx	-.01	6.5
55	MP4A	X	49.948	1
56	MP4A	Z	0	1
57	MP4A	Mx	-.024	1
58	MP4A	X	49.948	5
59	MP4A	Z	0	5
60	MP4A	Mx	-.024	5
61	MP4B	X	61.616	1
62	MP4B	Z	0	1
63	MP4B	Mx	.008	1
64	MP4B	X	61.616	5
65	MP4B	Z	0	5
66	MP4B	Mx	.008	5
67	MP4C	X	55.782	1
68	MP4C	Z	0	1
69	MP4C	Mx	.02	1
70	MP4C	X	55.782	5
71	MP4C	Z	0	5
72	MP4C	Mx	.02	5
73	MP2A	X	45.362	2.5
74	MP2A	Z	0	2.5
75	MP2A	Mx	-.022	2.5
76	MP2B	X	45.362	2.5
77	MP2B	Z	0	2.5
78	MP2B	Mx	-.022	2.5
79	MP2C	X	45.362	2.5
80	MP2C	Z	0	2.5
81	MP2C	Mx	-.022	2.5
82	MP3A	X	37.579	4
83	MP3A	Z	0	4
84	MP3A	Mx	-.018	4
85	MP3B	X	37.579	4
86	MP3B	Z	0	4
87	MP3B	Mx	-.018	4
88	MP3C	X	37.579	2.5
89	MP3C	Z	0	2.5
90	MP3C	Mx	-.018	2.5
91	MP3A	X	91.127	1.5
92	MP3A	Z	0	1.5
93	MP3A	Mx	.044	1.5
94	MP3B	X	91.127	1.5
95	MP3B	Z	0	1.5
96	MP3B	Mx	.044	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
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### Member Point Loads (BLC 7 : Antenna Wo (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	49.733	2
2	MP1A	Z	28.713	2
3	MP1A	Mx	-.02	2
4	MP1A	X	49.733	4
5	MP1A	Z	28.713	4
6	MP1A	Mx	-.02	4
7	MP1B	X	68.567	2
8	MP1B	Z	39.587	2
9	MP1B	Mx	-.01	2
10	MP1B	X	68.567	4
11	MP1B	Z	39.587	4
12	MP1B	Mx	-.01	4
13	MP1C	X	30.898	2
14	MP1C	Z	17.839	2
15	MP1C	Mx	.017	2
16	MP1C	X	30.898	4
17	MP1C	Z	17.839	4
18	MP1C	Mx	.017	4
19	MP2A	X	102.063	.5
20	MP2A	Z	58.926	.5
21	MP2A	Mx	.01	.5
22	MP2A	X	102.063	6.5
23	MP2A	Z	58.926	6.5
24	MP2A	Mx	.01	6.5
25	MP2B	X	120.096	.5
26	MP2B	Z	69.338	.5
27	MP2B	Mx	-.102	.5
28	MP2B	X	120.096	6.5
29	MP2B	Z	69.338	6.5
30	MP2B	Mx	-.102	6.5
31	MP2C	X	84.029	.5
32	MP2C	Z	48.514	.5
33	MP2C	Mx	.063	.5
34	MP2C	X	84.029	6.5
35	MP2C	Z	48.514	6.5
36	MP2C	Mx	.063	6.5
37	MP2A	X	102.063	.5
38	MP2A	Z	58.926	.5
39	MP2A	Mx	-.094	.5
40	MP2A	X	102.063	6.5
41	MP2A	Z	58.926	6.5
42	MP2A	Mx	-.094	6.5
43	MP2B	X	120.096	.5
44	MP2B	Z	69.338	.5
45	MP2B	Mx	.066	.5
46	MP2B	X	120.096	6.5
47	MP2B	Z	69.338	6.5
48	MP2B	Mx	.066	6.5
49	MP2C	X	84.029	.5
50	MP2C	Z	48.514	.5
51	MP2C	Mx	.031	.5
52	MP2C	X	84.029	6.5
53	MP2C	Z	48.514	6.5
54	MP2C	Mx	.031	6.5
55	MP4A	X	48.309	1
56	MP4A	Z	27.891	1
57	MP4A	Mx	-.02	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP4A	X	48.309	5
59	MP4A	Z	27.891	5
60	MP4A	Mx	-.02	5
61	MP4B	X	53.361	1
62	MP4B	Z	30.808	1
63	MP4B	Mx	-.008	1
64	MP4B	X	53.361	5
65	MP4B	Z	30.808	5
66	MP4B	Mx	-.008	5
67	MP4C	X	43.257	1
68	MP4C	Z	24.974	1
69	MP4C	Mx	.024	1
70	MP4C	X	43.257	5
71	MP4C	Z	24.974	5
72	MP4C	Mx	.024	5
73	MP2A	X	47.451	2.5
74	MP2A	Z	27.396	2.5
75	MP2A	Mx	-.019	2.5
76	MP2B	X	47.451	2.5
77	MP2B	Z	27.396	2.5
78	MP2B	Mx	-.019	2.5
79	MP2C	X	47.451	2.5
80	MP2C	Z	27.396	2.5
81	MP2C	Mx	-.019	2.5
82	MP3A	X	43.839	4
83	MP3A	Z	25.31	4
84	MP3A	Mx	-.018	4
85	MP3B	X	43.839	4
86	MP3B	Z	25.31	4
87	MP3B	Mx	-.018	4
88	MP3C	X	43.839	2.5
89	MP3C	Z	25.31	2.5
90	MP3C	Mx	-.018	2.5
91	MP3A	X	95.794	1.5
92	MP3A	Z	55.307	1.5
93	MP3A	Mx	.039	1.5
94	MP3B	X	95.794	1.5
95	MP3B	Z	55.307	1.5
96	MP3B	Mx	.039	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	39.587	2
2	MP1A	Z	68.567	2
3	MP1A	Mx	-.01	2
4	MP1A	X	39.587	4
5	MP1A	Z	68.567	4
6	MP1A	Mx	-.01	4
7	MP1B	X	28.713	2
8	MP1B	Z	49.733	2
9	MP1B	Mx	-.02	2
10	MP1B	X	28.713	4
11	MP1B	Z	49.733	4
12	MP1B	Mx	-.02	4
13	MP1C	X	17.839	2
14	MP1C	Z	30.898	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
15	MP1C	Mx	.017	2
16	MP1C	X	17.839	4
17	MP1C	Z	30.898	4
18	MP1C	Mx	.017	4
19	MP2A	X	69.338	.5
20	MP2A	Z	120.096	.5
21	MP2A	Mx	.066	.5
22	MP2A	X	69.338	6.5
23	MP2A	Z	120.096	6.5
24	MP2A	Mx	.066	6.5
25	MP2B	X	58.926	.5
26	MP2B	Z	102.063	.5
27	MP2B	Mx	-.094	.5
28	MP2B	X	58.926	6.5
29	MP2B	Z	102.063	6.5
30	MP2B	Mx	-.094	6.5
31	MP2C	X	48.514	.5
32	MP2C	Z	84.029	.5
33	MP2C	Mx	.031	.5
34	MP2C	X	48.514	6.5
35	MP2C	Z	84.029	6.5
36	MP2C	Mx	.031	6.5
37	MP2A	X	69.338	.5
38	MP2A	Z	120.096	.5
39	MP2A	Mx	-.102	.5
40	MP2A	X	69.338	6.5
41	MP2A	Z	120.096	6.5
42	MP2A	Mx	-.102	6.5
43	MP2B	X	58.926	.5
44	MP2B	Z	102.063	.5
45	MP2B	Mx	.01	.5
46	MP2B	X	58.926	6.5
47	MP2B	Z	102.063	6.5
48	MP2B	Mx	.01	6.5
49	MP2C	X	48.514	.5
50	MP2C	Z	84.029	.5
51	MP2C	Mx	.063	.5
52	MP2C	X	48.514	6.5
53	MP2C	Z	84.029	6.5
54	MP2C	Mx	.063	6.5
55	MP4A	X	30.808	1
56	MP4A	Z	53.361	1
57	MP4A	Mx	-.008	1
58	MP4A	X	30.808	5
59	MP4A	Z	53.361	5
60	MP4A	Mx	-.008	5
61	MP4B	X	27.891	1
62	MP4B	Z	48.309	1
63	MP4B	Mx	-.02	1
64	MP4B	X	27.891	5
65	MP4B	Z	48.309	5
66	MP4B	Mx	-.02	5
67	MP4C	X	24.974	1
68	MP4C	Z	43.257	1
69	MP4C	Mx	.024	1
70	MP4C	X	24.974	5
71	MP4C	Z	43.257	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP4C	Mx	.024	5
73	MP2A	X	32.111	2.5
74	MP2A	Z	55.617	2.5
75	MP2A	Mx	-.008	2.5
76	MP2B	X	32.111	2.5
77	MP2B	Z	55.617	2.5
78	MP2B	Mx	-.008	2.5
79	MP2C	X	32.111	2.5
80	MP2C	Z	55.617	2.5
81	MP2C	Mx	-.008	2.5
82	MP3A	X	31.831	4
83	MP3A	Z	55.133	4
84	MP3A	Mx	-.008	4
85	MP3B	X	31.831	4
86	MP3B	Z	55.133	4
87	MP3B	Mx	-.008	4
88	MP3C	X	31.831	2.5
89	MP3C	Z	55.133	2.5
90	MP3C	Mx	-.008	2.5
91	MP3A	X	65.05	1.5
92	MP3A	Z	112.671	1.5
93	MP3A	Mx	.017	1.5
94	MP3B	X	65.05	1.5
95	MP3B	Z	112.671	1.5
96	MP3B	Mx	.017	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	79.174	2
3	MP1A	Mx	.01	2
4	MP1A	X	0	4
5	MP1A	Z	79.174	4
6	MP1A	Mx	.01	4
7	MP1B	X	0	2
8	MP1B	Z	35.678	2
9	MP1B	Mx	-.017	2
10	MP1B	X	0	4
11	MP1B	Z	35.678	4
12	MP1B	Mx	-.017	4
13	MP1C	X	0	2
14	MP1C	Z	57.426	2
15	MP1C	Mx	.02	2
16	MP1C	X	0	4
17	MP1C	Z	57.426	4
18	MP1C	Mx	.02	4
19	MP2A	X	0	.5
20	MP2A	Z	138.675	.5
21	MP2A	Mx	.102	.5
22	MP2A	X	0	6.5
23	MP2A	Z	138.675	6.5
24	MP2A	Mx	.102	6.5
25	MP2B	X	0	.5
26	MP2B	Z	97.029	.5
27	MP2B	Mx	-.063	.5
28	MP2B	X	0	6.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2B	Z	97.029	6.5
30	MP2B	Mx	-.063	6.5
31	MP2C	X	0	.5
32	MP2C	Z	117.852	.5
33	MP2C	Mx	-.01	.5
34	MP2C	X	0	6.5
35	MP2C	Z	117.852	6.5
36	MP2C	Mx	-.01	6.5
37	MP2A	X	0	.5
38	MP2A	Z	138.675	.5
39	MP2A	Mx	-.066	.5
40	MP2A	X	0	6.5
41	MP2A	Z	138.675	6.5
42	MP2A	Mx	-.066	6.5
43	MP2B	X	0	.5
44	MP2B	Z	97.029	.5
45	MP2B	Mx	-.031	.5
46	MP2B	X	0	6.5
47	MP2B	Z	97.029	6.5
48	MP2B	Mx	-.031	6.5
49	MP2C	X	0	.5
50	MP2C	Z	117.852	.5
51	MP2C	Mx	.094	.5
52	MP2C	X	0	6.5
53	MP2C	Z	117.852	6.5
54	MP2C	Mx	.094	6.5
55	MP4A	X	0	1
56	MP4A	Z	61.616	1
57	MP4A	Mx	.008	1
58	MP4A	X	0	5
59	MP4A	Z	61.616	5
60	MP4A	Mx	.008	5
61	MP4B	X	0	1
62	MP4B	Z	49.948	1
63	MP4B	Mx	-.024	1
64	MP4B	X	0	5
65	MP4B	Z	49.948	5
66	MP4B	Mx	-.024	5
67	MP4C	X	0	1
68	MP4C	Z	55.782	1
69	MP4C	Mx	.02	1
70	MP4C	X	0	5
71	MP4C	Z	55.782	5
72	MP4C	Mx	.02	5
73	MP2A	X	0	2.5
74	MP2A	Z	64.221	2.5
75	MP2A	Mx	.008	2.5
76	MP2B	X	0	2.5
77	MP2B	Z	64.221	2.5
78	MP2B	Mx	.008	2.5
79	MP2C	X	0	2.5
80	MP2C	Z	64.221	2.5
81	MP2C	Mx	.008	2.5
82	MP3A	X	0	4
83	MP3A	Z	63.662	4
84	MP3A	Mx	.008	4
85	MP3B	X	0	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
86	MP3B	Z	63.662	4
87	MP3B	Mx	.008	4
88	MP3C	X	0	2.5
89	MP3C	Z	63.662	2.5
90	MP3C	Mx	.008	2.5
91	MP3A	X	0	1.5
92	MP3A	Z	130.101	1.5
93	MP3A	Mx	-.017	1.5
94	MP3B	X	0	1.5
95	MP3B	Z	130.101	1.5
96	MP3B	Mx	-.017	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-28.713	2
2	MP1A	Z	49.733	2
3	MP1A	Mx	.02	2
4	MP1A	X	-28.713	4
5	MP1A	Z	49.733	4
6	MP1A	Mx	.02	4
7	MP1B	X	-17.839	2
8	MP1B	Z	30.898	2
9	MP1B	Mx	-.017	2
10	MP1B	X	-17.839	4
11	MP1B	Z	30.898	4
12	MP1B	Mx	-.017	4
13	MP1C	X	-39.587	2
14	MP1C	Z	68.567	2
15	MP1C	Mx	.01	2
16	MP1C	X	-39.587	4
17	MP1C	Z	68.567	4
18	MP1C	Mx	.01	4
19	MP2A	X	-58.926	.5
20	MP2A	Z	102.063	.5
21	MP2A	Mx	.094	.5
22	MP2A	X	-58.926	6.5
23	MP2A	Z	102.063	6.5
24	MP2A	Mx	.094	6.5
25	MP2B	X	-48.514	.5
26	MP2B	Z	84.029	.5
27	MP2B	Mx	-.031	.5
28	MP2B	X	-48.514	6.5
29	MP2B	Z	84.029	6.5
30	MP2B	Mx	-.031	6.5
31	MP2C	X	-69.338	.5
32	MP2C	Z	120.096	.5
33	MP2C	Mx	-.066	.5
34	MP2C	X	-69.338	6.5
35	MP2C	Z	120.096	6.5
36	MP2C	Mx	-.066	6.5
37	MP2A	X	-58.926	.5
38	MP2A	Z	102.063	.5
39	MP2A	Mx	-.01	.5
40	MP2A	X	-58.926	6.5
41	MP2A	Z	102.063	6.5
42	MP2A	Mx	-.01	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
43	MP2B	X	-48.514	.5
44	MP2B	Z	84.029	.5
45	MP2B	Mx	-.063	.5
46	MP2B	X	-48.514	6.5
47	MP2B	Z	84.029	6.5
48	MP2B	Mx	-.063	6.5
49	MP2C	X	-69.338	.5
50	MP2C	Z	120.096	.5
51	MP2C	Mx	.102	.5
52	MP2C	X	-69.338	6.5
53	MP2C	Z	120.096	6.5
54	MP2C	Mx	.102	6.5
55	MP4A	X	-27.891	1
56	MP4A	Z	48.309	1
57	MP4A	Mx	.02	1
58	MP4A	X	-27.891	5
59	MP4A	Z	48.309	5
60	MP4A	Mx	.02	5
61	MP4B	X	-24.974	1
62	MP4B	Z	43.257	1
63	MP4B	Mx	-.024	1
64	MP4B	X	-24.974	5
65	MP4B	Z	43.257	5
66	MP4B	Mx	-.024	5
67	MP4C	X	-30.808	1
68	MP4C	Z	53.361	1
69	MP4C	Mx	.008	1
70	MP4C	X	-30.808	5
71	MP4C	Z	53.361	5
72	MP4C	Mx	.008	5
73	MP2A	X	-27.396	2.5
74	MP2A	Z	47.451	2.5
75	MP2A	Mx	.019	2.5
76	MP2B	X	-27.396	2.5
77	MP2B	Z	47.451	2.5
78	MP2B	Mx	.019	2.5
79	MP2C	X	-27.396	2.5
80	MP2C	Z	47.451	2.5
81	MP2C	Mx	.019	2.5
82	MP3A	X	-25.31	4
83	MP3A	Z	43.839	4
84	MP3A	Mx	.018	4
85	MP3B	X	-25.31	4
86	MP3B	Z	43.839	4
87	MP3B	Mx	.018	4
88	MP3C	X	-25.31	2.5
89	MP3C	Z	43.839	2.5
90	MP3C	Mx	.018	2.5
91	MP3A	X	-55.307	1.5
92	MP3A	Z	95.794	1.5
93	MP3A	Mx	-.039	1.5
94	MP3B	X	-55.307	1.5
95	MP3B	Z	95.794	1.5
96	MP3B	Mx	-.039	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
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### Member Point Loads (BLC 11 : Antenna Wo (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-30.898	2
2	MP1A	Z	17.839	2
3	MP1A	Mx	.017	2
4	MP1A	X	-30.898	4
5	MP1A	Z	17.839	4
6	MP1A	Mx	.017	4
7	MP1B	X	-49.733	2
8	MP1B	Z	28.713	2
9	MP1B	Mx	-.02	2
10	MP1B	X	-49.733	4
11	MP1B	Z	28.713	4
12	MP1B	Mx	-.02	4
13	MP1C	X	-68.567	2
14	MP1C	Z	39.587	2
15	MP1C	Mx	-.01	2
16	MP1C	X	-68.567	4
17	MP1C	Z	39.587	4
18	MP1C	Mx	-.01	4
19	MP2A	X	-84.029	.5
20	MP2A	Z	48.514	.5
21	MP2A	Mx	.063	.5
22	MP2A	X	-84.029	6.5
23	MP2A	Z	48.514	6.5
24	MP2A	Mx	.063	6.5
25	MP2B	X	-102.063	.5
26	MP2B	Z	58.926	.5
27	MP2B	Mx	.01	.5
28	MP2B	X	-102.063	6.5
29	MP2B	Z	58.926	6.5
30	MP2B	Mx	.01	6.5
31	MP2C	X	-120.096	.5
32	MP2C	Z	69.338	.5
33	MP2C	Mx	-.102	.5
34	MP2C	X	-120.096	6.5
35	MP2C	Z	69.338	6.5
36	MP2C	Mx	-.102	6.5
37	MP2A	X	-84.029	.5
38	MP2A	Z	48.514	.5
39	MP2A	Mx	.031	.5
40	MP2A	X	-84.029	6.5
41	MP2A	Z	48.514	6.5
42	MP2A	Mx	.031	6.5
43	MP2B	X	-102.063	.5
44	MP2B	Z	58.926	.5
45	MP2B	Mx	-.094	.5
46	MP2B	X	-102.063	6.5
47	MP2B	Z	58.926	6.5
48	MP2B	Mx	-.094	6.5
49	MP2C	X	-120.096	.5
50	MP2C	Z	69.338	.5
51	MP2C	Mx	.066	.5
52	MP2C	X	-120.096	6.5
53	MP2C	Z	69.338	6.5
54	MP2C	Mx	.066	6.5
55	MP4A	X	-43.257	1
56	MP4A	Z	24.974	1
57	MP4A	Mx	.024	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP4A	X	-43.257	5
59	MP4A	Z	24.974	5
60	MP4A	Mx	.024	5
61	MP4B	X	-48.309	1
62	MP4B	Z	27.891	1
63	MP4B	Mx	-.02	1
64	MP4B	X	-48.309	5
65	MP4B	Z	27.891	5
66	MP4B	Mx	-.02	5
67	MP4C	X	-53.361	1
68	MP4C	Z	30.808	1
69	MP4C	Mx	-.008	1
70	MP4C	X	-53.361	5
71	MP4C	Z	30.808	5
72	MP4C	Mx	-.008	5
73	MP2A	X	-39.285	2.5
74	MP2A	Z	22.681	2.5
75	MP2A	Mx	.022	2.5
76	MP2B	X	-39.285	2.5
77	MP2B	Z	22.681	2.5
78	MP2B	Mx	.022	2.5
79	MP2C	X	-39.285	2.5
80	MP2C	Z	22.681	2.5
81	MP2C	Mx	.022	2.5
82	MP3A	X	-32.545	4
83	MP3A	Z	18.79	4
84	MP3A	Mx	.018	4
85	MP3B	X	-32.545	4
86	MP3B	Z	18.79	4
87	MP3B	Mx	.018	4
88	MP3C	X	-32.545	2.5
89	MP3C	Z	18.79	2.5
90	MP3C	Mx	.018	2.5
91	MP3A	X	-78.918	1.5
92	MP3A	Z	45.563	1.5
93	MP3A	Mx	-.044	1.5
94	MP3B	X	-78.918	1.5
95	MP3B	Z	45.563	1.5
96	MP3B	Mx	-.044	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-35.678	2
2	MP1A	Z	0	2
3	MP1A	Mx	.017	2
4	MP1A	X	-35.678	4
5	MP1A	Z	0	4
6	MP1A	Mx	.017	4
7	MP1B	X	-79.174	2
8	MP1B	Z	0	2
9	MP1B	Mx	-.01	2
10	MP1B	X	-79.174	4
11	MP1B	Z	0	4
12	MP1B	Mx	-.01	4
13	MP1C	X	-57.426	2
14	MP1C	Z	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
15	MP1C	Mx	-.02	2
16	MP1C	X	-57.426	4
17	MP1C	Z	0	4
18	MP1C	Mx	-.02	4
19	MP2A	X	-97.029	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.031	.5
22	MP2A	X	-97.029	6.5
23	MP2A	Z	0	6.5
24	MP2A	Mx	.031	6.5
25	MP2B	X	-138.675	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.066	.5
28	MP2B	X	-138.675	6.5
29	MP2B	Z	0	6.5
30	MP2B	Mx	.066	6.5
31	MP2C	X	-117.852	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.094	.5
34	MP2C	X	-117.852	6.5
35	MP2C	Z	0	6.5
36	MP2C	Mx	-.094	6.5
37	MP2A	X	-97.029	.5
38	MP2A	Z	0	.5
39	MP2A	Mx	.063	.5
40	MP2A	X	-97.029	6.5
41	MP2A	Z	0	6.5
42	MP2A	Mx	.063	6.5
43	MP2B	X	-138.675	.5
44	MP2B	Z	0	.5
45	MP2B	Mx	-.102	.5
46	MP2B	X	-138.675	6.5
47	MP2B	Z	0	6.5
48	MP2B	Mx	-.102	6.5
49	MP2C	X	-117.852	.5
50	MP2C	Z	0	.5
51	MP2C	Mx	.01	.5
52	MP2C	X	-117.852	6.5
53	MP2C	Z	0	6.5
54	MP2C	Mx	.01	6.5
55	MP4A	X	-49.948	1
56	MP4A	Z	0	1
57	MP4A	Mx	.024	1
58	MP4A	X	-49.948	5
59	MP4A	Z	0	5
60	MP4A	Mx	.024	5
61	MP4B	X	-61.616	1
62	MP4B	Z	0	1
63	MP4B	Mx	-.008	1
64	MP4B	X	-61.616	5
65	MP4B	Z	0	5
66	MP4B	Mx	-.008	5
67	MP4C	X	-55.782	1
68	MP4C	Z	0	1
69	MP4C	Mx	-.02	1
70	MP4C	X	-55.782	5
71	MP4C	Z	0	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP4C	Mx	-.02	5
73	MP2A	X	-45.362	2.5
74	MP2A	Z	0	2.5
75	MP2A	Mx	.022	2.5
76	MP2B	X	-45.362	2.5
77	MP2B	Z	0	2.5
78	MP2B	Mx	.022	2.5
79	MP2C	X	-45.362	2.5
80	MP2C	Z	0	2.5
81	MP2C	Mx	.022	2.5
82	MP3A	X	-37.579	4
83	MP3A	Z	0	4
84	MP3A	Mx	.018	4
85	MP3B	X	-37.579	4
86	MP3B	Z	0	4
87	MP3B	Mx	.018	4
88	MP3C	X	-37.579	2.5
89	MP3C	Z	0	2.5
90	MP3C	Mx	.018	2.5
91	MP3A	X	-91.127	1.5
92	MP3A	Z	0	1.5
93	MP3A	Mx	-.044	1.5
94	MP3B	X	-91.127	1.5
95	MP3B	Z	0	1.5
96	MP3B	Mx	-.044	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-49.733	2
2	MP1A	Z	-28.713	2
3	MP1A	Mx	.02	2
4	MP1A	X	-49.733	4
5	MP1A	Z	-28.713	4
6	MP1A	Mx	.02	4
7	MP1B	X	-68.567	2
8	MP1B	Z	-39.587	2
9	MP1B	Mx	.01	2
10	MP1B	X	-68.567	4
11	MP1B	Z	-39.587	4
12	MP1B	Mx	.01	4
13	MP1C	X	-30.898	2
14	MP1C	Z	-17.839	2
15	MP1C	Mx	-.017	2
16	MP1C	X	-30.898	4
17	MP1C	Z	-17.839	4
18	MP1C	Mx	-.017	4
19	MP2A	X	-102.063	.5
20	MP2A	Z	-58.926	.5
21	MP2A	Mx	-.01	.5
22	MP2A	X	-102.063	6.5
23	MP2A	Z	-58.926	6.5
24	MP2A	Mx	-.01	6.5
25	MP2B	X	-120.096	.5
26	MP2B	Z	-69.338	.5
27	MP2B	Mx	.102	.5
28	MP2B	X	-120.096	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
29	MP2B	Z	-69.338	6.5
30	MP2B	Mx	.102	6.5
31	MP2C	X	-84.029	.5
32	MP2C	Z	-48.514	.5
33	MP2C	Mx	-.063	.5
34	MP2C	X	-84.029	6.5
35	MP2C	Z	-48.514	6.5
36	MP2C	Mx	-.063	6.5
37	MP2A	X	-102.063	.5
38	MP2A	Z	-58.926	.5
39	MP2A	Mx	.094	.5
40	MP2A	X	-102.063	6.5
41	MP2A	Z	-58.926	6.5
42	MP2A	Mx	.094	6.5
43	MP2B	X	-120.096	.5
44	MP2B	Z	-69.338	.5
45	MP2B	Mx	-.066	.5
46	MP2B	X	-120.096	6.5
47	MP2B	Z	-69.338	6.5
48	MP2B	Mx	-.066	6.5
49	MP2C	X	-84.029	.5
50	MP2C	Z	-48.514	.5
51	MP2C	Mx	-.031	.5
52	MP2C	X	-84.029	6.5
53	MP2C	Z	-48.514	6.5
54	MP2C	Mx	-.031	6.5
55	MP4A	X	-48.309	1
56	MP4A	Z	-27.891	1
57	MP4A	Mx	.02	1
58	MP4A	X	-48.309	5
59	MP4A	Z	-27.891	5
60	MP4A	Mx	.02	5
61	MP4B	X	-53.361	1
62	MP4B	Z	-30.808	1
63	MP4B	Mx	.008	1
64	MP4B	X	-53.361	5
65	MP4B	Z	-30.808	5
66	MP4B	Mx	.008	5
67	MP4C	X	-43.257	1
68	MP4C	Z	-24.974	1
69	MP4C	Mx	-.024	1
70	MP4C	X	-43.257	5
71	MP4C	Z	-24.974	5
72	MP4C	Mx	-.024	5
73	MP2A	X	-47.451	2.5
74	MP2A	Z	-27.396	2.5
75	MP2A	Mx	.019	2.5
76	MP2B	X	-47.451	2.5
77	MP2B	Z	-27.396	2.5
78	MP2B	Mx	.019	2.5
79	MP2C	X	-47.451	2.5
80	MP2C	Z	-27.396	2.5
81	MP2C	Mx	.019	2.5
82	MP3A	X	-43.839	4
83	MP3A	Z	-25.31	4
84	MP3A	Mx	.018	4
85	MP3B	X	-43.839	4



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
86	MP3B	Z	-25.31	4
87	MP3B	Mx	.018	4
88	MP3C	X	-43.839	2.5
89	MP3C	Z	-25.31	2.5
90	MP3C	Mx	.018	2.5
91	MP3A	X	-95.794	1.5
92	MP3A	Z	-55.307	1.5
93	MP3A	Mx	-.039	1.5
94	MP3B	X	-95.794	1.5
95	MP3B	Z	-55.307	1.5
96	MP3B	Mx	-.039	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-39.587	2
2	MP1A	Z	-68.567	2
3	MP1A	Mx	.01	2
4	MP1A	X	-39.587	4
5	MP1A	Z	-68.567	4
6	MP1A	Mx	.01	4
7	MP1B	X	-28.713	2
8	MP1B	Z	-49.733	2
9	MP1B	Mx	.02	2
10	MP1B	X	-28.713	4
11	MP1B	Z	-49.733	4
12	MP1B	Mx	.02	4
13	MP1C	X	-17.839	2
14	MP1C	Z	-30.898	2
15	MP1C	Mx	-.017	2
16	MP1C	X	-17.839	4
17	MP1C	Z	-30.898	4
18	MP1C	Mx	-.017	4
19	MP2A	X	-69.338	.5
20	MP2A	Z	-120.096	.5
21	MP2A	Mx	-.066	.5
22	MP2A	X	-69.338	6.5
23	MP2A	Z	-120.096	6.5
24	MP2A	Mx	-.066	6.5
25	MP2B	X	-58.926	.5
26	MP2B	Z	-102.063	.5
27	MP2B	Mx	.094	.5
28	MP2B	X	-58.926	6.5
29	MP2B	Z	-102.063	6.5
30	MP2B	Mx	.094	6.5
31	MP2C	X	-48.514	.5
32	MP2C	Z	-84.029	.5
33	MP2C	Mx	-.031	.5
34	MP2C	X	-48.514	6.5
35	MP2C	Z	-84.029	6.5
36	MP2C	Mx	-.031	6.5
37	MP2A	X	-69.338	.5
38	MP2A	Z	-120.096	.5
39	MP2A	Mx	.102	.5
40	MP2A	X	-69.338	6.5
41	MP2A	Z	-120.096	6.5
42	MP2A	Mx	.102	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
43	MP2B	X	-58.926	.5
44	MP2B	Z	-102.063	.5
45	MP2B	Mx	-.01	.5
46	MP2B	X	-58.926	6.5
47	MP2B	Z	-102.063	6.5
48	MP2B	Mx	-.01	6.5
49	MP2C	X	-48.514	.5
50	MP2C	Z	-84.029	.5
51	MP2C	Mx	-.063	.5
52	MP2C	X	-48.514	6.5
53	MP2C	Z	-84.029	6.5
54	MP2C	Mx	-.063	6.5
55	MP4A	X	-30.808	1
56	MP4A	Z	-53.361	1
57	MP4A	Mx	.008	1
58	MP4A	X	-30.808	5
59	MP4A	Z	-53.361	5
60	MP4A	Mx	.008	5
61	MP4B	X	-27.891	1
62	MP4B	Z	-48.309	1
63	MP4B	Mx	.02	1
64	MP4B	X	-27.891	5
65	MP4B	Z	-48.309	5
66	MP4B	Mx	.02	5
67	MP4C	X	-24.974	1
68	MP4C	Z	-43.257	1
69	MP4C	Mx	-.024	1
70	MP4C	X	-24.974	5
71	MP4C	Z	-43.257	5
72	MP4C	Mx	-.024	5
73	MP2A	X	-32.111	2.5
74	MP2A	Z	-55.617	2.5
75	MP2A	Mx	.008	2.5
76	MP2B	X	-32.111	2.5
77	MP2B	Z	-55.617	2.5
78	MP2B	Mx	.008	2.5
79	MP2C	X	-32.111	2.5
80	MP2C	Z	-55.617	2.5
81	MP2C	Mx	.008	2.5
82	MP3A	X	-31.831	4
83	MP3A	Z	-55.133	4
84	MP3A	Mx	.008	4
85	MP3B	X	-31.831	4
86	MP3B	Z	-55.133	4
87	MP3B	Mx	.008	4
88	MP3C	X	-31.831	2.5
89	MP3C	Z	-55.133	2.5
90	MP3C	Mx	.008	2.5
91	MP3A	X	-65.05	1.5
92	MP3A	Z	-112.671	1.5
93	MP3A	Mx	-.017	1.5
94	MP3B	X	-65.05	1.5
95	MP3B	Z	-112.671	1.5
96	MP3B	Mx	-.017	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
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### Member Point Loads (BLC 15 : Antenna Wi (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	0	2
2	MP1A	Z	-16.863	2
3	MP1A	Mx	-.002	2
4	MP1A	X	0	4
5	MP1A	Z	-16.863	4
6	MP1A	Mx	-.002	4
7	MP1B	X	0	2
8	MP1B	Z	-8.449	2
9	MP1B	Mx	.004	2
10	MP1B	X	0	4
11	MP1B	Z	-8.449	4
12	MP1B	Mx	.004	4
13	MP1C	X	0	2
14	MP1C	Z	-12.656	2
15	MP1C	Mx	-.004	2
16	MP1C	X	0	4
17	MP1C	Z	-12.656	4
18	MP1C	Mx	-.004	4
19	MP2A	X	0	.5
20	MP2A	Z	-28.53	.5
21	MP2A	Mx	-.021	.5
22	MP2A	X	0	6.5
23	MP2A	Z	-28.53	6.5
24	MP2A	Mx	-.021	6.5
25	MP2B	X	0	.5
26	MP2B	Z	-21.066	.5
27	MP2B	Mx	.014	.5
28	MP2B	X	0	6.5
29	MP2B	Z	-21.066	6.5
30	MP2B	Mx	.014	6.5
31	MP2C	X	0	.5
32	MP2C	Z	-24.798	.5
33	MP2C	Mx	.002	.5
34	MP2C	X	0	6.5
35	MP2C	Z	-24.798	6.5
36	MP2C	Mx	.002	6.5
37	MP2A	X	0	.5
38	MP2A	Z	-28.53	.5
39	MP2A	Mx	.014	.5
40	MP2A	X	0	6.5
41	MP2A	Z	-28.53	6.5
42	MP2A	Mx	.014	6.5
43	MP2B	X	0	.5
44	MP2B	Z	-21.066	.5
45	MP2B	Mx	.007	.5
46	MP2B	X	0	6.5
47	MP2B	Z	-21.066	6.5
48	MP2B	Mx	.007	6.5
49	MP2C	X	0	.5
50	MP2C	Z	-24.798	.5
51	MP2C	Mx	-.02	.5
52	MP2C	X	0	6.5
53	MP2C	Z	-24.798	6.5
54	MP2C	Mx	-.02	6.5
55	MP4A	X	0	1
56	MP4A	Z	-13.684	1
57	MP4A	Mx	-.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP4A	X	0	5
59	MP4A	Z	-13.684	5
60	MP4A	Mx	-.002	5
61	MP4B	X	0	1
62	MP4B	Z	-11.501	1
63	MP4B	Mx	.006	1
64	MP4B	X	0	5
65	MP4B	Z	-11.501	5
66	MP4B	Mx	.006	5
67	MP4C	X	0	1
68	MP4C	Z	-12.592	1
69	MP4C	Mx	-.004	1
70	MP4C	X	0	5
71	MP4C	Z	-12.592	5
72	MP4C	Mx	-.004	5
73	MP2A	X	0	2.5
74	MP2A	Z	-14.901	2.5
75	MP2A	Mx	-.002	2.5
76	MP2B	X	0	2.5
77	MP2B	Z	-14.901	2.5
78	MP2B	Mx	-.002	2.5
79	MP2C	X	0	2.5
80	MP2C	Z	-14.901	2.5
81	MP2C	Mx	-.002	2.5
82	MP3A	X	0	4
83	MP3A	Z	-14.789	4
84	MP3A	Mx	-.002	4
85	MP3B	X	0	4
86	MP3B	Z	-14.789	4
87	MP3B	Mx	-.002	4
88	MP3C	X	0	2.5
89	MP3C	Z	-14.789	2.5
90	MP3C	Mx	-.002	2.5
91	MP3A	X	0	1.5
92	MP3A	Z	-27.991	1.5
93	MP3A	Mx	.004	1.5
94	MP3B	X	0	1.5
95	MP3B	Z	-27.991	1.5
96	MP3B	Mx	.004	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	6.328	2
2	MP1A	Z	-10.96	2
3	MP1A	Mx	-.004	2
4	MP1A	X	6.328	4
5	MP1A	Z	-10.96	4
6	MP1A	Mx	-.004	4
7	MP1B	X	4.224	2
8	MP1B	Z	-7.317	2
9	MP1B	Mx	.004	2
10	MP1B	X	4.224	4
11	MP1B	Z	-7.317	4
12	MP1B	Mx	.004	4
13	MP1C	X	8.432	2
14	MP1C	Z	-14.604	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP1C	Mx	-.002	2
16	MP1C	X	8.432	4
17	MP1C	Z	-14.604	4
18	MP1C	Mx	-.002	4
19	MP2A	X	12.399	.5
20	MP2A	Z	-21.476	.5
21	MP2A	Mx	-.02	.5
22	MP2A	X	12.399	6.5
23	MP2A	Z	-21.476	6.5
24	MP2A	Mx	-.02	6.5
25	MP2B	X	10.533	.5
26	MP2B	Z	-18.244	.5
27	MP2B	Mx	.007	.5
28	MP2B	X	10.533	6.5
29	MP2B	Z	-18.244	6.5
30	MP2B	Mx	.007	6.5
31	MP2C	X	14.265	.5
32	MP2C	Z	-24.708	.5
33	MP2C	Mx	.014	.5
34	MP2C	X	14.265	6.5
35	MP2C	Z	-24.708	6.5
36	MP2C	Mx	.014	6.5
37	MP2A	X	12.399	.5
38	MP2A	Z	-21.476	.5
39	MP2A	Mx	.002	.5
40	MP2A	X	12.399	6.5
41	MP2A	Z	-21.476	6.5
42	MP2A	Mx	.002	6.5
43	MP2B	X	10.533	.5
44	MP2B	Z	-18.244	.5
45	MP2B	Mx	.014	.5
46	MP2B	X	10.533	6.5
47	MP2B	Z	-18.244	6.5
48	MP2B	Mx	.014	6.5
49	MP2C	X	14.265	.5
50	MP2C	Z	-24.708	.5
51	MP2C	Mx	-.021	.5
52	MP2C	X	14.265	6.5
53	MP2C	Z	-24.708	6.5
54	MP2C	Mx	-.021	6.5
55	MP4A	X	6.296	1
56	MP4A	Z	-10.905	1
57	MP4A	Mx	-.004	1
58	MP4A	X	6.296	5
59	MP4A	Z	-10.905	5
60	MP4A	Mx	-.004	5
61	MP4B	X	5.75	1
62	MP4B	Z	-9.96	1
63	MP4B	Mx	.006	1
64	MP4B	X	5.75	5
65	MP4B	Z	-9.96	5
66	MP4B	Mx	.006	5
67	MP4C	X	6.842	1
68	MP4C	Z	-11.85	1
69	MP4C	Mx	-.002	1
70	MP4C	X	6.842	5
71	MP4C	Z	-11.85	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP4C	Mx	-.002	5
73	MP2A	X	6.496	2.5
74	MP2A	Z	-11.252	2.5
75	MP2A	Mx	-.005	2.5
76	MP2B	X	6.496	2.5
77	MP2B	Z	-11.252	2.5
78	MP2B	Mx	-.005	2.5
79	MP2C	X	6.496	2.5
80	MP2C	Z	-11.252	2.5
81	MP2C	Mx	-.005	2.5
82	MP3A	X	6.078	4
83	MP3A	Z	-10.527	4
84	MP3A	Mx	-.004	4
85	MP3B	X	6.078	4
86	MP3B	Z	-10.527	4
87	MP3B	Mx	-.004	4
88	MP3C	X	6.078	2.5
89	MP3C	Z	-10.527	2.5
90	MP3C	Mx	-.004	2.5
91	MP3A	X	12.125	1.5
92	MP3A	Z	-21.001	1.5
93	MP3A	Mx	.009	1.5
94	MP3B	X	12.125	1.5
95	MP3B	Z	-21.001	1.5
96	MP3B	Mx	.009	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	7.317	2
2	MP1A	Z	-4.224	2
3	MP1A	Mx	-.004	2
4	MP1A	X	7.317	4
5	MP1A	Z	-4.224	4
6	MP1A	Mx	-.004	4
7	MP1B	X	10.96	2
8	MP1B	Z	-6.328	2
9	MP1B	Mx	.004	2
10	MP1B	X	10.96	4
11	MP1B	Z	-6.328	4
12	MP1B	Mx	.004	4
13	MP1C	X	14.604	2
14	MP1C	Z	-8.432	2
15	MP1C	Mx	.002	2
16	MP1C	X	14.604	4
17	MP1C	Z	-8.432	4
18	MP1C	Mx	.002	4
19	MP2A	X	18.244	.5
20	MP2A	Z	-10.533	.5
21	MP2A	Mx	-.014	.5
22	MP2A	X	18.244	6.5
23	MP2A	Z	-10.533	6.5
24	MP2A	Mx	-.014	6.5
25	MP2B	X	21.476	.5
26	MP2B	Z	-12.399	.5
27	MP2B	Mx	-.002	.5
28	MP2B	X	21.476	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
29	MP2B	Z	-12.399	6.5
30	MP2B	Mx	-.002	6.5
31	MP2C	X	24.708	.5
32	MP2C	Z	-14.265	.5
33	MP2C	Mx	.021	.5
34	MP2C	X	24.708	6.5
35	MP2C	Z	-14.265	6.5
36	MP2C	Mx	.021	6.5
37	MP2A	X	18.244	.5
38	MP2A	Z	-10.533	.5
39	MP2A	Mx	-.007	.5
40	MP2A	X	18.244	6.5
41	MP2A	Z	-10.533	6.5
42	MP2A	Mx	-.007	6.5
43	MP2B	X	21.476	.5
44	MP2B	Z	-12.399	.5
45	MP2B	Mx	.02	.5
46	MP2B	X	21.476	6.5
47	MP2B	Z	-12.399	6.5
48	MP2B	Mx	.02	6.5
49	MP2C	X	24.708	.5
50	MP2C	Z	-14.265	.5
51	MP2C	Mx	-.014	.5
52	MP2C	X	24.708	6.5
53	MP2C	Z	-14.265	6.5
54	MP2C	Mx	-.014	6.5
55	MP4A	X	9.96	1
56	MP4A	Z	-5.75	1
57	MP4A	Mx	-.006	1
58	MP4A	X	9.96	5
59	MP4A	Z	-5.75	5
60	MP4A	Mx	-.006	5
61	MP4B	X	10.905	1
62	MP4B	Z	-6.296	1
63	MP4B	Mx	.004	1
64	MP4B	X	10.905	5
65	MP4B	Z	-6.296	5
66	MP4B	Mx	.004	5
67	MP4C	X	11.85	1
68	MP4C	Z	-6.842	1
69	MP4C	Mx	.002	1
70	MP4C	X	11.85	5
71	MP4C	Z	-6.842	5
72	MP4C	Mx	.002	5
73	MP2A	X	9.599	2.5
74	MP2A	Z	-5.542	2.5
75	MP2A	Mx	-.005	2.5
76	MP2B	X	9.599	2.5
77	MP2B	Z	-5.542	2.5
78	MP2B	Mx	-.005	2.5
79	MP2C	X	9.599	2.5
80	MP2C	Z	-5.542	2.5
81	MP2C	Mx	-.005	2.5
82	MP3A	X	8.246	4
83	MP3A	Z	-4.761	4
84	MP3A	Mx	-.005	4
85	MP3B	X	8.246	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
86	MP3B	Z	-4.761	4
87	MP3B	Mx	-0.005	4
88	MP3C	X	8.246	2.5
89	MP3C	Z	-4.761	2.5
90	MP3C	Mx	-0.005	2.5
91	MP3A	X	17.762	1.5
92	MP3A	Z	-10.255	1.5
93	MP3A	Mx	.01	1.5
94	MP3B	X	17.762	1.5
95	MP3B	Z	-10.255	1.5
96	MP3B	Mx	.01	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	8.449	2
2	MP1A	Z	0	2
3	MP1A	Mx	-0.004	2
4	MP1A	X	8.449	4
5	MP1A	Z	0	4
6	MP1A	Mx	-0.004	4
7	MP1B	X	16.863	2
8	MP1B	Z	0	2
9	MP1B	Mx	.002	2
10	MP1B	X	16.863	4
11	MP1B	Z	0	4
12	MP1B	Mx	.002	4
13	MP1C	X	12.656	2
14	MP1C	Z	0	2
15	MP1C	Mx	.004	2
16	MP1C	X	12.656	4
17	MP1C	Z	0	4
18	MP1C	Mx	.004	4
19	MP2A	X	21.066	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-0.007	.5
22	MP2A	X	21.066	6.5
23	MP2A	Z	0	6.5
24	MP2A	Mx	-0.007	6.5
25	MP2B	X	28.53	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-0.014	.5
28	MP2B	X	28.53	6.5
29	MP2B	Z	0	6.5
30	MP2B	Mx	-0.014	6.5
31	MP2C	X	24.798	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.02	.5
34	MP2C	X	24.798	6.5
35	MP2C	Z	0	6.5
36	MP2C	Mx	.02	6.5
37	MP2A	X	21.066	.5
38	MP2A	Z	0	.5
39	MP2A	Mx	-0.014	.5
40	MP2A	X	21.066	6.5
41	MP2A	Z	0	6.5
42	MP2A	Mx	-0.014	6.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
43	MP2B	X	28.53	.5
44	MP2B	Z	0	.5
45	MP2B	Mx	.021	.5
46	MP2B	X	28.53	6.5
47	MP2B	Z	0	6.5
48	MP2B	Mx	.021	6.5
49	MP2C	X	24.798	.5
50	MP2C	Z	0	.5
51	MP2C	Mx	-.002	.5
52	MP2C	X	24.798	6.5
53	MP2C	Z	0	6.5
54	MP2C	Mx	-.002	6.5
55	MP4A	X	11.501	1
56	MP4A	Z	0	1
57	MP4A	Mx	-.006	1
58	MP4A	X	11.501	5
59	MP4A	Z	0	5
60	MP4A	Mx	-.006	5
61	MP4B	X	13.684	1
62	MP4B	Z	0	1
63	MP4B	Mx	.002	1
64	MP4B	X	13.684	5
65	MP4B	Z	0	5
66	MP4B	Mx	.002	5
67	MP4C	X	12.592	1
68	MP4C	Z	0	1
69	MP4C	Mx	.004	1
70	MP4C	X	12.592	5
71	MP4C	Z	0	5
72	MP4C	Mx	.004	5
73	MP2A	X	11.084	2.5
74	MP2A	Z	0	2.5
75	MP2A	Mx	-.005	2.5
76	MP2B	X	11.084	2.5
77	MP2B	Z	0	2.5
78	MP2B	Mx	-.005	2.5
79	MP2C	X	11.084	2.5
80	MP2C	Z	0	2.5
81	MP2C	Mx	-.005	2.5
82	MP3A	X	9.521	4
83	MP3A	Z	0	4
84	MP3A	Mx	-.005	4
85	MP3B	X	9.521	4
86	MP3B	Z	0	4
87	MP3B	Mx	-.005	4
88	MP3C	X	9.521	2.5
89	MP3C	Z	0	2.5
90	MP3C	Mx	-.005	2.5
91	MP3A	X	20.51	1.5
92	MP3A	Z	0	1.5
93	MP3A	Mx	.01	1.5
94	MP3B	X	20.51	1.5
95	MP3B	Z	0	1.5
96	MP3B	Mx	.01	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
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### Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	10.96	2
2	MP1A	Z	6.328	2
3	MP1A	Mx	-.004	2
4	MP1A	X	10.96	4
5	MP1A	Z	6.328	4
6	MP1A	Mx	-.004	4
7	MP1B	X	14.604	2
8	MP1B	Z	8.432	2
9	MP1B	Mx	-.002	2
10	MP1B	X	14.604	4
11	MP1B	Z	8.432	4
12	MP1B	Mx	-.002	4
13	MP1C	X	7.317	2
14	MP1C	Z	4.224	2
15	MP1C	Mx	.004	2
16	MP1C	X	7.317	4
17	MP1C	Z	4.224	4
18	MP1C	Mx	.004	4
19	MP2A	X	21.476	.5
20	MP2A	Z	12.399	.5
21	MP2A	Mx	.002	.5
22	MP2A	X	21.476	6.5
23	MP2A	Z	12.399	6.5
24	MP2A	Mx	.002	6.5
25	MP2B	X	24.708	.5
26	MP2B	Z	14.265	.5
27	MP2B	Mx	-.021	.5
28	MP2B	X	24.708	6.5
29	MP2B	Z	14.265	6.5
30	MP2B	Mx	-.021	6.5
31	MP2C	X	18.244	.5
32	MP2C	Z	10.533	.5
33	MP2C	Mx	.014	.5
34	MP2C	X	18.244	6.5
35	MP2C	Z	10.533	6.5
36	MP2C	Mx	.014	6.5
37	MP2A	X	21.476	.5
38	MP2A	Z	12.399	.5
39	MP2A	Mx	-.02	.5
40	MP2A	X	21.476	6.5
41	MP2A	Z	12.399	6.5
42	MP2A	Mx	-.02	6.5
43	MP2B	X	24.708	.5
44	MP2B	Z	14.265	.5
45	MP2B	Mx	.014	.5
46	MP2B	X	24.708	6.5
47	MP2B	Z	14.265	6.5
48	MP2B	Mx	.014	6.5
49	MP2C	X	18.244	.5
50	MP2C	Z	10.533	.5
51	MP2C	Mx	.007	.5
52	MP2C	X	18.244	6.5
53	MP2C	Z	10.533	6.5
54	MP2C	Mx	.007	6.5
55	MP4A	X	10.905	1
56	MP4A	Z	6.296	1
57	MP4A	Mx	-.004	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP4A	X	10.905	5
59	MP4A	Z	6.296	5
60	MP4A	Mx	-.004	5
61	MP4B	X	11.85	1
62	MP4B	Z	6.842	1
63	MP4B	Mx	-.002	1
64	MP4B	X	11.85	5
65	MP4B	Z	6.842	5
66	MP4B	Mx	-.002	5
67	MP4C	X	9.96	1
68	MP4C	Z	5.75	1
69	MP4C	Mx	.006	1
70	MP4C	X	9.96	5
71	MP4C	Z	5.75	5
72	MP4C	Mx	.006	5
73	MP2A	X	11.252	2.5
74	MP2A	Z	6.496	2.5
75	MP2A	Mx	-.005	2.5
76	MP2B	X	11.252	2.5
77	MP2B	Z	6.496	2.5
78	MP2B	Mx	-.005	2.5
79	MP2C	X	11.252	2.5
80	MP2C	Z	6.496	2.5
81	MP2C	Mx	-.005	2.5
82	MP3A	X	10.527	4
83	MP3A	Z	6.078	4
84	MP3A	Mx	-.004	4
85	MP3B	X	10.527	4
86	MP3B	Z	6.078	4
87	MP3B	Mx	-.004	4
88	MP3C	X	10.527	2.5
89	MP3C	Z	6.078	2.5
90	MP3C	Mx	-.004	2.5
91	MP3A	X	21.001	1.5
92	MP3A	Z	12.125	1.5
93	MP3A	Mx	.009	1.5
94	MP3B	X	21.001	1.5
95	MP3B	Z	12.125	1.5
96	MP3B	Mx	.009	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	8.432	2
2	MP1A	Z	14.604	2
3	MP1A	Mx	-.002	2
4	MP1A	X	8.432	4
5	MP1A	Z	14.604	4
6	MP1A	Mx	-.002	4
7	MP1B	X	6.328	2
8	MP1B	Z	10.96	2
9	MP1B	Mx	-.004	2
10	MP1B	X	6.328	4
11	MP1B	Z	10.96	4
12	MP1B	Mx	-.004	4
13	MP1C	X	4.224	2
14	MP1C	Z	7.317	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
15	MP1C	Mx	.004	2
16	MP1C	X	4.224	4
17	MP1C	Z	7.317	4
18	MP1C	Mx	.004	4
19	MP2A	X	14.265	.5
20	MP2A	Z	24.708	.5
21	MP2A	Mx	.014	.5
22	MP2A	X	14.265	6.5
23	MP2A	Z	24.708	6.5
24	MP2A	Mx	.014	6.5
25	MP2B	X	12.399	.5
26	MP2B	Z	21.476	.5
27	MP2B	Mx	-.02	.5
28	MP2B	X	12.399	6.5
29	MP2B	Z	21.476	6.5
30	MP2B	Mx	-.02	6.5
31	MP2C	X	10.533	.5
32	MP2C	Z	18.244	.5
33	MP2C	Mx	.007	.5
34	MP2C	X	10.533	6.5
35	MP2C	Z	18.244	6.5
36	MP2C	Mx	.007	6.5
37	MP2A	X	14.265	.5
38	MP2A	Z	24.708	.5
39	MP2A	Mx	-.021	.5
40	MP2A	X	14.265	6.5
41	MP2A	Z	24.708	6.5
42	MP2A	Mx	-.021	6.5
43	MP2B	X	12.399	.5
44	MP2B	Z	21.476	.5
45	MP2B	Mx	.002	.5
46	MP2B	X	12.399	6.5
47	MP2B	Z	21.476	6.5
48	MP2B	Mx	.002	6.5
49	MP2C	X	10.533	.5
50	MP2C	Z	18.244	.5
51	MP2C	Mx	.014	.5
52	MP2C	X	10.533	6.5
53	MP2C	Z	18.244	6.5
54	MP2C	Mx	.014	6.5
55	MP4A	X	6.842	1
56	MP4A	Z	11.85	1
57	MP4A	Mx	-.002	1
58	MP4A	X	6.842	5
59	MP4A	Z	11.85	5
60	MP4A	Mx	-.002	5
61	MP4B	X	6.296	1
62	MP4B	Z	10.905	1
63	MP4B	Mx	-.004	1
64	MP4B	X	6.296	5
65	MP4B	Z	10.905	5
66	MP4B	Mx	-.004	5
67	MP4C	X	5.75	1
68	MP4C	Z	9.96	1
69	MP4C	Mx	.006	1
70	MP4C	X	5.75	5
71	MP4C	Z	9.96	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP4C	Mx	.006	5
73	MP2A	X	7.451	2.5
74	MP2A	Z	12.905	2.5
75	MP2A	Mx	-.002	2.5
76	MP2B	X	7.451	2.5
77	MP2B	Z	12.905	2.5
78	MP2B	Mx	-.002	2.5
79	MP2C	X	7.451	2.5
80	MP2C	Z	12.905	2.5
81	MP2C	Mx	-.002	2.5
82	MP3A	X	7.394	4
83	MP3A	Z	12.808	4
84	MP3A	Mx	-.002	4
85	MP3B	X	7.394	4
86	MP3B	Z	12.808	4
87	MP3B	Mx	-.002	4
88	MP3C	X	7.394	2.5
89	MP3C	Z	12.808	2.5
90	MP3C	Mx	-.002	2.5
91	MP3A	X	13.996	1.5
92	MP3A	Z	24.241	1.5
93	MP3A	Mx	.004	1.5
94	MP3B	X	13.996	1.5
95	MP3B	Z	24.241	1.5
96	MP3B	Mx	.004	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	16.863	2
3	MP1A	Mx	.002	2
4	MP1A	X	0	4
5	MP1A	Z	16.863	4
6	MP1A	Mx	.002	4
7	MP1B	X	0	2
8	MP1B	Z	8.449	2
9	MP1B	Mx	-.004	2
10	MP1B	X	0	4
11	MP1B	Z	8.449	4
12	MP1B	Mx	-.004	4
13	MP1C	X	0	2
14	MP1C	Z	12.656	2
15	MP1C	Mx	.004	2
16	MP1C	X	0	4
17	MP1C	Z	12.656	4
18	MP1C	Mx	.004	4
19	MP2A	X	0	.5
20	MP2A	Z	28.53	.5
21	MP2A	Mx	.021	.5
22	MP2A	X	0	6.5
23	MP2A	Z	28.53	6.5
24	MP2A	Mx	.021	6.5
25	MP2B	X	0	.5
26	MP2B	Z	21.066	.5
27	MP2B	Mx	-.014	.5
28	MP2B	X	0	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2B	Z	21.066	6.5
30	MP2B	Mx	-.014	6.5
31	MP2C	X	0	.5
32	MP2C	Z	24.798	.5
33	MP2C	Mx	-.002	.5
34	MP2C	X	0	6.5
35	MP2C	Z	24.798	6.5
36	MP2C	Mx	-.002	6.5
37	MP2A	X	0	.5
38	MP2A	Z	28.53	.5
39	MP2A	Mx	-.014	.5
40	MP2A	X	0	6.5
41	MP2A	Z	28.53	6.5
42	MP2A	Mx	-.014	6.5
43	MP2B	X	0	.5
44	MP2B	Z	21.066	.5
45	MP2B	Mx	-.007	.5
46	MP2B	X	0	6.5
47	MP2B	Z	21.066	6.5
48	MP2B	Mx	-.007	6.5
49	MP2C	X	0	.5
50	MP2C	Z	24.798	.5
51	MP2C	Mx	.02	.5
52	MP2C	X	0	6.5
53	MP2C	Z	24.798	6.5
54	MP2C	Mx	.02	6.5
55	MP4A	X	0	1
56	MP4A	Z	13.684	1
57	MP4A	Mx	.002	1
58	MP4A	X	0	5
59	MP4A	Z	13.684	5
60	MP4A	Mx	.002	5
61	MP4B	X	0	1
62	MP4B	Z	11.501	1
63	MP4B	Mx	-.006	1
64	MP4B	X	0	5
65	MP4B	Z	11.501	5
66	MP4B	Mx	-.006	5
67	MP4C	X	0	1
68	MP4C	Z	12.592	1
69	MP4C	Mx	.004	1
70	MP4C	X	0	5
71	MP4C	Z	12.592	5
72	MP4C	Mx	.004	5
73	MP2A	X	0	2.5
74	MP2A	Z	14.901	2.5
75	MP2A	Mx	.002	2.5
76	MP2B	X	0	2.5
77	MP2B	Z	14.901	2.5
78	MP2B	Mx	.002	2.5
79	MP2C	X	0	2.5
80	MP2C	Z	14.901	2.5
81	MP2C	Mx	.002	2.5
82	MP3A	X	0	4
83	MP3A	Z	14.789	4
84	MP3A	Mx	.002	4
85	MP3B	X	0	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
86	MP3B	Z	14.789	4
87	MP3B	Mx	.002	4
88	MP3C	X	0	2.5
89	MP3C	Z	14.789	2.5
90	MP3C	Mx	.002	2.5
91	MP3A	X	0	1.5
92	MP3A	Z	27.991	1.5
93	MP3A	Mx	-.004	1.5
94	MP3B	X	0	1.5
95	MP3B	Z	27.991	1.5
96	MP3B	Mx	-.004	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-6.328	2
2	MP1A	Z	10.96	2
3	MP1A	Mx	.004	2
4	MP1A	X	-6.328	4
5	MP1A	Z	10.96	4
6	MP1A	Mx	.004	4
7	MP1B	X	-4.224	2
8	MP1B	Z	7.317	2
9	MP1B	Mx	-.004	2
10	MP1B	X	-4.224	4
11	MP1B	Z	7.317	4
12	MP1B	Mx	-.004	4
13	MP1C	X	-8.432	2
14	MP1C	Z	14.604	2
15	MP1C	Mx	.002	2
16	MP1C	X	-8.432	4
17	MP1C	Z	14.604	4
18	MP1C	Mx	.002	4
19	MP2A	X	-12.399	.5
20	MP2A	Z	21.476	.5
21	MP2A	Mx	.02	.5
22	MP2A	X	-12.399	6.5
23	MP2A	Z	21.476	6.5
24	MP2A	Mx	.02	6.5
25	MP2B	X	-10.533	.5
26	MP2B	Z	18.244	.5
27	MP2B	Mx	-.007	.5
28	MP2B	X	-10.533	6.5
29	MP2B	Z	18.244	6.5
30	MP2B	Mx	-.007	6.5
31	MP2C	X	-14.265	.5
32	MP2C	Z	24.708	.5
33	MP2C	Mx	-.014	.5
34	MP2C	X	-14.265	6.5
35	MP2C	Z	24.708	6.5
36	MP2C	Mx	-.014	6.5
37	MP2A	X	-12.399	.5
38	MP2A	Z	21.476	.5
39	MP2A	Mx	-.002	.5
40	MP2A	X	-12.399	6.5
41	MP2A	Z	21.476	6.5
42	MP2A	Mx	-.002	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
43	MP2B	X	-10.533	.5
44	MP2B	Z	18.244	.5
45	MP2B	Mx	-.014	.5
46	MP2B	X	-10.533	6.5
47	MP2B	Z	18.244	6.5
48	MP2B	Mx	-.014	6.5
49	MP2C	X	-14.265	.5
50	MP2C	Z	24.708	.5
51	MP2C	Mx	.021	.5
52	MP2C	X	-14.265	6.5
53	MP2C	Z	24.708	6.5
54	MP2C	Mx	.021	6.5
55	MP4A	X	-6.296	1
56	MP4A	Z	10.905	1
57	MP4A	Mx	.004	1
58	MP4A	X	-6.296	5
59	MP4A	Z	10.905	5
60	MP4A	Mx	.004	5
61	MP4B	X	-5.75	1
62	MP4B	Z	9.96	1
63	MP4B	Mx	-.006	1
64	MP4B	X	-5.75	5
65	MP4B	Z	9.96	5
66	MP4B	Mx	-.006	5
67	MP4C	X	-6.842	1
68	MP4C	Z	11.85	1
69	MP4C	Mx	.002	1
70	MP4C	X	-6.842	5
71	MP4C	Z	11.85	5
72	MP4C	Mx	.002	5
73	MP2A	X	-6.496	2.5
74	MP2A	Z	11.252	2.5
75	MP2A	Mx	.005	2.5
76	MP2B	X	-6.496	2.5
77	MP2B	Z	11.252	2.5
78	MP2B	Mx	.005	2.5
79	MP2C	X	-6.496	2.5
80	MP2C	Z	11.252	2.5
81	MP2C	Mx	.005	2.5
82	MP3A	X	-6.078	4
83	MP3A	Z	10.527	4
84	MP3A	Mx	.004	4
85	MP3B	X	-6.078	4
86	MP3B	Z	10.527	4
87	MP3B	Mx	.004	4
88	MP3C	X	-6.078	2.5
89	MP3C	Z	10.527	2.5
90	MP3C	Mx	.004	2.5
91	MP3A	X	-12.125	1.5
92	MP3A	Z	21.001	1.5
93	MP3A	Mx	-.009	1.5
94	MP3B	X	-12.125	1.5
95	MP3B	Z	21.001	1.5
96	MP3B	Mx	-.009	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
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### Member Point Loads (BLC 23 : Antenna Wi (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	-7.317	2
2	MP1A	Z	4.224	2
3	MP1A	Mx	.004	2
4	MP1A	X	-7.317	4
5	MP1A	Z	4.224	4
6	MP1A	Mx	.004	4
7	MP1B	X	-10.96	2
8	MP1B	Z	6.328	2
9	MP1B	Mx	-.004	2
10	MP1B	X	-10.96	4
11	MP1B	Z	6.328	4
12	MP1B	Mx	-.004	4
13	MP1C	X	-14.604	2
14	MP1C	Z	8.432	2
15	MP1C	Mx	-.002	2
16	MP1C	X	-14.604	4
17	MP1C	Z	8.432	4
18	MP1C	Mx	-.002	4
19	MP2A	X	-18.244	.5
20	MP2A	Z	10.533	.5
21	MP2A	Mx	.014	.5
22	MP2A	X	-18.244	6.5
23	MP2A	Z	10.533	6.5
24	MP2A	Mx	.014	6.5
25	MP2B	X	-21.476	.5
26	MP2B	Z	12.399	.5
27	MP2B	Mx	.002	.5
28	MP2B	X	-21.476	6.5
29	MP2B	Z	12.399	6.5
30	MP2B	Mx	.002	6.5
31	MP2C	X	-24.708	.5
32	MP2C	Z	14.265	.5
33	MP2C	Mx	-.021	.5
34	MP2C	X	-24.708	6.5
35	MP2C	Z	14.265	6.5
36	MP2C	Mx	-.021	6.5
37	MP2A	X	-18.244	.5
38	MP2A	Z	10.533	.5
39	MP2A	Mx	.007	.5
40	MP2A	X	-18.244	6.5
41	MP2A	Z	10.533	6.5
42	MP2A	Mx	.007	6.5
43	MP2B	X	-21.476	.5
44	MP2B	Z	12.399	.5
45	MP2B	Mx	-.02	.5
46	MP2B	X	-21.476	6.5
47	MP2B	Z	12.399	6.5
48	MP2B	Mx	-.02	6.5
49	MP2C	X	-24.708	.5
50	MP2C	Z	14.265	.5
51	MP2C	Mx	.014	.5
52	MP2C	X	-24.708	6.5
53	MP2C	Z	14.265	6.5
54	MP2C	Mx	.014	6.5
55	MP4A	X	-9.96	1
56	MP4A	Z	5.75	1
57	MP4A	Mx	.006	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP4A	X	-9.96	5
59	MP4A	Z	5.75	5
60	MP4A	Mx	.006	5
61	MP4B	X	-10.905	1
62	MP4B	Z	6.296	1
63	MP4B	Mx	-.004	1
64	MP4B	X	-10.905	5
65	MP4B	Z	6.296	5
66	MP4B	Mx	-.004	5
67	MP4C	X	-11.85	1
68	MP4C	Z	6.842	1
69	MP4C	Mx	-.002	1
70	MP4C	X	-11.85	5
71	MP4C	Z	6.842	5
72	MP4C	Mx	-.002	5
73	MP2A	X	-9.599	2.5
74	MP2A	Z	5.542	2.5
75	MP2A	Mx	.005	2.5
76	MP2B	X	-9.599	2.5
77	MP2B	Z	5.542	2.5
78	MP2B	Mx	.005	2.5
79	MP2C	X	-9.599	2.5
80	MP2C	Z	5.542	2.5
81	MP2C	Mx	.005	2.5
82	MP3A	X	-8.246	4
83	MP3A	Z	4.761	4
84	MP3A	Mx	.005	4
85	MP3B	X	-8.246	4
86	MP3B	Z	4.761	4
87	MP3B	Mx	.005	4
88	MP3C	X	-8.246	2.5
89	MP3C	Z	4.761	2.5
90	MP3C	Mx	.005	2.5
91	MP3A	X	-17.762	1.5
92	MP3A	Z	10.255	1.5
93	MP3A	Mx	-.01	1.5
94	MP3B	X	-17.762	1.5
95	MP3B	Z	10.255	1.5
96	MP3B	Mx	-.01	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-8.449	2
2	MP1A	Z	0	2
3	MP1A	Mx	.004	2
4	MP1A	X	-8.449	4
5	MP1A	Z	0	4
6	MP1A	Mx	.004	4
7	MP1B	X	-16.863	2
8	MP1B	Z	0	2
9	MP1B	Mx	-.002	2
10	MP1B	X	-16.863	4
11	MP1B	Z	0	4
12	MP1B	Mx	-.002	4
13	MP1C	X	-12.656	2
14	MP1C	Z	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
15	MP1C	Mx	-.004	2
16	MP1C	X	-12.656	4
17	MP1C	Z	0	4
18	MP1C	Mx	-.004	4
19	MP2A	X	-21.066	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.007	.5
22	MP2A	X	-21.066	6.5
23	MP2A	Z	0	6.5
24	MP2A	Mx	.007	6.5
25	MP2B	X	-28.53	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.014	.5
28	MP2B	X	-28.53	6.5
29	MP2B	Z	0	6.5
30	MP2B	Mx	.014	6.5
31	MP2C	X	-24.798	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.02	.5
34	MP2C	X	-24.798	6.5
35	MP2C	Z	0	6.5
36	MP2C	Mx	-.02	6.5
37	MP2A	X	-21.066	.5
38	MP2A	Z	0	.5
39	MP2A	Mx	.014	.5
40	MP2A	X	-21.066	6.5
41	MP2A	Z	0	6.5
42	MP2A	Mx	.014	6.5
43	MP2B	X	-28.53	.5
44	MP2B	Z	0	.5
45	MP2B	Mx	-.021	.5
46	MP2B	X	-28.53	6.5
47	MP2B	Z	0	6.5
48	MP2B	Mx	-.021	6.5
49	MP2C	X	-24.798	.5
50	MP2C	Z	0	.5
51	MP2C	Mx	.002	.5
52	MP2C	X	-24.798	6.5
53	MP2C	Z	0	6.5
54	MP2C	Mx	.002	6.5
55	MP4A	X	-11.501	1
56	MP4A	Z	0	1
57	MP4A	Mx	.006	1
58	MP4A	X	-11.501	5
59	MP4A	Z	0	5
60	MP4A	Mx	.006	5
61	MP4B	X	-13.684	1
62	MP4B	Z	0	1
63	MP4B	Mx	-.002	1
64	MP4B	X	-13.684	5
65	MP4B	Z	0	5
66	MP4B	Mx	-.002	5
67	MP4C	X	-12.592	1
68	MP4C	Z	0	1
69	MP4C	Mx	-.004	1
70	MP4C	X	-12.592	5
71	MP4C	Z	0	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP4C	Mx	-.004	5
73	MP2A	X	-11.084	2.5
74	MP2A	Z	0	2.5
75	MP2A	Mx	.005	2.5
76	MP2B	X	-11.084	2.5
77	MP2B	Z	0	2.5
78	MP2B	Mx	.005	2.5
79	MP2C	X	-11.084	2.5
80	MP2C	Z	0	2.5
81	MP2C	Mx	.005	2.5
82	MP3A	X	-9.521	4
83	MP3A	Z	0	4
84	MP3A	Mx	.005	4
85	MP3B	X	-9.521	4
86	MP3B	Z	0	4
87	MP3B	Mx	.005	4
88	MP3C	X	-9.521	2.5
89	MP3C	Z	0	2.5
90	MP3C	Mx	.005	2.5
91	MP3A	X	-20.51	1.5
92	MP3A	Z	0	1.5
93	MP3A	Mx	-.01	1.5
94	MP3B	X	-20.51	1.5
95	MP3B	Z	0	1.5
96	MP3B	Mx	-.01	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-10.96	2
2	MP1A	Z	-6.328	2
3	MP1A	Mx	.004	2
4	MP1A	X	-10.96	4
5	MP1A	Z	-6.328	4
6	MP1A	Mx	.004	4
7	MP1B	X	-14.604	2
8	MP1B	Z	-8.432	2
9	MP1B	Mx	.002	2
10	MP1B	X	-14.604	4
11	MP1B	Z	-8.432	4
12	MP1B	Mx	.002	4
13	MP1C	X	-7.317	2
14	MP1C	Z	-4.224	2
15	MP1C	Mx	-.004	2
16	MP1C	X	-7.317	4
17	MP1C	Z	-4.224	4
18	MP1C	Mx	-.004	4
19	MP2A	X	-21.476	.5
20	MP2A	Z	-12.399	.5
21	MP2A	Mx	-.002	.5
22	MP2A	X	-21.476	6.5
23	MP2A	Z	-12.399	6.5
24	MP2A	Mx	-.002	6.5
25	MP2B	X	-24.708	.5
26	MP2B	Z	-14.265	.5
27	MP2B	Mx	.021	.5
28	MP2B	X	-24.708	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
29	MP2B	Z	-14.265	6.5
30	MP2B	Mx	.021	6.5
31	MP2C	X	-18.244	.5
32	MP2C	Z	-10.533	.5
33	MP2C	Mx	-.014	.5
34	MP2C	X	-18.244	6.5
35	MP2C	Z	-10.533	6.5
36	MP2C	Mx	-.014	6.5
37	MP2A	X	-21.476	.5
38	MP2A	Z	-12.399	.5
39	MP2A	Mx	.02	.5
40	MP2A	X	-21.476	6.5
41	MP2A	Z	-12.399	6.5
42	MP2A	Mx	.02	6.5
43	MP2B	X	-24.708	.5
44	MP2B	Z	-14.265	.5
45	MP2B	Mx	-.014	.5
46	MP2B	X	-24.708	6.5
47	MP2B	Z	-14.265	6.5
48	MP2B	Mx	-.014	6.5
49	MP2C	X	-18.244	.5
50	MP2C	Z	-10.533	.5
51	MP2C	Mx	-.007	.5
52	MP2C	X	-18.244	6.5
53	MP2C	Z	-10.533	6.5
54	MP2C	Mx	-.007	6.5
55	MP4A	X	-10.905	1
56	MP4A	Z	-6.296	1
57	MP4A	Mx	.004	1
58	MP4A	X	-10.905	5
59	MP4A	Z	-6.296	5
60	MP4A	Mx	.004	5
61	MP4B	X	-11.85	1
62	MP4B	Z	-6.842	1
63	MP4B	Mx	.002	1
64	MP4B	X	-11.85	5
65	MP4B	Z	-6.842	5
66	MP4B	Mx	.002	5
67	MP4C	X	-9.96	1
68	MP4C	Z	-5.75	1
69	MP4C	Mx	-.006	1
70	MP4C	X	-9.96	5
71	MP4C	Z	-5.75	5
72	MP4C	Mx	-.006	5
73	MP2A	X	-11.252	2.5
74	MP2A	Z	-6.496	2.5
75	MP2A	Mx	.005	2.5
76	MP2B	X	-11.252	2.5
77	MP2B	Z	-6.496	2.5
78	MP2B	Mx	.005	2.5
79	MP2C	X	-11.252	2.5
80	MP2C	Z	-6.496	2.5
81	MP2C	Mx	.005	2.5
82	MP3A	X	-10.527	4
83	MP3A	Z	-6.078	4
84	MP3A	Mx	.004	4
85	MP3B	X	-10.527	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
86	MP3B	Z	-6.078	4
87	MP3B	Mx	.004	4
88	MP3C	X	-10.527	2.5
89	MP3C	Z	-6.078	2.5
90	MP3C	Mx	.004	2.5
91	MP3A	X	-21.001	1.5
92	MP3A	Z	-12.125	1.5
93	MP3A	Mx	-.009	1.5
94	MP3B	X	-21.001	1.5
95	MP3B	Z	-12.125	1.5
96	MP3B	Mx	-.009	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-8.432	2
2	MP1A	Z	-14.604	2
3	MP1A	Mx	.002	2
4	MP1A	X	-8.432	4
5	MP1A	Z	-14.604	4
6	MP1A	Mx	.002	4
7	MP1B	X	-6.328	2
8	MP1B	Z	-10.96	2
9	MP1B	Mx	.004	2
10	MP1B	X	-6.328	4
11	MP1B	Z	-10.96	4
12	MP1B	Mx	.004	4
13	MP1C	X	-4.224	2
14	MP1C	Z	-7.317	2
15	MP1C	Mx	-.004	2
16	MP1C	X	-4.224	4
17	MP1C	Z	-7.317	4
18	MP1C	Mx	-.004	4
19	MP2A	X	-14.265	.5
20	MP2A	Z	-24.708	.5
21	MP2A	Mx	-.014	.5
22	MP2A	X	-14.265	6.5
23	MP2A	Z	-24.708	6.5
24	MP2A	Mx	-.014	6.5
25	MP2B	X	-12.399	.5
26	MP2B	Z	-21.476	.5
27	MP2B	Mx	.02	.5
28	MP2B	X	-12.399	6.5
29	MP2B	Z	-21.476	6.5
30	MP2B	Mx	.02	6.5
31	MP2C	X	-10.533	.5
32	MP2C	Z	-18.244	.5
33	MP2C	Mx	-.007	.5
34	MP2C	X	-10.533	6.5
35	MP2C	Z	-18.244	6.5
36	MP2C	Mx	-.007	6.5
37	MP2A	X	-14.265	.5
38	MP2A	Z	-24.708	.5
39	MP2A	Mx	.021	.5
40	MP2A	X	-14.265	6.5
41	MP2A	Z	-24.708	6.5
42	MP2A	Mx	.021	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
43	MP2B	X	-12.399	.5
44	MP2B	Z	-21.476	.5
45	MP2B	Mx	-.002	.5
46	MP2B	X	-12.399	6.5
47	MP2B	Z	-21.476	6.5
48	MP2B	Mx	-.002	6.5
49	MP2C	X	-10.533	.5
50	MP2C	Z	-18.244	.5
51	MP2C	Mx	-.014	.5
52	MP2C	X	-10.533	6.5
53	MP2C	Z	-18.244	6.5
54	MP2C	Mx	-.014	6.5
55	MP4A	X	-6.842	1
56	MP4A	Z	-11.85	1
57	MP4A	Mx	.002	1
58	MP4A	X	-6.842	5
59	MP4A	Z	-11.85	5
60	MP4A	Mx	.002	5
61	MP4B	X	-6.296	1
62	MP4B	Z	-10.905	1
63	MP4B	Mx	.004	1
64	MP4B	X	-6.296	5
65	MP4B	Z	-10.905	5
66	MP4B	Mx	.004	5
67	MP4C	X	-5.75	1
68	MP4C	Z	-9.96	1
69	MP4C	Mx	-.006	1
70	MP4C	X	-5.75	5
71	MP4C	Z	-9.96	5
72	MP4C	Mx	-.006	5
73	MP2A	X	-7.451	2.5
74	MP2A	Z	-12.905	2.5
75	MP2A	Mx	.002	2.5
76	MP2B	X	-7.451	2.5
77	MP2B	Z	-12.905	2.5
78	MP2B	Mx	.002	2.5
79	MP2C	X	-7.451	2.5
80	MP2C	Z	-12.905	2.5
81	MP2C	Mx	.002	2.5
82	MP3A	X	-7.394	4
83	MP3A	Z	-12.808	4
84	MP3A	Mx	.002	4
85	MP3B	X	-7.394	4
86	MP3B	Z	-12.808	4
87	MP3B	Mx	.002	4
88	MP3C	X	-7.394	2.5
89	MP3C	Z	-12.808	2.5
90	MP3C	Mx	.002	2.5
91	MP3A	X	-13.996	1.5
92	MP3A	Z	-24.241	1.5
93	MP3A	Mx	-.004	1.5
94	MP3B	X	-13.996	1.5
95	MP3B	Z	-24.241	1.5
96	MP3B	Mx	-.004	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
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### Member Point Loads (BLC 27 : Antenna Wm (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	0	2
2	MP1A	Z	-5.032	2
3	MP1A	Mx	-.000651	2
4	MP1A	X	0	4
5	MP1A	Z	-5.032	4
6	MP1A	Mx	-.000651	4
7	MP1B	X	0	2
8	MP1B	Z	-2.268	2
9	MP1B	Mx	.001	2
10	MP1B	X	0	4
11	MP1B	Z	-2.268	4
12	MP1B	Mx	.001	4
13	MP1C	X	0	2
14	MP1C	Z	-3.65	2
15	MP1C	Mx	-.001	2
16	MP1C	X	0	4
17	MP1C	Z	-3.65	4
18	MP1C	Mx	-.001	4
19	MP2A	X	0	.5
20	MP2A	Z	-8.813	.5
21	MP2A	Mx	-.006	.5
22	MP2A	X	0	6.5
23	MP2A	Z	-8.813	6.5
24	MP2A	Mx	-.006	6.5
25	MP2B	X	0	.5
26	MP2B	Z	-6.167	.5
27	MP2B	Mx	.004	.5
28	MP2B	X	0	6.5
29	MP2B	Z	-6.167	6.5
30	MP2B	Mx	.004	6.5
31	MP2C	X	0	.5
32	MP2C	Z	-7.49	.5
33	MP2C	Mx	.000662	.5
34	MP2C	X	0	6.5
35	MP2C	Z	-7.49	6.5
36	MP2C	Mx	.000662	6.5
37	MP2A	X	0	.5
38	MP2A	Z	-8.813	.5
39	MP2A	Mx	.004	.5
40	MP2A	X	0	6.5
41	MP2A	Z	-8.813	6.5
42	MP2A	Mx	.004	6.5
43	MP2B	X	0	.5
44	MP2B	Z	-6.167	.5
45	MP2B	Mx	.002	.5
46	MP2B	X	0	6.5
47	MP2B	Z	-6.167	6.5
48	MP2B	Mx	.002	6.5
49	MP2C	X	0	.5
50	MP2C	Z	-7.49	.5
51	MP2C	Mx	-.006	.5
52	MP2C	X	0	6.5
53	MP2C	Z	-7.49	6.5
54	MP2C	Mx	-.006	6.5
55	MP4A	X	0	1
56	MP4A	Z	-3.916	1
57	MP4A	Mx	-.000507	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP4A	X	0	5
59	MP4A	Z	-3.916	5
60	MP4A	Mx	-.000507	5
61	MP4B	X	0	1
62	MP4B	Z	-3.174	1
63	MP4B	Mx	.002	1
64	MP4B	X	0	5
65	MP4B	Z	-3.174	5
66	MP4B	Mx	.002	5
67	MP4C	X	0	1
68	MP4C	Z	-3.545	1
69	MP4C	Mx	-.001	1
70	MP4C	X	0	5
71	MP4C	Z	-3.545	5
72	MP4C	Mx	-.001	5
73	MP2A	X	0	2.5
74	MP2A	Z	-4.082	2.5
75	MP2A	Mx	-.000528	2.5
76	MP2B	X	0	2.5
77	MP2B	Z	-4.082	2.5
78	MP2B	Mx	-.000528	2.5
79	MP2C	X	0	2.5
80	MP2C	Z	-4.082	2.5
81	MP2C	Mx	-.000528	2.5
82	MP3A	X	0	4
83	MP3A	Z	-4.046	4
84	MP3A	Mx	-.000524	4
85	MP3B	X	0	4
86	MP3B	Z	-4.046	4
87	MP3B	Mx	-.000524	4
88	MP3C	X	0	2.5
89	MP3C	Z	-4.046	2.5
90	MP3C	Mx	-.000524	2.5
91	MP3A	X	0	1.5
92	MP3A	Z	-8.269	1.5
93	MP3A	Mx	.001	1.5
94	MP3B	X	0	1.5
95	MP3B	Z	-8.269	1.5
96	MP3B	Mx	.001	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	1.825	2
2	MP1A	Z	-3.161	2
3	MP1A	Mx	-.001	2
4	MP1A	X	1.825	4
5	MP1A	Z	-3.161	4
6	MP1A	Mx	-.001	4
7	MP1B	X	1.134	2
8	MP1B	Z	-1.964	2
9	MP1B	Mx	.001	2
10	MP1B	X	1.134	4
11	MP1B	Z	-1.964	4
12	MP1B	Mx	.001	4
13	MP1C	X	2.516	2
14	MP1C	Z	-4.358	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP1C	Mx	-.000651	2
16	MP1C	X	2.516	4
17	MP1C	Z	-4.358	4
18	MP1C	Mx	-.000651	4
19	MP2A	X	3.745	.5
20	MP2A	Z	-6.487	.5
21	MP2A	Mx	-.006	.5
22	MP2A	X	3.745	6.5
23	MP2A	Z	-6.487	6.5
24	MP2A	Mx	-.006	6.5
25	MP2B	X	3.083	.5
26	MP2B	Z	-5.34	.5
27	MP2B	Mx	.002	.5
28	MP2B	X	3.083	6.5
29	MP2B	Z	-5.34	6.5
30	MP2B	Mx	.002	6.5
31	MP2C	X	4.407	.5
32	MP2C	Z	-7.633	.5
33	MP2C	Mx	.004	.5
34	MP2C	X	4.407	6.5
35	MP2C	Z	-7.633	6.5
36	MP2C	Mx	.004	6.5
37	MP2A	X	3.745	.5
38	MP2A	Z	-6.487	.5
39	MP2A	Mx	.000662	.5
40	MP2A	X	3.745	6.5
41	MP2A	Z	-6.487	6.5
42	MP2A	Mx	.000662	6.5
43	MP2B	X	3.083	.5
44	MP2B	Z	-5.34	.5
45	MP2B	Mx	.004	.5
46	MP2B	X	3.083	6.5
47	MP2B	Z	-5.34	6.5
48	MP2B	Mx	.004	6.5
49	MP2C	X	4.407	.5
50	MP2C	Z	-7.633	.5
51	MP2C	Mx	-.006	.5
52	MP2C	X	4.407	6.5
53	MP2C	Z	-7.633	6.5
54	MP2C	Mx	-.006	6.5
55	MP4A	X	1.773	1
56	MP4A	Z	-3.07	1
57	MP4A	Mx	-.001	1
58	MP4A	X	1.773	5
59	MP4A	Z	-3.07	5
60	MP4A	Mx	-.001	5
61	MP4B	X	1.587	1
62	MP4B	Z	-2.749	1
63	MP4B	Mx	.002	1
64	MP4B	X	1.587	5
65	MP4B	Z	-2.749	5
66	MP4B	Mx	.002	5
67	MP4C	X	1.958	1
68	MP4C	Z	-3.391	1
69	MP4C	Mx	-.000507	1
70	MP4C	X	1.958	5
71	MP4C	Z	-3.391	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP4C	Mx	-0.000507	5
73	MP2A	X	1.741	2.5
74	MP2A	Z	-3.016	2.5
75	MP2A	Mx	-0.001	2.5
76	MP2B	X	1.741	2.5
77	MP2B	Z	-3.016	2.5
78	MP2B	Mx	-0.001	2.5
79	MP2C	X	1.741	2.5
80	MP2C	Z	-3.016	2.5
81	MP2C	Mx	-0.001	2.5
82	MP3A	X	1.609	4
83	MP3A	Z	-2.786	4
84	MP3A	Mx	-0.001	4
85	MP3B	X	1.609	4
86	MP3B	Z	-2.786	4
87	MP3B	Mx	-0.001	4
88	MP3C	X	1.609	2.5
89	MP3C	Z	-2.786	2.5
90	MP3C	Mx	-0.001	2.5
91	MP3A	X	3.515	1.5
92	MP3A	Z	-6.088	1.5
93	MP3A	Mx	.002	1.5
94	MP3B	X	3.515	1.5
95	MP3B	Z	-6.088	1.5
96	MP3B	Mx	.002	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	1.964	2
2	MP1A	Z	-1.134	2
3	MP1A	Mx	-0.001	2
4	MP1A	X	1.964	4
5	MP1A	Z	-1.134	4
6	MP1A	Mx	-0.001	4
7	MP1B	X	3.161	2
8	MP1B	Z	-1.825	2
9	MP1B	Mx	.001	2
10	MP1B	X	3.161	4
11	MP1B	Z	-1.825	4
12	MP1B	Mx	.001	4
13	MP1C	X	4.358	2
14	MP1C	Z	-2.516	2
15	MP1C	Mx	.000651	2
16	MP1C	X	4.358	4
17	MP1C	Z	-2.516	4
18	MP1C	Mx	.000651	4
19	MP2A	X	5.34	.5
20	MP2A	Z	-3.083	.5
21	MP2A	Mx	-0.004	.5
22	MP2A	X	5.34	6.5
23	MP2A	Z	-3.083	6.5
24	MP2A	Mx	-0.004	6.5
25	MP2B	X	6.487	.5
26	MP2B	Z	-3.745	.5
27	MP2B	Mx	-0.000662	.5
28	MP2B	X	6.487	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP2B	Z	-3.745	6.5
30	MP2B	Mx	-.000662	6.5
31	MP2C	X	7.633	.5
32	MP2C	Z	-4.407	.5
33	MP2C	Mx	.006	.5
34	MP2C	X	7.633	6.5
35	MP2C	Z	-4.407	6.5
36	MP2C	Mx	.006	6.5
37	MP2A	X	5.34	.5
38	MP2A	Z	-3.083	.5
39	MP2A	Mx	-.002	.5
40	MP2A	X	5.34	6.5
41	MP2A	Z	-3.083	6.5
42	MP2A	Mx	-.002	6.5
43	MP2B	X	6.487	.5
44	MP2B	Z	-3.745	.5
45	MP2B	Mx	.006	.5
46	MP2B	X	6.487	6.5
47	MP2B	Z	-3.745	6.5
48	MP2B	Mx	.006	6.5
49	MP2C	X	7.633	.5
50	MP2C	Z	-4.407	.5
51	MP2C	Mx	-.004	.5
52	MP2C	X	7.633	6.5
53	MP2C	Z	-4.407	6.5
54	MP2C	Mx	-.004	6.5
55	MP4A	X	2.749	1
56	MP4A	Z	-1.587	1
57	MP4A	Mx	-.002	1
58	MP4A	X	2.749	5
59	MP4A	Z	-1.587	5
60	MP4A	Mx	-.002	5
61	MP4B	X	3.07	1
62	MP4B	Z	-1.773	1
63	MP4B	Mx	.001	1
64	MP4B	X	3.07	5
65	MP4B	Z	-1.773	5
66	MP4B	Mx	.001	5
67	MP4C	X	3.391	1
68	MP4C	Z	-1.958	1
69	MP4C	Mx	.000507	1
70	MP4C	X	3.391	5
71	MP4C	Z	-1.958	5
72	MP4C	Mx	.000507	5
73	MP2A	X	2.497	2.5
74	MP2A	Z	-1.441	2.5
75	MP2A	Mx	-.001	2.5
76	MP2B	X	2.497	2.5
77	MP2B	Z	-1.441	2.5
78	MP2B	Mx	-.001	2.5
79	MP2C	X	2.497	2.5
80	MP2C	Z	-1.441	2.5
81	MP2C	Mx	-.001	2.5
82	MP3A	X	2.068	4
83	MP3A	Z	-1.194	4
84	MP3A	Mx	-.001	4
85	MP3B	X	2.068	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
86	MP3B	Z	-1.194	4
87	MP3B	Mx	-.001	4
88	MP3C	X	2.068	2.5
89	MP3C	Z	-1.194	2.5
90	MP3C	Mx	-.001	2.5
91	MP3A	X	5.016	1.5
92	MP3A	Z	-2.896	1.5
93	MP3A	Mx	.003	1.5
94	MP3B	X	5.016	1.5
95	MP3B	Z	-2.896	1.5
96	MP3B	Mx	.003	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	2.268	2
2	MP1A	Z	0	2
3	MP1A	Mx	-.001	2
4	MP1A	X	2.268	4
5	MP1A	Z	0	4
6	MP1A	Mx	-.001	4
7	MP1B	X	5.032	2
8	MP1B	Z	0	2
9	MP1B	Mx	.000651	2
10	MP1B	X	5.032	4
11	MP1B	Z	0	4
12	MP1B	Mx	.000651	4
13	MP1C	X	3.65	2
14	MP1C	Z	0	2
15	MP1C	Mx	.001	2
16	MP1C	X	3.65	4
17	MP1C	Z	0	4
18	MP1C	Mx	.001	4
19	MP2A	X	6.167	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-.002	.5
22	MP2A	X	6.167	6.5
23	MP2A	Z	0	6.5
24	MP2A	Mx	-.002	6.5
25	MP2B	X	8.813	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-.004	.5
28	MP2B	X	8.813	6.5
29	MP2B	Z	0	6.5
30	MP2B	Mx	-.004	6.5
31	MP2C	X	7.49	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.006	.5
34	MP2C	X	7.49	6.5
35	MP2C	Z	0	6.5
36	MP2C	Mx	.006	6.5
37	MP2A	X	6.167	.5
38	MP2A	Z	0	.5
39	MP2A	Mx	-.004	.5
40	MP2A	X	6.167	6.5
41	MP2A	Z	0	6.5
42	MP2A	Mx	-.004	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
43	MP2B	X	8.813	.5
44	MP2B	Z	0	.5
45	MP2B	Mx	.006	.5
46	MP2B	X	8.813	6.5
47	MP2B	Z	0	6.5
48	MP2B	Mx	.006	6.5
49	MP2C	X	7.49	.5
50	MP2C	Z	0	.5
51	MP2C	Mx	-.000662	.5
52	MP2C	X	7.49	6.5
53	MP2C	Z	0	6.5
54	MP2C	Mx	-.000662	6.5
55	MP4A	X	3.174	1
56	MP4A	Z	0	1
57	MP4A	Mx	-.002	1
58	MP4A	X	3.174	5
59	MP4A	Z	0	5
60	MP4A	Mx	-.002	5
61	MP4B	X	3.916	1
62	MP4B	Z	0	1
63	MP4B	Mx	.000507	1
64	MP4B	X	3.916	5
65	MP4B	Z	0	5
66	MP4B	Mx	.000507	5
67	MP4C	X	3.545	1
68	MP4C	Z	0	1
69	MP4C	Mx	.001	1
70	MP4C	X	3.545	5
71	MP4C	Z	0	5
72	MP4C	Mx	.001	5
73	MP2A	X	2.883	2.5
74	MP2A	Z	0	2.5
75	MP2A	Mx	-.001	2.5
76	MP2B	X	2.883	2.5
77	MP2B	Z	0	2.5
78	MP2B	Mx	-.001	2.5
79	MP2C	X	2.883	2.5
80	MP2C	Z	0	2.5
81	MP2C	Mx	-.001	2.5
82	MP3A	X	2.388	4
83	MP3A	Z	0	4
84	MP3A	Mx	-.001	4
85	MP3B	X	2.388	4
86	MP3B	Z	0	4
87	MP3B	Mx	-.001	4
88	MP3C	X	2.388	2.5
89	MP3C	Z	0	2.5
90	MP3C	Mx	-.001	2.5
91	MP3A	X	5.792	1.5
92	MP3A	Z	0	1.5
93	MP3A	Mx	.003	1.5
94	MP3B	X	5.792	1.5
95	MP3B	Z	0	1.5
96	MP3B	Mx	.003	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
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### Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	3.161	2
2	MP1A	Z	1.825	2
3	MP1A	Mx	-.001	2
4	MP1A	X	3.161	4
5	MP1A	Z	1.825	4
6	MP1A	Mx	-.001	4
7	MP1B	X	4.358	2
8	MP1B	Z	2.516	2
9	MP1B	Mx	-.000651	2
10	MP1B	X	4.358	4
11	MP1B	Z	2.516	4
12	MP1B	Mx	-.000651	4
13	MP1C	X	1.964	2
14	MP1C	Z	1.134	2
15	MP1C	Mx	.001	2
16	MP1C	X	1.964	4
17	MP1C	Z	1.134	4
18	MP1C	Mx	.001	4
19	MP2A	X	6.487	.5
20	MP2A	Z	3.745	.5
21	MP2A	Mx	.000662	.5
22	MP2A	X	6.487	6.5
23	MP2A	Z	3.745	6.5
24	MP2A	Mx	.000662	6.5
25	MP2B	X	7.633	.5
26	MP2B	Z	4.407	.5
27	MP2B	Mx	-.006	.5
28	MP2B	X	7.633	6.5
29	MP2B	Z	4.407	6.5
30	MP2B	Mx	-.006	6.5
31	MP2C	X	5.34	.5
32	MP2C	Z	3.083	.5
33	MP2C	Mx	.004	.5
34	MP2C	X	5.34	6.5
35	MP2C	Z	3.083	6.5
36	MP2C	Mx	.004	6.5
37	MP2A	X	6.487	.5
38	MP2A	Z	3.745	.5
39	MP2A	Mx	-.006	.5
40	MP2A	X	6.487	6.5
41	MP2A	Z	3.745	6.5
42	MP2A	Mx	-.006	6.5
43	MP2B	X	7.633	.5
44	MP2B	Z	4.407	.5
45	MP2B	Mx	.004	.5
46	MP2B	X	7.633	6.5
47	MP2B	Z	4.407	6.5
48	MP2B	Mx	.004	6.5
49	MP2C	X	5.34	.5
50	MP2C	Z	3.083	.5
51	MP2C	Mx	.002	.5
52	MP2C	X	5.34	6.5
53	MP2C	Z	3.083	6.5
54	MP2C	Mx	.002	6.5
55	MP4A	X	3.07	1
56	MP4A	Z	1.773	1
57	MP4A	Mx	-.001	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP4A	X	3.07	5
59	MP4A	Z	1.773	5
60	MP4A	Mx	-.001	5
61	MP4B	X	3.391	1
62	MP4B	Z	1.958	1
63	MP4B	Mx	-.000507	1
64	MP4B	X	3.391	5
65	MP4B	Z	1.958	5
66	MP4B	Mx	-.000507	5
67	MP4C	X	2.749	1
68	MP4C	Z	1.587	1
69	MP4C	Mx	.002	1
70	MP4C	X	2.749	5
71	MP4C	Z	1.587	5
72	MP4C	Mx	.002	5
73	MP2A	X	3.016	2.5
74	MP2A	Z	1.741	2.5
75	MP2A	Mx	-.001	2.5
76	MP2B	X	3.016	2.5
77	MP2B	Z	1.741	2.5
78	MP2B	Mx	-.001	2.5
79	MP2C	X	3.016	2.5
80	MP2C	Z	1.741	2.5
81	MP2C	Mx	-.001	2.5
82	MP3A	X	2.786	4
83	MP3A	Z	1.609	4
84	MP3A	Mx	-.001	4
85	MP3B	X	2.786	4
86	MP3B	Z	1.609	4
87	MP3B	Mx	-.001	4
88	MP3C	X	2.786	2.5
89	MP3C	Z	1.609	2.5
90	MP3C	Mx	-.001	2.5
91	MP3A	X	6.088	1.5
92	MP3A	Z	3.515	1.5
93	MP3A	Mx	.002	1.5
94	MP3B	X	6.088	1.5
95	MP3B	Z	3.515	1.5
96	MP3B	Mx	.002	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	2.516	2
2	MP1A	Z	4.358	2
3	MP1A	Mx	-.000651	2
4	MP1A	X	2.516	4
5	MP1A	Z	4.358	4
6	MP1A	Mx	-.000651	4
7	MP1B	X	1.825	2
8	MP1B	Z	3.161	2
9	MP1B	Mx	-.001	2
10	MP1B	X	1.825	4
11	MP1B	Z	3.161	4
12	MP1B	Mx	-.001	4
13	MP1C	X	1.134	2
14	MP1C	Z	1.964	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
15	MP1C	Mx	.001	2
16	MP1C	X	1.134	4
17	MP1C	Z	1.964	4
18	MP1C	Mx	.001	4
19	MP2A	X	4.407	.5
20	MP2A	Z	7.633	.5
21	MP2A	Mx	.004	.5
22	MP2A	X	4.407	6.5
23	MP2A	Z	7.633	6.5
24	MP2A	Mx	.004	6.5
25	MP2B	X	3.745	.5
26	MP2B	Z	6.487	.5
27	MP2B	Mx	-.006	.5
28	MP2B	X	3.745	6.5
29	MP2B	Z	6.487	6.5
30	MP2B	Mx	-.006	6.5
31	MP2C	X	3.083	.5
32	MP2C	Z	5.34	.5
33	MP2C	Mx	.002	.5
34	MP2C	X	3.083	6.5
35	MP2C	Z	5.34	6.5
36	MP2C	Mx	.002	6.5
37	MP2A	X	4.407	.5
38	MP2A	Z	7.633	.5
39	MP2A	Mx	-.006	.5
40	MP2A	X	4.407	6.5
41	MP2A	Z	7.633	6.5
42	MP2A	Mx	-.006	6.5
43	MP2B	X	3.745	.5
44	MP2B	Z	6.487	.5
45	MP2B	Mx	.000662	.5
46	MP2B	X	3.745	6.5
47	MP2B	Z	6.487	6.5
48	MP2B	Mx	.000662	6.5
49	MP2C	X	3.083	.5
50	MP2C	Z	5.34	.5
51	MP2C	Mx	.004	.5
52	MP2C	X	3.083	6.5
53	MP2C	Z	5.34	6.5
54	MP2C	Mx	.004	6.5
55	MP4A	X	1.958	1
56	MP4A	Z	3.391	1
57	MP4A	Mx	-.000507	1
58	MP4A	X	1.958	5
59	MP4A	Z	3.391	5
60	MP4A	Mx	-.000507	5
61	MP4B	X	1.773	1
62	MP4B	Z	3.07	1
63	MP4B	Mx	-.001	1
64	MP4B	X	1.773	5
65	MP4B	Z	3.07	5
66	MP4B	Mx	-.001	5
67	MP4C	X	1.587	1
68	MP4C	Z	2.749	1
69	MP4C	Mx	.002	1
70	MP4C	X	1.587	5
71	MP4C	Z	2.749	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP4C	Mx	.002	5
73	MP2A	X	2.041	2.5
74	MP2A	Z	3.535	2.5
75	MP2A	Mx	-.000528	2.5
76	MP2B	X	2.041	2.5
77	MP2B	Z	3.535	2.5
78	MP2B	Mx	-.000528	2.5
79	MP2C	X	2.041	2.5
80	MP2C	Z	3.535	2.5
81	MP2C	Mx	-.000528	2.5
82	MP3A	X	2.023	4
83	MP3A	Z	3.504	4
84	MP3A	Mx	-.000524	4
85	MP3B	X	2.023	4
86	MP3B	Z	3.504	4
87	MP3B	Mx	-.000524	4
88	MP3C	X	2.023	2.5
89	MP3C	Z	3.504	2.5
90	MP3C	Mx	-.000524	2.5
91	MP3A	X	4.134	1.5
92	MP3A	Z	7.161	1.5
93	MP3A	Mx	.001	1.5
94	MP3B	X	4.134	1.5
95	MP3B	Z	7.161	1.5
96	MP3B	Mx	.001	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2
2	MP1A	Z	5.032	2
3	MP1A	Mx	.000651	2
4	MP1A	X	0	4
5	MP1A	Z	5.032	4
6	MP1A	Mx	.000651	4
7	MP1B	X	0	2
8	MP1B	Z	2.268	2
9	MP1B	Mx	-.001	2
10	MP1B	X	0	4
11	MP1B	Z	2.268	4
12	MP1B	Mx	-.001	4
13	MP1C	X	0	2
14	MP1C	Z	3.65	2
15	MP1C	Mx	.001	2
16	MP1C	X	0	4
17	MP1C	Z	3.65	4
18	MP1C	Mx	.001	4
19	MP2A	X	0	.5
20	MP2A	Z	8.813	.5
21	MP2A	Mx	.006	.5
22	MP2A	X	0	6.5
23	MP2A	Z	8.813	6.5
24	MP2A	Mx	.006	6.5
25	MP2B	X	0	.5
26	MP2B	Z	6.167	.5
27	MP2B	Mx	-.004	.5
28	MP2B	X	0	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2B	Z	6.167	6.5
30	MP2B	Mx	-.004	6.5
31	MP2C	X	0	.5
32	MP2C	Z	7.49	.5
33	MP2C	Mx	-.000662	.5
34	MP2C	X	0	6.5
35	MP2C	Z	7.49	6.5
36	MP2C	Mx	-.000662	6.5
37	MP2A	X	0	.5
38	MP2A	Z	8.813	.5
39	MP2A	Mx	-.004	.5
40	MP2A	X	0	6.5
41	MP2A	Z	8.813	6.5
42	MP2A	Mx	-.004	6.5
43	MP2B	X	0	.5
44	MP2B	Z	6.167	.5
45	MP2B	Mx	-.002	.5
46	MP2B	X	0	6.5
47	MP2B	Z	6.167	6.5
48	MP2B	Mx	-.002	6.5
49	MP2C	X	0	.5
50	MP2C	Z	7.49	.5
51	MP2C	Mx	.006	.5
52	MP2C	X	0	6.5
53	MP2C	Z	7.49	6.5
54	MP2C	Mx	.006	6.5
55	MP4A	X	0	1
56	MP4A	Z	3.916	1
57	MP4A	Mx	.000507	1
58	MP4A	X	0	5
59	MP4A	Z	3.916	5
60	MP4A	Mx	.000507	5
61	MP4B	X	0	1
62	MP4B	Z	3.174	1
63	MP4B	Mx	-.002	1
64	MP4B	X	0	5
65	MP4B	Z	3.174	5
66	MP4B	Mx	-.002	5
67	MP4C	X	0	1
68	MP4C	Z	3.545	1
69	MP4C	Mx	.001	1
70	MP4C	X	0	5
71	MP4C	Z	3.545	5
72	MP4C	Mx	.001	5
73	MP2A	X	0	2.5
74	MP2A	Z	4.082	2.5
75	MP2A	Mx	.000528	2.5
76	MP2B	X	0	2.5
77	MP2B	Z	4.082	2.5
78	MP2B	Mx	.000528	2.5
79	MP2C	X	0	2.5
80	MP2C	Z	4.082	2.5
81	MP2C	Mx	.000528	2.5
82	MP3A	X	0	4
83	MP3A	Z	4.046	4
84	MP3A	Mx	.000524	4
85	MP3B	X	0	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
86	MP3B	Z	4.046	4
87	MP3B	Mx	.000524	4
88	MP3C	X	0	2.5
89	MP3C	Z	4.046	2.5
90	MP3C	Mx	.000524	2.5
91	MP3A	X	0	1.5
92	MP3A	Z	8.269	1.5
93	MP3A	Mx	-.001	1.5
94	MP3B	X	0	1.5
95	MP3B	Z	8.269	1.5
96	MP3B	Mx	-.001	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-1.825	2
2	MP1A	Z	3.161	2
3	MP1A	Mx	.001	2
4	MP1A	X	-1.825	4
5	MP1A	Z	3.161	4
6	MP1A	Mx	.001	4
7	MP1B	X	-1.134	2
8	MP1B	Z	1.964	2
9	MP1B	Mx	-.001	2
10	MP1B	X	-1.134	4
11	MP1B	Z	1.964	4
12	MP1B	Mx	-.001	4
13	MP1C	X	-2.516	2
14	MP1C	Z	4.358	2
15	MP1C	Mx	.000651	2
16	MP1C	X	-2.516	4
17	MP1C	Z	4.358	4
18	MP1C	Mx	.000651	4
19	MP2A	X	-3.745	.5
20	MP2A	Z	6.487	.5
21	MP2A	Mx	.006	.5
22	MP2A	X	-3.745	6.5
23	MP2A	Z	6.487	6.5
24	MP2A	Mx	.006	6.5
25	MP2B	X	-3.083	.5
26	MP2B	Z	5.34	.5
27	MP2B	Mx	-.002	.5
28	MP2B	X	-3.083	6.5
29	MP2B	Z	5.34	6.5
30	MP2B	Mx	-.002	6.5
31	MP2C	X	-4.407	.5
32	MP2C	Z	7.633	.5
33	MP2C	Mx	-.004	.5
34	MP2C	X	-4.407	6.5
35	MP2C	Z	7.633	6.5
36	MP2C	Mx	-.004	6.5
37	MP2A	X	-3.745	.5
38	MP2A	Z	6.487	.5
39	MP2A	Mx	-.000662	.5
40	MP2A	X	-3.745	6.5
41	MP2A	Z	6.487	6.5
42	MP2A	Mx	-.000662	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
43	MP2B	X	-3.083	.5
44	MP2B	Z	5.34	.5
45	MP2B	Mx	-.004	.5
46	MP2B	X	-3.083	6.5
47	MP2B	Z	5.34	6.5
48	MP2B	Mx	-.004	6.5
49	MP2C	X	-4.407	.5
50	MP2C	Z	7.633	.5
51	MP2C	Mx	.006	.5
52	MP2C	X	-4.407	6.5
53	MP2C	Z	7.633	6.5
54	MP2C	Mx	.006	6.5
55	MP4A	X	-1.773	1
56	MP4A	Z	3.07	1
57	MP4A	Mx	.001	1
58	MP4A	X	-1.773	5
59	MP4A	Z	3.07	5
60	MP4A	Mx	.001	5
61	MP4B	X	-1.587	1
62	MP4B	Z	2.749	1
63	MP4B	Mx	-.002	1
64	MP4B	X	-1.587	5
65	MP4B	Z	2.749	5
66	MP4B	Mx	-.002	5
67	MP4C	X	-1.958	1
68	MP4C	Z	3.391	1
69	MP4C	Mx	.000507	1
70	MP4C	X	-1.958	5
71	MP4C	Z	3.391	5
72	MP4C	Mx	.000507	5
73	MP2A	X	-1.741	2.5
74	MP2A	Z	3.016	2.5
75	MP2A	Mx	.001	2.5
76	MP2B	X	-1.741	2.5
77	MP2B	Z	3.016	2.5
78	MP2B	Mx	.001	2.5
79	MP2C	X	-1.741	2.5
80	MP2C	Z	3.016	2.5
81	MP2C	Mx	.001	2.5
82	MP3A	X	-1.609	4
83	MP3A	Z	2.786	4
84	MP3A	Mx	.001	4
85	MP3B	X	-1.609	4
86	MP3B	Z	2.786	4
87	MP3B	Mx	.001	4
88	MP3C	X	-1.609	2.5
89	MP3C	Z	2.786	2.5
90	MP3C	Mx	.001	2.5
91	MP3A	X	-3.515	1.5
92	MP3A	Z	6.088	1.5
93	MP3A	Mx	-.002	1.5
94	MP3B	X	-3.515	1.5
95	MP3B	Z	6.088	1.5
96	MP3B	Mx	-.002	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
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### Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	-1.964	2
2	MP1A	Z	1.134	2
3	MP1A	Mx	.001	2
4	MP1A	X	-1.964	4
5	MP1A	Z	1.134	4
6	MP1A	Mx	.001	4
7	MP1B	X	-3.161	2
8	MP1B	Z	1.825	2
9	MP1B	Mx	-.001	2
10	MP1B	X	-3.161	4
11	MP1B	Z	1.825	4
12	MP1B	Mx	-.001	4
13	MP1C	X	-4.358	2
14	MP1C	Z	2.516	2
15	MP1C	Mx	-.000651	2
16	MP1C	X	-4.358	4
17	MP1C	Z	2.516	4
18	MP1C	Mx	-.000651	4
19	MP2A	X	-5.34	.5
20	MP2A	Z	3.083	.5
21	MP2A	Mx	.004	.5
22	MP2A	X	-5.34	6.5
23	MP2A	Z	3.083	6.5
24	MP2A	Mx	.004	6.5
25	MP2B	X	-6.487	.5
26	MP2B	Z	3.745	.5
27	MP2B	Mx	.000662	.5
28	MP2B	X	-6.487	6.5
29	MP2B	Z	3.745	6.5
30	MP2B	Mx	.000662	6.5
31	MP2C	X	-7.633	.5
32	MP2C	Z	4.407	.5
33	MP2C	Mx	-.006	.5
34	MP2C	X	-7.633	6.5
35	MP2C	Z	4.407	6.5
36	MP2C	Mx	-.006	6.5
37	MP2A	X	-5.34	.5
38	MP2A	Z	3.083	.5
39	MP2A	Mx	.002	.5
40	MP2A	X	-5.34	6.5
41	MP2A	Z	3.083	6.5
42	MP2A	Mx	.002	6.5
43	MP2B	X	-6.487	.5
44	MP2B	Z	3.745	.5
45	MP2B	Mx	-.006	.5
46	MP2B	X	-6.487	6.5
47	MP2B	Z	3.745	6.5
48	MP2B	Mx	-.006	6.5
49	MP2C	X	-7.633	.5
50	MP2C	Z	4.407	.5
51	MP2C	Mx	.004	.5
52	MP2C	X	-7.633	6.5
53	MP2C	Z	4.407	6.5
54	MP2C	Mx	.004	6.5
55	MP4A	X	-2.749	1
56	MP4A	Z	1.587	1
57	MP4A	Mx	.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP4A	X	-2.749	5
59	MP4A	Z	1.587	5
60	MP4A	Mx	.002	5
61	MP4B	X	-3.07	1
62	MP4B	Z	1.773	1
63	MP4B	Mx	-.001	1
64	MP4B	X	-3.07	5
65	MP4B	Z	1.773	5
66	MP4B	Mx	-.001	5
67	MP4C	X	-3.391	1
68	MP4C	Z	1.958	1
69	MP4C	Mx	-.000507	1
70	MP4C	X	-3.391	5
71	MP4C	Z	1.958	5
72	MP4C	Mx	-.000507	5
73	MP2A	X	-2.497	2.5
74	MP2A	Z	1.441	2.5
75	MP2A	Mx	.001	2.5
76	MP2B	X	-2.497	2.5
77	MP2B	Z	1.441	2.5
78	MP2B	Mx	.001	2.5
79	MP2C	X	-2.497	2.5
80	MP2C	Z	1.441	2.5
81	MP2C	Mx	.001	2.5
82	MP3A	X	-2.068	4
83	MP3A	Z	1.194	4
84	MP3A	Mx	.001	4
85	MP3B	X	-2.068	4
86	MP3B	Z	1.194	4
87	MP3B	Mx	.001	4
88	MP3C	X	-2.068	2.5
89	MP3C	Z	1.194	2.5
90	MP3C	Mx	.001	2.5
91	MP3A	X	-5.016	1.5
92	MP3A	Z	2.896	1.5
93	MP3A	Mx	-.003	1.5
94	MP3B	X	-5.016	1.5
95	MP3B	Z	2.896	1.5
96	MP3B	Mx	-.003	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-2.268	2
2	MP1A	Z	0	2
3	MP1A	Mx	.001	2
4	MP1A	X	-2.268	4
5	MP1A	Z	0	4
6	MP1A	Mx	.001	4
7	MP1B	X	-5.032	2
8	MP1B	Z	0	2
9	MP1B	Mx	-.000651	2
10	MP1B	X	-5.032	4
11	MP1B	Z	0	4
12	MP1B	Mx	-.000651	4
13	MP1C	X	-3.65	2
14	MP1C	Z	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP1C	Mx	-.001	2
16	MP1C	X	-3.65	4
17	MP1C	Z	0	4
18	MP1C	Mx	-.001	4
19	MP2A	X	-6.167	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.002	.5
22	MP2A	X	-6.167	6.5
23	MP2A	Z	0	6.5
24	MP2A	Mx	.002	6.5
25	MP2B	X	-8.813	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.004	.5
28	MP2B	X	-8.813	6.5
29	MP2B	Z	0	6.5
30	MP2B	Mx	.004	6.5
31	MP2C	X	-7.49	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.006	.5
34	MP2C	X	-7.49	6.5
35	MP2C	Z	0	6.5
36	MP2C	Mx	-.006	6.5
37	MP2A	X	-6.167	.5
38	MP2A	Z	0	.5
39	MP2A	Mx	.004	.5
40	MP2A	X	-6.167	6.5
41	MP2A	Z	0	6.5
42	MP2A	Mx	.004	6.5
43	MP2B	X	-8.813	.5
44	MP2B	Z	0	.5
45	MP2B	Mx	-.006	.5
46	MP2B	X	-8.813	6.5
47	MP2B	Z	0	6.5
48	MP2B	Mx	-.006	6.5
49	MP2C	X	-7.49	.5
50	MP2C	Z	0	.5
51	MP2C	Mx	.000662	.5
52	MP2C	X	-7.49	6.5
53	MP2C	Z	0	6.5
54	MP2C	Mx	.000662	6.5
55	MP4A	X	-3.174	1
56	MP4A	Z	0	1
57	MP4A	Mx	.002	1
58	MP4A	X	-3.174	5
59	MP4A	Z	0	5
60	MP4A	Mx	.002	5
61	MP4B	X	-3.916	1
62	MP4B	Z	0	1
63	MP4B	Mx	-.000507	1
64	MP4B	X	-3.916	5
65	MP4B	Z	0	5
66	MP4B	Mx	-.000507	5
67	MP4C	X	-3.545	1
68	MP4C	Z	0	1
69	MP4C	Mx	-.001	1
70	MP4C	X	-3.545	5
71	MP4C	Z	0	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP4C	Mx	-.001	5
73	MP2A	X	-2.883	2.5
74	MP2A	Z	0	2.5
75	MP2A	Mx	.001	2.5
76	MP2B	X	-2.883	2.5
77	MP2B	Z	0	2.5
78	MP2B	Mx	.001	2.5
79	MP2C	X	-2.883	2.5
80	MP2C	Z	0	2.5
81	MP2C	Mx	.001	2.5
82	MP3A	X	-2.388	4
83	MP3A	Z	0	4
84	MP3A	Mx	.001	4
85	MP3B	X	-2.388	4
86	MP3B	Z	0	4
87	MP3B	Mx	.001	4
88	MP3C	X	-2.388	2.5
89	MP3C	Z	0	2.5
90	MP3C	Mx	.001	2.5
91	MP3A	X	-5.792	1.5
92	MP3A	Z	0	1.5
93	MP3A	Mx	-.003	1.5
94	MP3B	X	-5.792	1.5
95	MP3B	Z	0	1.5
96	MP3B	Mx	-.003	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-3.161	2
2	MP1A	Z	-1.825	2
3	MP1A	Mx	.001	2
4	MP1A	X	-3.161	4
5	MP1A	Z	-1.825	4
6	MP1A	Mx	.001	4
7	MP1B	X	-4.358	2
8	MP1B	Z	-2.516	2
9	MP1B	Mx	.000651	2
10	MP1B	X	-4.358	4
11	MP1B	Z	-2.516	4
12	MP1B	Mx	.000651	4
13	MP1C	X	-1.964	2
14	MP1C	Z	-1.134	2
15	MP1C	Mx	-.001	2
16	MP1C	X	-1.964	4
17	MP1C	Z	-1.134	4
18	MP1C	Mx	-.001	4
19	MP2A	X	-6.487	.5
20	MP2A	Z	-3.745	.5
21	MP2A	Mx	-.000662	.5
22	MP2A	X	-6.487	6.5
23	MP2A	Z	-3.745	6.5
24	MP2A	Mx	-.000662	6.5
25	MP2B	X	-7.633	.5
26	MP2B	Z	-4.407	.5
27	MP2B	Mx	.006	.5
28	MP2B	X	-7.633	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP2B	Z	-4.407	6.5
30	MP2B	Mx	.006	6.5
31	MP2C	X	-5.34	.5
32	MP2C	Z	-3.083	.5
33	MP2C	Mx	-.004	.5
34	MP2C	X	-5.34	6.5
35	MP2C	Z	-3.083	6.5
36	MP2C	Mx	-.004	6.5
37	MP2A	X	-6.487	.5
38	MP2A	Z	-3.745	.5
39	MP2A	Mx	.006	.5
40	MP2A	X	-6.487	6.5
41	MP2A	Z	-3.745	6.5
42	MP2A	Mx	.006	6.5
43	MP2B	X	-7.633	.5
44	MP2B	Z	-4.407	.5
45	MP2B	Mx	-.004	.5
46	MP2B	X	-7.633	6.5
47	MP2B	Z	-4.407	6.5
48	MP2B	Mx	-.004	6.5
49	MP2C	X	-5.34	.5
50	MP2C	Z	-3.083	.5
51	MP2C	Mx	-.002	.5
52	MP2C	X	-5.34	6.5
53	MP2C	Z	-3.083	6.5
54	MP2C	Mx	-.002	6.5
55	MP4A	X	-3.07	1
56	MP4A	Z	-1.773	1
57	MP4A	Mx	.001	1
58	MP4A	X	-3.07	5
59	MP4A	Z	-1.773	5
60	MP4A	Mx	.001	5
61	MP4B	X	-3.391	1
62	MP4B	Z	-1.958	1
63	MP4B	Mx	.000507	1
64	MP4B	X	-3.391	5
65	MP4B	Z	-1.958	5
66	MP4B	Mx	.000507	5
67	MP4C	X	-2.749	1
68	MP4C	Z	-1.587	1
69	MP4C	Mx	-.002	1
70	MP4C	X	-2.749	5
71	MP4C	Z	-1.587	5
72	MP4C	Mx	-.002	5
73	MP2A	X	-3.016	2.5
74	MP2A	Z	-1.741	2.5
75	MP2A	Mx	.001	2.5
76	MP2B	X	-3.016	2.5
77	MP2B	Z	-1.741	2.5
78	MP2B	Mx	.001	2.5
79	MP2C	X	-3.016	2.5
80	MP2C	Z	-1.741	2.5
81	MP2C	Mx	.001	2.5
82	MP3A	X	-2.786	4
83	MP3A	Z	-1.609	4
84	MP3A	Mx	.001	4
85	MP3B	X	-2.786	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
86	MP3B	Z	-1.609	4
87	MP3B	Mx	.001	4
88	MP3C	X	-2.786	2.5
89	MP3C	Z	-1.609	2.5
90	MP3C	Mx	.001	2.5
91	MP3A	X	-6.088	1.5
92	MP3A	Z	-3.515	1.5
93	MP3A	Mx	-.002	1.5
94	MP3B	X	-6.088	1.5
95	MP3B	Z	-3.515	1.5
96	MP3B	Mx	-.002	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-2.516	2
2	MP1A	Z	-4.358	2
3	MP1A	Mx	.000651	2
4	MP1A	X	-2.516	4
5	MP1A	Z	-4.358	4
6	MP1A	Mx	.000651	4
7	MP1B	X	-1.825	2
8	MP1B	Z	-3.161	2
9	MP1B	Mx	.001	2
10	MP1B	X	-1.825	4
11	MP1B	Z	-3.161	4
12	MP1B	Mx	.001	4
13	MP1C	X	-1.134	2
14	MP1C	Z	-1.964	2
15	MP1C	Mx	-.001	2
16	MP1C	X	-1.134	4
17	MP1C	Z	-1.964	4
18	MP1C	Mx	-.001	4
19	MP2A	X	-4.407	.5
20	MP2A	Z	-7.633	.5
21	MP2A	Mx	-.004	.5
22	MP2A	X	-4.407	6.5
23	MP2A	Z	-7.633	6.5
24	MP2A	Mx	-.004	6.5
25	MP2B	X	-3.745	.5
26	MP2B	Z	-6.487	.5
27	MP2B	Mx	.006	.5
28	MP2B	X	-3.745	6.5
29	MP2B	Z	-6.487	6.5
30	MP2B	Mx	.006	6.5
31	MP2C	X	-3.083	.5
32	MP2C	Z	-5.34	.5
33	MP2C	Mx	-.002	.5
34	MP2C	X	-3.083	6.5
35	MP2C	Z	-5.34	6.5
36	MP2C	Mx	-.002	6.5
37	MP2A	X	-4.407	.5
38	MP2A	Z	-7.633	.5
39	MP2A	Mx	.006	.5
40	MP2A	X	-4.407	6.5
41	MP2A	Z	-7.633	6.5
42	MP2A	Mx	.006	6.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
43	MP2B	X	-3.745	.5
44	MP2B	Z	-6.487	.5
45	MP2B	Mx	-.000662	.5
46	MP2B	X	-3.745	6.5
47	MP2B	Z	-6.487	6.5
48	MP2B	Mx	-.000662	6.5
49	MP2C	X	-3.083	.5
50	MP2C	Z	-5.34	.5
51	MP2C	Mx	-.004	.5
52	MP2C	X	-3.083	6.5
53	MP2C	Z	-5.34	6.5
54	MP2C	Mx	-.004	6.5
55	MP4A	X	-1.958	1
56	MP4A	Z	-3.391	1
57	MP4A	Mx	.000507	1
58	MP4A	X	-1.958	5
59	MP4A	Z	-3.391	5
60	MP4A	Mx	.000507	5
61	MP4B	X	-1.773	1
62	MP4B	Z	-3.07	1
63	MP4B	Mx	.001	1
64	MP4B	X	-1.773	5
65	MP4B	Z	-3.07	5
66	MP4B	Mx	.001	5
67	MP4C	X	-1.587	1
68	MP4C	Z	-2.749	1
69	MP4C	Mx	-.002	1
70	MP4C	X	-1.587	5
71	MP4C	Z	-2.749	5
72	MP4C	Mx	-.002	5
73	MP2A	X	-2.041	2.5
74	MP2A	Z	-3.535	2.5
75	MP2A	Mx	.000528	2.5
76	MP2B	X	-2.041	2.5
77	MP2B	Z	-3.535	2.5
78	MP2B	Mx	.000528	2.5
79	MP2C	X	-2.041	2.5
80	MP2C	Z	-3.535	2.5
81	MP2C	Mx	.000528	2.5
82	MP3A	X	-2.023	4
83	MP3A	Z	-3.504	4
84	MP3A	Mx	.000524	4
85	MP3B	X	-2.023	4
86	MP3B	Z	-3.504	4
87	MP3B	Mx	.000524	4
88	MP3C	X	-2.023	2.5
89	MP3C	Z	-3.504	2.5
90	MP3C	Mx	.000524	2.5
91	MP3A	X	-4.134	1.5
92	MP3A	Z	-7.161	1.5
93	MP3A	Mx	-.001	1.5
94	MP3B	X	-4.134	1.5
95	MP3B	Z	-7.161	1.5
96	MP3B	Mx	-.001	1.5

### Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
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### Member Point Loads (BLC 77 : Lm1) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M1	Y	-500	%91

### Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M1	Y	-500	%53

### Member Point Loads (BLC 79 : Lv1)

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

### Member Point Loads (BLC 80 : Lv2)

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

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

	Member Label	Direction	Start Magnitude[lb/ft, ...]	End Magnitude[lb/ft, F, ...]	Start Location[ft, %]	End Location[ft, %]
1	M1	Y	-12.966	-12.966	0	%100
2	M2	Y	-12.966	-12.966	0	%100
3	M3	Y	-12.966	-12.966	0	%100
4	M4	Y	-18.053	-18.053	0	%100
5	M5	Y	-18.053	-18.053	0	%100
6	M6	Y	-18.053	-18.053	0	%100
7	M7	Y	-12.966	-12.966	0	%100
8	M8	Y	-12.966	-12.966	0	%100
9	M9	Y	-12.966	-12.966	0	%100
10	M10	Y	-16.758	-16.758	0	%100
11	M11	Y	-16.758	-16.758	0	%100
12	M12	Y	-16.758	-16.758	0	%100
13	MP1A	Y	-8.936	-8.936	0	%100
14	MP2A	Y	-10.015	-10.015	0	%100
15	MP3A	Y	-8.936	-8.936	0	%100
16	MP4A	Y	-8.936	-8.936	0	%100
17	MP1B	Y	-8.936	-8.936	0	%100
18	MP2B	Y	-10.015	-10.015	0	%100
19	MP3B	Y	-8.936	-8.936	0	%100
20	MP4B	Y	-8.936	-8.936	0	%100
21	MP1C	Y	-8.936	-8.936	0	%100
22	MP2C	Y	-10.015	-10.015	0	%100
23	MP3C	Y	-8.936	-8.936	0	%100
24	MP4C	Y	-8.936	-8.936	0	%100
25	M25	Y	-8.936	-8.936	0	%100
26	M26	Y	-8.936	-8.936	0	%100
27	M27	Y	-8.936	-8.936	0	%100
28	M28	Y	-12.966	-12.966	0	%100
29	M29	Y	-12.966	-12.966	0	%100
30	M30	Y	-12.966	-12.966	0	%100
31	M67	Y	-8.936	-8.936	0	%100
32	M68	Y	-8.936	-8.936	0	%100
33	M69	Y	-8.936	-8.936	0	%100
34	M91	Y	-11.44	-11.44	0	%100
35	M92	Y	-11.44	-11.44	0	%100
36	M93	Y	-11.44	-11.44	0	%100
37	M94	Y	-11.44	-11.44	0	%100
38	M95	Y	-11.44	-11.44	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
39	M96	Y	-11.44	-11.44	0	%100
40	M88	Y	-12.966	-12.966	0	%100
41	M89	Y	-12.966	-12.966	0	%100
42	M90	Y	-12.966	-12.966	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	-17.561	-17.561	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-4.39	-4.39	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-4.39	-4.39	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	-16.759	-16.759	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	-16.759	-16.759	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	-17.561	-17.561	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	-4.39	-4.39	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	-4.39	-4.39	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	-11.195	-11.195	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	-11.195	-11.195	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	0	0	0	%100
25	MP1A	X	0	0	0	%100
26	MP1A	Z	-8.342	-8.342	0	%100
27	MP2A	X	0	0	0	%100
28	MP2A	Z	-10.098	-10.098	0	%100
29	MP3A	X	0	0	0	%100
30	MP3A	Z	-8.342	-8.342	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	-8.342	-8.342	0	%100
33	MP1B	X	0	0	0	%100
34	MP1B	Z	-8.342	-8.342	0	%100
35	MP2B	X	0	0	0	%100
36	MP2B	Z	-10.098	-10.098	0	%100
37	MP3B	X	0	0	0	%100
38	MP3B	Z	-8.342	-8.342	0	%100
39	MP4B	X	0	0	0	%100
40	MP4B	Z	-8.342	-8.342	0	%100
41	MP1C	X	0	0	0	%100
42	MP1C	Z	-8.342	-8.342	0	%100
43	MP2C	X	0	0	0	%100
44	MP2C	Z	-10.098	-10.098	0	%100
45	MP3C	X	0	0	0	%100
46	MP3C	Z	-8.342	-8.342	0	%100
47	MP4C	X	0	0	0	%100
48	MP4C	Z	-8.342	-8.342	0	%100
49	M25	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
50	M25	Z	-8.342	-8.342	0	%100
51	M26	X	0	0	0	%100
52	M26	Z	-2.085	-2.085	0	%100
53	M27	X	0	0	0	%100
54	M27	Z	-2.085	-2.085	0	%100
55	M28	X	0	0	0	%100
56	M28	Z	-2.807	-2.807	0	%100
57	M29	X	0	0	0	%100
58	M29	Z	-11.227	-11.227	0	%100
59	M30	X	0	0	0	%100
60	M30	Z	-2.807	-2.807	0	%100
61	M67	X	0	0	0	%100
62	M67	Z	-8.342	-8.342	0	%100
63	M68	X	0	0	0	%100
64	M68	Z	-2.085	-2.085	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	-2.085	-2.085	0	%100
67	M91	X	0	0	0	%100
68	M91	Z	-9.501	-9.501	0	%100
69	M92	X	0	0	0	%100
70	M92	Z	-9.501	-9.501	0	%100
71	M93	X	0	0	0	%100
72	M93	Z	-12.849	-12.849	0	%100
73	M94	X	0	0	0	%100
74	M94	Z	-2.659	-2.659	0	%100
75	M95	X	0	0	0	%100
76	M95	Z	-2.659	-2.659	0	%100
77	M96	X	0	0	0	%100
78	M96	Z	-12.849	-12.849	0	%100
79	M88	X	0	0	0	%100
80	M88	Z	-2.807	-2.807	0	%100
81	M89	X	0	0	0	%100
82	M89	Z	-11.227	-11.227	0	%100
83	M90	X	0	0	0	%100
84	M90	Z	-2.807	-2.807	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	6.586	6.586	0	%100
2	M1	Z	-11.406	-11.406	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	6.586	6.586	0	%100
6	M3	Z	-11.406	-11.406	0	%100
7	M4	X	2.793	2.793	0	%100
8	M4	Z	-4.838	-4.838	0	%100
9	M5	X	11.173	11.173	0	%100
10	M5	Z	-19.351	-19.351	0	%100
11	M6	X	2.793	2.793	0	%100
12	M6	Z	-4.838	-4.838	0	%100
13	M7	X	6.586	6.586	0	%100
14	M7	Z	-11.406	-11.406	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	6.586	6.586	0	%100
18	M9	Z	-11.406	-11.406	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F....	Start Location[ft.%]	End Location[ft.%]
19	M10	X	7.464	7.464	0	%100
20	M10	Z	-12.927	-12.927	0	%100
21	M11	X	1.866	1.866	0	%100
22	M11	Z	-3.232	-3.232	0	%100
23	M12	X	1.866	1.866	0	%100
24	M12	Z	-3.232	-3.232	0	%100
25	MP1A	X	4.171	4.171	0	%100
26	MP1A	Z	-7.224	-7.224	0	%100
27	MP2A	X	5.049	5.049	0	%100
28	MP2A	Z	-8.745	-8.745	0	%100
29	MP3A	X	4.171	4.171	0	%100
30	MP3A	Z	-7.224	-7.224	0	%100
31	MP4A	X	4.171	4.171	0	%100
32	MP4A	Z	-7.224	-7.224	0	%100
33	MP1B	X	4.171	4.171	0	%100
34	MP1B	Z	-7.224	-7.224	0	%100
35	MP2B	X	5.049	5.049	0	%100
36	MP2B	Z	-8.745	-8.745	0	%100
37	MP3B	X	4.171	4.171	0	%100
38	MP3B	Z	-7.224	-7.224	0	%100
39	MP4B	X	4.171	4.171	0	%100
40	MP4B	Z	-7.224	-7.224	0	%100
41	MP1C	X	4.171	4.171	0	%100
42	MP1C	Z	-7.224	-7.224	0	%100
43	MP2C	X	5.049	5.049	0	%100
44	MP2C	Z	-8.745	-8.745	0	%100
45	MP3C	X	4.171	4.171	0	%100
46	MP3C	Z	-7.224	-7.224	0	%100
47	MP4C	X	4.171	4.171	0	%100
48	MP4C	Z	-7.224	-7.224	0	%100
49	M25	X	3.128	3.128	0	%100
50	M25	Z	-5.418	-5.418	0	%100
51	M26	X	0	0	0	%100
52	M26	Z	0	0	0	%100
53	M27	X	3.128	3.128	0	%100
54	M27	Z	-5.418	-5.418	0	%100
55	M28	X	4.21	4.21	0	%100
56	M28	Z	-7.292	-7.292	0	%100
57	M29	X	4.21	4.21	0	%100
58	M29	Z	-7.292	-7.292	0	%100
59	M30	X	0	0	0	%100
60	M30	Z	0	0	0	%100
61	M67	X	3.128	3.128	0	%100
62	M67	Z	-5.418	-5.418	0	%100
63	M68	X	0	0	0	%100
64	M68	Z	0	0	0	%100
65	M69	X	3.128	3.128	0	%100
66	M69	Z	-5.418	-5.418	0	%100
67	M91	X	1.912	1.912	0	%100
68	M91	Z	-3.311	-3.311	0	%100
69	M92	X	7.007	7.007	0	%100
70	M92	Z	-12.136	-12.136	0	%100
71	M93	X	3.586	3.586	0	%100
72	M93	Z	-6.211	-6.211	0	%100
73	M94	X	3.586	3.586	0	%100
74	M94	Z	-6.211	-6.211	0	%100
75	M95	X	1.912	1.912	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
76	M95	Z	-3.311	-3.311	0	%100
77	M96	X	7.007	7.007	0	%100
78	M96	Z	-12.136	-12.136	0	%100
79	M88	X	4.21	4.21	0	%100
80	M88	Z	-7.292	-7.292	0	%100
81	M89	X	4.21	4.21	0	%100
82	M89	Z	-7.292	-7.292	0	%100
83	M90	X	0	0	0	%100
84	M90	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	3.802	3.802	0	%100
2	M1	Z	-2.195	-2.195	0	%100
3	M2	X	3.802	3.802	0	%100
4	M2	Z	-2.195	-2.195	0	%100
5	M3	X	15.209	15.209	0	%100
6	M3	Z	-8.781	-8.781	0	%100
7	M4	X	14.514	14.514	0	%100
8	M4	Z	-8.379	-8.379	0	%100
9	M5	X	14.514	14.514	0	%100
10	M5	Z	-8.379	-8.379	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	3.802	3.802	0	%100
14	M7	Z	-2.195	-2.195	0	%100
15	M8	X	3.802	3.802	0	%100
16	M8	Z	-2.195	-2.195	0	%100
17	M9	X	15.209	15.209	0	%100
18	M9	Z	-8.781	-8.781	0	%100
19	M10	X	9.696	9.696	0	%100
20	M10	Z	-5.598	-5.598	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	9.696	9.696	0	%100
24	M12	Z	-5.598	-5.598	0	%100
25	MP1A	X	7.224	7.224	0	%100
26	MP1A	Z	-4.171	-4.171	0	%100
27	MP2A	X	8.745	8.745	0	%100
28	MP2A	Z	-5.049	-5.049	0	%100
29	MP3A	X	7.224	7.224	0	%100
30	MP3A	Z	-4.171	-4.171	0	%100
31	MP4A	X	7.224	7.224	0	%100
32	MP4A	Z	-4.171	-4.171	0	%100
33	MP1B	X	7.224	7.224	0	%100
34	MP1B	Z	-4.171	-4.171	0	%100
35	MP2B	X	8.745	8.745	0	%100
36	MP2B	Z	-5.049	-5.049	0	%100
37	MP3B	X	7.224	7.224	0	%100
38	MP3B	Z	-4.171	-4.171	0	%100
39	MP4B	X	7.224	7.224	0	%100
40	MP4B	Z	-4.171	-4.171	0	%100
41	MP1C	X	7.224	7.224	0	%100
42	MP1C	Z	-4.171	-4.171	0	%100
43	MP2C	X	8.745	8.745	0	%100
44	MP2C	Z	-5.049	-5.049	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
45	MP3C	X	7.224	7.224	0	%100
46	MP3C	Z	-4.171	-4.171	0	%100
47	MP4C	X	7.224	7.224	0	%100
48	MP4C	Z	-4.171	-4.171	0	%100
49	M25	X	1.806	1.806	0	%100
50	M25	Z	-1.043	-1.043	0	%100
51	M26	X	1.806	1.806	0	%100
52	M26	Z	-1.043	-1.043	0	%100
53	M27	X	7.224	7.224	0	%100
54	M27	Z	-4.171	-4.171	0	%100
55	M28	X	9.723	9.723	0	%100
56	M28	Z	-5.613	-5.613	0	%100
57	M29	X	2.431	2.431	0	%100
58	M29	Z	-1.403	-1.403	0	%100
59	M30	X	2.431	2.431	0	%100
60	M30	Z	-1.403	-1.403	0	%100
61	M67	X	1.806	1.806	0	%100
62	M67	Z	-1.043	-1.043	0	%100
63	M68	X	1.806	1.806	0	%100
64	M68	Z	-1.043	-1.043	0	%100
65	M69	X	7.224	7.224	0	%100
66	M69	Z	-4.171	-4.171	0	%100
67	M91	X	2.303	2.303	0	%100
68	M91	Z	-1.329	-1.329	0	%100
69	M92	X	11.127	11.127	0	%100
70	M92	Z	-6.424	-6.424	0	%100
71	M93	X	2.303	2.303	0	%100
72	M93	Z	-1.329	-1.329	0	%100
73	M94	X	11.127	11.127	0	%100
74	M94	Z	-6.424	-6.424	0	%100
75	M95	X	8.228	8.228	0	%100
76	M95	Z	-4.75	-4.75	0	%100
77	M96	X	8.228	8.228	0	%100
78	M96	Z	-4.75	-4.75	0	%100
79	M88	X	9.723	9.723	0	%100
80	M88	Z	-5.613	-5.613	0	%100
81	M89	X	2.431	2.431	0	%100
82	M89	Z	-1.403	-1.403	0	%100
83	M90	X	2.431	2.431	0	%100
84	M90	Z	-1.403	-1.403	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	13.171	13.171	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	13.171	13.171	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	22.345	22.345	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	5.586	5.586	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	5.586	5.586	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F....]	Start Location[ft.%]	End Location[ft.%]
14	M7	Z	0	0	0	%100
15	M8	X	13.171	13.171	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	13.171	13.171	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	3.732	3.732	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	3.732	3.732	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	14.927	14.927	0	%100
24	M12	Z	0	0	0	%100
25	MP1A	X	8.342	8.342	0	%100
26	MP1A	Z	0	0	0	%100
27	MP2A	X	10.098	10.098	0	%100
28	MP2A	Z	0	0	0	%100
29	MP3A	X	8.342	8.342	0	%100
30	MP3A	Z	0	0	0	%100
31	MP4A	X	8.342	8.342	0	%100
32	MP4A	Z	0	0	0	%100
33	MP1B	X	8.342	8.342	0	%100
34	MP1B	Z	0	0	0	%100
35	MP2B	X	10.098	10.098	0	%100
36	MP2B	Z	0	0	0	%100
37	MP3B	X	8.342	8.342	0	%100
38	MP3B	Z	0	0	0	%100
39	MP4B	X	8.342	8.342	0	%100
40	MP4B	Z	0	0	0	%100
41	MP1C	X	8.342	8.342	0	%100
42	MP1C	Z	0	0	0	%100
43	MP2C	X	10.098	10.098	0	%100
44	MP2C	Z	0	0	0	%100
45	MP3C	X	8.342	8.342	0	%100
46	MP3C	Z	0	0	0	%100
47	MP4C	X	8.342	8.342	0	%100
48	MP4C	Z	0	0	0	%100
49	M25	X	0	0	0	%100
50	M25	Z	0	0	0	%100
51	M26	X	6.256	6.256	0	%100
52	M26	Z	0	0	0	%100
53	M27	X	6.256	6.256	0	%100
54	M27	Z	0	0	0	%100
55	M28	X	8.42	8.42	0	%100
56	M28	Z	0	0	0	%100
57	M29	X	0	0	0	%100
58	M29	Z	0	0	0	%100
59	M30	X	8.42	8.42	0	%100
60	M30	Z	0	0	0	%100
61	M67	X	0	0	0	%100
62	M67	Z	0	0	0	%100
63	M68	X	6.256	6.256	0	%100
64	M68	Z	0	0	0	%100
65	M69	X	6.256	6.256	0	%100
66	M69	Z	0	0	0	%100
67	M91	X	7.171	7.171	0	%100
68	M91	Z	0	0	0	%100
69	M92	X	7.171	7.171	0	%100
70	M92	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
71	M93	X	3.823	3.823	0	%100
72	M93	Z	0	0	0	%100
73	M94	X	14.014	14.014	0	%100
74	M94	Z	0	0	0	%100
75	M95	X	14.014	14.014	0	%100
76	M95	Z	0	0	0	%100
77	M96	X	3.823	3.823	0	%100
78	M96	Z	0	0	0	%100
79	M88	X	8.42	8.42	0	%100
80	M88	Z	0	0	0	%100
81	M89	X	0	0	0	%100
82	M89	Z	0	0	0	%100
83	M90	X	8.42	8.42	0	%100
84	M90	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	3.802	3.802	0	%100
2	M1	Z	2.195	2.195	0	%100
3	M2	X	15.209	15.209	0	%100
4	M2	Z	8.781	8.781	0	%100
5	M3	X	3.802	3.802	0	%100
6	M3	Z	2.195	2.195	0	%100
7	M4	X	14.514	14.514	0	%100
8	M4	Z	8.379	8.379	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	14.514	14.514	0	%100
12	M6	Z	8.379	8.379	0	%100
13	M7	X	3.802	3.802	0	%100
14	M7	Z	2.195	2.195	0	%100
15	M8	X	15.209	15.209	0	%100
16	M8	Z	8.781	8.781	0	%100
17	M9	X	3.802	3.802	0	%100
18	M9	Z	2.195	2.195	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	9.696	9.696	0	%100
22	M11	Z	5.598	5.598	0	%100
23	M12	X	9.696	9.696	0	%100
24	M12	Z	5.598	5.598	0	%100
25	MP1A	X	7.224	7.224	0	%100
26	MP1A	Z	4.171	4.171	0	%100
27	MP2A	X	8.745	8.745	0	%100
28	MP2A	Z	5.049	5.049	0	%100
29	MP3A	X	7.224	7.224	0	%100
30	MP3A	Z	4.171	4.171	0	%100
31	MP4A	X	7.224	7.224	0	%100
32	MP4A	Z	4.171	4.171	0	%100
33	MP1B	X	7.224	7.224	0	%100
34	MP1B	Z	4.171	4.171	0	%100
35	MP2B	X	8.745	8.745	0	%100
36	MP2B	Z	5.049	5.049	0	%100
37	MP3B	X	7.224	7.224	0	%100
38	MP3B	Z	4.171	4.171	0	%100
39	MP4B	X	7.224	7.224	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
40	MP4B	Z	4.171	4.171	0	%100
41	MP1C	X	7.224	7.224	0	%100
42	MP1C	Z	4.171	4.171	0	%100
43	MP2C	X	8.745	8.745	0	%100
44	MP2C	Z	5.049	5.049	0	%100
45	MP3C	X	7.224	7.224	0	%100
46	MP3C	Z	4.171	4.171	0	%100
47	MP4C	X	7.224	7.224	0	%100
48	MP4C	Z	4.171	4.171	0	%100
49	M25	X	1.806	1.806	0	%100
50	M25	Z	1.043	1.043	0	%100
51	M26	X	7.224	7.224	0	%100
52	M26	Z	4.171	4.171	0	%100
53	M27	X	1.806	1.806	0	%100
54	M27	Z	1.043	1.043	0	%100
55	M28	X	2.431	2.431	0	%100
56	M28	Z	1.403	1.403	0	%100
57	M29	X	2.431	2.431	0	%100
58	M29	Z	1.403	1.403	0	%100
59	M30	X	9.723	9.723	0	%100
60	M30	Z	5.613	5.613	0	%100
61	M67	X	1.806	1.806	0	%100
62	M67	Z	1.043	1.043	0	%100
63	M68	X	7.224	7.224	0	%100
64	M68	Z	4.171	4.171	0	%100
65	M69	X	1.806	1.806	0	%100
66	M69	Z	1.043	1.043	0	%100
67	M91	X	11.127	11.127	0	%100
68	M91	Z	6.424	6.424	0	%100
69	M92	X	2.303	2.303	0	%100
70	M92	Z	1.329	1.329	0	%100
71	M93	X	8.228	8.228	0	%100
72	M93	Z	4.75	4.75	0	%100
73	M94	X	8.228	8.228	0	%100
74	M94	Z	4.75	4.75	0	%100
75	M95	X	11.127	11.127	0	%100
76	M95	Z	6.424	6.424	0	%100
77	M96	X	2.303	2.303	0	%100
78	M96	Z	1.329	1.329	0	%100
79	M88	X	2.431	2.431	0	%100
80	M88	Z	1.403	1.403	0	%100
81	M89	X	2.431	2.431	0	%100
82	M89	Z	1.403	1.403	0	%100
83	M90	X	9.723	9.723	0	%100
84	M90	Z	5.613	5.613	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	6.586	6.586	0	%100
2	M1	Z	11.406	11.406	0	%100
3	M2	X	6.586	6.586	0	%100
4	M2	Z	11.406	11.406	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	2.793	2.793	0	%100
8	M4	Z	4.838	4.838	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft, F, ...]	End Magnitude[lb/ft, F, ...]	Start Location[ft, %]	End Location[ft, %]
9	M5	X	2.793	2.793	0	%100
10	M5	Z	4.838	4.838	0	%100
11	M6	X	11.173	11.173	0	%100
12	M6	Z	19.351	19.351	0	%100
13	M7	X	6.586	6.586	0	%100
14	M7	Z	11.406	11.406	0	%100
15	M8	X	6.586	6.586	0	%100
16	M8	Z	11.406	11.406	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	1.866	1.866	0	%100
20	M10	Z	3.232	3.232	0	%100
21	M11	X	7.464	7.464	0	%100
22	M11	Z	12.927	12.927	0	%100
23	M12	X	1.866	1.866	0	%100
24	M12	Z	3.232	3.232	0	%100
25	MP1A	X	4.171	4.171	0	%100
26	MP1A	Z	7.224	7.224	0	%100
27	MP2A	X	5.049	5.049	0	%100
28	MP2A	Z	8.745	8.745	0	%100
29	MP3A	X	4.171	4.171	0	%100
30	MP3A	Z	7.224	7.224	0	%100
31	MP4A	X	4.171	4.171	0	%100
32	MP4A	Z	7.224	7.224	0	%100
33	MP1B	X	4.171	4.171	0	%100
34	MP1B	Z	7.224	7.224	0	%100
35	MP2B	X	5.049	5.049	0	%100
36	MP2B	Z	8.745	8.745	0	%100
37	MP3B	X	4.171	4.171	0	%100
38	MP3B	Z	7.224	7.224	0	%100
39	MP4B	X	4.171	4.171	0	%100
40	MP4B	Z	7.224	7.224	0	%100
41	MP1C	X	4.171	4.171	0	%100
42	MP1C	Z	7.224	7.224	0	%100
43	MP2C	X	5.049	5.049	0	%100
44	MP2C	Z	8.745	8.745	0	%100
45	MP3C	X	4.171	4.171	0	%100
46	MP3C	Z	7.224	7.224	0	%100
47	MP4C	X	4.171	4.171	0	%100
48	MP4C	Z	7.224	7.224	0	%100
49	M25	X	3.128	3.128	0	%100
50	M25	Z	5.418	5.418	0	%100
51	M26	X	3.128	3.128	0	%100
52	M26	Z	5.418	5.418	0	%100
53	M27	X	0	0	0	%100
54	M27	Z	0	0	0	%100
55	M28	X	0	0	0	%100
56	M28	Z	0	0	0	%100
57	M29	X	4.21	4.21	0	%100
58	M29	Z	7.292	7.292	0	%100
59	M30	X	4.21	4.21	0	%100
60	M30	Z	7.292	7.292	0	%100
61	M67	X	3.128	3.128	0	%100
62	M67	Z	5.418	5.418	0	%100
63	M68	X	3.128	3.128	0	%100
64	M68	Z	5.418	5.418	0	%100
65	M69	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
66	M69	Z	0	0	0	%100
67	M91	X	7.007	7.007	0	%100
68	M91	Z	12.136	12.136	0	%100
69	M92	X	1.912	1.912	0	%100
70	M92	Z	3.311	3.311	0	%100
71	M93	X	7.007	7.007	0	%100
72	M93	Z	12.136	12.136	0	%100
73	M94	X	1.912	1.912	0	%100
74	M94	Z	3.311	3.311	0	%100
75	M95	X	3.586	3.586	0	%100
76	M95	Z	6.211	6.211	0	%100
77	M96	X	3.586	3.586	0	%100
78	M96	Z	6.211	6.211	0	%100
79	M88	X	0	0	0	%100
80	M88	Z	0	0	0	%100
81	M89	X	4.21	4.21	0	%100
82	M89	Z	7.292	7.292	0	%100
83	M90	X	4.21	4.21	0	%100
84	M90	Z	7.292	7.292	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	0	0	0	%100
2	M1	Z	17.561	17.561	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	4.39	4.39	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	4.39	4.39	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	16.759	16.759	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	16.759	16.759	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	17.561	17.561	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	4.39	4.39	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	4.39	4.39	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	11.195	11.195	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	11.195	11.195	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	0	0	0	%100
25	MP1A	X	0	0	0	%100
26	MP1A	Z	8.342	8.342	0	%100
27	MP2A	X	0	0	0	%100
28	MP2A	Z	10.098	10.098	0	%100
29	MP3A	X	0	0	0	%100
30	MP3A	Z	8.342	8.342	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	8.342	8.342	0	%100
33	MP1B	X	0	0	0	%100
34	MP1B	Z	8.342	8.342	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
35	MP2B	X	0	0	0	%100
36	MP2B	Z	10.098	10.098	0	%100
37	MP3B	X	0	0	0	%100
38	MP3B	Z	8.342	8.342	0	%100
39	MP4B	X	0	0	0	%100
40	MP4B	Z	8.342	8.342	0	%100
41	MP1C	X	0	0	0	%100
42	MP1C	Z	8.342	8.342	0	%100
43	MP2C	X	0	0	0	%100
44	MP2C	Z	10.098	10.098	0	%100
45	MP3C	X	0	0	0	%100
46	MP3C	Z	8.342	8.342	0	%100
47	MP4C	X	0	0	0	%100
48	MP4C	Z	8.342	8.342	0	%100
49	M25	X	0	0	0	%100
50	M25	Z	8.342	8.342	0	%100
51	M26	X	0	0	0	%100
52	M26	Z	2.085	2.085	0	%100
53	M27	X	0	0	0	%100
54	M27	Z	2.085	2.085	0	%100
55	M28	X	0	0	0	%100
56	M28	Z	2.807	2.807	0	%100
57	M29	X	0	0	0	%100
58	M29	Z	11.227	11.227	0	%100
59	M30	X	0	0	0	%100
60	M30	Z	2.807	2.807	0	%100
61	M67	X	0	0	0	%100
62	M67	Z	8.342	8.342	0	%100
63	M68	X	0	0	0	%100
64	M68	Z	2.085	2.085	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	2.085	2.085	0	%100
67	M91	X	0	0	0	%100
68	M91	Z	9.501	9.501	0	%100
69	M92	X	0	0	0	%100
70	M92	Z	9.501	9.501	0	%100
71	M93	X	0	0	0	%100
72	M93	Z	12.849	12.849	0	%100
73	M94	X	0	0	0	%100
74	M94	Z	2.659	2.659	0	%100
75	M95	X	0	0	0	%100
76	M95	Z	2.659	2.659	0	%100
77	M96	X	0	0	0	%100
78	M96	Z	12.849	12.849	0	%100
79	M88	X	0	0	0	%100
80	M88	Z	2.807	2.807	0	%100
81	M89	X	0	0	0	%100
82	M89	Z	11.227	11.227	0	%100
83	M90	X	0	0	0	%100
84	M90	Z	2.807	2.807	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-6.586	-6.586	0	%100
2	M1	Z	11.406	11.406	0	%100
3	M2	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft,F...]	Start Location[ft.%]	End Location[ft.%]
4	M2	Z	0	0	0	%100
5	M3	X	-6.586	-6.586	0	%100
6	M3	Z	11.406	11.406	0	%100
7	M4	X	-2.793	-2.793	0	%100
8	M4	Z	4.838	4.838	0	%100
9	M5	X	-11.173	-11.173	0	%100
10	M5	Z	19.351	19.351	0	%100
11	M6	X	-2.793	-2.793	0	%100
12	M6	Z	4.838	4.838	0	%100
13	M7	X	-6.586	-6.586	0	%100
14	M7	Z	11.406	11.406	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	-6.586	-6.586	0	%100
18	M9	Z	11.406	11.406	0	%100
19	M10	X	-7.464	-7.464	0	%100
20	M10	Z	12.927	12.927	0	%100
21	M11	X	-1.866	-1.866	0	%100
22	M11	Z	3.232	3.232	0	%100
23	M12	X	-1.866	-1.866	0	%100
24	M12	Z	3.232	3.232	0	%100
25	MP1A	X	-4.171	-4.171	0	%100
26	MP1A	Z	7.224	7.224	0	%100
27	MP2A	X	-5.049	-5.049	0	%100
28	MP2A	Z	8.745	8.745	0	%100
29	MP3A	X	-4.171	-4.171	0	%100
30	MP3A	Z	7.224	7.224	0	%100
31	MP4A	X	-4.171	-4.171	0	%100
32	MP4A	Z	7.224	7.224	0	%100
33	MP1B	X	-4.171	-4.171	0	%100
34	MP1B	Z	7.224	7.224	0	%100
35	MP2B	X	-5.049	-5.049	0	%100
36	MP2B	Z	8.745	8.745	0	%100
37	MP3B	X	-4.171	-4.171	0	%100
38	MP3B	Z	7.224	7.224	0	%100
39	MP4B	X	-4.171	-4.171	0	%100
40	MP4B	Z	7.224	7.224	0	%100
41	MP1C	X	-4.171	-4.171	0	%100
42	MP1C	Z	7.224	7.224	0	%100
43	MP2C	X	-5.049	-5.049	0	%100
44	MP2C	Z	8.745	8.745	0	%100
45	MP3C	X	-4.171	-4.171	0	%100
46	MP3C	Z	7.224	7.224	0	%100
47	MP4C	X	-4.171	-4.171	0	%100
48	MP4C	Z	7.224	7.224	0	%100
49	M25	X	-3.128	-3.128	0	%100
50	M25	Z	5.418	5.418	0	%100
51	M26	X	0	0	0	%100
52	M26	Z	0	0	0	%100
53	M27	X	-3.128	-3.128	0	%100
54	M27	Z	5.418	5.418	0	%100
55	M28	X	-4.21	-4.21	0	%100
56	M28	Z	7.292	7.292	0	%100
57	M29	X	-4.21	-4.21	0	%100
58	M29	Z	7.292	7.292	0	%100
59	M30	X	0	0	0	%100
60	M30	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
61	M67	X	-3.128	-3.128	0	%100
62	M67	Z	5.418	5.418	0	%100
63	M68	X	0	0	0	%100
64	M68	Z	0	0	0	%100
65	M69	X	-3.128	-3.128	0	%100
66	M69	Z	5.418	5.418	0	%100
67	M91	X	-1.912	-1.912	0	%100
68	M91	Z	3.311	3.311	0	%100
69	M92	X	-7.007	-7.007	0	%100
70	M92	Z	12.136	12.136	0	%100
71	M93	X	-3.586	-3.586	0	%100
72	M93	Z	6.211	6.211	0	%100
73	M94	X	-3.586	-3.586	0	%100
74	M94	Z	6.211	6.211	0	%100
75	M95	X	-1.912	-1.912	0	%100
76	M95	Z	3.311	3.311	0	%100
77	M96	X	-7.007	-7.007	0	%100
78	M96	Z	12.136	12.136	0	%100
79	M88	X	-4.21	-4.21	0	%100
80	M88	Z	7.292	7.292	0	%100
81	M89	X	-4.21	-4.21	0	%100
82	M89	Z	7.292	7.292	0	%100
83	M90	X	0	0	0	%100
84	M90	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-3.802	-3.802	0	%100
2	M1	Z	2.195	2.195	0	%100
3	M2	X	-3.802	-3.802	0	%100
4	M2	Z	2.195	2.195	0	%100
5	M3	X	-15.209	-15.209	0	%100
6	M3	Z	8.781	8.781	0	%100
7	M4	X	-14.514	-14.514	0	%100
8	M4	Z	8.379	8.379	0	%100
9	M5	X	-14.514	-14.514	0	%100
10	M5	Z	8.379	8.379	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	-3.802	-3.802	0	%100
14	M7	Z	2.195	2.195	0	%100
15	M8	X	-3.802	-3.802	0	%100
16	M8	Z	2.195	2.195	0	%100
17	M9	X	-15.209	-15.209	0	%100
18	M9	Z	8.781	8.781	0	%100
19	M10	X	-9.696	-9.696	0	%100
20	M10	Z	5.598	5.598	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	-9.696	-9.696	0	%100
24	M12	Z	5.598	5.598	0	%100
25	MP1A	X	-7.224	-7.224	0	%100
26	MP1A	Z	4.171	4.171	0	%100
27	MP2A	X	-8.745	-8.745	0	%100
28	MP2A	Z	5.049	5.049	0	%100
29	MP3A	X	-7.224	-7.224	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft,F....]	Start Location[ft, %]	End Location[ft, %]
30	MP3A	Z	4.171	4.171	0	%100
31	MP4A	X	-7.224	-7.224	0	%100
32	MP4A	Z	4.171	4.171	0	%100
33	MP1B	X	-7.224	-7.224	0	%100
34	MP1B	Z	4.171	4.171	0	%100
35	MP2B	X	-8.745	-8.745	0	%100
36	MP2B	Z	5.049	5.049	0	%100
37	MP3B	X	-7.224	-7.224	0	%100
38	MP3B	Z	4.171	4.171	0	%100
39	MP4B	X	-7.224	-7.224	0	%100
40	MP4B	Z	4.171	4.171	0	%100
41	MP1C	X	-7.224	-7.224	0	%100
42	MP1C	Z	4.171	4.171	0	%100
43	MP2C	X	-8.745	-8.745	0	%100
44	MP2C	Z	5.049	5.049	0	%100
45	MP3C	X	-7.224	-7.224	0	%100
46	MP3C	Z	4.171	4.171	0	%100
47	MP4C	X	-7.224	-7.224	0	%100
48	MP4C	Z	4.171	4.171	0	%100
49	M25	X	-1.806	-1.806	0	%100
50	M25	Z	1.043	1.043	0	%100
51	M26	X	-1.806	-1.806	0	%100
52	M26	Z	1.043	1.043	0	%100
53	M27	X	-7.224	-7.224	0	%100
54	M27	Z	4.171	4.171	0	%100
55	M28	X	-9.723	-9.723	0	%100
56	M28	Z	5.613	5.613	0	%100
57	M29	X	-2.431	-2.431	0	%100
58	M29	Z	1.403	1.403	0	%100
59	M30	X	-2.431	-2.431	0	%100
60	M30	Z	1.403	1.403	0	%100
61	M67	X	-1.806	-1.806	0	%100
62	M67	Z	1.043	1.043	0	%100
63	M68	X	-1.806	-1.806	0	%100
64	M68	Z	1.043	1.043	0	%100
65	M69	X	-7.224	-7.224	0	%100
66	M69	Z	4.171	4.171	0	%100
67	M91	X	-2.303	-2.303	0	%100
68	M91	Z	1.329	1.329	0	%100
69	M92	X	-11.127	-11.127	0	%100
70	M92	Z	6.424	6.424	0	%100
71	M93	X	-2.303	-2.303	0	%100
72	M93	Z	1.329	1.329	0	%100
73	M94	X	-11.127	-11.127	0	%100
74	M94	Z	6.424	6.424	0	%100
75	M95	X	-8.228	-8.228	0	%100
76	M95	Z	4.75	4.75	0	%100
77	M96	X	-8.228	-8.228	0	%100
78	M96	Z	4.75	4.75	0	%100
79	M88	X	-9.723	-9.723	0	%100
80	M88	Z	5.613	5.613	0	%100
81	M89	X	-2.431	-2.431	0	%100
82	M89	Z	1.403	1.403	0	%100
83	M90	X	-2.431	-2.431	0	%100
84	M90	Z	1.403	1.403	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-13.171	-13.171	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-13.171	-13.171	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	-22.345	-22.345	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	-5.586	-5.586	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	-5.586	-5.586	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	-13.171	-13.171	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	-13.171	-13.171	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	-3.732	-3.732	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	-3.732	-3.732	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	-14.927	-14.927	0	%100
24	M12	Z	0	0	0	%100
25	MP1A	X	-8.342	-8.342	0	%100
26	MP1A	Z	0	0	0	%100
27	MP2A	X	-10.098	-10.098	0	%100
28	MP2A	Z	0	0	0	%100
29	MP3A	X	-8.342	-8.342	0	%100
30	MP3A	Z	0	0	0	%100
31	MP4A	X	-8.342	-8.342	0	%100
32	MP4A	Z	0	0	0	%100
33	MP1B	X	-8.342	-8.342	0	%100
34	MP1B	Z	0	0	0	%100
35	MP2B	X	-10.098	-10.098	0	%100
36	MP2B	Z	0	0	0	%100
37	MP3B	X	-8.342	-8.342	0	%100
38	MP3B	Z	0	0	0	%100
39	MP4B	X	-8.342	-8.342	0	%100
40	MP4B	Z	0	0	0	%100
41	MP1C	X	-8.342	-8.342	0	%100
42	MP1C	Z	0	0	0	%100
43	MP2C	X	-10.098	-10.098	0	%100
44	MP2C	Z	0	0	0	%100
45	MP3C	X	-8.342	-8.342	0	%100
46	MP3C	Z	0	0	0	%100
47	MP4C	X	-8.342	-8.342	0	%100
48	MP4C	Z	0	0	0	%100
49	M25	X	0	0	0	%100
50	M25	Z	0	0	0	%100
51	M26	X	-6.256	-6.256	0	%100
52	M26	Z	0	0	0	%100
53	M27	X	-6.256	-6.256	0	%100
54	M27	Z	0	0	0	%100
55	M28	X	-8.42	-8.42	0	%100
56	M28	Z	0	0	0	%100
57	M29	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
58	M29	Z	0	0	0	%100
59	M30	X	-8.42	-8.42	0	%100
60	M30	Z	0	0	0	%100
61	M67	X	0	0	0	%100
62	M67	Z	0	0	0	%100
63	M68	X	-6.256	-6.256	0	%100
64	M68	Z	0	0	0	%100
65	M69	X	-6.256	-6.256	0	%100
66	M69	Z	0	0	0	%100
67	M91	X	-7.171	-7.171	0	%100
68	M91	Z	0	0	0	%100
69	M92	X	-7.171	-7.171	0	%100
70	M92	Z	0	0	0	%100
71	M93	X	-3.823	-3.823	0	%100
72	M93	Z	0	0	0	%100
73	M94	X	-14.014	-14.014	0	%100
74	M94	Z	0	0	0	%100
75	M95	X	-14.014	-14.014	0	%100
76	M95	Z	0	0	0	%100
77	M96	X	-3.823	-3.823	0	%100
78	M96	Z	0	0	0	%100
79	M88	X	-8.42	-8.42	0	%100
80	M88	Z	0	0	0	%100
81	M89	X	0	0	0	%100
82	M89	Z	0	0	0	%100
83	M90	X	-8.42	-8.42	0	%100
84	M90	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-3.802	-3.802	0	%100
2	M1	Z	-2.195	-2.195	0	%100
3	M2	X	-15.209	-15.209	0	%100
4	M2	Z	-8.781	-8.781	0	%100
5	M3	X	-3.802	-3.802	0	%100
6	M3	Z	-2.195	-2.195	0	%100
7	M4	X	-14.514	-14.514	0	%100
8	M4	Z	-8.379	-8.379	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	-14.514	-14.514	0	%100
12	M6	Z	-8.379	-8.379	0	%100
13	M7	X	-3.802	-3.802	0	%100
14	M7	Z	-2.195	-2.195	0	%100
15	M8	X	-15.209	-15.209	0	%100
16	M8	Z	-8.781	-8.781	0	%100
17	M9	X	-3.802	-3.802	0	%100
18	M9	Z	-2.195	-2.195	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	-9.696	-9.696	0	%100
22	M11	Z	-5.598	-5.598	0	%100
23	M12	X	-9.696	-9.696	0	%100
24	M12	Z	-5.598	-5.598	0	%100
25	MP1A	X	-7.224	-7.224	0	%100
26	MP1A	Z	-4.171	-4.171	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft, F...]	End Magnitude[lb/ft, F...]	Start Location[ft, %]	End Location[ft, %]
27	MP2A	X	-8.745	-8.745	0	%100
28	MP2A	Z	-5.049	-5.049	0	%100
29	MP3A	X	-7.224	-7.224	0	%100
30	MP3A	Z	-4.171	-4.171	0	%100
31	MP4A	X	-7.224	-7.224	0	%100
32	MP4A	Z	-4.171	-4.171	0	%100
33	MP1B	X	-7.224	-7.224	0	%100
34	MP1B	Z	-4.171	-4.171	0	%100
35	MP2B	X	-8.745	-8.745	0	%100
36	MP2B	Z	-5.049	-5.049	0	%100
37	MP3B	X	-7.224	-7.224	0	%100
38	MP3B	Z	-4.171	-4.171	0	%100
39	MP4B	X	-7.224	-7.224	0	%100
40	MP4B	Z	-4.171	-4.171	0	%100
41	MP1C	X	-7.224	-7.224	0	%100
42	MP1C	Z	-4.171	-4.171	0	%100
43	MP2C	X	-8.745	-8.745	0	%100
44	MP2C	Z	-5.049	-5.049	0	%100
45	MP3C	X	-7.224	-7.224	0	%100
46	MP3C	Z	-4.171	-4.171	0	%100
47	MP4C	X	-7.224	-7.224	0	%100
48	MP4C	Z	-4.171	-4.171	0	%100
49	M25	X	-1.806	-1.806	0	%100
50	M25	Z	-1.043	-1.043	0	%100
51	M26	X	-7.224	-7.224	0	%100
52	M26	Z	-4.171	-4.171	0	%100
53	M27	X	-1.806	-1.806	0	%100
54	M27	Z	-1.043	-1.043	0	%100
55	M28	X	-2.431	-2.431	0	%100
56	M28	Z	-1.403	-1.403	0	%100
57	M29	X	-2.431	-2.431	0	%100
58	M29	Z	-1.403	-1.403	0	%100
59	M30	X	-9.723	-9.723	0	%100
60	M30	Z	-5.613	-5.613	0	%100
61	M67	X	-1.806	-1.806	0	%100
62	M67	Z	-1.043	-1.043	0	%100
63	M68	X	-7.224	-7.224	0	%100
64	M68	Z	-4.171	-4.171	0	%100
65	M69	X	-1.806	-1.806	0	%100
66	M69	Z	-1.043	-1.043	0	%100
67	M91	X	-11.127	-11.127	0	%100
68	M91	Z	-6.424	-6.424	0	%100
69	M92	X	-2.303	-2.303	0	%100
70	M92	Z	-1.329	-1.329	0	%100
71	M93	X	-8.228	-8.228	0	%100
72	M93	Z	-4.75	-4.75	0	%100
73	M94	X	-8.228	-8.228	0	%100
74	M94	Z	-4.75	-4.75	0	%100
75	M95	X	-11.127	-11.127	0	%100
76	M95	Z	-6.424	-6.424	0	%100
77	M96	X	-2.303	-2.303	0	%100
78	M96	Z	-1.329	-1.329	0	%100
79	M88	X	-2.431	-2.431	0	%100
80	M88	Z	-1.403	-1.403	0	%100
81	M89	X	-2.431	-2.431	0	%100
82	M89	Z	-1.403	-1.403	0	%100
83	M90	X	-9.723	-9.723	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
84	M90	Z	-5.613	-5.613	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-6.586	-6.586	0	%100
2	M1	Z	-11.406	-11.406	0	%100
3	M2	X	-6.586	-6.586	0	%100
4	M2	Z	-11.406	-11.406	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	-2.793	-2.793	0	%100
8	M4	Z	-4.838	-4.838	0	%100
9	M5	X	-2.793	-2.793	0	%100
10	M5	Z	-4.838	-4.838	0	%100
11	M6	X	-11.173	-11.173	0	%100
12	M6	Z	-19.351	-19.351	0	%100
13	M7	X	-6.586	-6.586	0	%100
14	M7	Z	-11.406	-11.406	0	%100
15	M8	X	-6.586	-6.586	0	%100
16	M8	Z	-11.406	-11.406	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	-1.866	-1.866	0	%100
20	M10	Z	-3.232	-3.232	0	%100
21	M11	X	-7.464	-7.464	0	%100
22	M11	Z	-12.927	-12.927	0	%100
23	M12	X	-1.866	-1.866	0	%100
24	M12	Z	-3.232	-3.232	0	%100
25	MP1A	X	-4.171	-4.171	0	%100
26	MP1A	Z	-7.224	-7.224	0	%100
27	MP2A	X	-5.049	-5.049	0	%100
28	MP2A	Z	-8.745	-8.745	0	%100
29	MP3A	X	-4.171	-4.171	0	%100
30	MP3A	Z	-7.224	-7.224	0	%100
31	MP4A	X	-4.171	-4.171	0	%100
32	MP4A	Z	-7.224	-7.224	0	%100
33	MP1B	X	-4.171	-4.171	0	%100
34	MP1B	Z	-7.224	-7.224	0	%100
35	MP2B	X	-5.049	-5.049	0	%100
36	MP2B	Z	-8.745	-8.745	0	%100
37	MP3B	X	-4.171	-4.171	0	%100
38	MP3B	Z	-7.224	-7.224	0	%100
39	MP4B	X	-4.171	-4.171	0	%100
40	MP4B	Z	-7.224	-7.224	0	%100
41	MP1C	X	-4.171	-4.171	0	%100
42	MP1C	Z	-7.224	-7.224	0	%100
43	MP2C	X	-5.049	-5.049	0	%100
44	MP2C	Z	-8.745	-8.745	0	%100
45	MP3C	X	-4.171	-4.171	0	%100
46	MP3C	Z	-7.224	-7.224	0	%100
47	MP4C	X	-4.171	-4.171	0	%100
48	MP4C	Z	-7.224	-7.224	0	%100
49	M25	X	-3.128	-3.128	0	%100
50	M25	Z	-5.418	-5.418	0	%100
51	M26	X	-3.128	-3.128	0	%100
52	M26	Z	-5.418	-5.418	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
53	M27	X	0	0	0	%100
54	M27	Z	0	0	0	%100
55	M28	X	0	0	0	%100
56	M28	Z	0	0	0	%100
57	M29	X	-4.21	-4.21	0	%100
58	M29	Z	-7.292	-7.292	0	%100
59	M30	X	-4.21	-4.21	0	%100
60	M30	Z	-7.292	-7.292	0	%100
61	M67	X	-3.128	-3.128	0	%100
62	M67	Z	-5.418	-5.418	0	%100
63	M68	X	-3.128	-3.128	0	%100
64	M68	Z	-5.418	-5.418	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	0	0	0	%100
67	M91	X	-7.007	-7.007	0	%100
68	M91	Z	-12.136	-12.136	0	%100
69	M92	X	-1.912	-1.912	0	%100
70	M92	Z	-3.311	-3.311	0	%100
71	M93	X	-7.007	-7.007	0	%100
72	M93	Z	-12.136	-12.136	0	%100
73	M94	X	-1.912	-1.912	0	%100
74	M94	Z	-3.311	-3.311	0	%100
75	M95	X	-3.586	-3.586	0	%100
76	M95	Z	-6.211	-6.211	0	%100
77	M96	X	-3.586	-3.586	0	%100
78	M96	Z	-6.211	-6.211	0	%100
79	M88	X	0	0	0	%100
80	M88	Z	0	0	0	%100
81	M89	X	-4.21	-4.21	0	%100
82	M89	Z	-7.292	-7.292	0	%100
83	M90	X	-4.21	-4.21	0	%100
84	M90	Z	-7.292	-7.292	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	-5.291	-5.291	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-1.323	-1.323	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-1.323	-1.323	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	-4.138	-4.138	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	-4.138	-4.138	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	-5.251	-5.251	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	-1.313	-1.313	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	-1.313	-1.313	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	-3.272	-3.272	0	%100
21	M11	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
22	M11	Z	-3.272	-3.272	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	0	0	0	%100
25	MP1A	X	0	0	0	%100
26	MP1A	Z	-3.613	-3.613	0	%100
27	MP2A	X	0	0	0	%100
28	MP2A	Z	-3.923	-3.923	0	%100
29	MP3A	X	0	0	0	%100
30	MP3A	Z	-3.613	-3.613	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	-3.613	-3.613	0	%100
33	MP1B	X	0	0	0	%100
34	MP1B	Z	-3.613	-3.613	0	%100
35	MP2B	X	0	0	0	%100
36	MP2B	Z	-3.923	-3.923	0	%100
37	MP3B	X	0	0	0	%100
38	MP3B	Z	-3.613	-3.613	0	%100
39	MP4B	X	0	0	0	%100
40	MP4B	Z	-3.613	-3.613	0	%100
41	MP1C	X	0	0	0	%100
42	MP1C	Z	-3.613	-3.613	0	%100
43	MP2C	X	0	0	0	%100
44	MP2C	Z	-3.923	-3.923	0	%100
45	MP3C	X	0	0	0	%100
46	MP3C	Z	-3.613	-3.613	0	%100
47	MP4C	X	0	0	0	%100
48	MP4C	Z	-3.613	-3.613	0	%100
49	M25	X	0	0	0	%100
50	M25	Z	-3.663	-3.663	0	%100
51	M26	X	0	0	0	%100
52	M26	Z	-.916	-.916	0	%100
53	M27	X	0	0	0	%100
54	M27	Z	-.916	-.916	0	%100
55	M28	X	0	0	0	%100
56	M28	Z	-.826	-.826	0	%100
57	M29	X	0	0	0	%100
58	M29	Z	-3.305	-3.305	0	%100
59	M30	X	0	0	0	%100
60	M30	Z	-.826	-.826	0	%100
61	M67	X	0	0	0	%100
62	M67	Z	-3.663	-3.663	0	%100
63	M68	X	0	0	0	%100
64	M68	Z	-.916	-.916	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	-.916	-.916	0	%100
67	M91	X	0	0	0	%100
68	M91	Z	-2.909	-2.909	0	%100
69	M92	X	0	0	0	%100
70	M92	Z	-2.909	-2.909	0	%100
71	M93	X	0	0	0	%100
72	M93	Z	-3.934	-3.934	0	%100
73	M94	X	0	0	0	%100
74	M94	Z	-.814	-.814	0	%100
75	M95	X	0	0	0	%100
76	M95	Z	-.814	-.814	0	%100
77	M96	X	0	0	0	%100
78	M96	Z	-3.934	-3.934	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
79	M88	X	0	0	0	%100
80	M88	Z	-0.826	-0.826	0	%100
81	M89	X	0	0	0	%100
82	M89	Z	-3.305	-3.305	0	%100
83	M90	X	0	0	0	%100
84	M90	Z	-0.826	-0.826	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	1.984	1.984	0	%100
2	M1	Z	-3.436	-3.436	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	1.984	1.984	0	%100
6	M3	Z	-3.436	-3.436	0	%100
7	M4	X	.69	.69	0	%100
8	M4	Z	-1.195	-1.195	0	%100
9	M5	X	2.759	2.759	0	%100
10	M5	Z	-4.778	-4.778	0	%100
11	M6	X	.69	.69	0	%100
12	M6	Z	-1.195	-1.195	0	%100
13	M7	X	1.969	1.969	0	%100
14	M7	Z	-3.411	-3.411	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	1.969	1.969	0	%100
18	M9	Z	-3.411	-3.411	0	%100
19	M10	X	2.181	2.181	0	%100
20	M10	Z	-3.778	-3.778	0	%100
21	M11	X	.545	.545	0	%100
22	M11	Z	-.945	-.945	0	%100
23	M12	X	.545	.545	0	%100
24	M12	Z	-.945	-.945	0	%100
25	MP1A	X	1.807	1.807	0	%100
26	MP1A	Z	-3.129	-3.129	0	%100
27	MP2A	X	1.962	1.962	0	%100
28	MP2A	Z	-3.398	-3.398	0	%100
29	MP3A	X	1.807	1.807	0	%100
30	MP3A	Z	-3.129	-3.129	0	%100
31	MP4A	X	1.807	1.807	0	%100
32	MP4A	Z	-3.129	-3.129	0	%100
33	MP1B	X	1.807	1.807	0	%100
34	MP1B	Z	-3.129	-3.129	0	%100
35	MP2B	X	1.962	1.962	0	%100
36	MP2B	Z	-3.398	-3.398	0	%100
37	MP3B	X	1.807	1.807	0	%100
38	MP3B	Z	-3.129	-3.129	0	%100
39	MP4B	X	1.807	1.807	0	%100
40	MP4B	Z	-3.129	-3.129	0	%100
41	MP1C	X	1.807	1.807	0	%100
42	MP1C	Z	-3.129	-3.129	0	%100
43	MP2C	X	1.962	1.962	0	%100
44	MP2C	Z	-3.398	-3.398	0	%100
45	MP3C	X	1.807	1.807	0	%100
46	MP3C	Z	-3.129	-3.129	0	%100
47	MP4C	X	1.807	1.807	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
48	MP4C	Z	-3.129	-3.129	0	%100
49	M25	X	1.374	1.374	0	%100
50	M25	Z	-2.379	-2.379	0	%100
51	M26	X	0	0	0	%100
52	M26	Z	0	0	0	%100
53	M27	X	1.374	1.374	0	%100
54	M27	Z	-2.379	-2.379	0	%100
55	M28	X	1.239	1.239	0	%100
56	M28	Z	-2.147	-2.147	0	%100
57	M29	X	1.239	1.239	0	%100
58	M29	Z	-2.147	-2.147	0	%100
59	M30	X	0	0	0	%100
60	M30	Z	0	0	0	%100
61	M67	X	1.374	1.374	0	%100
62	M67	Z	-2.379	-2.379	0	%100
63	M68	X	0	0	0	%100
64	M68	Z	0	0	0	%100
65	M69	X	1.374	1.374	0	%100
66	M69	Z	-2.379	-2.379	0	%100
67	M91	X	.585	.585	0	%100
68	M91	Z	-1.014	-1.014	0	%100
69	M92	X	2.145	2.145	0	%100
70	M92	Z	-3.716	-3.716	0	%100
71	M93	X	1.098	1.098	0	%100
72	M93	Z	-1.902	-1.902	0	%100
73	M94	X	1.098	1.098	0	%100
74	M94	Z	-1.902	-1.902	0	%100
75	M95	X	.585	.585	0	%100
76	M95	Z	-1.014	-1.014	0	%100
77	M96	X	2.145	2.145	0	%100
78	M96	Z	-3.716	-3.716	0	%100
79	M88	X	1.239	1.239	0	%100
80	M88	Z	-2.147	-2.147	0	%100
81	M89	X	1.239	1.239	0	%100
82	M89	Z	-2.147	-2.147	0	%100
83	M90	X	0	0	0	%100
84	M90	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.145	1.145	0	%100
2	M1	Z	-.661	-.661	0	%100
3	M2	X	1.145	1.145	0	%100
4	M2	Z	-.661	-.661	0	%100
5	M3	X	4.582	4.582	0	%100
6	M3	Z	-2.645	-2.645	0	%100
7	M4	X	3.584	3.584	0	%100
8	M4	Z	-2.069	-2.069	0	%100
9	M5	X	3.584	3.584	0	%100
10	M5	Z	-2.069	-2.069	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	1.137	1.137	0	%100
14	M7	Z	-.656	-.656	0	%100
15	M8	X	1.137	1.137	0	%100
16	M8	Z	-.656	-.656	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft, F...]	End Magnitude[lb/ft, F...]	Start Location[ft, %]	End Location[ft, %]
17	M9	X	4.548	4.548	0	%100
18	M9	Z	-2.626	-2.626	0	%100
19	M10	X	2.834	2.834	0	%100
20	M10	Z	-1.636	-1.636	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	2.834	2.834	0	%100
24	M12	Z	-1.636	-1.636	0	%100
25	MP1A	X	3.129	3.129	0	%100
26	MP1A	Z	-1.807	-1.807	0	%100
27	MP2A	X	3.398	3.398	0	%100
28	MP2A	Z	-1.962	-1.962	0	%100
29	MP3A	X	3.129	3.129	0	%100
30	MP3A	Z	-1.807	-1.807	0	%100
31	MP4A	X	3.129	3.129	0	%100
32	MP4A	Z	-1.807	-1.807	0	%100
33	MP1B	X	3.129	3.129	0	%100
34	MP1B	Z	-1.807	-1.807	0	%100
35	MP2B	X	3.398	3.398	0	%100
36	MP2B	Z	-1.962	-1.962	0	%100
37	MP3B	X	3.129	3.129	0	%100
38	MP3B	Z	-1.807	-1.807	0	%100
39	MP4B	X	3.129	3.129	0	%100
40	MP4B	Z	-1.807	-1.807	0	%100
41	MP1C	X	3.129	3.129	0	%100
42	MP1C	Z	-1.807	-1.807	0	%100
43	MP2C	X	3.398	3.398	0	%100
44	MP2C	Z	-1.962	-1.962	0	%100
45	MP3C	X	3.129	3.129	0	%100
46	MP3C	Z	-1.807	-1.807	0	%100
47	MP4C	X	3.129	3.129	0	%100
48	MP4C	Z	-1.807	-1.807	0	%100
49	M25	X	.793	.793	0	%100
50	M25	Z	-.458	-.458	0	%100
51	M26	X	.793	.793	0	%100
52	M26	Z	-.458	-.458	0	%100
53	M27	X	3.172	3.172	0	%100
54	M27	Z	-1.831	-1.831	0	%100
55	M28	X	2.862	2.862	0	%100
56	M28	Z	-1.653	-1.653	0	%100
57	M29	X	.716	.716	0	%100
58	M29	Z	-.413	-.413	0	%100
59	M30	X	.716	.716	0	%100
60	M30	Z	-.413	-.413	0	%100
61	M67	X	.793	.793	0	%100
62	M67	Z	-.458	-.458	0	%100
63	M68	X	.793	.793	0	%100
64	M68	Z	-.458	-.458	0	%100
65	M69	X	3.172	3.172	0	%100
66	M69	Z	-1.831	-1.831	0	%100
67	M91	X	.705	.705	0	%100
68	M91	Z	-.407	-.407	0	%100
69	M92	X	3.407	3.407	0	%100
70	M92	Z	-1.967	-1.967	0	%100
71	M93	X	.705	.705	0	%100
72	M93	Z	-.407	-.407	0	%100
73	M94	X	3.407	3.407	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
74	M94	Z	-1.967	-1.967	0	%100
75	M95	X	2.519	2.519	0	%100
76	M95	Z	-1.455	-1.455	0	%100
77	M96	X	2.519	2.519	0	%100
78	M96	Z	-1.455	-1.455	0	%100
79	M88	X	2.862	2.862	0	%100
80	M88	Z	-1.653	-1.653	0	%100
81	M89	X	.716	.716	0	%100
82	M89	Z	-.413	-.413	0	%100
83	M90	X	.716	.716	0	%100
84	M90	Z	-.413	-.413	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	3.968	3.968	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	3.968	3.968	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	5.517	5.517	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	1.379	1.379	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	1.379	1.379	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	3.938	3.938	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	3.938	3.938	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	1.091	1.091	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	1.091	1.091	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	4.363	4.363	0	%100
24	M12	Z	0	0	0	%100
25	MP1A	X	3.613	3.613	0	%100
26	MP1A	Z	0	0	0	%100
27	MP2A	X	3.923	3.923	0	%100
28	MP2A	Z	0	0	0	%100
29	MP3A	X	3.613	3.613	0	%100
30	MP3A	Z	0	0	0	%100
31	MP4A	X	3.613	3.613	0	%100
32	MP4A	Z	0	0	0	%100
33	MP1B	X	3.613	3.613	0	%100
34	MP1B	Z	0	0	0	%100
35	MP2B	X	3.923	3.923	0	%100
36	MP2B	Z	0	0	0	%100
37	MP3B	X	3.613	3.613	0	%100
38	MP3B	Z	0	0	0	%100
39	MP4B	X	3.613	3.613	0	%100
40	MP4B	Z	0	0	0	%100
41	MP1C	X	3.613	3.613	0	%100
42	MP1C	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
43	MP2C	X	3.923	3.923	0	%100
44	MP2C	Z	0	0	0	%100
45	MP3C	X	3.613	3.613	0	%100
46	MP3C	Z	0	0	0	%100
47	MP4C	X	3.613	3.613	0	%100
48	MP4C	Z	0	0	0	%100
49	M25	X	0	0	0	%100
50	M25	Z	0	0	0	%100
51	M26	X	2.747	2.747	0	%100
52	M26	Z	0	0	0	%100
53	M27	X	2.747	2.747	0	%100
54	M27	Z	0	0	0	%100
55	M28	X	2.479	2.479	0	%100
56	M28	Z	0	0	0	%100
57	M29	X	0	0	0	%100
58	M29	Z	0	0	0	%100
59	M30	X	2.479	2.479	0	%100
60	M30	Z	0	0	0	%100
61	M67	X	0	0	0	%100
62	M67	Z	0	0	0	%100
63	M68	X	2.747	2.747	0	%100
64	M68	Z	0	0	0	%100
65	M69	X	2.747	2.747	0	%100
66	M69	Z	0	0	0	%100
67	M91	X	2.196	2.196	0	%100
68	M91	Z	0	0	0	%100
69	M92	X	2.196	2.196	0	%100
70	M92	Z	0	0	0	%100
71	M93	X	1.171	1.171	0	%100
72	M93	Z	0	0	0	%100
73	M94	X	4.291	4.291	0	%100
74	M94	Z	0	0	0	%100
75	M95	X	4.291	4.291	0	%100
76	M95	Z	0	0	0	%100
77	M96	X	1.171	1.171	0	%100
78	M96	Z	0	0	0	%100
79	M88	X	2.479	2.479	0	%100
80	M88	Z	0	0	0	%100
81	M89	X	0	0	0	%100
82	M89	Z	0	0	0	%100
83	M90	X	2.479	2.479	0	%100
84	M90	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.145	1.145	0	%100
2	M1	Z	.661	.661	0	%100
3	M2	X	4.582	4.582	0	%100
4	M2	Z	2.645	2.645	0	%100
5	M3	X	1.145	1.145	0	%100
6	M3	Z	.661	.661	0	%100
7	M4	X	3.584	3.584	0	%100
8	M4	Z	2.069	2.069	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	3.584	3.584	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft,F....]	Start Location[ft, %]	End Location[ft, %]
12	M6	Z	2.069	2.069	0	%100
13	M7	X	1.137	1.137	0	%100
14	M7	Z	.656	.656	0	%100
15	M8	X	4.548	4.548	0	%100
16	M8	Z	2.626	2.626	0	%100
17	M9	X	1.137	1.137	0	%100
18	M9	Z	.656	.656	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	2.834	2.834	0	%100
22	M11	Z	1.636	1.636	0	%100
23	M12	X	2.834	2.834	0	%100
24	M12	Z	1.636	1.636	0	%100
25	MP1A	X	3.129	3.129	0	%100
26	MP1A	Z	1.807	1.807	0	%100
27	MP2A	X	3.398	3.398	0	%100
28	MP2A	Z	1.962	1.962	0	%100
29	MP3A	X	3.129	3.129	0	%100
30	MP3A	Z	1.807	1.807	0	%100
31	MP4A	X	3.129	3.129	0	%100
32	MP4A	Z	1.807	1.807	0	%100
33	MP1B	X	3.129	3.129	0	%100
34	MP1B	Z	1.807	1.807	0	%100
35	MP2B	X	3.398	3.398	0	%100
36	MP2B	Z	1.962	1.962	0	%100
37	MP3B	X	3.129	3.129	0	%100
38	MP3B	Z	1.807	1.807	0	%100
39	MP4B	X	3.129	3.129	0	%100
40	MP4B	Z	1.807	1.807	0	%100
41	MP1C	X	3.129	3.129	0	%100
42	MP1C	Z	1.807	1.807	0	%100
43	MP2C	X	3.398	3.398	0	%100
44	MP2C	Z	1.962	1.962	0	%100
45	MP3C	X	3.129	3.129	0	%100
46	MP3C	Z	1.807	1.807	0	%100
47	MP4C	X	3.129	3.129	0	%100
48	MP4C	Z	1.807	1.807	0	%100
49	M25	X	.793	.793	0	%100
50	M25	Z	.458	.458	0	%100
51	M26	X	3.172	3.172	0	%100
52	M26	Z	1.831	1.831	0	%100
53	M27	X	.793	.793	0	%100
54	M27	Z	.458	.458	0	%100
55	M28	X	.716	.716	0	%100
56	M28	Z	.413	.413	0	%100
57	M29	X	.716	.716	0	%100
58	M29	Z	.413	.413	0	%100
59	M30	X	2.862	2.862	0	%100
60	M30	Z	1.653	1.653	0	%100
61	M67	X	.793	.793	0	%100
62	M67	Z	.458	.458	0	%100
63	M68	X	3.172	3.172	0	%100
64	M68	Z	1.831	1.831	0	%100
65	M69	X	.793	.793	0	%100
66	M69	Z	.458	.458	0	%100
67	M91	X	3.407	3.407	0	%100
68	M91	Z	1.967	1.967	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
69	M92	X	.705	.705	0	%100
70	M92	Z	.407	.407	0	%100
71	M93	X	2.519	2.519	0	%100
72	M93	Z	1.455	1.455	0	%100
73	M94	X	2.519	2.519	0	%100
74	M94	Z	1.455	1.455	0	%100
75	M95	X	3.407	3.407	0	%100
76	M95	Z	1.967	1.967	0	%100
77	M96	X	.705	.705	0	%100
78	M96	Z	.407	.407	0	%100
79	M88	X	.716	.716	0	%100
80	M88	Z	.413	.413	0	%100
81	M89	X	.716	.716	0	%100
82	M89	Z	.413	.413	0	%100
83	M90	X	2.862	2.862	0	%100
84	M90	Z	1.653	1.653	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	1.984	1.984	0	%100
2	M1	Z	3.436	3.436	0	%100
3	M2	X	1.984	1.984	0	%100
4	M2	Z	3.436	3.436	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	.69	.69	0	%100
8	M4	Z	1.195	1.195	0	%100
9	M5	X	.69	.69	0	%100
10	M5	Z	1.195	1.195	0	%100
11	M6	X	2.759	2.759	0	%100
12	M6	Z	4.778	4.778	0	%100
13	M7	X	1.969	1.969	0	%100
14	M7	Z	3.411	3.411	0	%100
15	M8	X	1.969	1.969	0	%100
16	M8	Z	3.411	3.411	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	.545	.545	0	%100
20	M10	Z	.945	.945	0	%100
21	M11	X	2.181	2.181	0	%100
22	M11	Z	3.778	3.778	0	%100
23	M12	X	.545	.545	0	%100
24	M12	Z	.945	.945	0	%100
25	MP1A	X	1.807	1.807	0	%100
26	MP1A	Z	3.129	3.129	0	%100
27	MP2A	X	1.962	1.962	0	%100
28	MP2A	Z	3.398	3.398	0	%100
29	MP3A	X	1.807	1.807	0	%100
30	MP3A	Z	3.129	3.129	0	%100
31	MP4A	X	1.807	1.807	0	%100
32	MP4A	Z	3.129	3.129	0	%100
33	MP1B	X	1.807	1.807	0	%100
34	MP1B	Z	3.129	3.129	0	%100
35	MP2B	X	1.962	1.962	0	%100
36	MP2B	Z	3.398	3.398	0	%100
37	MP3B	X	1.807	1.807	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft,F...]	Start Location[ft,%]	End Location[ft,%]
38	MP3B	Z	3.129	3.129	0	%100
39	MP4B	X	1.807	1.807	0	%100
40	MP4B	Z	3.129	3.129	0	%100
41	MP1C	X	1.807	1.807	0	%100
42	MP1C	Z	3.129	3.129	0	%100
43	MP2C	X	1.962	1.962	0	%100
44	MP2C	Z	3.398	3.398	0	%100
45	MP3C	X	1.807	1.807	0	%100
46	MP3C	Z	3.129	3.129	0	%100
47	MP4C	X	1.807	1.807	0	%100
48	MP4C	Z	3.129	3.129	0	%100
49	M25	X	1.374	1.374	0	%100
50	M25	Z	2.379	2.379	0	%100
51	M26	X	1.374	1.374	0	%100
52	M26	Z	2.379	2.379	0	%100
53	M27	X	0	0	0	%100
54	M27	Z	0	0	0	%100
55	M28	X	0	0	0	%100
56	M28	Z	0	0	0	%100
57	M29	X	1.239	1.239	0	%100
58	M29	Z	2.147	2.147	0	%100
59	M30	X	1.239	1.239	0	%100
60	M30	Z	2.147	2.147	0	%100
61	M67	X	1.374	1.374	0	%100
62	M67	Z	2.379	2.379	0	%100
63	M68	X	1.374	1.374	0	%100
64	M68	Z	2.379	2.379	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	0	0	0	%100
67	M91	X	2.145	2.145	0	%100
68	M91	Z	3.716	3.716	0	%100
69	M92	X	.585	.585	0	%100
70	M92	Z	1.014	1.014	0	%100
71	M93	X	2.145	2.145	0	%100
72	M93	Z	3.716	3.716	0	%100
73	M94	X	.585	.585	0	%100
74	M94	Z	1.014	1.014	0	%100
75	M95	X	1.098	1.098	0	%100
76	M95	Z	1.902	1.902	0	%100
77	M96	X	1.098	1.098	0	%100
78	M96	Z	1.902	1.902	0	%100
79	M88	X	0	0	0	%100
80	M88	Z	0	0	0	%100
81	M89	X	1.239	1.239	0	%100
82	M89	Z	2.147	2.147	0	%100
83	M90	X	1.239	1.239	0	%100
84	M90	Z	2.147	2.147	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft,F...]	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	5.291	5.291	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	1.323	1.323	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	1.323	1.323	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft,F....]	Start Location[ft. %]	End Location[ft. %]
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	4.138	4.138	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	4.138	4.138	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	5.251	5.251	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	1.313	1.313	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	1.313	1.313	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	3.272	3.272	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	3.272	3.272	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	0	0	0	%100
25	MP1A	X	0	0	0	%100
26	MP1A	Z	3.613	3.613	0	%100
27	MP2A	X	0	0	0	%100
28	MP2A	Z	3.923	3.923	0	%100
29	MP3A	X	0	0	0	%100
30	MP3A	Z	3.613	3.613	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	3.613	3.613	0	%100
33	MP1B	X	0	0	0	%100
34	MP1B	Z	3.613	3.613	0	%100
35	MP2B	X	0	0	0	%100
36	MP2B	Z	3.923	3.923	0	%100
37	MP3B	X	0	0	0	%100
38	MP3B	Z	3.613	3.613	0	%100
39	MP4B	X	0	0	0	%100
40	MP4B	Z	3.613	3.613	0	%100
41	MP1C	X	0	0	0	%100
42	MP1C	Z	3.613	3.613	0	%100
43	MP2C	X	0	0	0	%100
44	MP2C	Z	3.923	3.923	0	%100
45	MP3C	X	0	0	0	%100
46	MP3C	Z	3.613	3.613	0	%100
47	MP4C	X	0	0	0	%100
48	MP4C	Z	3.613	3.613	0	%100
49	M25	X	0	0	0	%100
50	M25	Z	3.663	3.663	0	%100
51	M26	X	0	0	0	%100
52	M26	Z	.916	.916	0	%100
53	M27	X	0	0	0	%100
54	M27	Z	.916	.916	0	%100
55	M28	X	0	0	0	%100
56	M28	Z	.826	.826	0	%100
57	M29	X	0	0	0	%100
58	M29	Z	3.305	3.305	0	%100
59	M30	X	0	0	0	%100
60	M30	Z	.826	.826	0	%100
61	M67	X	0	0	0	%100
62	M67	Z	3.663	3.663	0	%100
63	M68	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F....]	Start Location[ft.%]	End Location[ft.%]
64	M68	Z	.916	.916	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	.916	.916	0	%100
67	M91	X	0	0	0	%100
68	M91	Z	2.909	2.909	0	%100
69	M92	X	0	0	0	%100
70	M92	Z	2.909	2.909	0	%100
71	M93	X	0	0	0	%100
72	M93	Z	3.934	3.934	0	%100
73	M94	X	0	0	0	%100
74	M94	Z	.814	.814	0	%100
75	M95	X	0	0	0	%100
76	M95	Z	.814	.814	0	%100
77	M96	X	0	0	0	%100
78	M96	Z	3.934	3.934	0	%100
79	M88	X	0	0	0	%100
80	M88	Z	.826	.826	0	%100
81	M89	X	0	0	0	%100
82	M89	Z	3.305	3.305	0	%100
83	M90	X	0	0	0	%100
84	M90	Z	.826	.826	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-1.984	-1.984	0	%100
2	M1	Z	3.436	3.436	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-1.984	-1.984	0	%100
6	M3	Z	3.436	3.436	0	%100
7	M4	X	-.69	-.69	0	%100
8	M4	Z	1.195	1.195	0	%100
9	M5	X	-2.759	-2.759	0	%100
10	M5	Z	4.778	4.778	0	%100
11	M6	X	-.69	-.69	0	%100
12	M6	Z	1.195	1.195	0	%100
13	M7	X	-1.969	-1.969	0	%100
14	M7	Z	3.411	3.411	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	-1.969	-1.969	0	%100
18	M9	Z	3.411	3.411	0	%100
19	M10	X	-2.181	-2.181	0	%100
20	M10	Z	3.778	3.778	0	%100
21	M11	X	-.545	-.545	0	%100
22	M11	Z	.945	.945	0	%100
23	M12	X	-.545	-.545	0	%100
24	M12	Z	.945	.945	0	%100
25	MP1A	X	-1.807	-1.807	0	%100
26	MP1A	Z	3.129	3.129	0	%100
27	MP2A	X	-1.962	-1.962	0	%100
28	MP2A	Z	3.398	3.398	0	%100
29	MP3A	X	-1.807	-1.807	0	%100
30	MP3A	Z	3.129	3.129	0	%100
31	MP4A	X	-1.807	-1.807	0	%100
32	MP4A	Z	3.129	3.129	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
33	MP1B	X	-1.807	-1.807	0	%100
34	MP1B	Z	3.129	3.129	0	%100
35	MP2B	X	-1.962	-1.962	0	%100
36	MP2B	Z	3.398	3.398	0	%100
37	MP3B	X	-1.807	-1.807	0	%100
38	MP3B	Z	3.129	3.129	0	%100
39	MP4B	X	-1.807	-1.807	0	%100
40	MP4B	Z	3.129	3.129	0	%100
41	MP1C	X	-1.807	-1.807	0	%100
42	MP1C	Z	3.129	3.129	0	%100
43	MP2C	X	-1.962	-1.962	0	%100
44	MP2C	Z	3.398	3.398	0	%100
45	MP3C	X	-1.807	-1.807	0	%100
46	MP3C	Z	3.129	3.129	0	%100
47	MP4C	X	-1.807	-1.807	0	%100
48	MP4C	Z	3.129	3.129	0	%100
49	M25	X	-1.374	-1.374	0	%100
50	M25	Z	2.379	2.379	0	%100
51	M26	X	0	0	0	%100
52	M26	Z	0	0	0	%100
53	M27	X	-1.374	-1.374	0	%100
54	M27	Z	2.379	2.379	0	%100
55	M28	X	-1.239	-1.239	0	%100
56	M28	Z	2.147	2.147	0	%100
57	M29	X	-1.239	-1.239	0	%100
58	M29	Z	2.147	2.147	0	%100
59	M30	X	0	0	0	%100
60	M30	Z	0	0	0	%100
61	M67	X	-1.374	-1.374	0	%100
62	M67	Z	2.379	2.379	0	%100
63	M68	X	0	0	0	%100
64	M68	Z	0	0	0	%100
65	M69	X	-1.374	-1.374	0	%100
66	M69	Z	2.379	2.379	0	%100
67	M91	X	-.585	-.585	0	%100
68	M91	Z	1.014	1.014	0	%100
69	M92	X	-2.145	-2.145	0	%100
70	M92	Z	3.716	3.716	0	%100
71	M93	X	-1.098	-1.098	0	%100
72	M93	Z	1.902	1.902	0	%100
73	M94	X	-1.098	-1.098	0	%100
74	M94	Z	1.902	1.902	0	%100
75	M95	X	-.585	-.585	0	%100
76	M95	Z	1.014	1.014	0	%100
77	M96	X	-2.145	-2.145	0	%100
78	M96	Z	3.716	3.716	0	%100
79	M88	X	-1.239	-1.239	0	%100
80	M88	Z	2.147	2.147	0	%100
81	M89	X	-1.239	-1.239	0	%100
82	M89	Z	2.147	2.147	0	%100
83	M90	X	0	0	0	%100
84	M90	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.145	-1.145	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft,F....]	Start Location[ft, %]	End Location[ft, %]
2	M1	Z	.661	.661	0	%100
3	M2	X	-1.145	-1.145	0	%100
4	M2	Z	.661	.661	0	%100
5	M3	X	-4.582	-4.582	0	%100
6	M3	Z	2.645	2.645	0	%100
7	M4	X	-3.584	-3.584	0	%100
8	M4	Z	2.069	2.069	0	%100
9	M5	X	-3.584	-3.584	0	%100
10	M5	Z	2.069	2.069	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	-1.137	-1.137	0	%100
14	M7	Z	.656	.656	0	%100
15	M8	X	-1.137	-1.137	0	%100
16	M8	Z	.656	.656	0	%100
17	M9	X	-4.548	-4.548	0	%100
18	M9	Z	2.626	2.626	0	%100
19	M10	X	-2.834	-2.834	0	%100
20	M10	Z	1.636	1.636	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	-2.834	-2.834	0	%100
24	M12	Z	1.636	1.636	0	%100
25	MP1A	X	-3.129	-3.129	0	%100
26	MP1A	Z	1.807	1.807	0	%100
27	MP2A	X	-3.398	-3.398	0	%100
28	MP2A	Z	1.962	1.962	0	%100
29	MP3A	X	-3.129	-3.129	0	%100
30	MP3A	Z	1.807	1.807	0	%100
31	MP4A	X	-3.129	-3.129	0	%100
32	MP4A	Z	1.807	1.807	0	%100
33	MP1B	X	-3.129	-3.129	0	%100
34	MP1B	Z	1.807	1.807	0	%100
35	MP2B	X	-3.398	-3.398	0	%100
36	MP2B	Z	1.962	1.962	0	%100
37	MP3B	X	-3.129	-3.129	0	%100
38	MP3B	Z	1.807	1.807	0	%100
39	MP4B	X	-3.129	-3.129	0	%100
40	MP4B	Z	1.807	1.807	0	%100
41	MP1C	X	-3.129	-3.129	0	%100
42	MP1C	Z	1.807	1.807	0	%100
43	MP2C	X	-3.398	-3.398	0	%100
44	MP2C	Z	1.962	1.962	0	%100
45	MP3C	X	-3.129	-3.129	0	%100
46	MP3C	Z	1.807	1.807	0	%100
47	MP4C	X	-3.129	-3.129	0	%100
48	MP4C	Z	1.807	1.807	0	%100
49	M25	X	-.793	-.793	0	%100
50	M25	Z	.458	.458	0	%100
51	M26	X	-.793	-.793	0	%100
52	M26	Z	.458	.458	0	%100
53	M27	X	-3.172	-3.172	0	%100
54	M27	Z	1.831	1.831	0	%100
55	M28	X	-2.862	-2.862	0	%100
56	M28	Z	1.653	1.653	0	%100
57	M29	X	-.716	-.716	0	%100
58	M29	Z	.413	.413	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
59	M30	X	-.716	-.716	0	%100
60	M30	Z	.413	.413	0	%100
61	M67	X	-.793	-.793	0	%100
62	M67	Z	.458	.458	0	%100
63	M68	X	-.793	-.793	0	%100
64	M68	Z	.458	.458	0	%100
65	M69	X	-3.172	-3.172	0	%100
66	M69	Z	1.831	1.831	0	%100
67	M91	X	-.705	-.705	0	%100
68	M91	Z	.407	.407	0	%100
69	M92	X	-3.407	-3.407	0	%100
70	M92	Z	1.967	1.967	0	%100
71	M93	X	-.705	-.705	0	%100
72	M93	Z	.407	.407	0	%100
73	M94	X	-3.407	-3.407	0	%100
74	M94	Z	1.967	1.967	0	%100
75	M95	X	-2.519	-2.519	0	%100
76	M95	Z	1.455	1.455	0	%100
77	M96	X	-2.519	-2.519	0	%100
78	M96	Z	1.455	1.455	0	%100
79	M88	X	-2.862	-2.862	0	%100
80	M88	Z	1.653	1.653	0	%100
81	M89	X	-.716	-.716	0	%100
82	M89	Z	.413	.413	0	%100
83	M90	X	-.716	-.716	0	%100
84	M90	Z	.413	.413	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-3.968	-3.968	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-3.968	-3.968	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	-5.517	-5.517	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	-1.379	-1.379	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	-1.379	-1.379	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	-3.938	-3.938	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	-3.938	-3.938	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	-1.091	-1.091	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	-1.091	-1.091	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	-4.363	-4.363	0	%100
24	M12	Z	0	0	0	%100
25	MP1A	X	-3.613	-3.613	0	%100
26	MP1A	Z	0	0	0	%100
27	MP2A	X	-3.923	-3.923	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft,F....]	Start Location[ft, %]	End Location[ft, %]
28	MP2A	Z	0	0	0	%100
29	MP3A	X	-3.613	-3.613	0	%100
30	MP3A	Z	0	0	0	%100
31	MP4A	X	-3.613	-3.613	0	%100
32	MP4A	Z	0	0	0	%100
33	MP1B	X	-3.613	-3.613	0	%100
34	MP1B	Z	0	0	0	%100
35	MP2B	X	-3.923	-3.923	0	%100
36	MP2B	Z	0	0	0	%100
37	MP3B	X	-3.613	-3.613	0	%100
38	MP3B	Z	0	0	0	%100
39	MP4B	X	-3.613	-3.613	0	%100
40	MP4B	Z	0	0	0	%100
41	MP1C	X	-3.613	-3.613	0	%100
42	MP1C	Z	0	0	0	%100
43	MP2C	X	-3.923	-3.923	0	%100
44	MP2C	Z	0	0	0	%100
45	MP3C	X	-3.613	-3.613	0	%100
46	MP3C	Z	0	0	0	%100
47	MP4C	X	-3.613	-3.613	0	%100
48	MP4C	Z	0	0	0	%100
49	M25	X	0	0	0	%100
50	M25	Z	0	0	0	%100
51	M26	X	-2.747	-2.747	0	%100
52	M26	Z	0	0	0	%100
53	M27	X	-2.747	-2.747	0	%100
54	M27	Z	0	0	0	%100
55	M28	X	-2.479	-2.479	0	%100
56	M28	Z	0	0	0	%100
57	M29	X	0	0	0	%100
58	M29	Z	0	0	0	%100
59	M30	X	-2.479	-2.479	0	%100
60	M30	Z	0	0	0	%100
61	M67	X	0	0	0	%100
62	M67	Z	0	0	0	%100
63	M68	X	-2.747	-2.747	0	%100
64	M68	Z	0	0	0	%100
65	M69	X	-2.747	-2.747	0	%100
66	M69	Z	0	0	0	%100
67	M91	X	-2.196	-2.196	0	%100
68	M91	Z	0	0	0	%100
69	M92	X	-2.196	-2.196	0	%100
70	M92	Z	0	0	0	%100
71	M93	X	-1.171	-1.171	0	%100
72	M93	Z	0	0	0	%100
73	M94	X	-4.291	-4.291	0	%100
74	M94	Z	0	0	0	%100
75	M95	X	-4.291	-4.291	0	%100
76	M95	Z	0	0	0	%100
77	M96	X	-1.171	-1.171	0	%100
78	M96	Z	0	0	0	%100
79	M88	X	-2.479	-2.479	0	%100
80	M88	Z	0	0	0	%100
81	M89	X	0	0	0	%100
82	M89	Z	0	0	0	%100
83	M90	X	-2.479	-2.479	0	%100
84	M90	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-1.145	-1.145	0	%100
2	M1	Z	-.661	-.661	0	%100
3	M2	X	-4.582	-4.582	0	%100
4	M2	Z	-2.645	-2.645	0	%100
5	M3	X	-1.145	-1.145	0	%100
6	M3	Z	-.661	-.661	0	%100
7	M4	X	-3.584	-3.584	0	%100
8	M4	Z	-2.069	-2.069	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	-3.584	-3.584	0	%100
12	M6	Z	-2.069	-2.069	0	%100
13	M7	X	-1.137	-1.137	0	%100
14	M7	Z	-.656	-.656	0	%100
15	M8	X	-4.548	-4.548	0	%100
16	M8	Z	-2.626	-2.626	0	%100
17	M9	X	-1.137	-1.137	0	%100
18	M9	Z	-.656	-.656	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	-2.834	-2.834	0	%100
22	M11	Z	-1.636	-1.636	0	%100
23	M12	X	-2.834	-2.834	0	%100
24	M12	Z	-1.636	-1.636	0	%100
25	MP1A	X	-3.129	-3.129	0	%100
26	MP1A	Z	-1.807	-1.807	0	%100
27	MP2A	X	-3.398	-3.398	0	%100
28	MP2A	Z	-1.962	-1.962	0	%100
29	MP3A	X	-3.129	-3.129	0	%100
30	MP3A	Z	-1.807	-1.807	0	%100
31	MP4A	X	-3.129	-3.129	0	%100
32	MP4A	Z	-1.807	-1.807	0	%100
33	MP1B	X	-3.129	-3.129	0	%100
34	MP1B	Z	-1.807	-1.807	0	%100
35	MP2B	X	-3.398	-3.398	0	%100
36	MP2B	Z	-1.962	-1.962	0	%100
37	MP3B	X	-3.129	-3.129	0	%100
38	MP3B	Z	-1.807	-1.807	0	%100
39	MP4B	X	-3.129	-3.129	0	%100
40	MP4B	Z	-1.807	-1.807	0	%100
41	MP1C	X	-3.129	-3.129	0	%100
42	MP1C	Z	-1.807	-1.807	0	%100
43	MP2C	X	-3.398	-3.398	0	%100
44	MP2C	Z	-1.962	-1.962	0	%100
45	MP3C	X	-3.129	-3.129	0	%100
46	MP3C	Z	-1.807	-1.807	0	%100
47	MP4C	X	-3.129	-3.129	0	%100
48	MP4C	Z	-1.807	-1.807	0	%100
49	M25	X	-.793	-.793	0	%100
50	M25	Z	-.458	-.458	0	%100
51	M26	X	-3.172	-3.172	0	%100
52	M26	Z	-1.831	-1.831	0	%100
53	M27	X	-.793	-.793	0	%100
54	M27	Z	-.458	-.458	0	%100
55	M28	X	-.716	-.716	0	%100
56	M28	Z	-.413	-.413	0	%100
57	M29	X	-.716	-.716	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
58	M29	Z	-.413	-.413	0	%100
59	M30	X	-2.862	-2.862	0	%100
60	M30	Z	-1.653	-1.653	0	%100
61	M67	X	-.793	-.793	0	%100
62	M67	Z	-.458	-.458	0	%100
63	M68	X	-3.172	-3.172	0	%100
64	M68	Z	-1.831	-1.831	0	%100
65	M69	X	-.793	-.793	0	%100
66	M69	Z	-.458	-.458	0	%100
67	M91	X	-3.407	-3.407	0	%100
68	M91	Z	-1.967	-1.967	0	%100
69	M92	X	-.705	-.705	0	%100
70	M92	Z	-.407	-.407	0	%100
71	M93	X	-2.519	-2.519	0	%100
72	M93	Z	-1.455	-1.455	0	%100
73	M94	X	-2.519	-2.519	0	%100
74	M94	Z	-1.455	-1.455	0	%100
75	M95	X	-3.407	-3.407	0	%100
76	M95	Z	-1.967	-1.967	0	%100
77	M96	X	-.705	-.705	0	%100
78	M96	Z	-.407	-.407	0	%100
79	M88	X	-.716	-.716	0	%100
80	M88	Z	-.413	-.413	0	%100
81	M89	X	-.716	-.716	0	%100
82	M89	Z	-.413	-.413	0	%100
83	M90	X	-2.862	-2.862	0	%100
84	M90	Z	-1.653	-1.653	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.984	-1.984	0	%100
2	M1	Z	-3.436	-3.436	0	%100
3	M2	X	-1.984	-1.984	0	%100
4	M2	Z	-3.436	-3.436	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	-.69	-.69	0	%100
8	M4	Z	-1.195	-1.195	0	%100
9	M5	X	-.69	-.69	0	%100
10	M5	Z	-1.195	-1.195	0	%100
11	M6	X	-2.759	-2.759	0	%100
12	M6	Z	-4.778	-4.778	0	%100
13	M7	X	-1.969	-1.969	0	%100
14	M7	Z	-3.411	-3.411	0	%100
15	M8	X	-1.969	-1.969	0	%100
16	M8	Z	-3.411	-3.411	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	-.545	-.545	0	%100
20	M10	Z	-.945	-.945	0	%100
21	M11	X	-2.181	-2.181	0	%100
22	M11	Z	-3.778	-3.778	0	%100
23	M12	X	-.545	-.545	0	%100
24	M12	Z	-.945	-.945	0	%100
25	MP1A	X	-1.807	-1.807	0	%100
26	MP1A	Z	-3.129	-3.129	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft, F...]	End Magnitude[lb/ft, F...]	Start Location[ft, %]	End Location[ft, %]
27	MP2A	X	-1.962	-1.962	0	%100
28	MP2A	Z	-3.398	-3.398	0	%100
29	MP3A	X	-1.807	-1.807	0	%100
30	MP3A	Z	-3.129	-3.129	0	%100
31	MP4A	X	-1.807	-1.807	0	%100
32	MP4A	Z	-3.129	-3.129	0	%100
33	MP1B	X	-1.807	-1.807	0	%100
34	MP1B	Z	-3.129	-3.129	0	%100
35	MP2B	X	-1.962	-1.962	0	%100
36	MP2B	Z	-3.398	-3.398	0	%100
37	MP3B	X	-1.807	-1.807	0	%100
38	MP3B	Z	-3.129	-3.129	0	%100
39	MP4B	X	-1.807	-1.807	0	%100
40	MP4B	Z	-3.129	-3.129	0	%100
41	MP1C	X	-1.807	-1.807	0	%100
42	MP1C	Z	-3.129	-3.129	0	%100
43	MP2C	X	-1.962	-1.962	0	%100
44	MP2C	Z	-3.398	-3.398	0	%100
45	MP3C	X	-1.807	-1.807	0	%100
46	MP3C	Z	-3.129	-3.129	0	%100
47	MP4C	X	-1.807	-1.807	0	%100
48	MP4C	Z	-3.129	-3.129	0	%100
49	M25	X	-1.374	-1.374	0	%100
50	M25	Z	-2.379	-2.379	0	%100
51	M26	X	-1.374	-1.374	0	%100
52	M26	Z	-2.379	-2.379	0	%100
53	M27	X	0	0	0	%100
54	M27	Z	0	0	0	%100
55	M28	X	0	0	0	%100
56	M28	Z	0	0	0	%100
57	M29	X	-1.239	-1.239	0	%100
58	M29	Z	-2.147	-2.147	0	%100
59	M30	X	-1.239	-1.239	0	%100
60	M30	Z	-2.147	-2.147	0	%100
61	M67	X	-1.374	-1.374	0	%100
62	M67	Z	-2.379	-2.379	0	%100
63	M68	X	-1.374	-1.374	0	%100
64	M68	Z	-2.379	-2.379	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	0	0	0	%100
67	M91	X	-2.145	-2.145	0	%100
68	M91	Z	-3.716	-3.716	0	%100
69	M92	X	-.585	-.585	0	%100
70	M92	Z	-1.014	-1.014	0	%100
71	M93	X	-2.145	-2.145	0	%100
72	M93	Z	-3.716	-3.716	0	%100
73	M94	X	-.585	-.585	0	%100
74	M94	Z	-1.014	-1.014	0	%100
75	M95	X	-1.098	-1.098	0	%100
76	M95	Z	-1.902	-1.902	0	%100
77	M96	X	-1.098	-1.098	0	%100
78	M96	Z	-1.902	-1.902	0	%100
79	M88	X	0	0	0	%100
80	M88	Z	0	0	0	%100
81	M89	X	-1.239	-1.239	0	%100
82	M89	Z	-2.147	-2.147	0	%100
83	M90	X	-1.239	-1.239	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
84	M90	Z	-2.147	-2.147	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	-1.116	-1.116	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.279	-.279	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-.279	-.279	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	-1.065	-1.065	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	-1.065	-1.065	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	-1.116	-1.116	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	-.279	-.279	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	-.279	-.279	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	-.712	-.712	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	-.712	-.712	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	0	0	0	%100
25	MP1A	X	0	0	0	%100
26	MP1A	Z	-.53	-.53	0	%100
27	MP2A	X	0	0	0	%100
28	MP2A	Z	-.642	-.642	0	%100
29	MP3A	X	0	0	0	%100
30	MP3A	Z	-.53	-.53	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	-.53	-.53	0	%100
33	MP1B	X	0	0	0	%100
34	MP1B	Z	-.53	-.53	0	%100
35	MP2B	X	0	0	0	%100
36	MP2B	Z	-.642	-.642	0	%100
37	MP3B	X	0	0	0	%100
38	MP3B	Z	-.53	-.53	0	%100
39	MP4B	X	0	0	0	%100
40	MP4B	Z	-.53	-.53	0	%100
41	MP1C	X	0	0	0	%100
42	MP1C	Z	-.53	-.53	0	%100
43	MP2C	X	0	0	0	%100
44	MP2C	Z	-.642	-.642	0	%100
45	MP3C	X	0	0	0	%100
46	MP3C	Z	-.53	-.53	0	%100
47	MP4C	X	0	0	0	%100
48	MP4C	Z	-.53	-.53	0	%100
49	M25	X	0	0	0	%100
50	M25	Z	-.53	-.53	0	%100
51	M26	X	0	0	0	%100
52	M26	Z	-.133	-.133	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
53	M27	X	0	0	0	%100
54	M27	Z	-.133	-.133	0	%100
55	M28	X	0	0	0	%100
56	M28	Z	-.178	-.178	0	%100
57	M29	X	0	0	0	%100
58	M29	Z	-.714	-.714	0	%100
59	M30	X	0	0	0	%100
60	M30	Z	-.178	-.178	0	%100
61	M67	X	0	0	0	%100
62	M67	Z	-.53	-.53	0	%100
63	M68	X	0	0	0	%100
64	M68	Z	-.133	-.133	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	-.133	-.133	0	%100
67	M91	X	0	0	0	%100
68	M91	Z	-.604	-.604	0	%100
69	M92	X	0	0	0	%100
70	M92	Z	-.604	-.604	0	%100
71	M93	X	0	0	0	%100
72	M93	Z	-.817	-.817	0	%100
73	M94	X	0	0	0	%100
74	M94	Z	-.169	-.169	0	%100
75	M95	X	0	0	0	%100
76	M95	Z	-.169	-.169	0	%100
77	M96	X	0	0	0	%100
78	M96	Z	-.817	-.817	0	%100
79	M88	X	0	0	0	%100
80	M88	Z	-.178	-.178	0	%100
81	M89	X	0	0	0	%100
82	M89	Z	-.714	-.714	0	%100
83	M90	X	0	0	0	%100
84	M90	Z	-.178	-.178	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.419	.419	0	%100
2	M1	Z	-.725	-.725	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	.419	.419	0	%100
6	M3	Z	-.725	-.725	0	%100
7	M4	X	.178	.178	0	%100
8	M4	Z	-.307	-.307	0	%100
9	M5	X	.71	.71	0	%100
10	M5	Z	-1.23	-1.23	0	%100
11	M6	X	.178	.178	0	%100
12	M6	Z	-.307	-.307	0	%100
13	M7	X	.419	.419	0	%100
14	M7	Z	-.725	-.725	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	.419	.419	0	%100
18	M9	Z	-.725	-.725	0	%100
19	M10	X	.474	.474	0	%100
20	M10	Z	-.822	-.822	0	%100
21	M11	X	.119	.119	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F....]	Start Location[ft.%]	End Location[ft.%]
22	M11	Z	-.205	-.205	0	%100
23	M12	X	.119	.119	0	%100
24	M12	Z	-.205	-.205	0	%100
25	MP1A	X	.265	.265	0	%100
26	MP1A	Z	-.459	-.459	0	%100
27	MP2A	X	.321	.321	0	%100
28	MP2A	Z	-.556	-.556	0	%100
29	MP3A	X	.265	.265	0	%100
30	MP3A	Z	-.459	-.459	0	%100
31	MP4A	X	.265	.265	0	%100
32	MP4A	Z	-.459	-.459	0	%100
33	MP1B	X	.265	.265	0	%100
34	MP1B	Z	-.459	-.459	0	%100
35	MP2B	X	.321	.321	0	%100
36	MP2B	Z	-.556	-.556	0	%100
37	MP3B	X	.265	.265	0	%100
38	MP3B	Z	-.459	-.459	0	%100
39	MP4B	X	.265	.265	0	%100
40	MP4B	Z	-.459	-.459	0	%100
41	MP1C	X	.265	.265	0	%100
42	MP1C	Z	-.459	-.459	0	%100
43	MP2C	X	.321	.321	0	%100
44	MP2C	Z	-.556	-.556	0	%100
45	MP3C	X	.265	.265	0	%100
46	MP3C	Z	-.459	-.459	0	%100
47	MP4C	X	.265	.265	0	%100
48	MP4C	Z	-.459	-.459	0	%100
49	M25	X	.199	.199	0	%100
50	M25	Z	-.344	-.344	0	%100
51	M26	X	0	0	0	%100
52	M26	Z	0	0	0	%100
53	M27	X	.199	.199	0	%100
54	M27	Z	-.344	-.344	0	%100
55	M28	X	.268	.268	0	%100
56	M28	Z	-.463	-.463	0	%100
57	M29	X	.268	.268	0	%100
58	M29	Z	-.463	-.463	0	%100
59	M30	X	0	0	0	%100
60	M30	Z	0	0	0	%100
61	M67	X	.199	.199	0	%100
62	M67	Z	-.344	-.344	0	%100
63	M68	X	0	0	0	%100
64	M68	Z	0	0	0	%100
65	M69	X	.199	.199	0	%100
66	M69	Z	-.344	-.344	0	%100
67	M91	X	.122	.122	0	%100
68	M91	Z	-.21	-.21	0	%100
69	M92	X	.445	.445	0	%100
70	M92	Z	-.771	-.771	0	%100
71	M93	X	.228	.228	0	%100
72	M93	Z	-.395	-.395	0	%100
73	M94	X	.228	.228	0	%100
74	M94	Z	-.395	-.395	0	%100
75	M95	X	.122	.122	0	%100
76	M95	Z	-.21	-.21	0	%100
77	M96	X	.445	.445	0	%100
78	M96	Z	-.771	-.771	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
79	M88	X	.268	.268	0	%100
80	M88	Z	-.463	-.463	0	%100
81	M89	X	.268	.268	0	%100
82	M89	Z	-.463	-.463	0	%100
83	M90	X	0	0	0	%100
84	M90	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.242	.242	0	%100
2	M1	Z	-.14	-.14	0	%100
3	M2	X	.242	.242	0	%100
4	M2	Z	-.14	-.14	0	%100
5	M3	X	.967	.967	0	%100
6	M3	Z	-.558	-.558	0	%100
7	M4	X	.922	.922	0	%100
8	M4	Z	-.533	-.533	0	%100
9	M5	X	.922	.922	0	%100
10	M5	Z	-.533	-.533	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	.242	.242	0	%100
14	M7	Z	-.14	-.14	0	%100
15	M8	X	.242	.242	0	%100
16	M8	Z	-.14	-.14	0	%100
17	M9	X	.967	.967	0	%100
18	M9	Z	-.558	-.558	0	%100
19	M10	X	.616	.616	0	%100
20	M10	Z	-.356	-.356	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	.616	.616	0	%100
24	M12	Z	-.356	-.356	0	%100
25	MP1A	X	.459	.459	0	%100
26	MP1A	Z	-.265	-.265	0	%100
27	MP2A	X	.556	.556	0	%100
28	MP2A	Z	-.321	-.321	0	%100
29	MP3A	X	.459	.459	0	%100
30	MP3A	Z	-.265	-.265	0	%100
31	MP4A	X	.459	.459	0	%100
32	MP4A	Z	-.265	-.265	0	%100
33	MP1B	X	.459	.459	0	%100
34	MP1B	Z	-.265	-.265	0	%100
35	MP2B	X	.556	.556	0	%100
36	MP2B	Z	-.321	-.321	0	%100
37	MP3B	X	.459	.459	0	%100
38	MP3B	Z	-.265	-.265	0	%100
39	MP4B	X	.459	.459	0	%100
40	MP4B	Z	-.265	-.265	0	%100
41	MP1C	X	.459	.459	0	%100
42	MP1C	Z	-.265	-.265	0	%100
43	MP2C	X	.556	.556	0	%100
44	MP2C	Z	-.321	-.321	0	%100
45	MP3C	X	.459	.459	0	%100
46	MP3C	Z	-.265	-.265	0	%100
47	MP4C	X	.459	.459	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
48	MP4C	Z	-.265	-.265	0	%100
49	M25	X	.115	.115	0	%100
50	M25	Z	-.066	-.066	0	%100
51	M26	X	.115	.115	0	%100
52	M26	Z	-.066	-.066	0	%100
53	M27	X	.459	.459	0	%100
54	M27	Z	-.265	-.265	0	%100
55	M28	X	.618	.618	0	%100
56	M28	Z	-.357	-.357	0	%100
57	M29	X	.154	.154	0	%100
58	M29	Z	-.089	-.089	0	%100
59	M30	X	.154	.154	0	%100
60	M30	Z	-.089	-.089	0	%100
61	M67	X	.115	.115	0	%100
62	M67	Z	-.066	-.066	0	%100
63	M68	X	.115	.115	0	%100
64	M68	Z	-.066	-.066	0	%100
65	M69	X	.459	.459	0	%100
66	M69	Z	-.265	-.265	0	%100
67	M91	X	.146	.146	0	%100
68	M91	Z	-.084	-.084	0	%100
69	M92	X	.707	.707	0	%100
70	M92	Z	-.408	-.408	0	%100
71	M93	X	.146	.146	0	%100
72	M93	Z	-.084	-.084	0	%100
73	M94	X	.707	.707	0	%100
74	M94	Z	-.408	-.408	0	%100
75	M95	X	.523	.523	0	%100
76	M95	Z	-.302	-.302	0	%100
77	M96	X	.523	.523	0	%100
78	M96	Z	-.302	-.302	0	%100
79	M88	X	.618	.618	0	%100
80	M88	Z	-.357	-.357	0	%100
81	M89	X	.154	.154	0	%100
82	M89	Z	-.089	-.089	0	%100
83	M90	X	.154	.154	0	%100
84	M90	Z	-.089	-.089	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	.837	.837	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	.837	.837	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	1.42	1.42	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	.355	.355	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	.355	.355	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	.837	.837	0	%100
16	M8	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
17	M9	X	.837	.837	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	.237	.237	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	.237	.237	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	.949	.949	0	%100
24	M12	Z	0	0	0	%100
25	MP1A	X	.53	.53	0	%100
26	MP1A	Z	0	0	0	%100
27	MP2A	X	.642	.642	0	%100
28	MP2A	Z	0	0	0	%100
29	MP3A	X	.53	.53	0	%100
30	MP3A	Z	0	0	0	%100
31	MP4A	X	.53	.53	0	%100
32	MP4A	Z	0	0	0	%100
33	MP1B	X	.53	.53	0	%100
34	MP1B	Z	0	0	0	%100
35	MP2B	X	.642	.642	0	%100
36	MP2B	Z	0	0	0	%100
37	MP3B	X	.53	.53	0	%100
38	MP3B	Z	0	0	0	%100
39	MP4B	X	.53	.53	0	%100
40	MP4B	Z	0	0	0	%100
41	MP1C	X	.53	.53	0	%100
42	MP1C	Z	0	0	0	%100
43	MP2C	X	.642	.642	0	%100
44	MP2C	Z	0	0	0	%100
45	MP3C	X	.53	.53	0	%100
46	MP3C	Z	0	0	0	%100
47	MP4C	X	.53	.53	0	%100
48	MP4C	Z	0	0	0	%100
49	M25	X	0	0	0	%100
50	M25	Z	0	0	0	%100
51	M26	X	.398	.398	0	%100
52	M26	Z	0	0	0	%100
53	M27	X	.398	.398	0	%100
54	M27	Z	0	0	0	%100
55	M28	X	.535	.535	0	%100
56	M28	Z	0	0	0	%100
57	M29	X	0	0	0	%100
58	M29	Z	0	0	0	%100
59	M30	X	.535	.535	0	%100
60	M30	Z	0	0	0	%100
61	M67	X	0	0	0	%100
62	M67	Z	0	0	0	%100
63	M68	X	.398	.398	0	%100
64	M68	Z	0	0	0	%100
65	M69	X	.398	.398	0	%100
66	M69	Z	0	0	0	%100
67	M91	X	.456	.456	0	%100
68	M91	Z	0	0	0	%100
69	M92	X	.456	.456	0	%100
70	M92	Z	0	0	0	%100
71	M93	X	.243	.243	0	%100
72	M93	Z	0	0	0	%100
73	M94	X	.891	.891	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
74	M94	Z	0	0	0	%100
75	M95	X	.891	.891	0	%100
76	M95	Z	0	0	0	%100
77	M96	X	.243	.243	0	%100
78	M96	Z	0	0	0	%100
79	M88	X	.535	.535	0	%100
80	M88	Z	0	0	0	%100
81	M89	X	0	0	0	%100
82	M89	Z	0	0	0	%100
83	M90	X	.535	.535	0	%100
84	M90	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.242	.242	0	%100
2	M1	Z	.14	.14	0	%100
3	M2	X	.967	.967	0	%100
4	M2	Z	.558	.558	0	%100
5	M3	X	.242	.242	0	%100
6	M3	Z	.14	.14	0	%100
7	M4	X	.922	.922	0	%100
8	M4	Z	.533	.533	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	.922	.922	0	%100
12	M6	Z	.533	.533	0	%100
13	M7	X	.242	.242	0	%100
14	M7	Z	.14	.14	0	%100
15	M8	X	.967	.967	0	%100
16	M8	Z	.558	.558	0	%100
17	M9	X	.242	.242	0	%100
18	M9	Z	.14	.14	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	.616	.616	0	%100
22	M11	Z	.356	.356	0	%100
23	M12	X	.616	.616	0	%100
24	M12	Z	.356	.356	0	%100
25	MP1A	X	.459	.459	0	%100
26	MP1A	Z	.265	.265	0	%100
27	MP2A	X	.556	.556	0	%100
28	MP2A	Z	.321	.321	0	%100
29	MP3A	X	.459	.459	0	%100
30	MP3A	Z	.265	.265	0	%100
31	MP4A	X	.459	.459	0	%100
32	MP4A	Z	.265	.265	0	%100
33	MP1B	X	.459	.459	0	%100
34	MP1B	Z	.265	.265	0	%100
35	MP2B	X	.556	.556	0	%100
36	MP2B	Z	.321	.321	0	%100
37	MP3B	X	.459	.459	0	%100
38	MP3B	Z	.265	.265	0	%100
39	MP4B	X	.459	.459	0	%100
40	MP4B	Z	.265	.265	0	%100
41	MP1C	X	.459	.459	0	%100
42	MP1C	Z	.265	.265	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
43	MP2C	X	.556	.556	0	%100
44	MP2C	Z	.321	.321	0	%100
45	MP3C	X	.459	.459	0	%100
46	MP3C	Z	.265	.265	0	%100
47	MP4C	X	.459	.459	0	%100
48	MP4C	Z	.265	.265	0	%100
49	M25	X	.115	.115	0	%100
50	M25	Z	.066	.066	0	%100
51	M26	X	.459	.459	0	%100
52	M26	Z	.265	.265	0	%100
53	M27	X	.115	.115	0	%100
54	M27	Z	.066	.066	0	%100
55	M28	X	.154	.154	0	%100
56	M28	Z	.089	.089	0	%100
57	M29	X	.154	.154	0	%100
58	M29	Z	.089	.089	0	%100
59	M30	X	.618	.618	0	%100
60	M30	Z	.357	.357	0	%100
61	M67	X	.115	.115	0	%100
62	M67	Z	.066	.066	0	%100
63	M68	X	.459	.459	0	%100
64	M68	Z	.265	.265	0	%100
65	M69	X	.115	.115	0	%100
66	M69	Z	.066	.066	0	%100
67	M91	X	.707	.707	0	%100
68	M91	Z	.408	.408	0	%100
69	M92	X	.146	.146	0	%100
70	M92	Z	.084	.084	0	%100
71	M93	X	.523	.523	0	%100
72	M93	Z	.302	.302	0	%100
73	M94	X	.523	.523	0	%100
74	M94	Z	.302	.302	0	%100
75	M95	X	.707	.707	0	%100
76	M95	Z	.408	.408	0	%100
77	M96	X	.146	.146	0	%100
78	M96	Z	.084	.084	0	%100
79	M88	X	.154	.154	0	%100
80	M88	Z	.089	.089	0	%100
81	M89	X	.154	.154	0	%100
82	M89	Z	.089	.089	0	%100
83	M90	X	.618	.618	0	%100
84	M90	Z	.357	.357	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	.419	.419	0	%100
2	M1	Z	.725	.725	0	%100
3	M2	X	.419	.419	0	%100
4	M2	Z	.725	.725	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	.178	.178	0	%100
8	M4	Z	.307	.307	0	%100
9	M5	X	.178	.178	0	%100
10	M5	Z	.307	.307	0	%100
11	M6	X	.71	.71	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft,F....]	Start Location[ft, %]	End Location[ft, %]
12	M6	Z	1.23	1.23	0	%100
13	M7	X	.419	.419	0	%100
14	M7	Z	.725	.725	0	%100
15	M8	X	.419	.419	0	%100
16	M8	Z	.725	.725	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	.119	.119	0	%100
20	M10	Z	.205	.205	0	%100
21	M11	X	.474	.474	0	%100
22	M11	Z	.822	.822	0	%100
23	M12	X	.119	.119	0	%100
24	M12	Z	.205	.205	0	%100
25	MP1A	X	.265	.265	0	%100
26	MP1A	Z	.459	.459	0	%100
27	MP2A	X	.321	.321	0	%100
28	MP2A	Z	.556	.556	0	%100
29	MP3A	X	.265	.265	0	%100
30	MP3A	Z	.459	.459	0	%100
31	MP4A	X	.265	.265	0	%100
32	MP4A	Z	.459	.459	0	%100
33	MP1B	X	.265	.265	0	%100
34	MP1B	Z	.459	.459	0	%100
35	MP2B	X	.321	.321	0	%100
36	MP2B	Z	.556	.556	0	%100
37	MP3B	X	.265	.265	0	%100
38	MP3B	Z	.459	.459	0	%100
39	MP4B	X	.265	.265	0	%100
40	MP4B	Z	.459	.459	0	%100
41	MP1C	X	.265	.265	0	%100
42	MP1C	Z	.459	.459	0	%100
43	MP2C	X	.321	.321	0	%100
44	MP2C	Z	.556	.556	0	%100
45	MP3C	X	.265	.265	0	%100
46	MP3C	Z	.459	.459	0	%100
47	MP4C	X	.265	.265	0	%100
48	MP4C	Z	.459	.459	0	%100
49	M25	X	.199	.199	0	%100
50	M25	Z	.344	.344	0	%100
51	M26	X	.199	.199	0	%100
52	M26	Z	.344	.344	0	%100
53	M27	X	0	0	0	%100
54	M27	Z	0	0	0	%100
55	M28	X	0	0	0	%100
56	M28	Z	0	0	0	%100
57	M29	X	.268	.268	0	%100
58	M29	Z	.463	.463	0	%100
59	M30	X	.268	.268	0	%100
60	M30	Z	.463	.463	0	%100
61	M67	X	.199	.199	0	%100
62	M67	Z	.344	.344	0	%100
63	M68	X	.199	.199	0	%100
64	M68	Z	.344	.344	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	0	0	0	%100
67	M91	X	.445	.445	0	%100
68	M91	Z	.771	.771	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
69	M92	X	.122	.122	0	%100
70	M92	Z	.21	.21	0	%100
71	M93	X	.445	.445	0	%100
72	M93	Z	.771	.771	0	%100
73	M94	X	.122	.122	0	%100
74	M94	Z	.21	.21	0	%100
75	M95	X	.228	.228	0	%100
76	M95	Z	.395	.395	0	%100
77	M96	X	.228	.228	0	%100
78	M96	Z	.395	.395	0	%100
79	M88	X	0	0	0	%100
80	M88	Z	0	0	0	%100
81	M89	X	.268	.268	0	%100
82	M89	Z	.463	.463	0	%100
83	M90	X	.268	.268	0	%100
84	M90	Z	.463	.463	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	0	0	0	%100
2	M1	Z	1.116	1.116	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.279	.279	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	.279	.279	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	1.065	1.065	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	1.065	1.065	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	1.116	1.116	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	.279	.279	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	.279	.279	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	.712	.712	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	.712	.712	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	0	0	0	%100
25	MP1A	X	0	0	0	%100
26	MP1A	Z	.53	.53	0	%100
27	MP2A	X	0	0	0	%100
28	MP2A	Z	.642	.642	0	%100
29	MP3A	X	0	0	0	%100
30	MP3A	Z	.53	.53	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	.53	.53	0	%100
33	MP1B	X	0	0	0	%100
34	MP1B	Z	.53	.53	0	%100
35	MP2B	X	0	0	0	%100
36	MP2B	Z	.642	.642	0	%100
37	MP3B	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
38	MP3B	Z	.53	.53	0	%100
39	MP4B	X	0	0	0	%100
40	MP4B	Z	.53	.53	0	%100
41	MP1C	X	0	0	0	%100
42	MP1C	Z	.53	.53	0	%100
43	MP2C	X	0	0	0	%100
44	MP2C	Z	.642	.642	0	%100
45	MP3C	X	0	0	0	%100
46	MP3C	Z	.53	.53	0	%100
47	MP4C	X	0	0	0	%100
48	MP4C	Z	.53	.53	0	%100
49	M25	X	0	0	0	%100
50	M25	Z	.53	.53	0	%100
51	M26	X	0	0	0	%100
52	M26	Z	.133	.133	0	%100
53	M27	X	0	0	0	%100
54	M27	Z	.133	.133	0	%100
55	M28	X	0	0	0	%100
56	M28	Z	.178	.178	0	%100
57	M29	X	0	0	0	%100
58	M29	Z	.714	.714	0	%100
59	M30	X	0	0	0	%100
60	M30	Z	.178	.178	0	%100
61	M67	X	0	0	0	%100
62	M67	Z	.53	.53	0	%100
63	M68	X	0	0	0	%100
64	M68	Z	.133	.133	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	.133	.133	0	%100
67	M91	X	0	0	0	%100
68	M91	Z	.604	.604	0	%100
69	M92	X	0	0	0	%100
70	M92	Z	.604	.604	0	%100
71	M93	X	0	0	0	%100
72	M93	Z	.817	.817	0	%100
73	M94	X	0	0	0	%100
74	M94	Z	.169	.169	0	%100
75	M95	X	0	0	0	%100
76	M95	Z	.169	.169	0	%100
77	M96	X	0	0	0	%100
78	M96	Z	.817	.817	0	%100
79	M88	X	0	0	0	%100
80	M88	Z	.178	.178	0	%100
81	M89	X	0	0	0	%100
82	M89	Z	.714	.714	0	%100
83	M90	X	0	0	0	%100
84	M90	Z	.178	.178	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.419	-.419	0	%100
2	M1	Z	.725	.725	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-.419	-.419	0	%100
6	M3	Z	.725	.725	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
7	M4	X	-.178	-.178	0	%100
8	M4	Z	.307	.307	0	%100
9	M5	X	-.71	-.71	0	%100
10	M5	Z	1.23	1.23	0	%100
11	M6	X	-.178	-.178	0	%100
12	M6	Z	.307	.307	0	%100
13	M7	X	-.419	-.419	0	%100
14	M7	Z	.725	.725	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	-.419	-.419	0	%100
18	M9	Z	.725	.725	0	%100
19	M10	X	-.474	-.474	0	%100
20	M10	Z	.822	.822	0	%100
21	M11	X	-.119	-.119	0	%100
22	M11	Z	.205	.205	0	%100
23	M12	X	-.119	-.119	0	%100
24	M12	Z	.205	.205	0	%100
25	MP1A	X	-.265	-.265	0	%100
26	MP1A	Z	.459	.459	0	%100
27	MP2A	X	-.321	-.321	0	%100
28	MP2A	Z	.556	.556	0	%100
29	MP3A	X	-.265	-.265	0	%100
30	MP3A	Z	.459	.459	0	%100
31	MP4A	X	-.265	-.265	0	%100
32	MP4A	Z	.459	.459	0	%100
33	MP1B	X	-.265	-.265	0	%100
34	MP1B	Z	.459	.459	0	%100
35	MP2B	X	-.321	-.321	0	%100
36	MP2B	Z	.556	.556	0	%100
37	MP3B	X	-.265	-.265	0	%100
38	MP3B	Z	.459	.459	0	%100
39	MP4B	X	-.265	-.265	0	%100
40	MP4B	Z	.459	.459	0	%100
41	MP1C	X	-.265	-.265	0	%100
42	MP1C	Z	.459	.459	0	%100
43	MP2C	X	-.321	-.321	0	%100
44	MP2C	Z	.556	.556	0	%100
45	MP3C	X	-.265	-.265	0	%100
46	MP3C	Z	.459	.459	0	%100
47	MP4C	X	-.265	-.265	0	%100
48	MP4C	Z	.459	.459	0	%100
49	M25	X	-.199	-.199	0	%100
50	M25	Z	.344	.344	0	%100
51	M26	X	0	0	0	%100
52	M26	Z	0	0	0	%100
53	M27	X	-.199	-.199	0	%100
54	M27	Z	.344	.344	0	%100
55	M28	X	-.268	-.268	0	%100
56	M28	Z	.463	.463	0	%100
57	M29	X	-.268	-.268	0	%100
58	M29	Z	.463	.463	0	%100
59	M30	X	0	0	0	%100
60	M30	Z	0	0	0	%100
61	M67	X	-.199	-.199	0	%100
62	M67	Z	.344	.344	0	%100
63	M68	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
64	M68	Z	0	0	0	%100
65	M69	X	-.199	-.199	0	%100
66	M69	Z	.344	.344	0	%100
67	M91	X	-.122	-.122	0	%100
68	M91	Z	.21	.21	0	%100
69	M92	X	-.445	-.445	0	%100
70	M92	Z	.771	.771	0	%100
71	M93	X	-.228	-.228	0	%100
72	M93	Z	.395	.395	0	%100
73	M94	X	-.228	-.228	0	%100
74	M94	Z	.395	.395	0	%100
75	M95	X	-.122	-.122	0	%100
76	M95	Z	.21	.21	0	%100
77	M96	X	-.445	-.445	0	%100
78	M96	Z	.771	.771	0	%100
79	M88	X	-.268	-.268	0	%100
80	M88	Z	.463	.463	0	%100
81	M89	X	-.268	-.268	0	%100
82	M89	Z	.463	.463	0	%100
83	M90	X	0	0	0	%100
84	M90	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-.242	-.242	0	%100
2	M1	Z	.14	.14	0	%100
3	M2	X	-.242	-.242	0	%100
4	M2	Z	.14	.14	0	%100
5	M3	X	-.967	-.967	0	%100
6	M3	Z	.558	.558	0	%100
7	M4	X	-.922	-.922	0	%100
8	M4	Z	.533	.533	0	%100
9	M5	X	-.922	-.922	0	%100
10	M5	Z	.533	.533	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	-.242	-.242	0	%100
14	M7	Z	.14	.14	0	%100
15	M8	X	-.242	-.242	0	%100
16	M8	Z	.14	.14	0	%100
17	M9	X	-.967	-.967	0	%100
18	M9	Z	.558	.558	0	%100
19	M10	X	-.616	-.616	0	%100
20	M10	Z	.356	.356	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	-.616	-.616	0	%100
24	M12	Z	.356	.356	0	%100
25	MP1A	X	-.459	-.459	0	%100
26	MP1A	Z	.265	.265	0	%100
27	MP2A	X	-.556	-.556	0	%100
28	MP2A	Z	.321	.321	0	%100
29	MP3A	X	-.459	-.459	0	%100
30	MP3A	Z	.265	.265	0	%100
31	MP4A	X	-.459	-.459	0	%100
32	MP4A	Z	.265	.265	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
33	MP1B	X	-.459	-.459	0	%100
34	MP1B	Z	.265	.265	0	%100
35	MP2B	X	-.556	-.556	0	%100
36	MP2B	Z	.321	.321	0	%100
37	MP3B	X	-.459	-.459	0	%100
38	MP3B	Z	.265	.265	0	%100
39	MP4B	X	-.459	-.459	0	%100
40	MP4B	Z	.265	.265	0	%100
41	MP1C	X	-.459	-.459	0	%100
42	MP1C	Z	.265	.265	0	%100
43	MP2C	X	-.556	-.556	0	%100
44	MP2C	Z	.321	.321	0	%100
45	MP3C	X	-.459	-.459	0	%100
46	MP3C	Z	.265	.265	0	%100
47	MP4C	X	-.459	-.459	0	%100
48	MP4C	Z	.265	.265	0	%100
49	M25	X	-.115	-.115	0	%100
50	M25	Z	.066	.066	0	%100
51	M26	X	-.115	-.115	0	%100
52	M26	Z	.066	.066	0	%100
53	M27	X	-.459	-.459	0	%100
54	M27	Z	.265	.265	0	%100
55	M28	X	-.618	-.618	0	%100
56	M28	Z	.357	.357	0	%100
57	M29	X	-.154	-.154	0	%100
58	M29	Z	.089	.089	0	%100
59	M30	X	-.154	-.154	0	%100
60	M30	Z	.089	.089	0	%100
61	M67	X	-.115	-.115	0	%100
62	M67	Z	.066	.066	0	%100
63	M68	X	-.115	-.115	0	%100
64	M68	Z	.066	.066	0	%100
65	M69	X	-.459	-.459	0	%100
66	M69	Z	.265	.265	0	%100
67	M91	X	-.146	-.146	0	%100
68	M91	Z	.084	.084	0	%100
69	M92	X	-.707	-.707	0	%100
70	M92	Z	.408	.408	0	%100
71	M93	X	-.146	-.146	0	%100
72	M93	Z	.084	.084	0	%100
73	M94	X	-.707	-.707	0	%100
74	M94	Z	.408	.408	0	%100
75	M95	X	-.523	-.523	0	%100
76	M95	Z	.302	.302	0	%100
77	M96	X	-.523	-.523	0	%100
78	M96	Z	.302	.302	0	%100
79	M88	X	-.618	-.618	0	%100
80	M88	Z	.357	.357	0	%100
81	M89	X	-.154	-.154	0	%100
82	M89	Z	.089	.089	0	%100
83	M90	X	-.154	-.154	0	%100
84	M90	Z	.089	.089	0	%100

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

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



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft,F....]	Start Location[ft, %]	End Location[ft, %]
2	M1	Z	0	0	0	%100
3	M2	X	-.837	-.837	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-.837	-.837	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	-1.42	-1.42	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	-.355	-.355	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	-.355	-.355	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	-.837	-.837	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	-.837	-.837	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	-.237	-.237	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	-.237	-.237	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	-.949	-.949	0	%100
24	M12	Z	0	0	0	%100
25	MP1A	X	-.53	-.53	0	%100
26	MP1A	Z	0	0	0	%100
27	MP2A	X	-.642	-.642	0	%100
28	MP2A	Z	0	0	0	%100
29	MP3A	X	-.53	-.53	0	%100
30	MP3A	Z	0	0	0	%100
31	MP4A	X	-.53	-.53	0	%100
32	MP4A	Z	0	0	0	%100
33	MP1B	X	-.53	-.53	0	%100
34	MP1B	Z	0	0	0	%100
35	MP2B	X	-.642	-.642	0	%100
36	MP2B	Z	0	0	0	%100
37	MP3B	X	-.53	-.53	0	%100
38	MP3B	Z	0	0	0	%100
39	MP4B	X	-.53	-.53	0	%100
40	MP4B	Z	0	0	0	%100
41	MP1C	X	-.53	-.53	0	%100
42	MP1C	Z	0	0	0	%100
43	MP2C	X	-.642	-.642	0	%100
44	MP2C	Z	0	0	0	%100
45	MP3C	X	-.53	-.53	0	%100
46	MP3C	Z	0	0	0	%100
47	MP4C	X	-.53	-.53	0	%100
48	MP4C	Z	0	0	0	%100
49	M25	X	0	0	0	%100
50	M25	Z	0	0	0	%100
51	M26	X	-.398	-.398	0	%100
52	M26	Z	0	0	0	%100
53	M27	X	-.398	-.398	0	%100
54	M27	Z	0	0	0	%100
55	M28	X	-.535	-.535	0	%100
56	M28	Z	0	0	0	%100
57	M29	X	0	0	0	%100
58	M29	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
59	M30	X	-.535	-.535	0	%100
60	M30	Z	0	0	0	%100
61	M67	X	0	0	0	%100
62	M67	Z	0	0	0	%100
63	M68	X	-.398	-.398	0	%100
64	M68	Z	0	0	0	%100
65	M69	X	-.398	-.398	0	%100
66	M69	Z	0	0	0	%100
67	M91	X	-.456	-.456	0	%100
68	M91	Z	0	0	0	%100
69	M92	X	-.456	-.456	0	%100
70	M92	Z	0	0	0	%100
71	M93	X	-.243	-.243	0	%100
72	M93	Z	0	0	0	%100
73	M94	X	-.891	-.891	0	%100
74	M94	Z	0	0	0	%100
75	M95	X	-.891	-.891	0	%100
76	M95	Z	0	0	0	%100
77	M96	X	-.243	-.243	0	%100
78	M96	Z	0	0	0	%100
79	M88	X	-.535	-.535	0	%100
80	M88	Z	0	0	0	%100
81	M89	X	0	0	0	%100
82	M89	Z	0	0	0	%100
83	M90	X	-.535	-.535	0	%100
84	M90	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.242	-.242	0	%100
2	M1	Z	-.14	-.14	0	%100
3	M2	X	-.967	-.967	0	%100
4	M2	Z	-.558	-.558	0	%100
5	M3	X	-.242	-.242	0	%100
6	M3	Z	-.14	-.14	0	%100
7	M4	X	-.922	-.922	0	%100
8	M4	Z	-.533	-.533	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	-.922	-.922	0	%100
12	M6	Z	-.533	-.533	0	%100
13	M7	X	-.242	-.242	0	%100
14	M7	Z	-.14	-.14	0	%100
15	M8	X	-.967	-.967	0	%100
16	M8	Z	-.558	-.558	0	%100
17	M9	X	-.242	-.242	0	%100
18	M9	Z	-.14	-.14	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	-.616	-.616	0	%100
22	M11	Z	-.356	-.356	0	%100
23	M12	X	-.616	-.616	0	%100
24	M12	Z	-.356	-.356	0	%100
25	MP1A	X	-.459	-.459	0	%100
26	MP1A	Z	-.265	-.265	0	%100
27	MP2A	X	-.556	-.556	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft,F....]	Start Location[ft, %]	End Location[ft, %]
28	MP2A	Z	-.321	-.321	0	%100
29	MP3A	X	-.459	-.459	0	%100
30	MP3A	Z	-.265	-.265	0	%100
31	MP4A	X	-.459	-.459	0	%100
32	MP4A	Z	-.265	-.265	0	%100
33	MP1B	X	-.459	-.459	0	%100
34	MP1B	Z	-.265	-.265	0	%100
35	MP2B	X	-.556	-.556	0	%100
36	MP2B	Z	-.321	-.321	0	%100
37	MP3B	X	-.459	-.459	0	%100
38	MP3B	Z	-.265	-.265	0	%100
39	MP4B	X	-.459	-.459	0	%100
40	MP4B	Z	-.265	-.265	0	%100
41	MP1C	X	-.459	-.459	0	%100
42	MP1C	Z	-.265	-.265	0	%100
43	MP2C	X	-.556	-.556	0	%100
44	MP2C	Z	-.321	-.321	0	%100
45	MP3C	X	-.459	-.459	0	%100
46	MP3C	Z	-.265	-.265	0	%100
47	MP4C	X	-.459	-.459	0	%100
48	MP4C	Z	-.265	-.265	0	%100
49	M25	X	-.115	-.115	0	%100
50	M25	Z	-.066	-.066	0	%100
51	M26	X	-.459	-.459	0	%100
52	M26	Z	-.265	-.265	0	%100
53	M27	X	-.115	-.115	0	%100
54	M27	Z	-.066	-.066	0	%100
55	M28	X	-.154	-.154	0	%100
56	M28	Z	-.089	-.089	0	%100
57	M29	X	-.154	-.154	0	%100
58	M29	Z	-.089	-.089	0	%100
59	M30	X	-.618	-.618	0	%100
60	M30	Z	-.357	-.357	0	%100
61	M67	X	-.115	-.115	0	%100
62	M67	Z	-.066	-.066	0	%100
63	M68	X	-.459	-.459	0	%100
64	M68	Z	-.265	-.265	0	%100
65	M69	X	-.115	-.115	0	%100
66	M69	Z	-.066	-.066	0	%100
67	M91	X	-.707	-.707	0	%100
68	M91	Z	-.408	-.408	0	%100
69	M92	X	-.146	-.146	0	%100
70	M92	Z	-.084	-.084	0	%100
71	M93	X	-.523	-.523	0	%100
72	M93	Z	-.302	-.302	0	%100
73	M94	X	-.523	-.523	0	%100
74	M94	Z	-.302	-.302	0	%100
75	M95	X	-.707	-.707	0	%100
76	M95	Z	-.408	-.408	0	%100
77	M96	X	-.146	-.146	0	%100
78	M96	Z	-.084	-.084	0	%100
79	M88	X	-.154	-.154	0	%100
80	M88	Z	-.089	-.089	0	%100
81	M89	X	-.154	-.154	0	%100
82	M89	Z	-.089	-.089	0	%100
83	M90	X	-.618	-.618	0	%100
84	M90	Z	-.357	-.357	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.419	-.419	0	%100
2	M1	Z	-.725	-.725	0	%100
3	M2	X	-.419	-.419	0	%100
4	M2	Z	-.725	-.725	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	-.178	-.178	0	%100
8	M4	Z	-.307	-.307	0	%100
9	M5	X	-.178	-.178	0	%100
10	M5	Z	-.307	-.307	0	%100
11	M6	X	-.71	-.71	0	%100
12	M6	Z	-1.23	-1.23	0	%100
13	M7	X	-.419	-.419	0	%100
14	M7	Z	-.725	-.725	0	%100
15	M8	X	-.419	-.419	0	%100
16	M8	Z	-.725	-.725	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	-.119	-.119	0	%100
20	M10	Z	-.205	-.205	0	%100
21	M11	X	-.474	-.474	0	%100
22	M11	Z	-.822	-.822	0	%100
23	M12	X	-.119	-.119	0	%100
24	M12	Z	-.205	-.205	0	%100
25	MP1A	X	-.265	-.265	0	%100
26	MP1A	Z	-.459	-.459	0	%100
27	MP2A	X	-.321	-.321	0	%100
28	MP2A	Z	-.556	-.556	0	%100
29	MP3A	X	-.265	-.265	0	%100
30	MP3A	Z	-.459	-.459	0	%100
31	MP4A	X	-.265	-.265	0	%100
32	MP4A	Z	-.459	-.459	0	%100
33	MP1B	X	-.265	-.265	0	%100
34	MP1B	Z	-.459	-.459	0	%100
35	MP2B	X	-.321	-.321	0	%100
36	MP2B	Z	-.556	-.556	0	%100
37	MP3B	X	-.265	-.265	0	%100
38	MP3B	Z	-.459	-.459	0	%100
39	MP4B	X	-.265	-.265	0	%100
40	MP4B	Z	-.459	-.459	0	%100
41	MP1C	X	-.265	-.265	0	%100
42	MP1C	Z	-.459	-.459	0	%100
43	MP2C	X	-.321	-.321	0	%100
44	MP2C	Z	-.556	-.556	0	%100
45	MP3C	X	-.265	-.265	0	%100
46	MP3C	Z	-.459	-.459	0	%100
47	MP4C	X	-.265	-.265	0	%100
48	MP4C	Z	-.459	-.459	0	%100
49	M25	X	-.199	-.199	0	%100
50	M25	Z	-.344	-.344	0	%100
51	M26	X	-.199	-.199	0	%100
52	M26	Z	-.344	-.344	0	%100
53	M27	X	0	0	0	%100
54	M27	Z	0	0	0	%100
55	M28	X	0	0	0	%100
56	M28	Z	0	0	0	%100
57	M29	X	-.268	-.268	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
58	M29	Z	-.463	-.463	0	%100
59	M30	X	-.268	-.268	0	%100
60	M30	Z	-.463	-.463	0	%100
61	M67	X	-.199	-.199	0	%100
62	M67	Z	-.344	-.344	0	%100
63	M68	X	-.199	-.199	0	%100
64	M68	Z	-.344	-.344	0	%100
65	M69	X	0	0	0	%100
66	M69	Z	0	0	0	%100
67	M91	X	-.445	-.445	0	%100
68	M91	Z	-.771	-.771	0	%100
69	M92	X	-.122	-.122	0	%100
70	M92	Z	-.21	-.21	0	%100
71	M93	X	-.445	-.445	0	%100
72	M93	Z	-.771	-.771	0	%100
73	M94	X	-.122	-.122	0	%100
74	M94	Z	-.21	-.21	0	%100
75	M95	X	-.228	-.228	0	%100
76	M95	Z	-.395	-.395	0	%100
77	M96	X	-.228	-.228	0	%100
78	M96	Z	-.395	-.395	0	%100
79	M88	X	0	0	0	%100
80	M88	Z	0	0	0	%100
81	M89	X	-.268	-.268	0	%100
82	M89	Z	-.463	-.463	0	%100
83	M90	X	-.268	-.268	0	%100
84	M90	Z	-.463	-.463	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M2	Y	-.11	-3.191	0	2
2	M2	Y	-3.191	-5.094	2	4
3	M2	Y	-5.094	-4.698	4	6
4	M2	Y	-4.698	-4.698	6	8
5	M2	Y	-4.698	-5.094	8	10
6	M2	Y	-5.094	-3.191	10	12
7	M2	Y	-3.191	-.11	12	14
8	M8	Y	-5.279	-5.279	.003	7.069
9	M11	Y	-8.976	-5.03	0	2
10	M11	Y	-5.03	-1.084	2	4
11	M12	Y	-8.976	-5.03	0	2
12	M12	Y	-5.03	-1.084	2	4
13	M3	Y	-1.171	-2.774	0	2.333
14	M3	Y	-2.774	-4.802	2.333	4.667
15	M3	Y	-4.802	-6.028	4.667	7
16	M3	Y	-6.028	-4.802	7	9.333
17	M3	Y	-4.802	-2.774	9.333	11.667
18	M3	Y	-2.774	-1.171	11.667	14
19	M9	Y	-5.279	-5.279	.003	7.069
20	M10	Y	-8.976	-5.03	0	2
21	M10	Y	-5.03	-1.084	2	4
22	M1	Y	-.11	-3.191	0	2
23	M1	Y	-3.191	-5.094	2	4
24	M1	Y	-5.094	-4.698	4	6
25	M1	Y	-4.698	-4.698	6	8
26	M1	Y	-4.698	-5.094	8	10

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
27	M1	Y	-5.094	-3.191	10	12
28	M1	Y	-3.191	-.11	12	14
29	M7	Y	-5.279	-5.279	.003	7.069

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M2	Y	-.274	-7.922	0	2
2	M2	Y	-7.922	-12.647	2	4
3	M2	Y	-12.647	-11.663	4	6
4	M2	Y	-11.663	-11.663	6	8
5	M2	Y	-11.663	-12.647	8	10
6	M2	Y	-12.647	-7.922	10	12
7	M2	Y	-7.922	-.274	12	14
8	M8	Y	-13.105	-13.105	.003	7.069
9	M11	Y	-22.282	-12.487	0	2
10	M11	Y	-12.487	-2.692	2	4
11	M12	Y	-22.282	-12.487	0	2
12	M12	Y	-12.487	-2.692	2	4
13	M3	Y	-2.907	-6.887	0	2.333
14	M3	Y	-6.887	-11.921	2.333	4.667
15	M3	Y	-11.921	-14.965	4.667	7
16	M3	Y	-14.965	-11.921	7	9.333
17	M3	Y	-11.921	-6.887	9.333	11.667
18	M3	Y	-6.887	-2.907	11.667	14
19	M9	Y	-13.105	-13.105	.003	7.069
20	M10	Y	-22.282	-12.487	0	2
21	M10	Y	-12.487	-2.692	2	4
22	M1	Y	-.274	-7.922	0	2
23	M1	Y	-7.922	-12.647	2	4
24	M1	Y	-12.647	-11.663	4	6
25	M1	Y	-11.663	-11.663	6	8
26	M1	Y	-11.663	-12.647	8	10
27	M1	Y	-12.647	-7.922	10	12
28	M1	Y	-7.922	-.274	12	14
29	M7	Y	-13.105	-13.105	.003	7.069

### Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N16	N18	N10	N8	Y	Two Way	-.005
2	N18	N15	N9	N10	Y	Two Way	-.005
3	N15	N16	N8	N9	Y	Two Way	-.005

### Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N16	N18	N10	N8	Y	Two Way	-.013
2	N18	N15	N9	N10	Y	Two Way	-.013
3	N15	N16	N8	N9	Y	Two Way	-.013

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc.....	LC	phi*Pn...	phi*Pn...	phi*Mn...	phi*Mn...	Eqn
1	M1	L3X3X4	.477	3.354	7	.299	7 y	1	15778...	46656	1.688	2.585	1...H2-1
2	M2	L3X3X4	.454	7	12	.306	7 y	5	15778...	46656	1.688	2.576	1...H2-1
3	M3	L3X3X4	.419	7	3	.274	7 y	9	15778...	46656	1.688	2.554	1...H2-1



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

	Member	Shape	Code Check	Loc(ft)	LC	Shear Check	Loc.....	LC	phi*Pn...	phi*Pn...	phi*Mn...	phi*Mn.....	Eqn
4	M4	C5.25x4X...	.294	.419	23	.135	.389 z	16	13587...	151875	12.325	24.87 2...	H1-1b
5	M5	C5.25x4X...	.296	.419	24	.138	.389 z	20	13587...	151875	12.325	24.87 1...	H1-1b
6	M6	C5.25x4X...	.282	.419	16	.131	.389 z	14	13587...	151875	12.325	24.87 1...	H1-1b
7	M7	L3X3X4	.354	3.462	10	.017	3.536 z	18	15459...	46656	1.688	3.201 1...	H2-1
8	M8	L3X3X4	.364	3.462	2	.018	3.536 z	21	15459...	46656	1.688	3.196 1...	H2-1
9	M9	L3X3X4	.370	3.462	6	.017	3.536 z	13	15459...	46656	1.688	3.196 1...	H2-1
10	M10	LL3x3x4x0	.100	4	3	.015	0 y	34	76288...	93312	6.48	4.357 1...	H1-1b
11	M11	LL3x3x4x0	.124	4	7	.011	0 z	6	76288...	93312	6.48	4.357 1...	H1-1b
12	M12	LL3x3x4x0	.111	4	6	.009	0 z	10	76288...	93312	6.48	4.357 1...	H1-1b
13	MP1A	PIPE_2.0	.298	6.052	18	.138	5.104	7	17855...	32130	1.872	1.872 3...	H1-1b
14	MP2A	PIPE_2.0	.482	5.104	7	.142	5.104	6	17855...	32130	1.872	1.872 2...	H1-1b
15	MP3A	PIPE_2.0	.306	5.104	5	.166	5.104	7	17855...	32130	1.872	1.872 3...	H1-1b
16	MP4A	PIPE_2.0	.238	5.104	5	.119	5.104	8	17855...	32130	1.872	1.872 3...	H1-1b
17	MP1B	PIPE_2.0	.305	6.052	22	.136	5.104	11	17855...	32130	1.872	1.872 3...	H1-1b
18	MP2B	PIPE_2.0	.521	5.104	11	.122	5.104	10	17855...	32130	1.872	1.872 1...	H1-1b
19	MP3B	PIPE_2.0	.321	5.104	8	.155	5.104	11	17855...	32130	1.872	1.872 2...	H1-1b
20	MP4B	PIPE_2.0	.246	5.104	8	.118	5.104	12	17855...	32130	1.872	1.872 2...	H1-1b
21	MP1C	PIPE_2.0	.306	6.052	14	.140	6.052	15	17855...	32130	1.872	1.872 2...	H1-1b
22	MP2C	PIPE_2.0	.508	5.104	3	.123	5.104	2	17855...	32130	1.872	1.872 1...	H1-1b
23	MP3C	PIPE_2.0	.301	5.104	12	.141	5.104	18	17855...	32130	1.872	1.872 4...	H1-1b
24	MP4C	PIPE_2.0	.238	5.104	29	.114	5.104	28	17855...	32130	1.872	1.872 2...	H1-1b
25	M25	PIPE_2.0	.229	6.906	5	.155	11.51	7	5820.4...	32130	1.872	1.872 1...	H1-1b
26	M26	PIPE_2.0	.226	7.042	1	.142	11.51	5	5820.4...	32130	1.872	1.872 2...	H1-1b
27	M27	PIPE_2.0	.242	11.375	6	.143	2.844	3	5820.4...	32130	1.872	1.872 1...	H1-1b
28	M28	L3X3X4	.210	1.567	1	.038	.049 y	6	44186...	46656	1.688	3.756 2...	H2-1
29	M29	L3X3X4	.219	1.567	5	.033	0 y	10	44186...	46656	1.688	3.756 2...	H2-1
30	M30	L3X3X4	.214	0	7	.031	0 y	2	44186...	46656	1.688	3.756 2...	H2-1
31	M67	PIPE_2.0	.385	10.021	18	.170	2.979	21	5820.4...	32130	1.872	1.872 2...	H1-1b
32	M68	PIPE_2.0	.386	10.021	22	.166	2.979	13	5820.4...	32130	1.872	1.872 2...	H1-1b
33	M69	PIPE_2.0	.386	12.187	14	.159	2.979	17	5820.4...	32130	1.872	1.872 2...	H1-1b
34	M91	L2.5x2.5x4	.175	2.218	20	.012	4.951 z	12	17325...	38556	1.114	2.248 1...	H2-1
35	M92	L2.5x2.5x4	.145	2.218	18	.009	4.951 z	13	17325...	38556	1.114	2.248 1...	H2-1
36	M93	L2.5x2.5x4	.146	2.218	22	.010	4.951 z	18	17325...	38556	1.114	2.248 1...	H2-1
37	M94	L2.5x2.5x4	.170	2.218	24	.012	4.951 z	4	17325...	38556	1.114	2.248 1...	H2-1
38	M95	L2.5x2.5x4	.144	2.218	14	.009	4.951 z	22	17325...	38556	1.114	2.248 1...	H2-1
39	M96	L2.5x2.5x4	.162	2.218	16	.011	4.951 z	8	17325...	38556	1.114	2.248 1...	H2-1
40	M88	L3X3X4	.258	1.567	23	.026	1.567 y	23	44186...	46656	1.688	3.756 1...	H2-1
41	M89	L3X3X4	.258	1.567	15	.026	1.567 y	15	44186...	46656	1.688	3.756 1...	H2-1
42	M90	L3X3X4	.251	1.567	19	.036	1.567 y	31	44186...	46656	1.688	3.756 1...	H2-1

### 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	N2	max	4066.992	5	-2290.931	10	1.746	11	0	51	0	51	0	51
2		min	-4492.877	11	-7867.837	16	-1.746	5	0	1	0	1	0	1
3	N6	max	2087.493	7	-2173.236	6	3612.152	7	0	51	0	51	0	51
4		min	-1898.162	1	-7640.975	14	-3284.221	1	0	1	0	1	0	1
5	N4	max	2175.578	3	-2220.077	1	3541.588	9	0	51	0	51	0	51
6		min	-2042.721	9	-8031.229	20	-3771.703	3	0	1	0	1	0	1
7	N3	max	7428.405	11	9503.062	16	1376.975	1	0	51	0	51	0	51
8		min	-6929.243	5	2806.119	10	-1828.305	7	0	1	0	1	0	1
9	N7	max	3352.672	11	9242.195	24	6178.498	1	0	51	0	51	0	51
10		min	-3918.392	5	2665.637	6	-6355.701	7	0	1	0	1	0	1
11	N5	max	4188.137	9	9712.527	19	6489.153	1	0	51	0	51	0	51
12		min	-3958.659	3	2690.598	1	-6087.01	7	0	1	0	1	0	1
13	N160	max	568.854	4	1804.36	19	2479.578	19	0	51	0	51	0	51

### Envelope Joint Reactions (Continued)

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
14		min	-781.128	10	-100.336	1	-132.943	1	0	1	0	1	0	1
15	N163	max	2161.371	16	1708.694	15	399.263	7	0	51	0	51	0	51
16		min	-150.305	10	-63.571	9	-1072.053	13	0	1	0	1	0	1
17	N166	max	153.753	5	1774.122	23	417.369	7	0	51	0	51	0	51
18		min	-1972.619	23	-115.065	5	-1555.949	13	0	1	0	1	0	1
19	Totals:	max	4629.026	10	9667.907	14	4841.681	1						
20		min	-4629.029	4	3251.867	8	-4841.691	7						





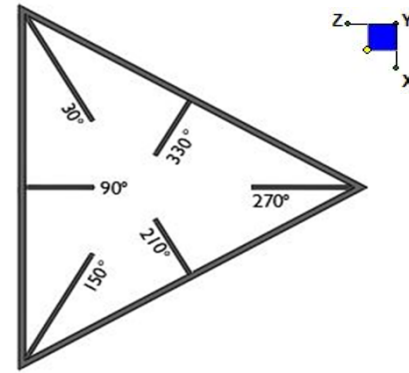
Client:	Verizon Wireless	Date:	6/21/2021
Site Name:	MANSFIELD NORTH CT		
Project No.	21777463A		
Title:	Mount Analysis	Page:	1

Version 3.1

## I. Mount-to-Tower Connection Check

### RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N2	90
N3	90
N4	330
N5	330
N6	210
N7	210



TYPICAL PLATFORM

### Tower Connection Bolt Checks

Any moment resistance?:

Bolt Quantity per Reaction:

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

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

Bolt Type:

Bolt Diameter (in):

Required Tensile Strength (kips):

Required Shear Strength (kips):

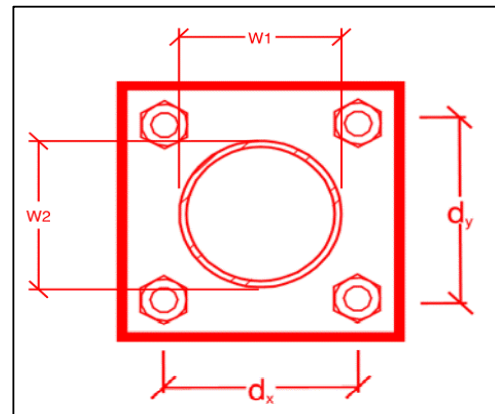
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

no
1
5
0
A325N
1
10.9
7.3
53.0
31.8
20.7%*
22.8%



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

# Mount Desktop – Post Modification Inspection (PMI) Report Requirements

## Documents & Photos Required from Contractor – Mount Modification

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**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	<hr/>
Name	<hr/>
Signature	<hr/>

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

### Issue:

Contractor to ensure the proposed and existing mount connections do not nor will not interfere with the safety climb wire rope. Contractor to install safety climb wire rope guides as necessary.

**Response:**

--

## **Schedule A – Photo & Document File Structure**



VzW Site Number / Name



Base & “During Installation” Photos



Pre-Installation Photos



Alpha



Beta



Gamma



Ground Level



Tape Drop



Post-Installation Photos



Alpha



Beta



Gamma



Ground Level



Tape Drop



Photos of climbing facility and safety climb – If Present



Certifications – Submission of this document including certifications

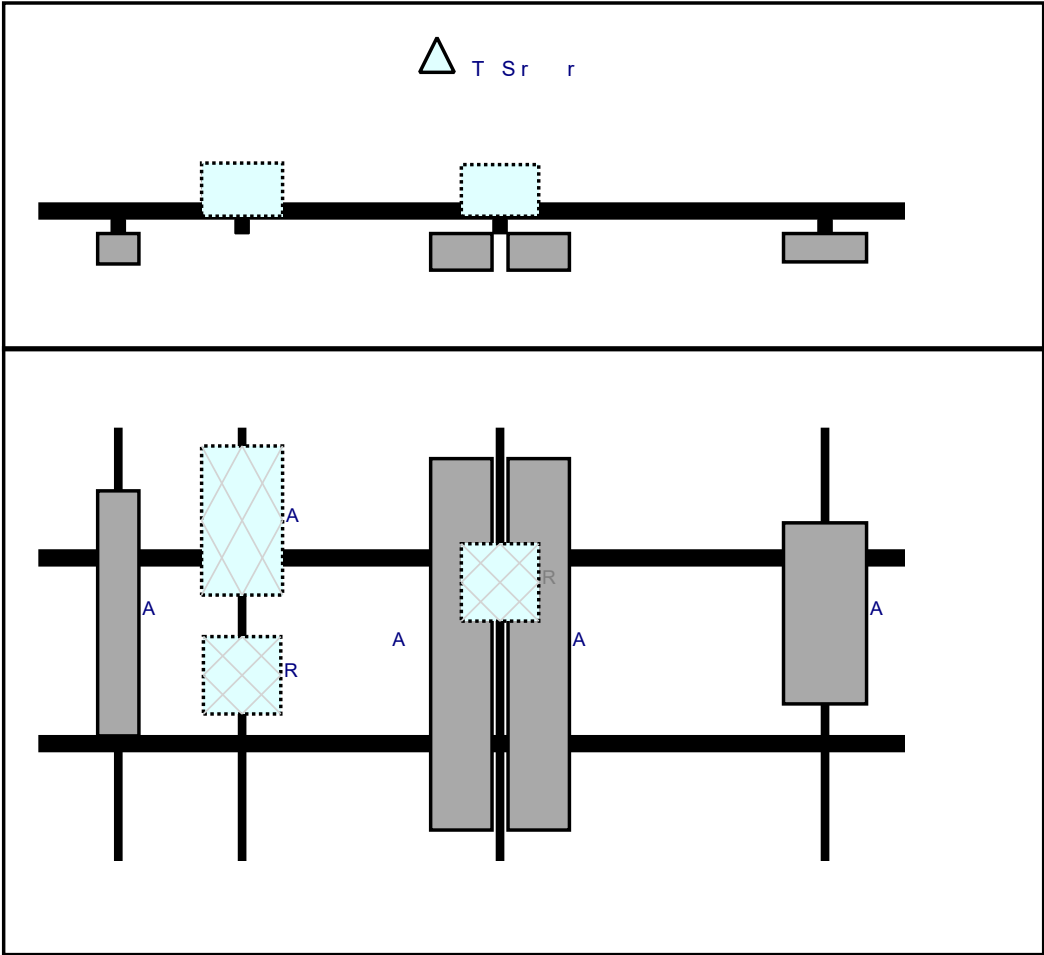


Specific Required Additional Photos

S r A  
Sr r T M  
M E .

P

Plan View



Front View

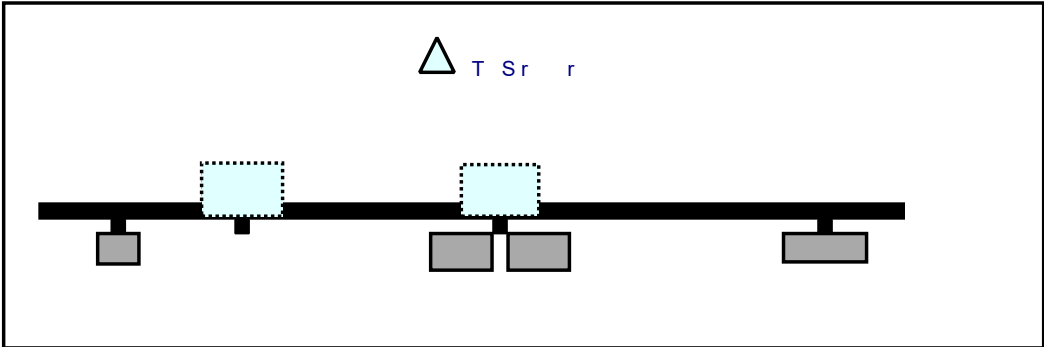
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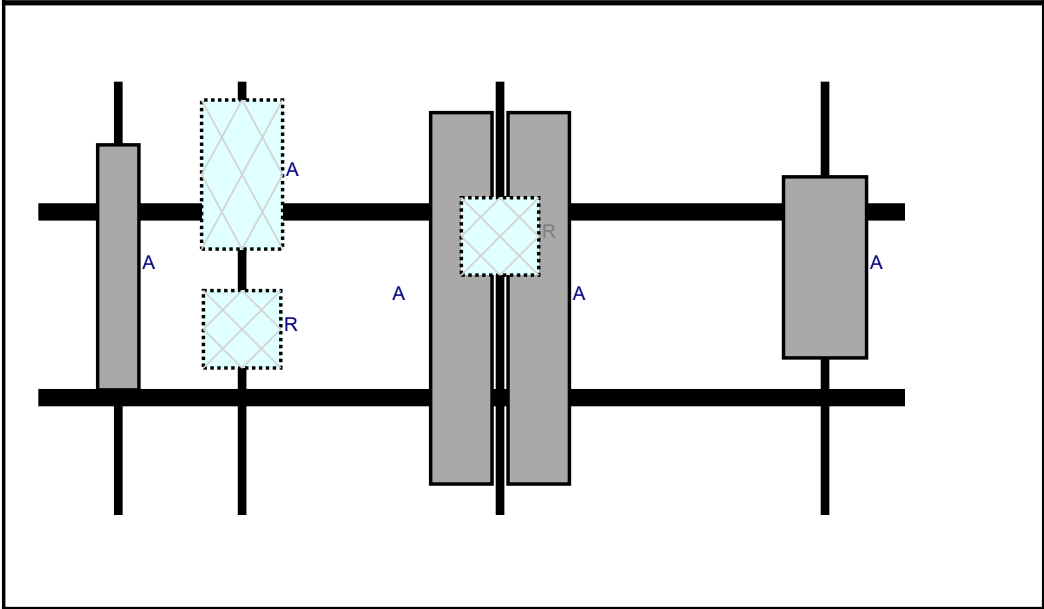
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Plan View



Front View

L Sr r

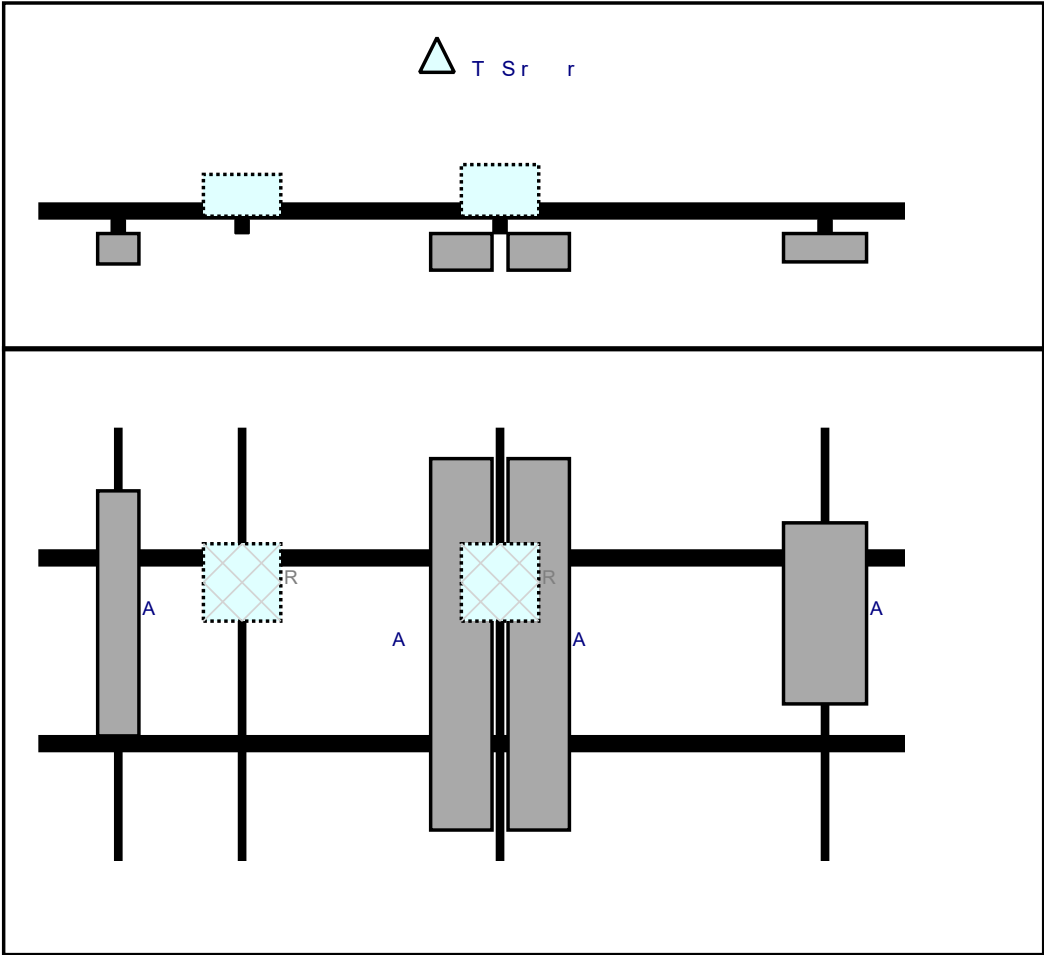


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S r C  
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M E .

P

Plan View



Front View

L Sr r

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# Maser Consulting Connecticut

**Subject**

TIA-222-H Usage

**Site Information**

Site ID: 468088-VZW / MANSFIELD NORTH CT

Site Name: MANSFIELD NORTH CT

Carrier Name: Verizon Wireless

Address: 1725 Stafford Rd  
Mansfield, Connecticut 06268  
Tolland County

Latitude: 41.836000°

Longitude: -72.307611°

**Structure Information**

Tower Type: 170-ft Monopole

Mount Type: 14.00-ft Platform

To Whom It May Concern,

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

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

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



Derek Hartzell, PE  
Technical Specialist

## PROJECT NOTES

- I. 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).

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---



1725 STAFFORD RD  
MANSFIELD, CT 06268  
TOLLAND COUNTY

## PROJECT INFORMATION

## SITE INFORMATION

LATITUDE: 41.836° N  
LONGITUDE: 72.307611° W  
JURISDICTION: TOLLAND COUNTY

## APPLICANT/LESSEE

COMPANY: VERIZON WIRELESS

CLIENT REPRESENTATIVE

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

PROJECT MANAGER

COMPANY: MASER CONSULTING CONNECTICUT  
CONTACT: PETER ALBANO  
PHONE: 856-797-0412  
E-MAIL: [PETER.ALBANO@COLLIERSENGINEERING.COM](mailto:PETER.ALBANO@COLLIERSENGINEERING.COM)

SHEET INDEX

[illegible]

CONTRACTOR PMI REQUIREMENTS

PMI LOCATION:	<a href="https://pmi.vzwsmart.com">HTTPS://PMI.VZWSMART.COM</a>
SMART TOOL PROJECT #:	10069740
VZW LOCATION CODE (PSLC):	468088
FUZE ID:	16272196

## REFERENCED DOCUMENTS

Failing Mount Analysis Report	
Smart Tool Project #:	10050433
Maser Consulting Connecticut Project #:	21777463A
Analysis Date:	5/7/2021

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT



SCALE :	JOB NUMBER :
AS SHOWN	21777463A

-	-	-	-	-
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REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY

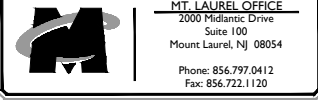
32710  
Derek R. Hartzell  
Professional Engineer  
License Number: 12710  
MASER CONSULTING  
C.T. C.O.A. # JES0000131  
Digitally signed by Derek R. Hartzell  
Date: 2021.06.25 11:32:48-04'00'

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ENGINEER, TO ALTER THIS DOCUMENT.

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468088

1725 STAFFORD RD  
MANSFIELD, CT 06268  
TOLLAND COUNTY



SHEET TITLE :

TITLE SHEET

SHEET NUMBER :

T-1

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BILL OF MATERIALS				
VZWSMART KITS				
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
6	VZWSMART	VZWSMART-PLK3	SUPPORT RAIL CORNER BRACKET	
24		VZWSMART-MSK I	CROSSOVER PLATE	
OTHER REQUIRED PARTS				
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
6	-	-	156" LONG, P2.0 STD	GALVANIZED
6	-	-	24" LONG, L3x3x1/4	GALVANIZED
-	-	-	1/2" DIA. A325N BOLT	
-	-	-	1/2" DIA. U-BOLT	
1	SITE PRO I	PRK-SFS	SUPPORT RAIL REINFORCEMENT KIT	OR EOR APPROVED EQUAL, CONTACT MASER CONSULTING CONNECTICUT FOR APPROVAL OF SUBSTITUTION

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

VZWSMART KITS - APPROVED VENDORS	
COMMSCOPE	
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSSALES@PERFECT-VISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM
SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

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



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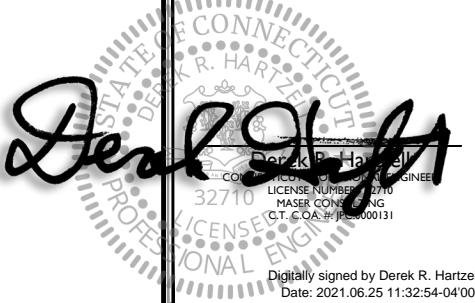
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REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	6/24/2021	ISSUED FOR CONSTRUCTION	MSG	DRH



**Derek R. Hartzell**  
Professional Engineer  
License Number: 32710  
Maser Consulting  
C.T. C.O.A.#: JEL000131


Digitally signed by Derek R. Hartzell  
Date: 2021.06.25 11:32:54-04'00'

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OF THE RESPONSIBLE LICENSED PROFESSIONAL  
ENGINEER, TO ALTER THIS DOCUMENT.

**SITE NAME:**

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468088**

**1725 STAFFORD RD  
MANSFIELD, CT 06268  
TOLLAND COUNTY**



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

Phone: 856.797.0412  
Fax: 856.722.1120

SHEET TITLE:

**BILL OF MATERIALS**

SHEET NUMBER:

**S-1**

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

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 = 119 MPH

b. EXPOSURE CATEGORY B

c. TOPOGRAPHIC CATEGORY I

d. MEAN BASE ELEVATION (AMSL) = 361.27'

ICE LOADS

- a. ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
- b. ICE THICKNESS = 1.50 IN

SEISMIC LOADS

- a. SEISMIC DESIGN CATEGORY B
- b. SHORT TERM MCER GROUND MOTION, S<sub>g</sub> = .184
- c. LONG TERM MCER GROUND MOTION, S<sub>g</sub> = .055

STRUCTURAL STEEL

1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.

a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)

b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS

c. AISC CODE OF STANDARD PRACTICE
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:
- CHANNELS, ANGLES, PLATES, ETC.     ASTM A36 (GR 36)

STEEL PIPE                                 ASTM A53 (GR 35)

BOLTS                                         ASTM A325

NUTS                                         ASTM A563

LOCK WASHERS                             LOCKING STRUCTURAL GRADE
3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

a. SUBMIT SHOP DRAWINGS TO  
PETER.ALBANO@COLLIERSENGINEERING.COM

b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL

5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
9. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
10. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
11. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
12. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
13. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO

PROTECT STEEL BY ANY OTHER MEANS.

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



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0	6/24/2021	ISSUED FOR CONSTRUCTION	HSG	DRH	
REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY	



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Date: 2021.06.25 11:32:54-04'00'

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TOLLAND COUNTY



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2000 Pridmore 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.



MODIFICATION INSPECTION NOTES

MI CHECKLIST

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

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

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

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

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

MI INSPECTOR

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

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

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

GENERAL CONTRACTOR

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

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

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

RECOMMENDATIONS

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

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

CORRECTION OF FAILING MI'S

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

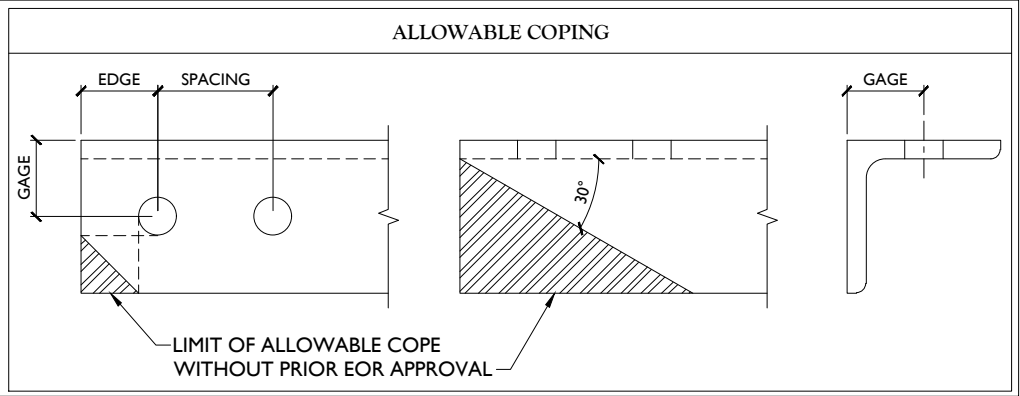
- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.

REQUIRED PHOTOS

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

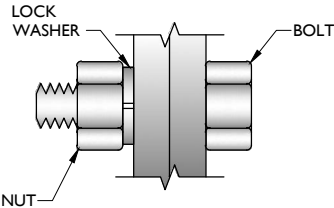
- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
  - RAW MATERIALS
  - PHOTOS OF ALL CRITICAL DETAILS
  - FOUNDATION MODIFICATIONS
  - WELD PREPARATION
  - BOLT INSTALLATION
  - FINAL INSTALLED CONDITION
  - SURFACE COATING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

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



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

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



TYP. BOLT ASSEMBLY

NOTES:

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

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REV	DATE	DESCRIPTION	DRAWN BY CHECKED BY

Derek R. Hartzell  
Professional Engineer  
License Number: 32710  
Maser Consulting  
C.T. C.O.A.#: JEL20000131

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Date: 2021.06.25 11:32:55-04'00'

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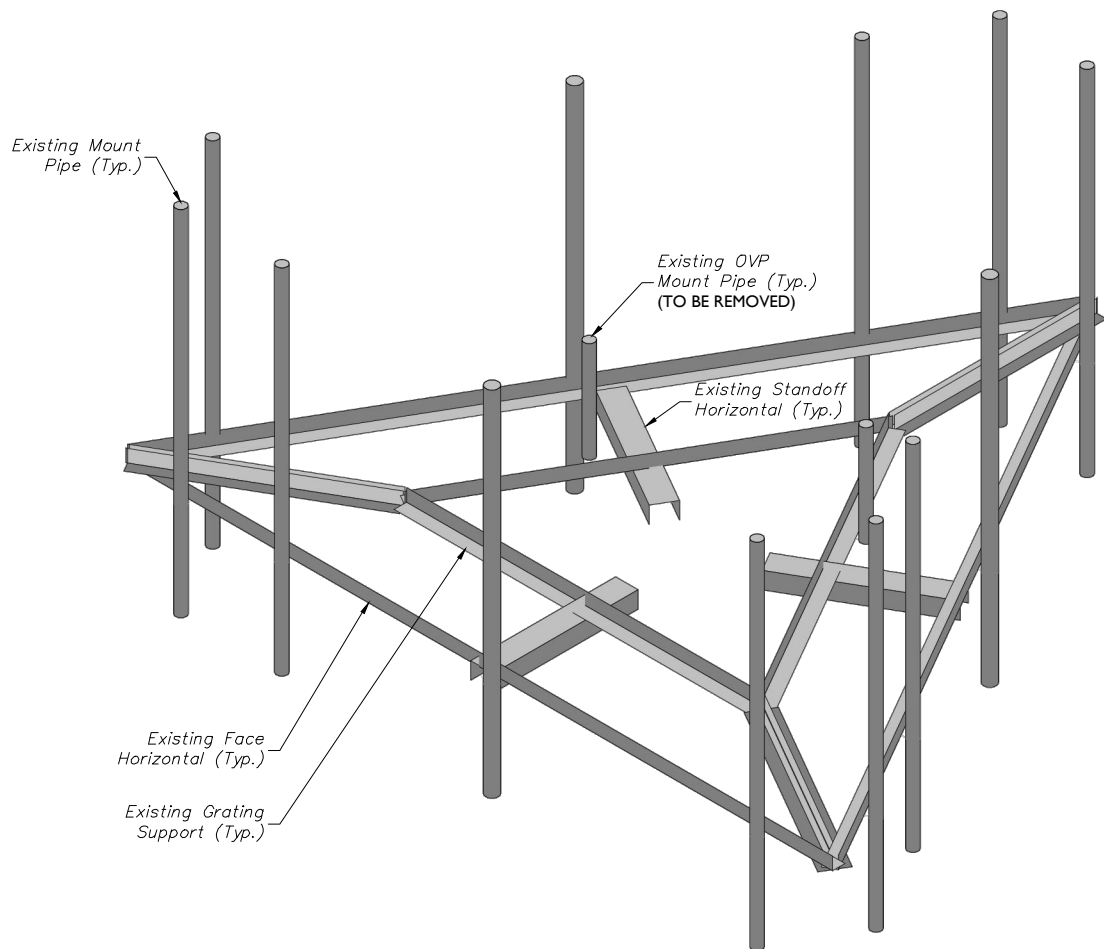
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MODIFICATION NOTES

S-3

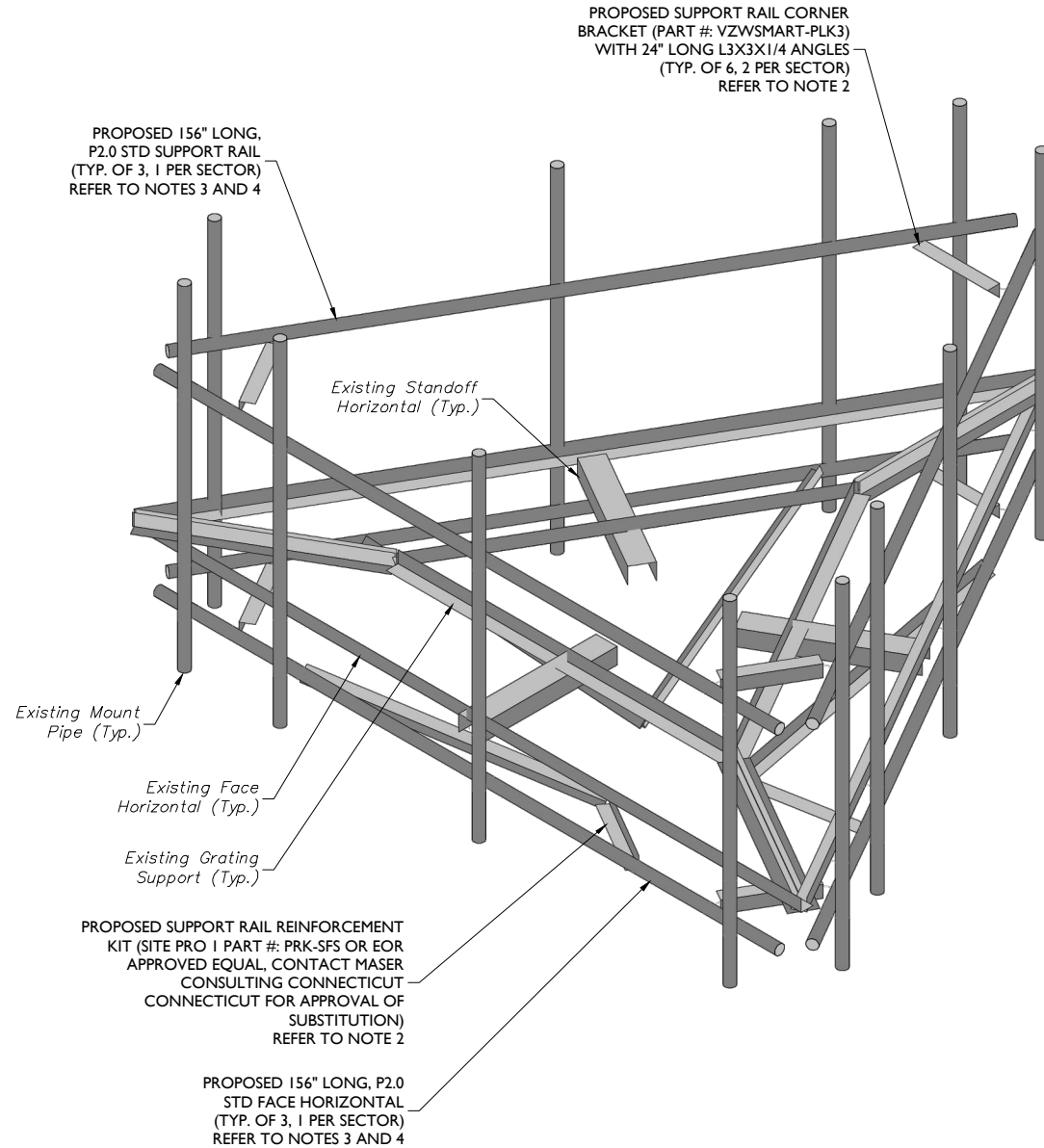
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1 EXISTING PLATFORM ISOMETRIC VIEW  
SCALE : N.T.S.

STRUCTURAL NOTES:

- PER THE MOUNT MAPPING COMPLETED BY RKS DESIGN & ENGINEERING LLC ON 3/29/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (168'-0") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
- INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.



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

MODIFICATION NOTES:

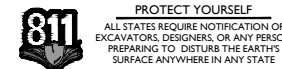
- MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
- CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
- RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
- CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).
- CONNECT NEW L6X6X3/8 CLIP ANGLE TO FACE HORIZONTAL WITH (2) 1/2" DIA. A325N BOLTS AND TO EXISTING MOUNT PIPE WITH (2) 1/2" DIA. U-BOLTS.
- ALL NEW BOLTS HOLES SHALL BE PREPARED PER THE BOLT SCHEDULE ON SHEET S-3 UNLESS NOTED OTHERWISE.



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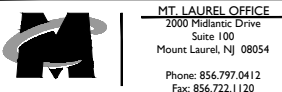
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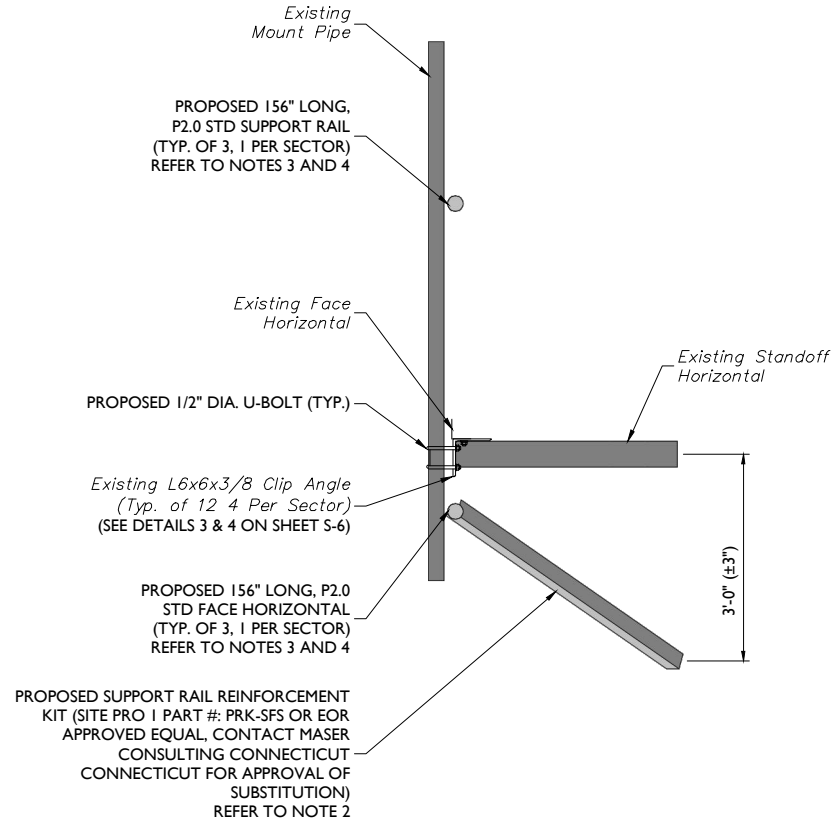
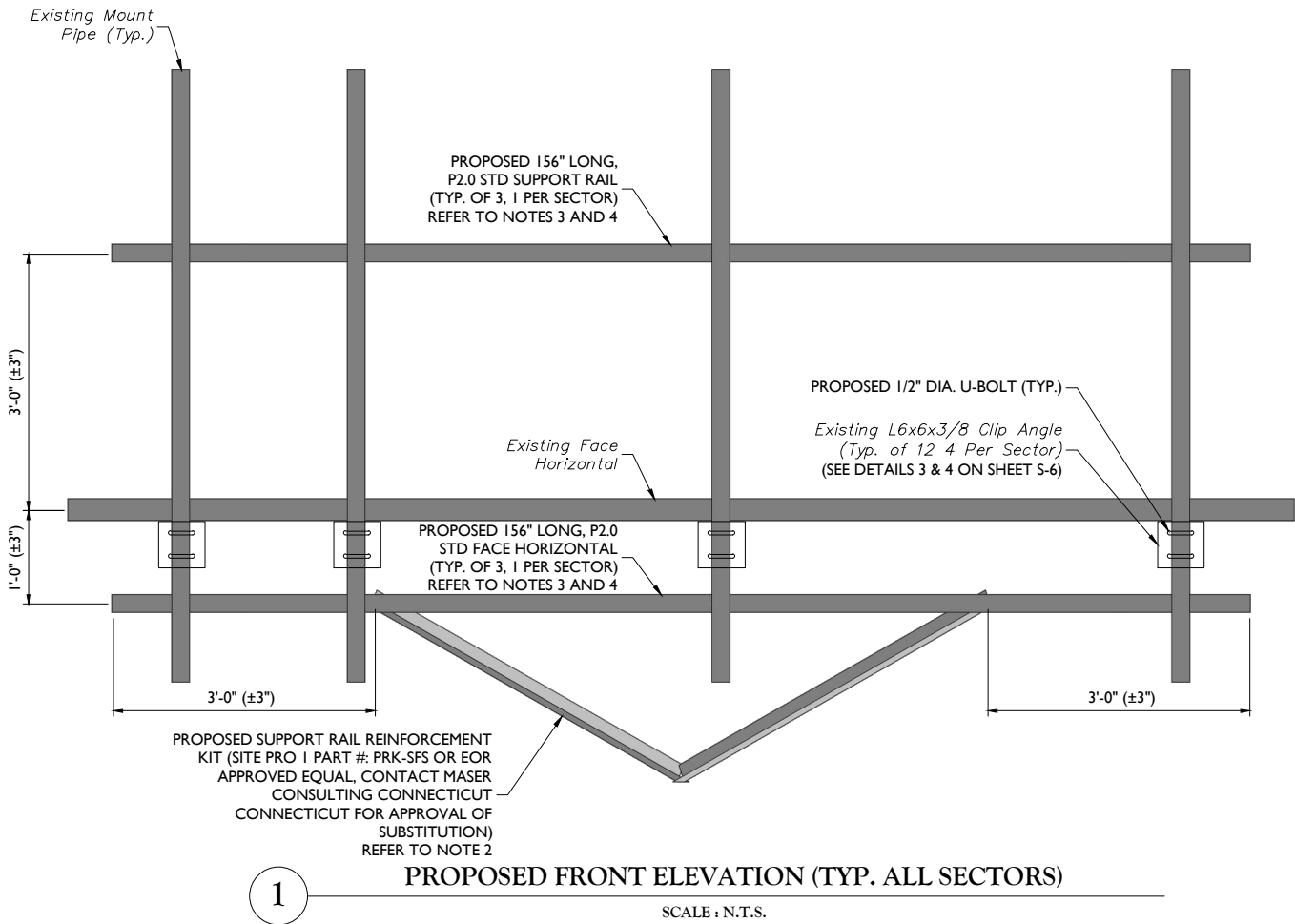
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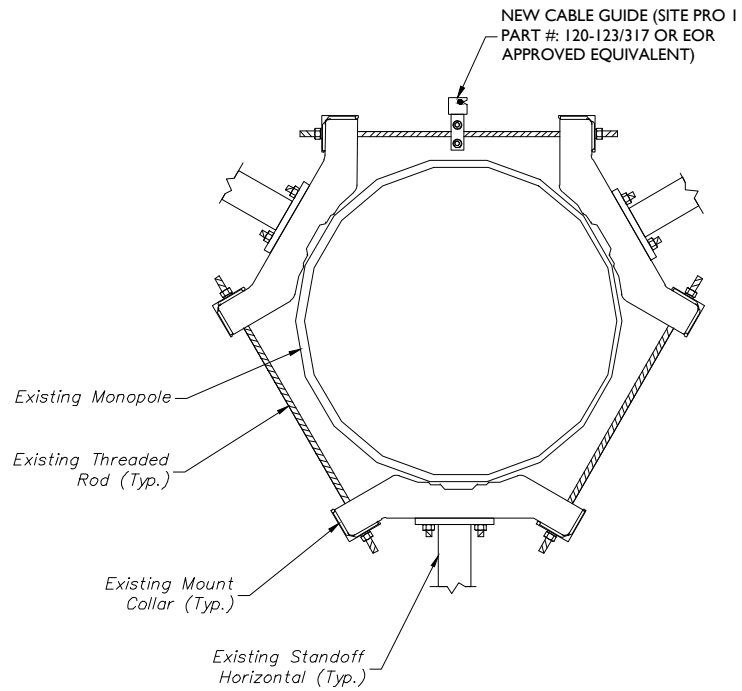


SHEET TITLE:  
MODIFICATION DETAILS

SHEET NUMBER:  
S-4



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



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

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
3. RADIO AND/OR 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.
4. CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK I).
5. CONNECT NEW L6X6X3/8 CLIP ANGLE TO FACE HORIZONTAL WITH (2) 1/2" DIA. A325N BOLTS AND TO EXISTING MOUNT PIPE WITH (2) 1/2" DIA. U-BOLTS.
6. ALL NEW BOLTS HOLES SHALL BE PREPARED PER THE BOLT SCHEDULE ON SHEET S-3 UNLESS NOTED OTHERWISE.

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Professional Engineer  
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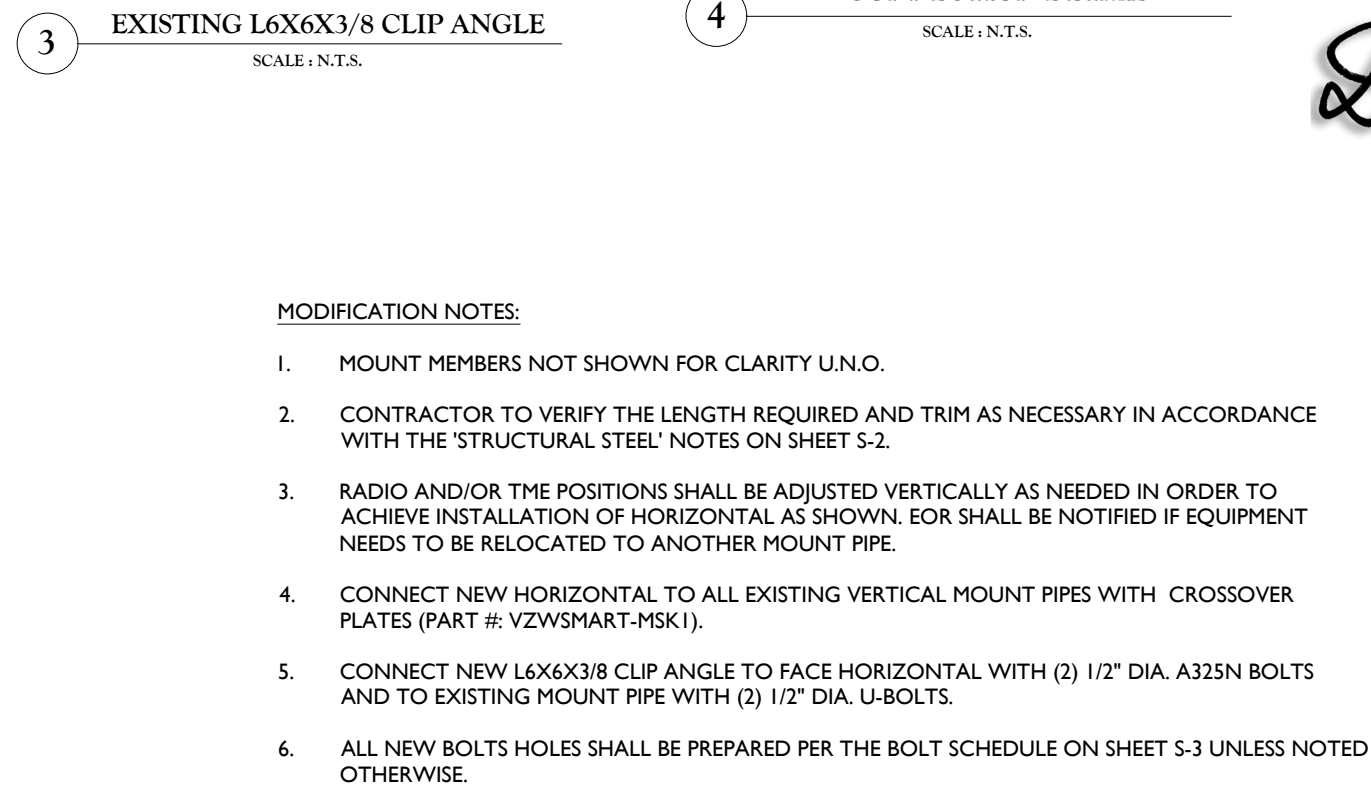
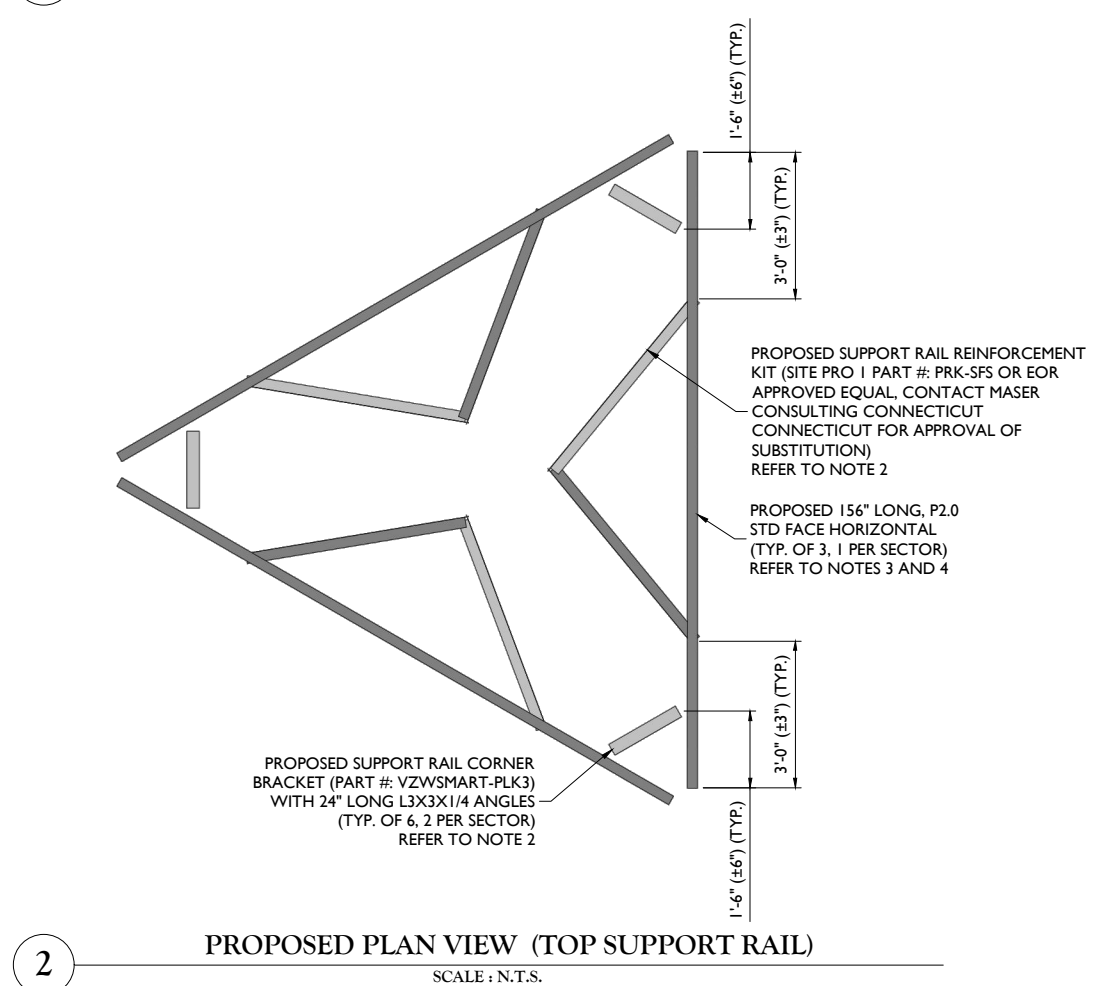
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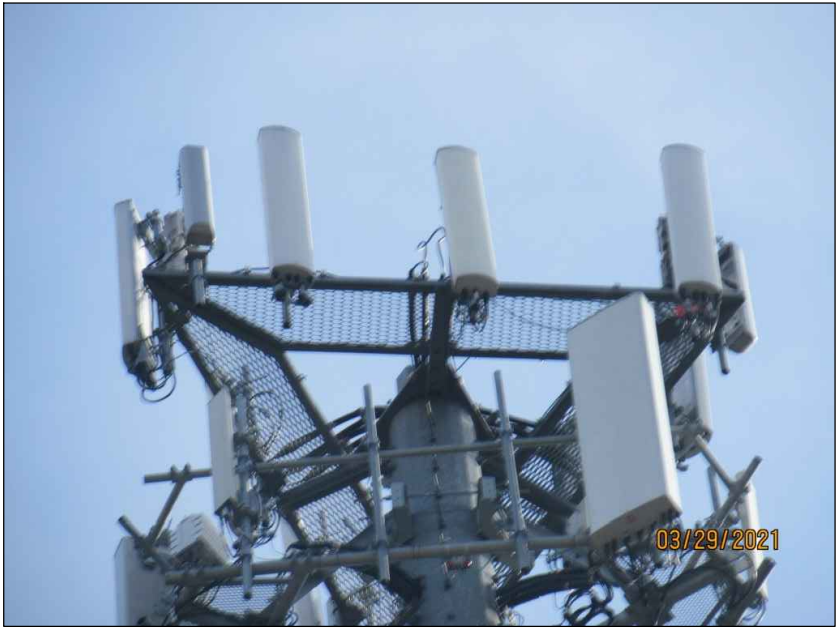




SHEET NUMBER : S-6

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MOUNT PHOTO 1



MOUNT PHOTO 2



MOUNT PHOTO 3



MOUNT PHOTO 4



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Derek R. Hartzell

Professional Engineer

32710

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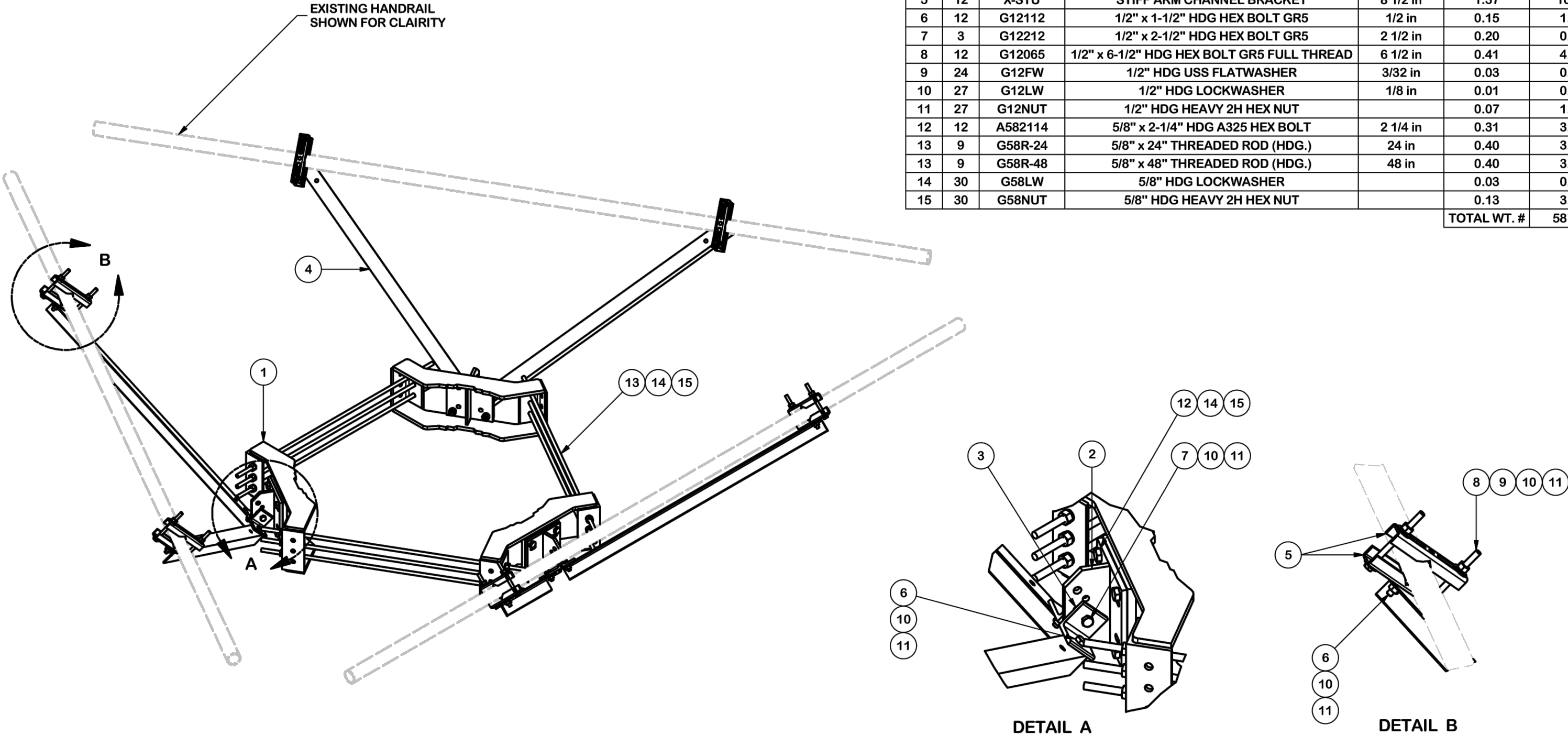
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MOUNT PHOTOS

SHEET NUMBER:  
S-7

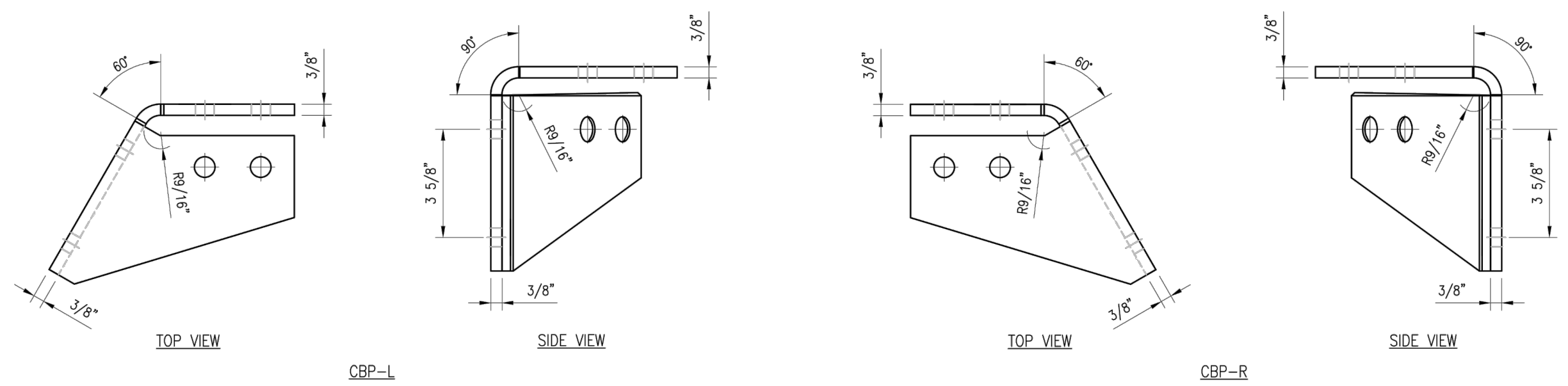
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\\nas011\1190416088 MANSFIELD NORTH CT\_HorshuDrive.dwg PLS 20210623.dwg 27 By: MDA/MAT

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-LWRM	RING MOUNT WELDMENT		68.81	206.42
2	3	X-TBW	T-BRACKET WELDMENT		13.60	40.80
3	6	SHCM-T	CHAIN MOUNT TIGHTENER BRACKET	3 in	1.86	11.15
4	6	X-232697	TRPD-HD DIAGONAL ANGLE - SITE PRO 1	52 1/2 in	14.35	86.08
5	12	X-STU	STIFF ARM CHANNEL BRACKET	8 1/2 in	1.37	16.46
6	12	G12112	1/2" x 1-1/2" HDG HEX BOLT GR5	1/2 in	0.15	1.77
7	3	G12212	1/2" x 2-1/2" HDG HEX BOLT GR5	2 1/2 in	0.20	0.61
8	12	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	4.91
9	24	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.82
10	27	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.38
11	27	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	1.93
12	12	A582114	5/8" x 2-1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	3.75
13	9	G58R-24	5/8" x 24" THREADED ROD (HDG.)	24 in	0.40	3.59
13	9	G58R-48	5/8" x 48" THREADED ROD (HDG.)	48 in	0.40	3.59
14	30	G58LW	5/8" HDG LOCKWASHER		0.03	0.78
15	30	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	3.90
					TOTAL WT. #	587.71



					<div>TOLERANCE NOTES</div> <div>TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES (± 0.030") DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES BENDS ARE ± 1/2 DEGREE ALL OTHER MACHINING (± 0.030") ALL OTHER ASSEMBLY (± 0.060")</div>			<div>DESCRIPTION</div> <div>HANDRAIL REINFORCEMENT KIT</div>			<div><div><div><div>SITE PRO</div><div>1</div></div><div>A valmont COMPANY</div></div><div>Engineering Support Team: 1-888-753-7446</div><div>Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX</div></div>		
A	CHANGED MAX. DIA. FOR HANDRAIL CONNECTION	SP1	BC	10/23/2017				CPD NO. SP1	DRAWN BY CSL3 2/23/2017	ENG. APPROVAL 3RD PARTY	PART NO. PRK-SFS	PAGE 1 OF 3	
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE	PROPRIETARY NOTE: THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.			CLASS 81	SUB 02	DRAWING USAGE SHOP	CHECKED BY BMC 3/16/2017		DWG. NO. PRK-SFS
REVISION HISTORY													



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

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

DRAWN BY: H.R		CHECKED BY: HMA	
REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	H.R	05/08/20
SHEET TITLE:			
VZSMART-PLK3 SUPPORT RAIL CORNER BRACKET			
SHEET NUMBER:		REV #:	
VZSMART-PLK3		0	





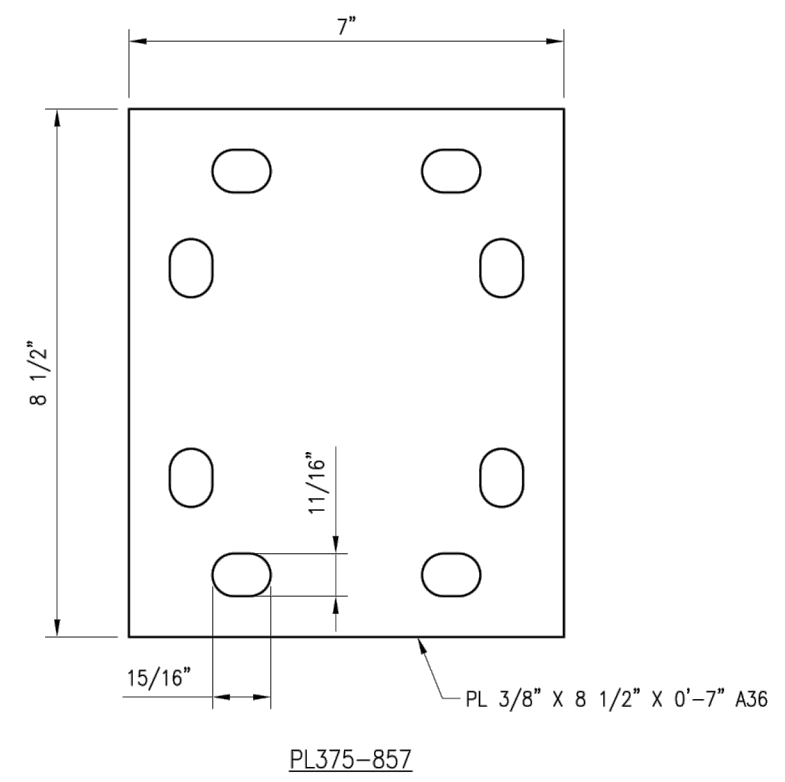
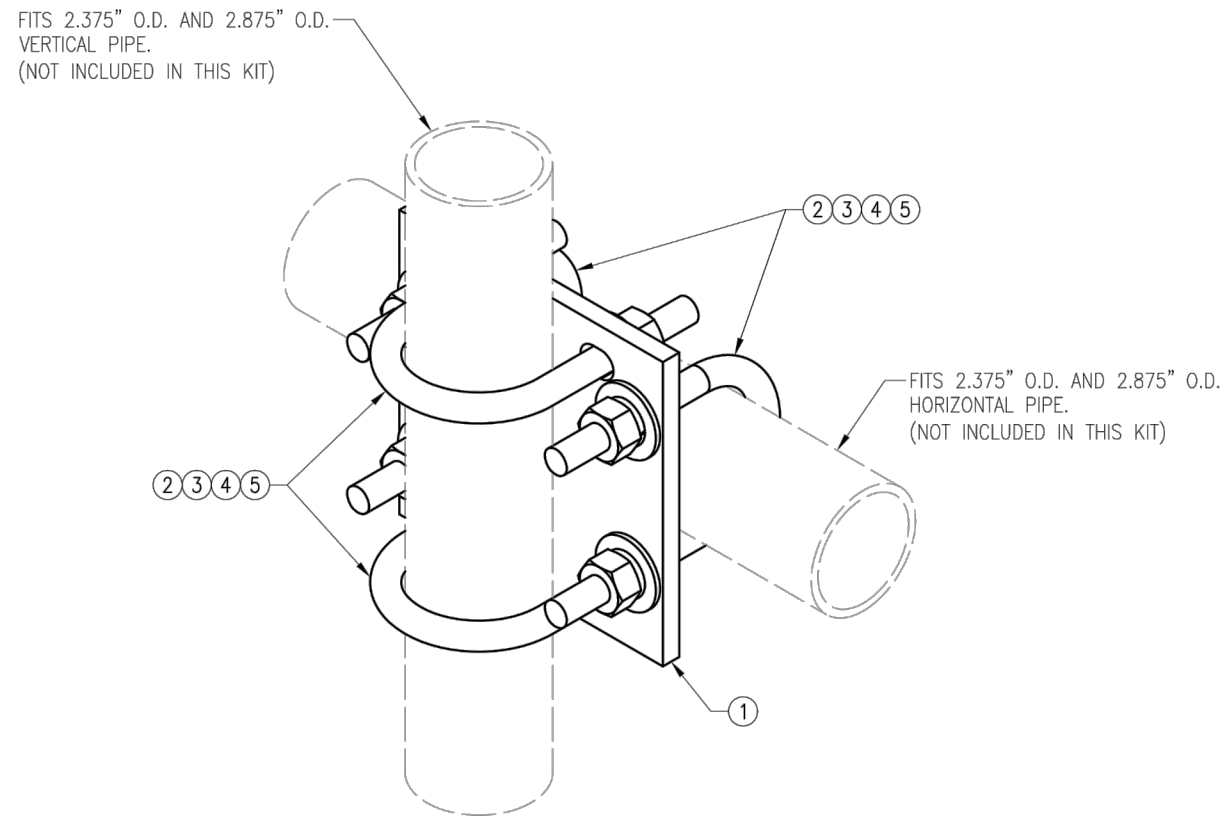
DRAWN BY: H.R.      CHECKED BY: HMA

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

VZWSMART-MSK1  
CROSSOVER PLATE

SHEET NUMBER:	REV #:
VZWSMART-MSK1	0



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

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

Site Name: **MANSFIELD NORTH 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	641	2564	170	0.0032	0.5007	0.64%
VZW CDMA	869	2	379	758	170	0.0009	0.5793	0.16%
VZW Cellular	869	4	690	2760	170	0.0034	0.5793	0.59%
VZW PCS	1980	4	1466	5864	170	0.0073	1.0000	0.73%
VZW AWS	2125	4	1626	6504	170	0.0081	1.0000	0.81%
VZW CBAND	3730	4	6531	26124	170	0.0325	1.0000	3.25%
Total Percentage of Maximum Permissible Exposure								6.18%

\*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

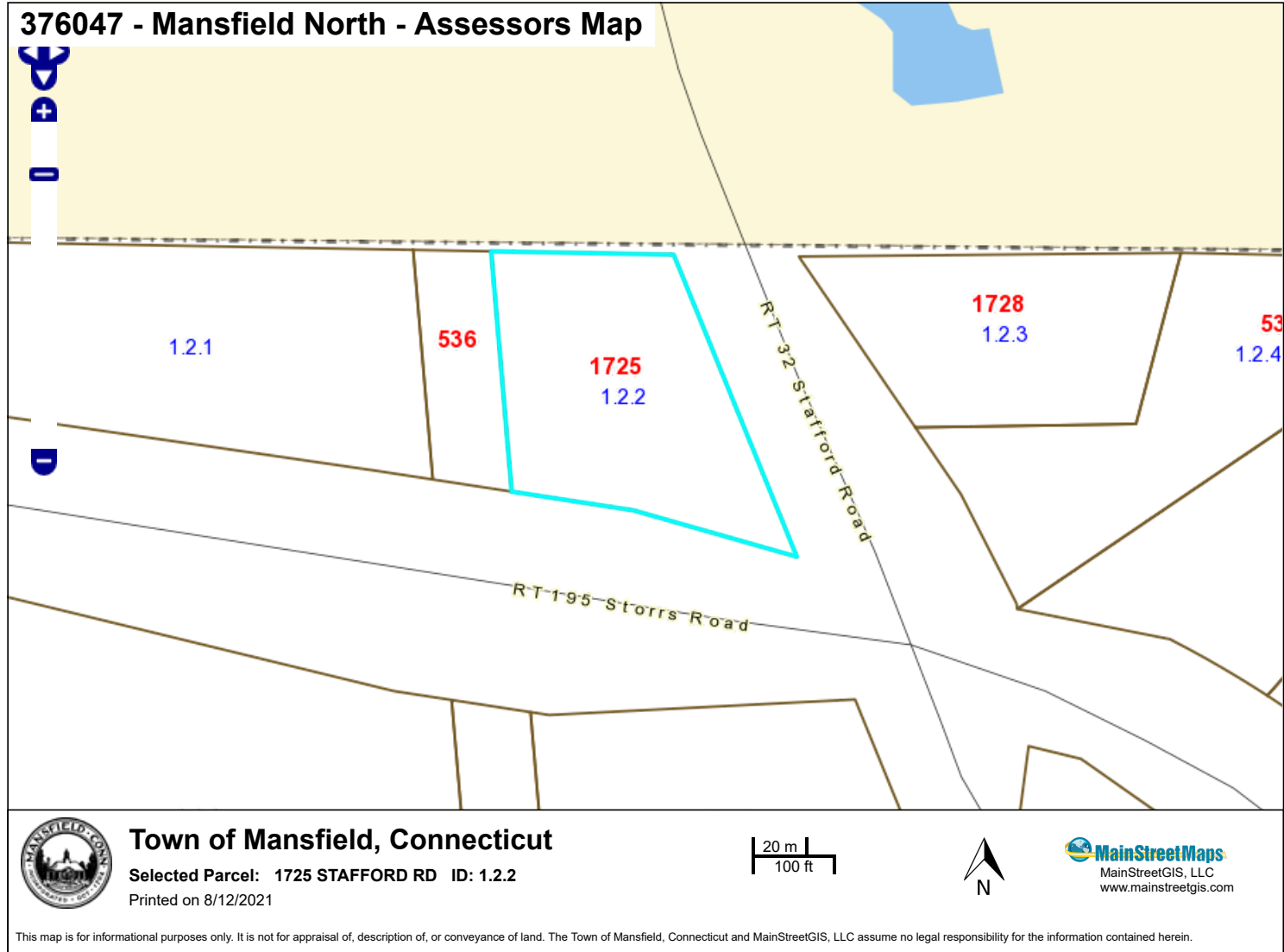
\*\*Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

MHz = Megahertz

mW/cm^2 = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.



CURRENT OWNER				TOPO		UTILITIES		STRT / ROAD		LOCATION		CURRENT ASSESSMENT						6078  MANSFIELD, CT  <b>VISION</b>							
MANSFIELD TOWN OF BUS GARAGE 4 SO EAGLEVILLE RD  STORRS MANS    CT        06268											Description	Code	Appraised	Assessed											
											Ex C Land	21	122,100	85,500											
											Ex C Bldg	22	208,600	146,100											
SUPPLEMENTAL DATA										Ex Com OB	25	10,100	7,100												
Alt Prcl ID Census Devel. Lot										Ind Land	3-1	129,600	90,700												
GIS ID        1.2.2										Assoc Pid#		Total				470,400	329,400								
RECORD OF OWNERSHIP				BK-VOL/PAGE		SALE DATE		Q/U		V/I		SALE PRICE		VC		PREVIOUS ASSESSMENTS (HISTORY)									
MANSFIELD TOWN OF SMYTH RICHARD E SMYTH RICHARD E & PROBATE CERTIFICATE SMYTH F EDWIN RHODA G+RICHARD				391	486	10-17-1997	U	I			0	00	Year	Code	Assessed	Year	Code	Assessed	Year	Code	Assessed				
				362	498	06-22-1995	U	I			55,817		2020	21	85,500	2019	21	85,500	2019	21	85,500				
				359	389	03-13-1995	U	I			0			22	146,100		22	146,100		22	146,100				
				350	479	05-06-1994	U	I			0			25	7,100		25	7,100		25	7,100				
				173	9	07-23-1979	U	I			0			3-1	90,700		3-1	90,700		3-1	90,700				
										Total		329,400	Total		329,400	Total		329,400							
EXEMPTIONS				OTHER ASSESSMENTS												This signature acknowledges a visit by a Data Collector or Assessor									
Year	Code	Description		Amount		Code	Description		Number		Amount		Comm Int												
Total				0.00																					
ASSESSING NEIGHBORHOOD																									
Nbhd		Nbhd Name				B		Tracing				Batch													
0001																									
NOTES																									
SURVEY V3 P113 4BAY BUS GARAGE						04/05/2012CO#11-12-203ADD ANTENNA&GROUND												Appraised Bldg. Value (Card)						203,500	
RHODA G SMITH&DAVID G PYTLIK,TRUSTEES OF						EQUIPMT-METRO PCS GTP-TOWER OWNER												Appraised Xf (B) Value (Bldg)						5,100	
THE F.EDWARD SMYTH RESIDUARY TRUST						3/1/2013-INSP-NO CELL EQP BLDS TOWN OWND												Appraised Ob (B) Value (Bldg)						10,100	
09/25/2003-BP#03-04-224 TCP COMMUN TOWER						02/03/2016-APRVL#15-16-98VERIZON3ANTENNA												Appraised Land Value (Bldg)						251,700	
7/16/2004-CO#03-04-704VERIZON ANTNA&SHED																		Special Land Value						0	
08/22/2011-APPVL#10-11-80ADD ENTRY DOOR																		Total Appraised Parcel Value						470,400	
																		Valuation Method						C	
																		Total Appraised Parcel Value						470,400	
BUILDING PERMIT RECORD																		VISIT / CHANGE HISTORY							
Permit Id		Issue Date		Type	Description		Amount		Insp Date		% Comp		Date Comp		Comments		Date		Id		Type	Is	Cd	Purpost/Result	
20-21-0623		03-17-2021		FRN	Furnace		4,515				0				OIL FURNACE AT BUS GARA		05-28-2019		WG				35	Field Review	
19-20-0717		06-03-2020		CM	Commercial		20,000				100		07-24-2020		ANTENNAS										
16-17-356		11-21-2016		EL	Electric		1,950				0				ELEC WIRING FOR INSTALL										
16-17-059		08-01-2016		RE	Remodel		3,500				0				REMOVE INTERIOR WALL &										
15-16-867		06-10-2016		RF	Roofing		33,560				0		07-11-2016		INSTALL RUBBER ROOF OV										
15-16-533		12-16-2015		CM	Commercial		20,000				100		05-25-2016		REPLACE 3 EXISTING ANDR										
15-16-098		07-29-2015		CM	Commercial		25,000				0		02-03-2016		ANTENNA INSTALLATION RE										
LAND LINE VALUATION SECTION																									
B	Use Code	Description		Zone	Land Type		Land Units		Unit Price		I. Factor		Site Index		Cond.	Nbhd.	Nbhd Adj	Notes		Location Adjustment		Adj Unit Pric		Land Value	
1	901	Town MDL-Com		NB1			1.000	AC	135,000	1.00000		5	1.00	C090	0.900							0	121,500	121,500	
1	9AC2	Excess Front					0.100	AC	6,000	1.00000		0	1.00		1.000							0	6,000	600	
1	350	Cell Tower					1.000	BL	129,600	1.00000		0	1.00		1.000	CELL SITE						0	129,600	129,600	
Total Card Land Units							1	AC	Parcel Total Land Area: 1							Total Land Value							251,700		

CONSTRUCTION DETAIL						CONSTRUCTION DETAIL (CONTINUED)					
Element		Cd	Description			Element		Cd	Description		
Style:		61	Commercial Garage								
Model		96	Ind/Comm								
Grade		06	C-								
Stories:		1									
Occupancy		1.00									
Exterior Wall 1		27	Pre-finish Metl								
Exterior Wall 2											
Roof Structure		03	Gable								
Roof Cover		01	Metal/Tin								
Interior Wall 1		01	Minimum								
Interior Wall 2											
Interior Floor 1		04	Concr Abv Grad			RCN					
Interior Floor 2											
Heating Fuel		09	Typical			Year Built		1980			
Heating Type		04	Forced Air			Effective Year Built					
AC Type		01	None/partial			Depreciation Code		A			
Bldg Use		901	Town MDL-Com			Remodel Rating					
Heat/AC		00	HEAT ONLY			Year Remodeled					
Frame Type		05	STEEL			Depreciation %		29			
Baths/Plumbing		02	AVERAGE			Functional Obsol					
Ceiling/Wall		02	CEILING ONLY			Economic Obsol					
Rooms/Prtns		02	AVERAGE			Trend Factor		1			
Wall Height		14.00				Condition					
1st Floor Use:						Condition %					
						Percent Good		71			
						RCNLD		203,500			
						Dep % Ovr					
						Dep Ovr Comment					
						Misc Imp Ovr					
						Misc Imp Ovr Comment					
						Cost to Cure Ovr					
						Cost to Cure Ovr Comment					
OB - OUTBUILDING & YARD ITEMS(L) / XF - BUILDING EXTRA FEATURES(B)											
Code	Description	L/B	Units	Unit Price	Yr Blt	Cond.	Cd	% Good	Grade	Grade Adj	Appr. Value
PAV1	Paving	L	8,000	1.80	1980	A		70		0	10,100
MEZ3	Mezz-Part Fin	B	400	18.00	1988			71.00		0	5,100
BUILDING SUB-AREA SUMMARY SECTION											
Code	Description				Living Area	Floor Area	Eff Area	Unit Cost	Undeprec Value		
BAS	First Floor				6,300	6,300		45.50	286,622		
Ttl Gross Liv / Lease Area					6,300	6,300			286,622		

BAS

90

70



**AMERICAN TOWER®**

AT STE AME MA S ELD E TER T  
AT STE MBER  
ER O STE AME MA S ELD ORT  
ER O STE MBER  
STE ADDRESS STA ORD RD.  
MA S ELD T



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

RE .	DES R P T O	BY	DATE
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# TITLE SHEET

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E ERAL O STR TO OTES

O ER R S ED MATERIALS ER O T E OMPA Y" LL PRO DE A DT E  
O TRA TOR LL STALL

A. BTSE PME T RAME PLAT ORM A D EBRD ES ELTER RO D  
B LD OLO ATE O LY

B. A TEL O TER A EBO PP  
E BRD E ABLE TRAY T O ER RO DB LD OLO ATE O LY  
TO R S A D STALL OR ROO TOP STALLAT O

D. TO ERS MO OPOLES

E. TO ERL T  
E ERATORS L DPROPA ETA  
A TE ASTA DARD BRA ETS RAMESA DPPES ORMO T  
A TE AS STALLED BY OT ERS  
TRA SMSSO L E  
TRA SMSSO L E MPERS  
TRA SMSSO L E O E TORS T EAT ERPROO TS  
L. TRA SMSSO L E RO D TS  
M. A ERS  
OST RPS  
O. BTSE PME T

T E O TRA TOR S RESPO SBLE TO PRO DE ALL OT ER MATERIALS OR T E  
OMPLETE STALLAT O O T ESTE L D B T OT L M TED TO S  
MATERIALS AS E STR T RAL STEEL S PPORT S B RAME OR PLAT ORM  
ROO LABOR A D MATERIALS RO D R S RO D RES  
OPPER LAD OR T EM AL RO D ROD S B SS BARS TRA S ORMERS A D  
DS O E TS T ES ERE APPL ABLE TEMPORARY ELE TR AL PO ER  
O D T LA DS AP OMPO DSTO E RA ES ORE DR LL SLEEPERS A D  
R BBER MATT REBAR O RETE ASSO S PADSA D ORA ERMO TS  
MS ELLA EO S ASTE ERS ABLE TRAYS O STA DARD A TE A RAMESA D  
ALL OT ER MATERIAL A D LABOR RE RED TO OMPLETET E OBA ORD TO  
T E DRA S A DSPE ATO S T ST EPOSTO O ER O TO APPLY OR  
PERMITT A D O TRA TOR RESPO SBLE ORP PA D PAYME TO RE RED  
PERM TS.

ALL OR S ALL O ORM TO ALL RRE TAPPL ABLE EDERAL STATE A DLO AL  
ODES L D A SEATA A D OMPLY T AT O STR TO  
SPE ATO S.

O TRA TOR S ALL O TA TLO AL OR DE T ATO O DER RO D  
TLTES PR OR TO STARTO O STR TO .

O TRA TOR S ALL BE RESPO SBLE OR OORD AT ALL RE RED  
SPE TO S.

ALL D ME SO STO O A DO E ST B LD S DRA A ESTR T RES A D  
STE MPRO EME TS S ALL BE ER ED ELD BY O TRA TOR T ALL  
DS REPA ES REPORTED TO T EE EER.

DO OT A ES EOR SPA O STR T RALELEME TS.

DETA LSS O ARE TYP AL S MLAR DETAL S APPLY TO S MLAR O DTO S LESS  
OT ER SE OTED.

T ESE DRA SDO OT L DE E ESSARY OMPO E TS OR O STR TO  
SA ETY S ALL BET E SOLE RESPO S BLTY O T E O TRA TOR.

O TRA TOR S ALL BRA ESTR T RES TLALL STR T RALELEME TS E EED  
OR STAB LTY ARE STALLED. T ESE ELEME TS ARE AS OLLO S LATERAL BRA  
A OR BOLTS ET .

O TRA TOR S ALL DETERM EE A TLO ATO O E ST TLTES RO DS  
DRA S DRA PPES E TS ET . BE ORE OMME OR .

ORRE TLY ABR ATED DAMA ED OR OT ER SEMS TT OR  
O O ORM MATERIALS OR O DTO SS ALL BE REPORTED TO T E ER O  
REP PR OR TO REMEDAL OR ORRE T EA TO .AYS REMEDALA TO S ALL  
RE RE RTTE APPRO AL BY T E ER O REP PR OR TO PRO EED .

EA O TRA TOR S ALL OOPERATE T T E ER O REP A D OORD ATE S  
OR T T E OR O OT ERS.

O TRA TOR S ALL REPARA Y DAMA E A SED BY O STR TO O T S  
PRO E TTOMAT E ST PRE O STR TO O DTO STOT ESATS A TO  
O T E ER O O STR TO MA A ER.

ALL ABLE O D TE TRY E TPORTS S ALL BE EAT ERPROO ED D R  
STALLAT O S ASL O ESEALA T.

ERE E ST O DTO SDO OTMAT T OSES O T SPLA SET  
O TRA TOR S ALL OT YT E ER O REPA DE EERO RE ORD  
MMEDATELY.

O TRA TOR S ALLE S REALLS B O TRA TOR S ARE PRO DED T A OMPLETE  
A D RRE T SETO DRA S A DSPE ATO S ORT SPRO E T.

O TRA TOR S ALL REMO EALLR BBS A D DEBR S ROMT ESTEAT T EE DO  
EA DAY.

O TRA TOR S ALL OORD ATE OR S ED LE T AMER A TO ER  
ORPORATO AT A DTA EPRE A TO STOM M E MPA TA DDSR PTO O  
OT ERO PA TSO T E A LTY.

O TRA TOR S ALL R S ER O A DAMER A TO ER ORPORATO AT  
T APD MAR ED PAS B LT SETO DRA S PO OMPLETO O OR .

PR OR TO S BMSSO O BD O TRA TOR S ALL OORD ATE T ER O REP  
TO DETERM E AT A Y TEMS LL BE PRO DED. ALL TEMS OT PRO DED  
S ALL BE PRO DED A D STALLED BY T E O TRA TOR. O TRA TOR LL STALL  
ALL TEMS PRO DED.

PR OR TO S BMSSO O BD O TRA TOR S ALL OORD ATE T ER O REP  
TO DETERM E A Y PERM TS LL BE OBTA ED BY O TRA TOR. ALL RE RED  
PERM TS OT OBTA ED BY ER O M ST BE OBTA ED A DPAD OR BY T E  
O TRA TOR.

O TRA TOR S ALL STALL ALL STES A E A ORDA E T ER O  
SPE ATO SA DRE REME TS.

O TRA TOR S ALL S BMTALLS OPDRA STO ER O ORRE E A D  
APPRO AL PR OR TO ABR ATO .

ALLE PME TS ALL BE STALLED A ORD TOMA A T RERS  
SPE ATO SA DLO ATEDA ORD TO ER O SPE ATO S A DAS  
S O T ESEPLA S.

T E O TRA TOR S ALLS PER SEA DDRE TT EPRO E TDES RBED ERE .  
T E O TRA TOR S ALL BE SOLELY RESPO SBLE OR ALL T E O STR TO  
MEA S MET ODS TE ES SE E ESA DPRO ED RESA D OR  
OORD AT ALL PORTO SO T E OR DERT E O TRA T.

O TRA TOR S ALL OT Y ER O REPAM M MO ORS AD A EO  
PO R O RETE OR BA LL A Y DER RO D TLTES O DATO S OR  
SEAL A Y ALL LOOR OR ROO PE ETRATO S ORE EER RE E A D  
APPRO AL.

O TRA TOR S ALL BE RESPO SBLE OR STE SA ETY L D OMPLA E T  
ALL APPL ABLE OS ASTA DARDS A DRE OMME DATO SA DS ALL PRO DE ALL  
E ESSARY SA ETY DE ES L D PPEA DPPMA D O STR TO DE ES  
S AS ELD A D REPRE E TO TEMPORARY S OR S A OLD  
TRE BO ESSLOP BARRERS ET .

T E O TRA TOR S ALL PROTE TAT SO E PE SE ALLE ST A LTESA D  
S O S E OR LABLE TO RYDR T E O STR TO PER OD. A Y  
DAMA E A SED BY E LE TO T EPARTO T S O TRA TOR OR S  
REPRESE TAT ES OR BY T E ELEME TS D E TO E LE TO T EPARTO T S  
O TRA TOR OR S REPRESE TAT ES ET ER TOT EE ST OR ORTO S  
OR OR T E OR O A YOT ER O TRA TOR S ALL BE REPA RED AT S  
E PE SETO T E O ERS SATS A TO .

ALL OR S ALL BE STALLED A RST LASS EATA D OR MA L EMA ER  
BY ME A SS LLED T E TRADE OL ED. T E ALTYO OR MA S P  
S ALL BE S B E T TO T E APPRO ALO T E ER O REP. A Y OR O DBY  
T E ER O REP TO BE O ER OR ALTYA D OR OR MA S PS ALL BE  
REPLA EDA D OR RE OR ED AT O TRA TORE PE SE TLAPPRO AL S  
OBTA ED.

ORDER TO ESTABL S STA DARDS O ALTYA D PER ORMA E ALL TYPES O  
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MA A T RERS ATALO MBER S ALL BE PRO DED BY T ESEMA A T RERS  
AS SPE ED.

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O LATER T A RA TER BE OT ED S RED STORED RATE PROTE TED  
A D STALLED BY T E O TRA TOR T ALL APP RTE A ES RE RED TO PLA E  
T EE PME T OPERATO READY OR SE. T E O TRA TOR S ALL BE  
RESPO SBLE OR T EE PME TA TERP T P.

ER O OR SAR TE TE EER RESER EST ER T TORE E TAY  
E PME TOR MATERIALS SO OP O ARE OT OMPLA E T  
T E O TRA T DO ME TS ET ER BE ORE OR A TER STALLAT O A DT E  
E PME TS ALL BE REPLA ED T E PME T O ORM TOT E  
RE REME TSO T E O TRA T DO ME TS BY T E O TRA TOR AT O OST TO  
ER O OR T ERAR TE TE EER.

SPE AL O STR TO  
A TE A STALLAT O OTES

OR L DED

A. A TE AA D OA AL ABLES ARE R S ED BY ER O DERA  
SEPARATE O TRA T T E O TRA TOR S ALL ASS STA TE A  
STALLAT O O TRA TOR TERMS OD OORD ATO A D STEA ESS.  
ERE TO S B O TRA TOR S ALL BE RESPO SBLE OR T E PROTE TO O  
PERSO ELA D

B. STALLA TE AAS D ATE O DRA SA D ER O SPE ATO S.

STALL AL A ED STEELA TE AMO TSAS D ATED O DRA S

D. STALL R S ED AL A ED STEEL ORAL M M A E DE.

E. O TRA TOR S ALL PRO DE O R SETS O S EEP TESTS S  
ART PA ARD BR S ALAR ET OR A ALY ERS BMT RE E Y  
DOMA RE LE TOMETER DR TESTS RES LTS TO T EPRO E TMA A ER.  
S EEP TESTS S ALL BE AS PER ATTA ED R S "M M M ELD TEST  
RE OMME DED ORA TE AA D ELA OA AL ABLE SYSTEMS" DATED  
.TEST S ALL BE PER ORMED BY A DEPE DE T TEST SER E  
A DBEBO DA DS BMTTED T O E EE O OR OMPLETO .

STALL OA AL ABLES A D TERM AT BET EE A TE ASA D  
E PME T PERMA A T RERS RE OMME DATO S. EAT ERPROO ALL  
O E TO SBET EE T EA TE AA DE PME T PERMA A T RERS  
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A TE AA D OA AL ABLE RO D

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E AL.

ALL OA AL ABLE RO D TS ARE TO BE STALLED O STRA TR SO  
OA AL ABLE OT T BE DS

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®



Dewberry Engineers Inc.

99 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.531.0801  
FAX: 617.695.3310

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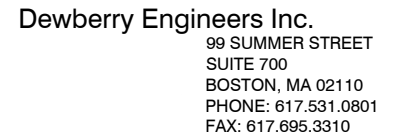
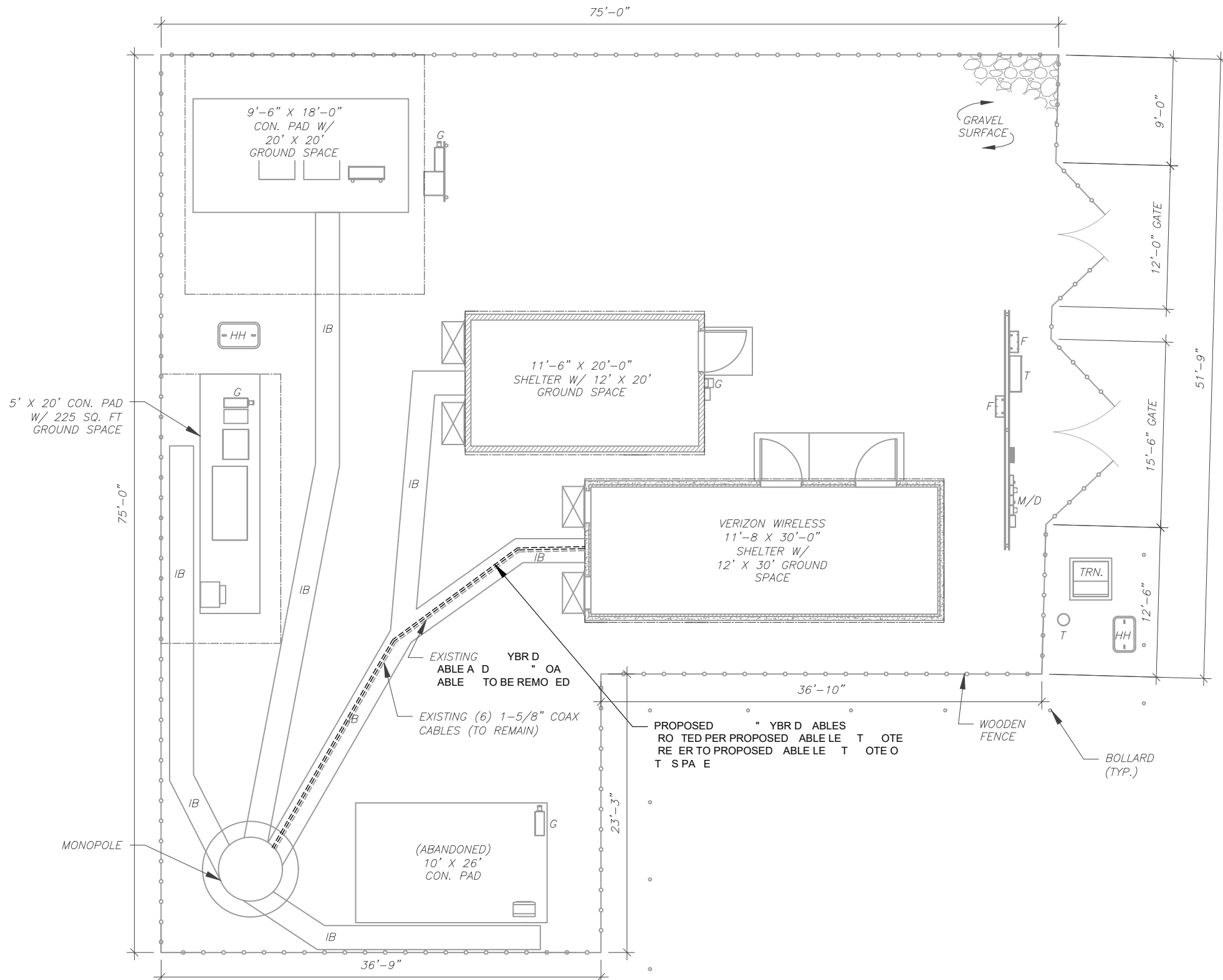
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T SSTE PLA REPRES TST E BESTPRESE T  
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T ESTE PRORTO O STR TO A D ER YALL  
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O E L E T R A L S O P E S L D E D T S P R O E T .

⊗	RO D	TEST	ELL
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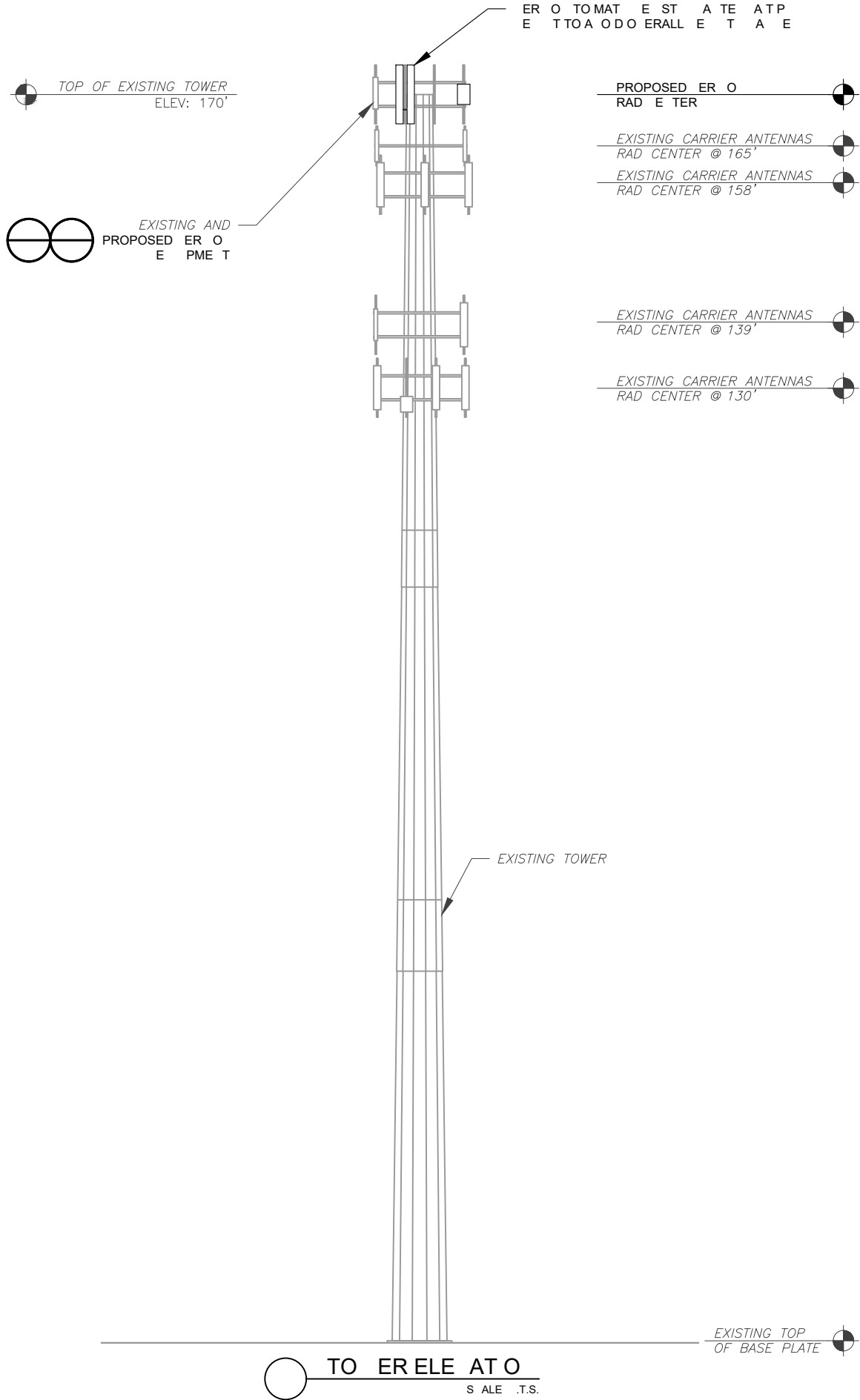
A circular professional engineer seal for the State of Connecticut. The outer ring contains the text "STATE OF CONNECTICUT" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside the ring is a smaller circle with the text "BENJAMIN FRANKLIN" at the top and "1776" at the bottom. In the center is a shield with a book and a quill. Below the shield is a banner with the text "28971 LICENSED".



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FAX: 617.695.3310

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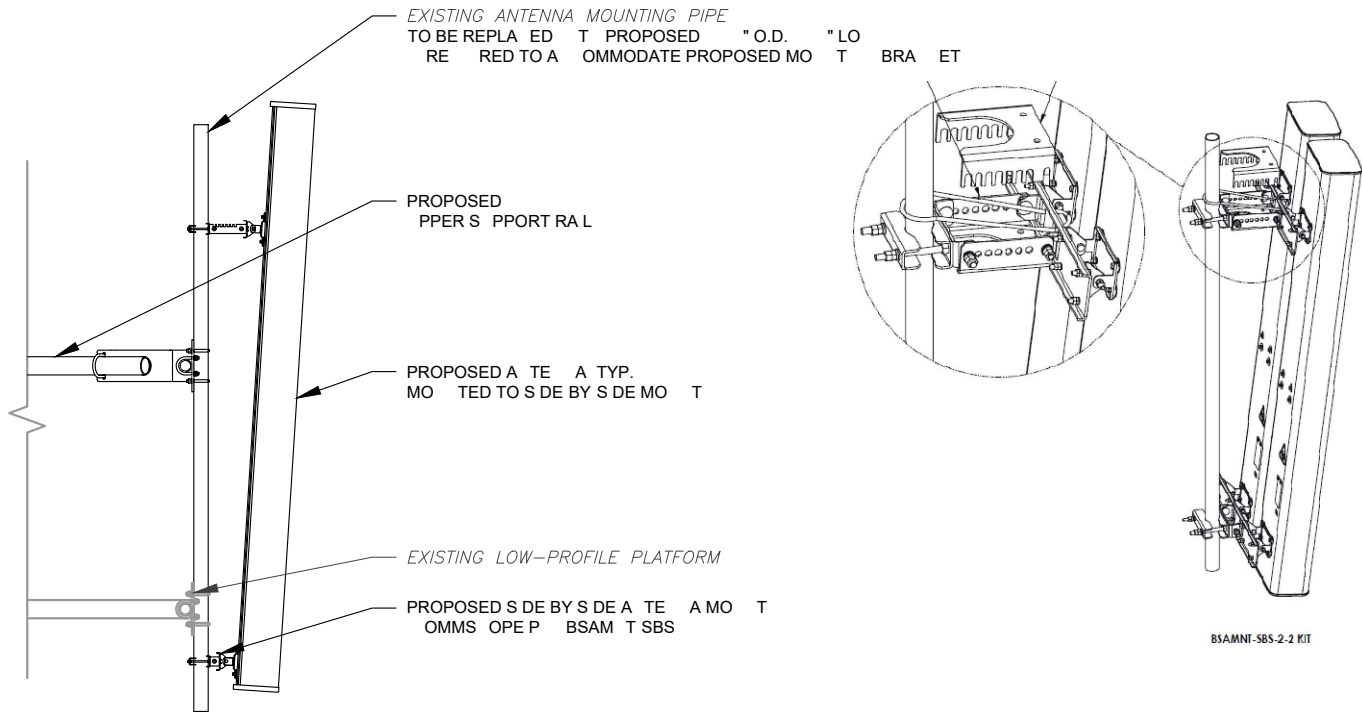
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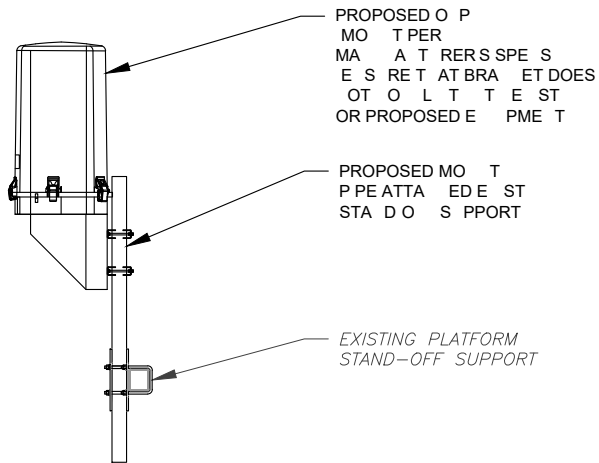




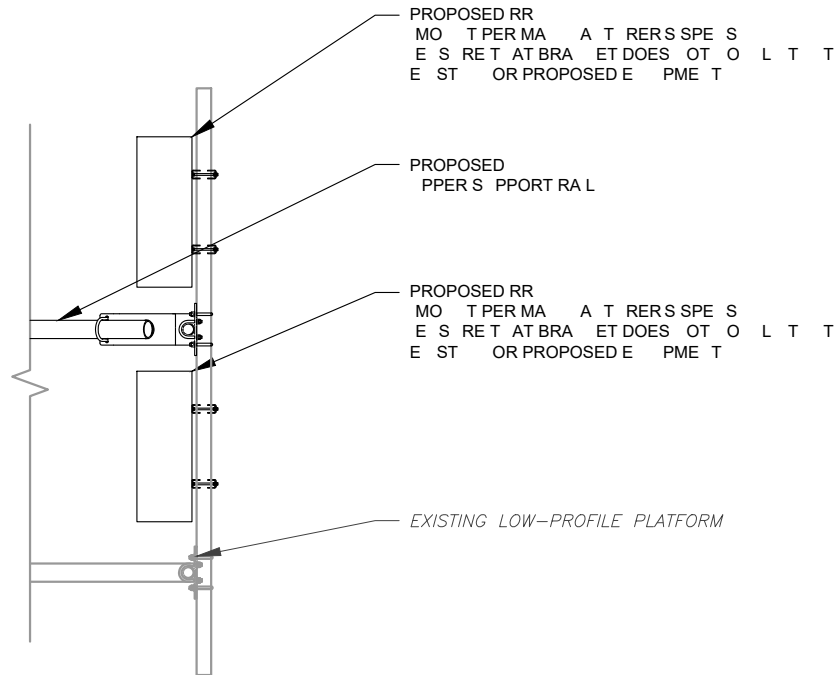
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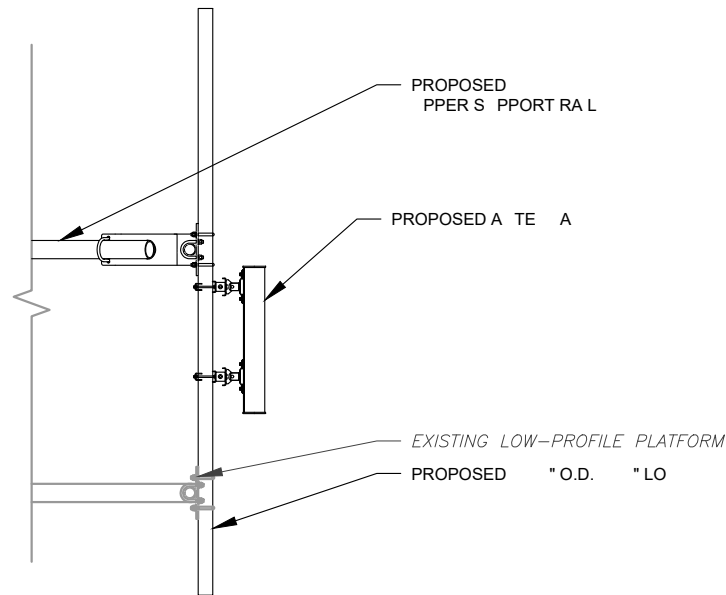
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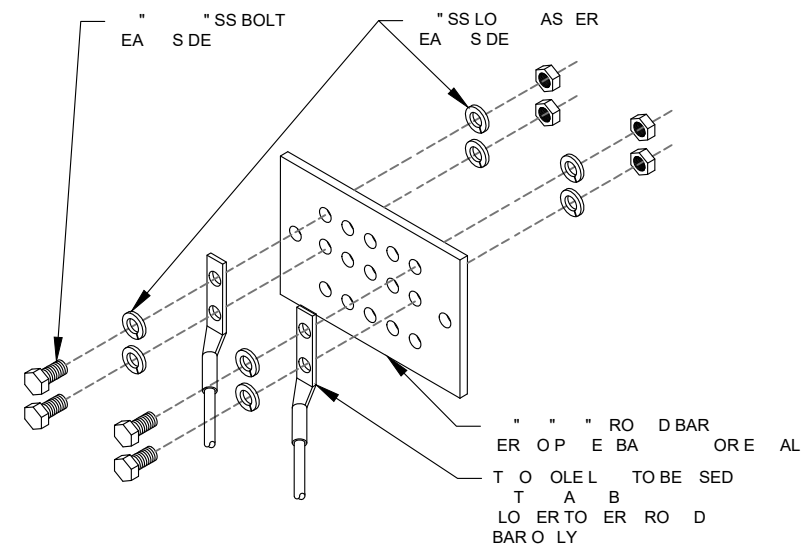
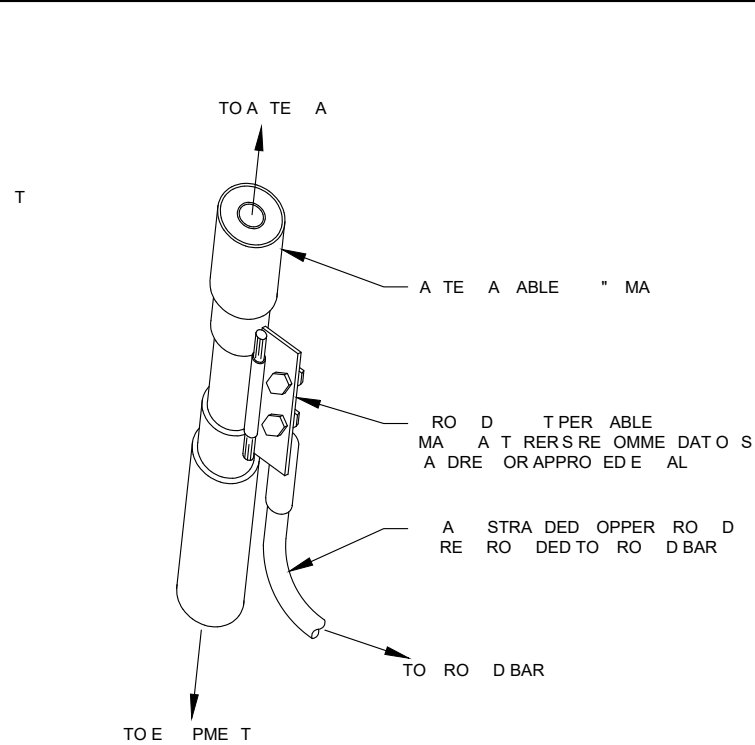


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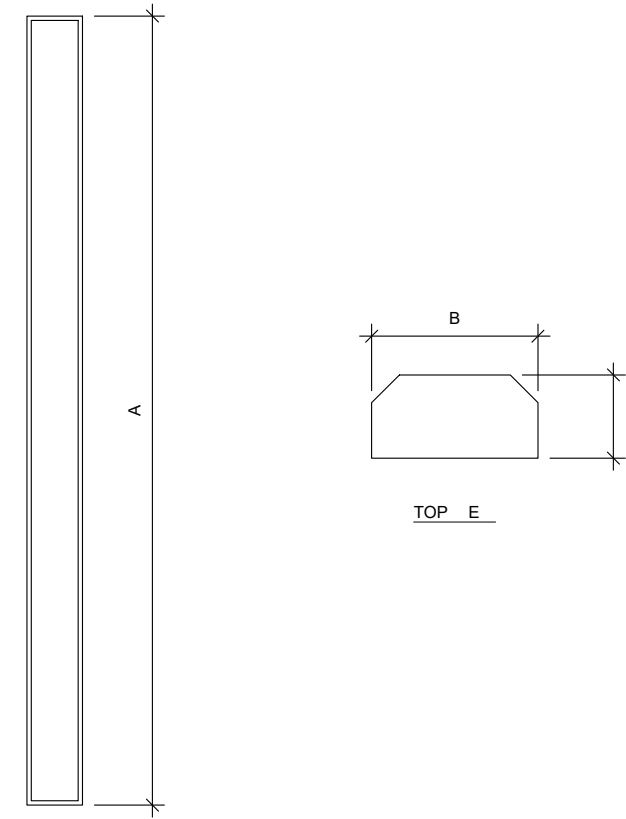
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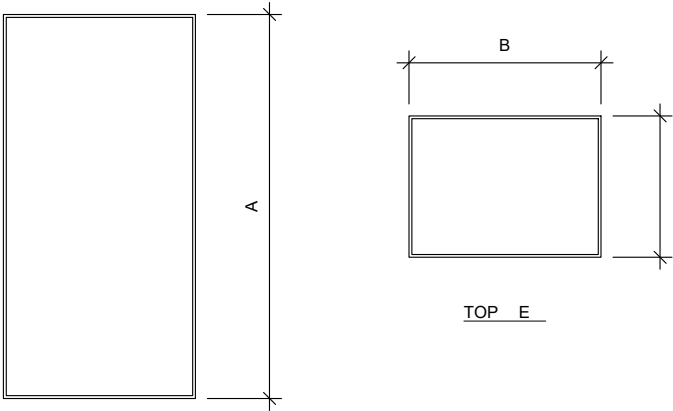
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Maser Consulting Connecticut  
2000 Midlantic Drive, Suite 100  
Mt. Laurel, NJ 08054  
(856) 797-0412  
peter.albano@colliersengineering.com



Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10069740  
Maser Consulting Connecticut Project #: 21777463A

June 25, 2021

Site Information

Site ID: 468088-VZW / MANSFIELD NORTH CT  
Site Name: MANSFIELD NORTH CT  
Carrier Name: Verizon Wireless  
Address: 1725 Stafford Rd  
Mansfield, Connecticut 06268  
Tolland County  
Latitude: 41.836000°  
Longitude: -72.307611°

Structure Information

Tower Type: 170-ft Monopole  
Mount Type: 14.00-ft Platform

FUZE ID # 16272196

Analysis Results

Platform: 52.1% 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: Zachary Bandilla



Mount Post-Modification Analysis Report  
(1) 14.00-ft Platform

June 25, 2021  
Site ID: 468088-VZW / MANSFIELD NORTH CT  
Page | 4

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
- 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.

Analysis Results:

Component	Utilization %	Pass/Fail
Face	47.7 %	Pass
Standoff	29.6 %	Pass
Grating Support	37.0 %	Pass
Grating Corner Support	12.4 %	Pass
Antenna Pipe	52.1 %	Pass
MOD Support Rail	38.6 %	Pass
MOD Support Rail Corner	25.8 %	Pass
MOD V-Brace	17.5 %	Pass
Connection Check	22.8 %	Pass

Structure Rating – (Controlling Utilization of all Components)	52.1%
--	-------

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:

- Mount Photos
- Mount Mapping Report (for reference only)
- Analysis Calculations
- Contractor Required PMI Report Deliverables
- Antenna Placement Diagrams
- TIA Wind Speed Usage and Adoption Letter

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## PROJECT NOTES

- I. 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).

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1725 STAFFORD RD  
MANSFIELD, CT 06268  
TOLLAND COUNTY

## PROJECT INFORMATION

## SITE INFORMATION

LATITUDE: 41.836° N  
LONGITUDE: 72.307611° W  
JURISDICTION: TOLLAND COUNTY

## APPLICANT/LESSEE

COMPANY: VERIZON WIRELESS

CLIENT REPRESENTATIVE

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

## PROJECT MANAGER

COMPANY: MASER CONSULTING CONNECTICUT  
CONTACT: PETER ALBANO  
PHONE: 856-797-0412  
E-MAIL: [PETER.ALBANO@COLLIERSENGINEERING.COM](mailto:PETER.ALBANO@COLLIERSENGINEERING.COM)

## SHEET INDEX

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CONTRACTOR PMI REQUIREMENTS	
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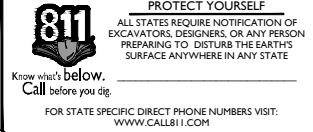
PMI LOCATION:	HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #:	10069740
VZW LOCATION CODE (PSLC):	468088
FUZE ID:	16272196

REFERENCED DOCUMENTS
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FAILING MOUNT ANALYSIS REPORT

SMART TOOL PROJECT #:	10050433
MASER CONSULTING CONNECTICUT PROJECT #:	21777463A
ANALYSIS DATE:	5/7/2021

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT



SCALE: AS SHOWN	JOB NUMBER: 21777463A
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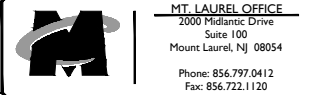

  
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SHEET TITLE :  
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BILL OF MATERIALS				
VZWSMART KITS				
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
6	VZWSMART	VZWSMART-PLK3	SUPPORT RAIL CORNER BRACKET	
24		VZWSMART-MSK I	CROSSOVER PLATE	
OTHER REQUIRED PARTS				
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
6	-	-	156" LONG, P2.0 STD	GALVANIZED
6	-	-	24" LONG, L3x3x1/4	GALVANIZED
-	-	-	1/2" DIA. A325N BOLT	
-	-	-	1/2" DIA. U-BOLT	
1	SITE PRO I	PRK-SFS	SUPPORT RAIL REINFORCEMENT KIT	OR EOR APPROVED EQUAL, CONTACT MASER CONSULTING CONNECTICUT FOR APPROVAL OF SUBSTITUTION

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

VZWSMART KITS - APPROVED VENDORS	
COMMSCOPE	
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSSALES@PERFECT-VISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM
SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

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



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**Derek R. Hartzell**  
Professional Engineer  
License Number: 32710  
Maser Consulting  
C.T. C.O.A.#: JEL000131

Digitally signed by Derek R. Hartzell  
Date: 2021.06.25 11:32:54-04'00'

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TOLLAND COUNTY



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

SHEET TITLE:

BILL OF MATERIALS

SHEET NUMBER:

S-1

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GENERAL NOTES

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

DESIGN LOADS

WIND LOADS

- BASIC WIND SPEED (3 SECOND GUST), V = 119 MPH
- EXPOSURE CATEGORY B
- TOPOGRAPHIC CATEGORY I
- MEAN BASE ELEVATION (AMSL) = 361.27'

ICE LOADS

- ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
- ICE THICKNESS = 1.50 IN

SEISMIC LOADS

- SEISMIC DESIGN CATEGORY B
- SHORT TERM MCER GROUND MOTION, S<sub>s</sub> = .184
- LONG TERM MCER GROUND MOTION, S<sub>1</sub> = .055

STRUCTURAL STEEL

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

CHANNELS, ANGLES, PLATES, ETC.	ASTM A36 (GR 36)
STEEL PIPE	ASTM A53 (GR 35)
BOLTS	ASTM A325
NUTS	ASTM A563
LOCK WASHERS	LOCKING STRUCTURAL GRADE
- ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
- PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
  - SUBMIT SHOP DRAWINGS TO PETER.ALBANO@COLLIERSENGINEERING.COM
  - PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL

- DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
- ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
- WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
- FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO

PROTECT STEEL BY ANY OTHER MEANS.

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



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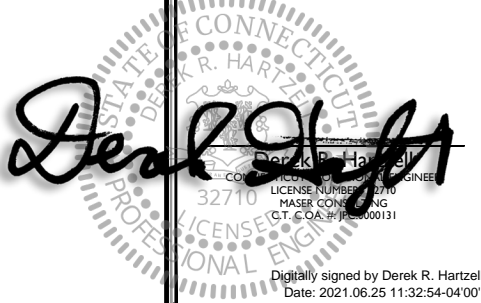
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REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY	




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Date: 2021.06.25 11:32:54-04'00'

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**468088**

**1725 STAFFORD RD**  
**MANSFIELD, CT 06268**  
**TOLLAND COUNTY**



**MT. LAUREL OFFICE**  
2000 Pridmore 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.

MODIFICATION INSPECTION NOTES

MI CHECKLIST

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

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

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

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

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

MI INSPECTOR

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

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

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

GENERAL CONTRACTOR

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

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

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

RECOMMENDATIONS

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

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

CORRECTION OF FAILING MI'S

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

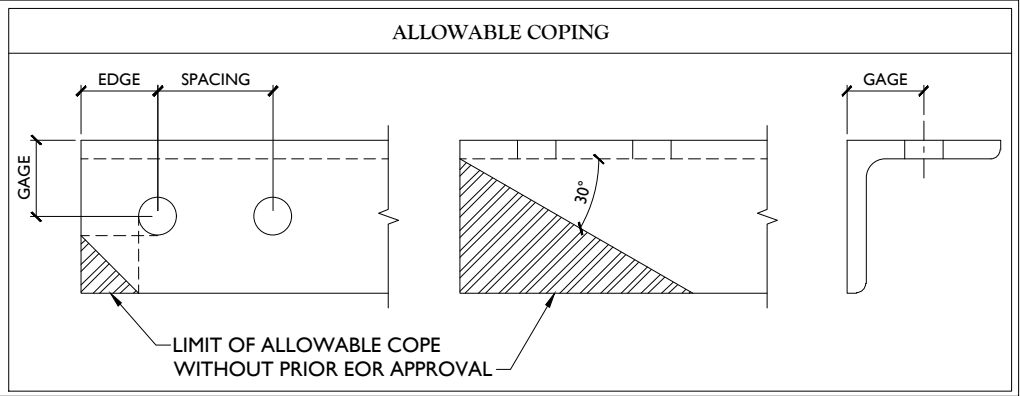
- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.

REQUIRED PHOTOS

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

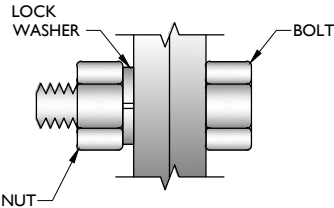
- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
  - RAW MATERIALS
  - PHOTOS OF ALL CRITICAL DETAILS
  - FOUNDATION MODIFICATIONS
  - WELD PREPARATION
  - BOLT INSTALLATION
  - FINAL INSTALLED CONDITION
  - SURFACE COATING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

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



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

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



TYP. BOLT ASSEMBLY

NOTES:

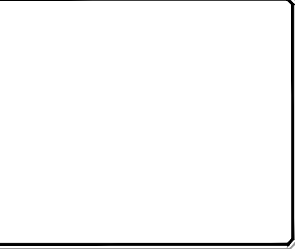
- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
- THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS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

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Professional Engineer  
License Number: 32710  
Maser Consulting  
C.T. C.O.A.#: JEL0000131

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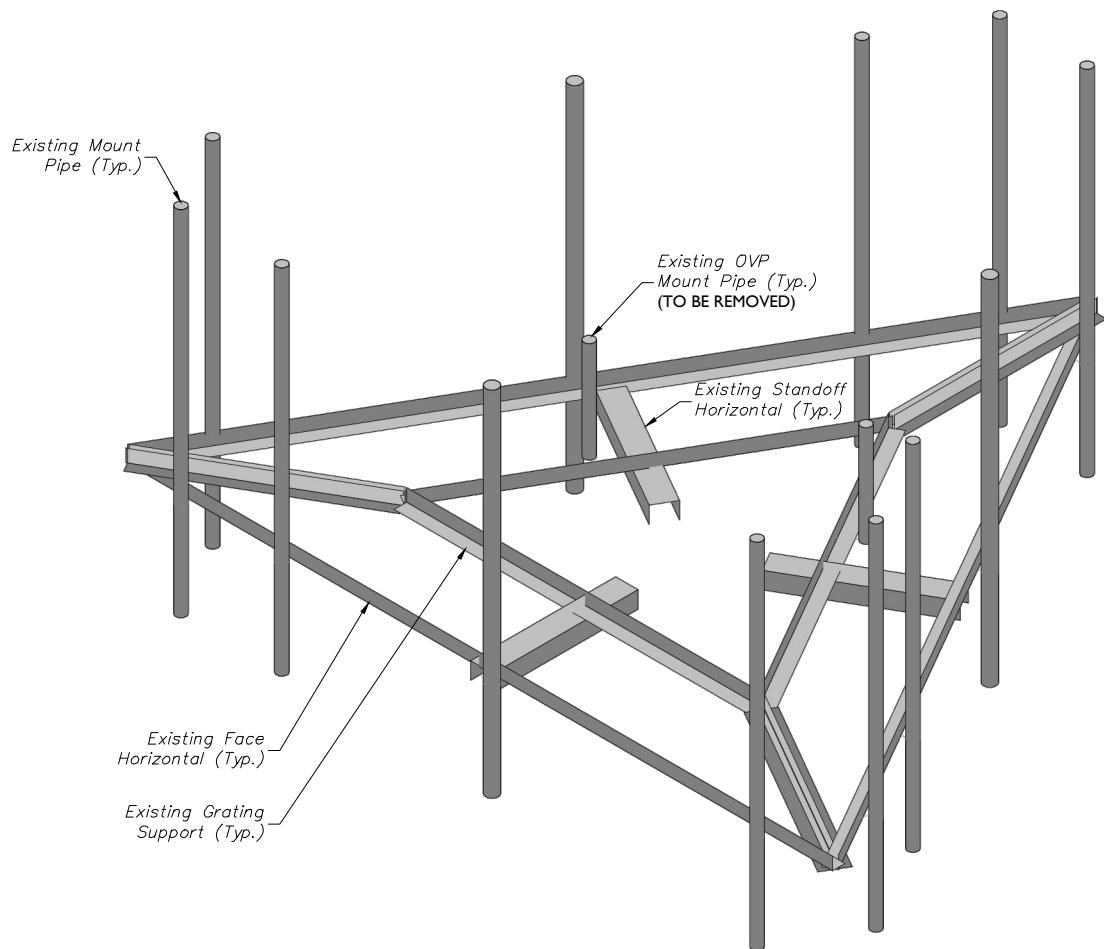
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MODIFICATION NOTES

SHEET NUMBER:

S-3

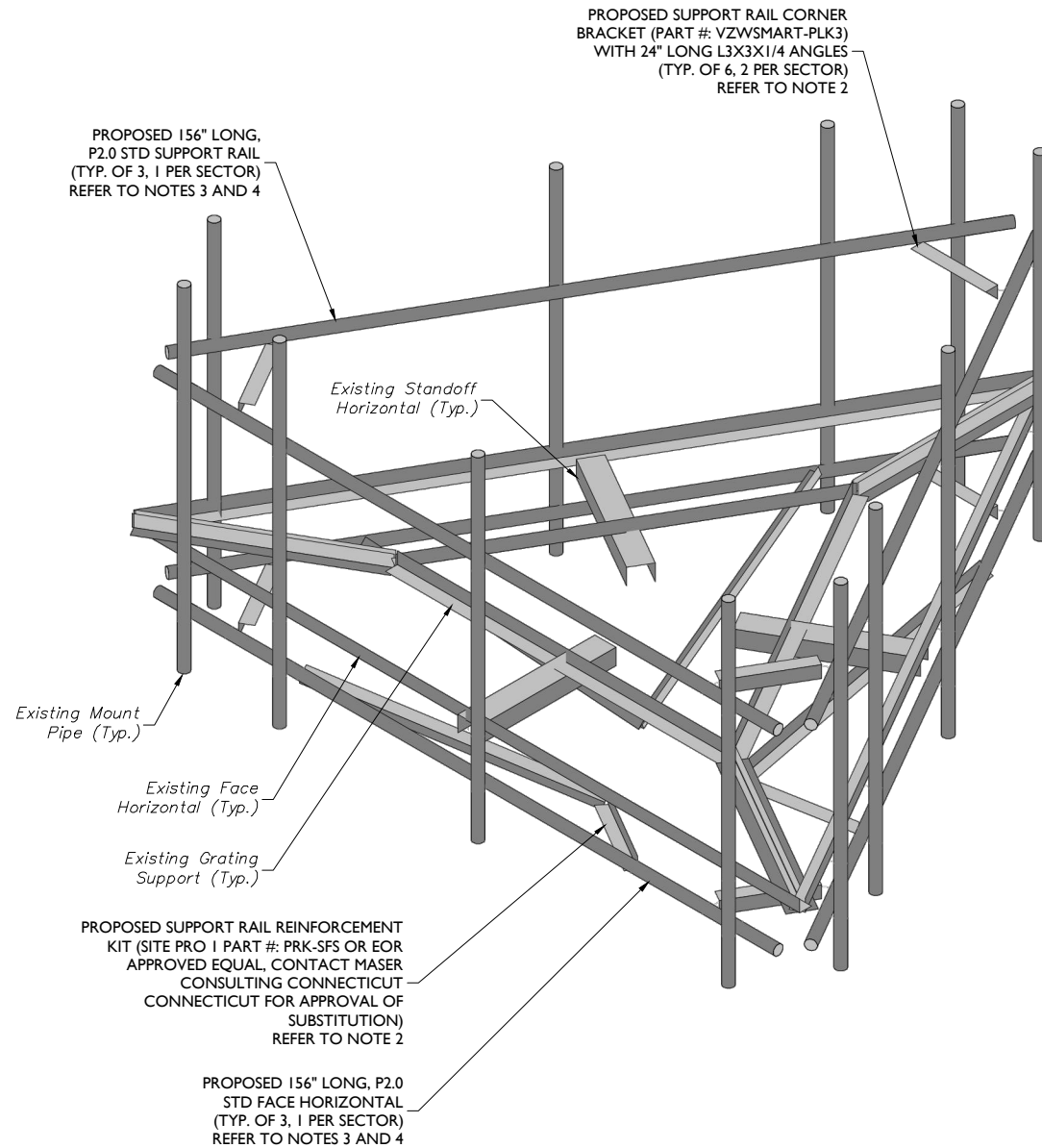
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1 EXISTING PLATFORM ISOMETRIC VIEW  
SCALE : N.T.S.

STRUCTURAL NOTES:

- PER THE MOUNT MAPPING COMPLETED BY RKS DESIGN & ENGINEERING LLC ON 3/29/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (168'-0") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
- INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.



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

MODIFICATION NOTES:

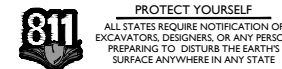
- MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
- CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
- RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
- CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).
- CONNECT NEW L6X6X3/8 CLIP ANGLE TO FACE HORIZONTAL WITH (2) 1/2" DIA. A325N BOLTS AND TO EXISTING MOUNT PIPE WITH (2) 1/2" DIA. U-BOLTS.
- ALL NEW BOLTS HOLES SHALL BE PREPARED PER THE BOLT SCHEDULE ON SHEET S-3 UNLESS NOTED OTHERWISE.



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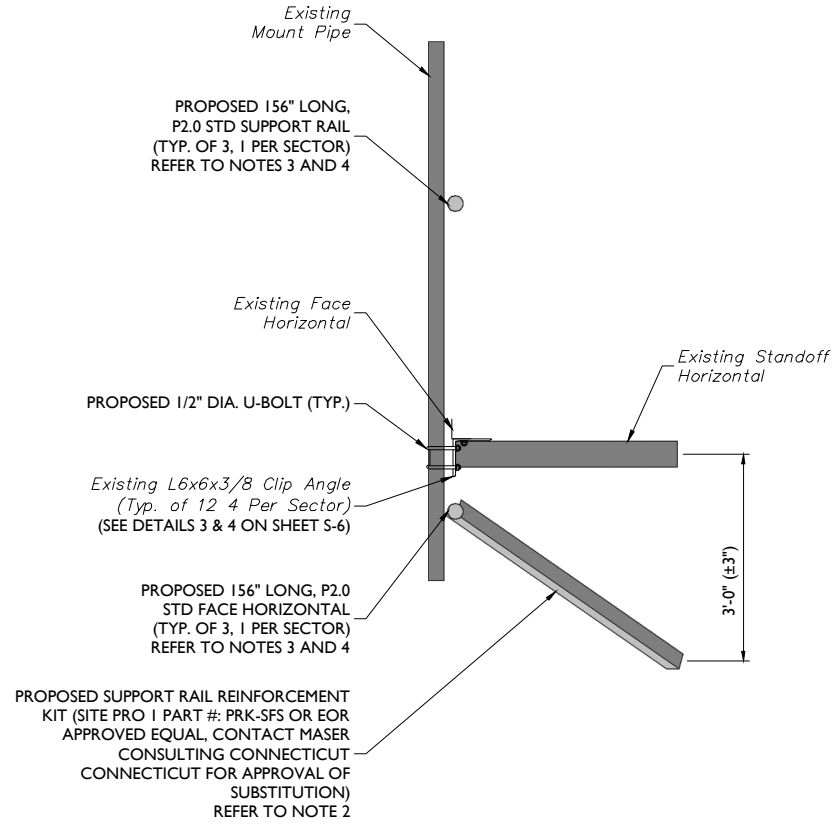
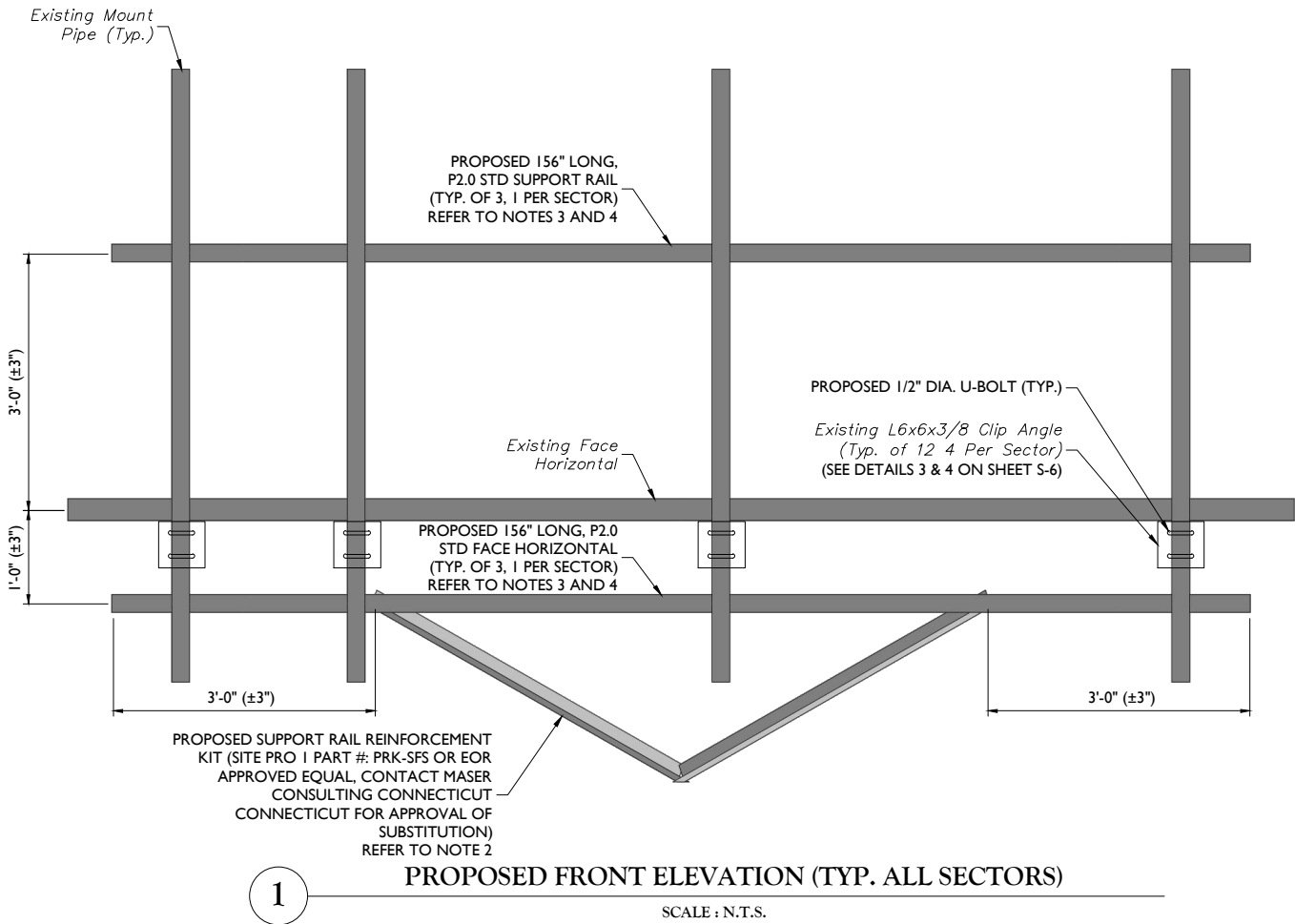
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MODIFICATION DETAILS

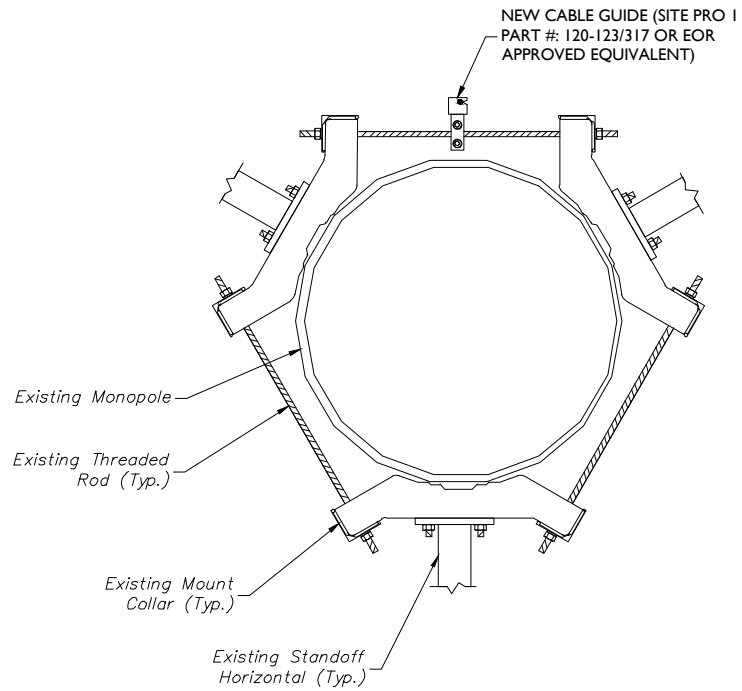
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NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.





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



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

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
3. RADIO AND/OR 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.
4. CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).
5. CONNECT NEW L6X6X3/8 CLIP ANGLE TO FACE HORIZONTAL WITH (2) 1/2" DIA. A325N BOLTS AND TO EXISTING MOUNT PIPE WITH (2) 1/2" DIA. U-BOLTS.
6. ALL NEW BOLTS HOLES SHALL BE PREPARED PER THE BOLT SCHEDULE ON SHEET S-3 UNLESS NOTED OTHERWISE.

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0	6/24/2021	ISSUED FOR CONSTRUCTION	MSG	DRH

STATE OF CONNECTICUT

Derek R. Hartzell

Professional Engineer

License Number: 32710

MASER CONSULTING

C.T. C.O.A. #: JEL0000131

Digitally signed by Derek R. Hartzell  
Date: 2021.06.25 11:32:56-04'00'

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SITE NAME:

MANSFIELD NORTH CT  
468088

1725 STAFFORD RD  
MANSFIELD, CT 06268  
TOLLAND COUNTY

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

Phone: 856.797.0412  
Fax: 856.722.1120

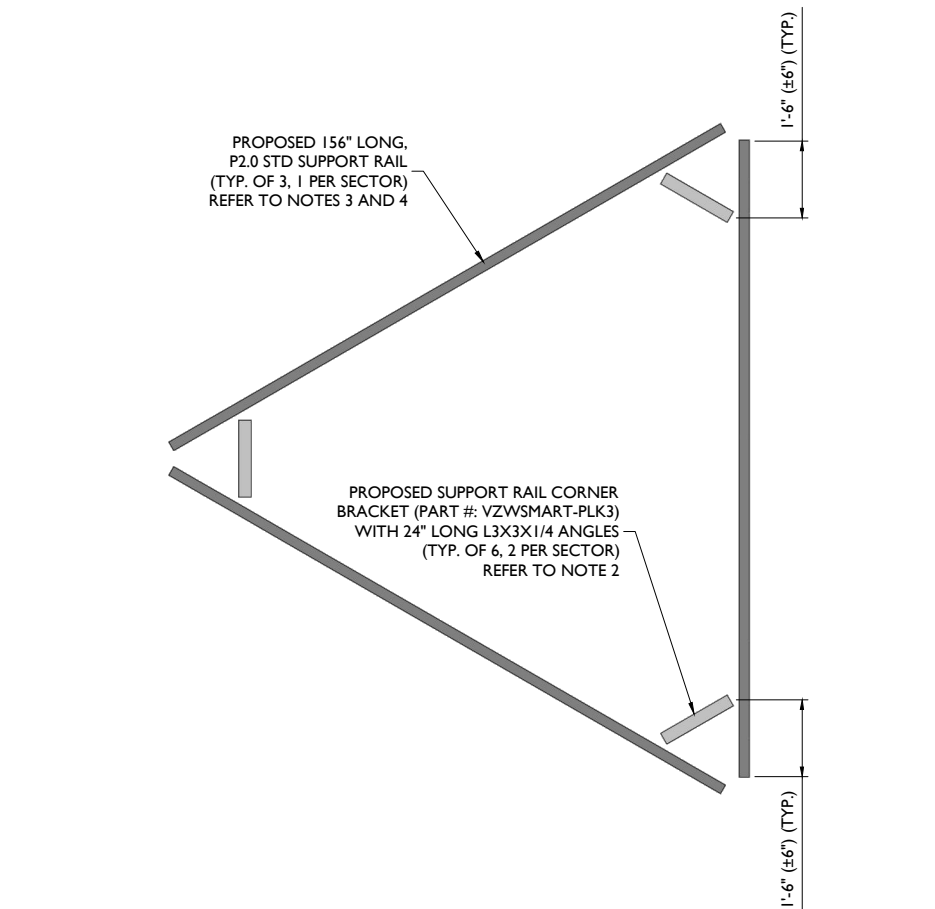
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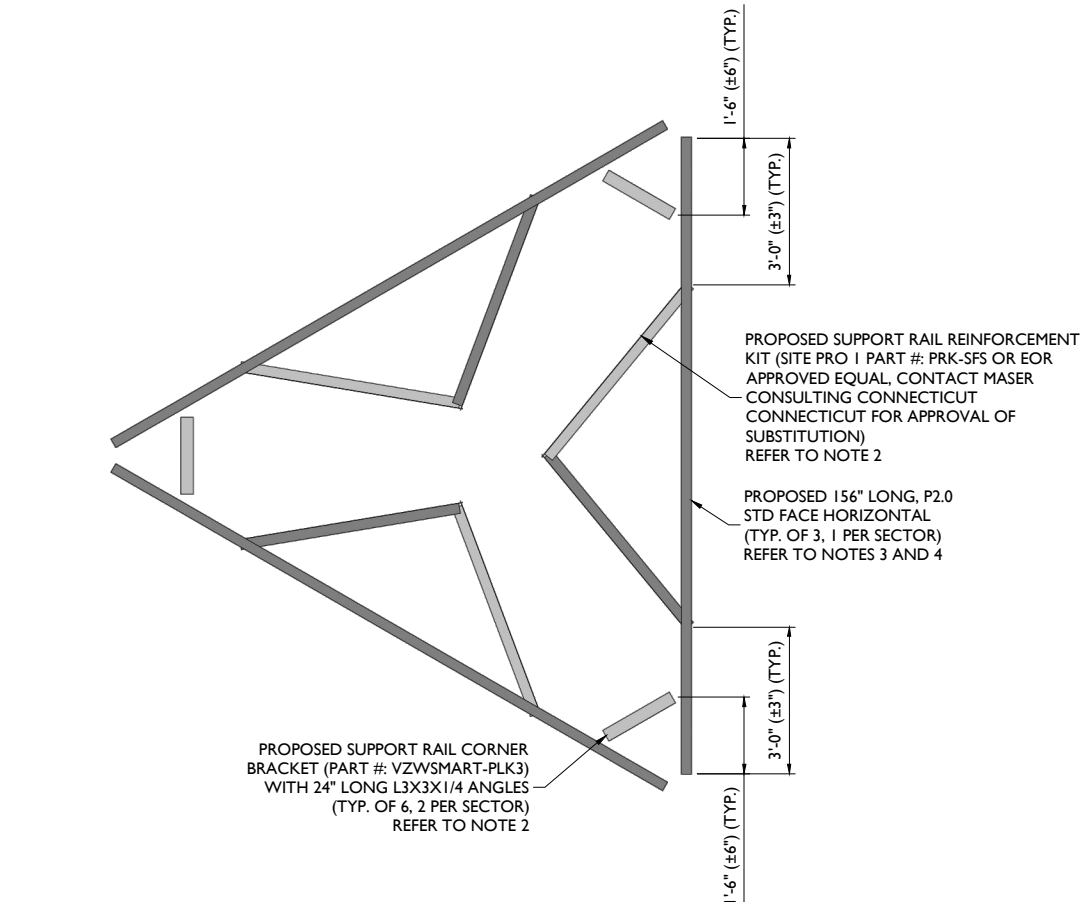
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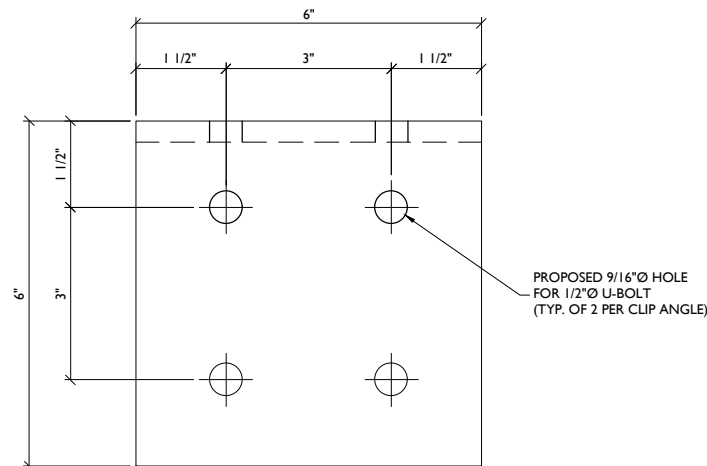
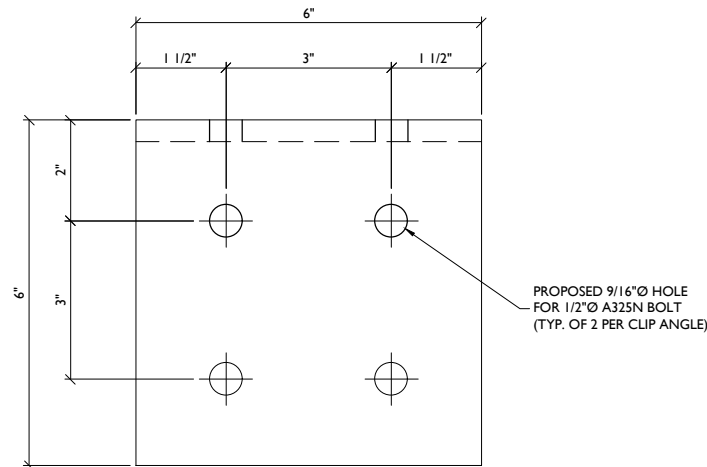
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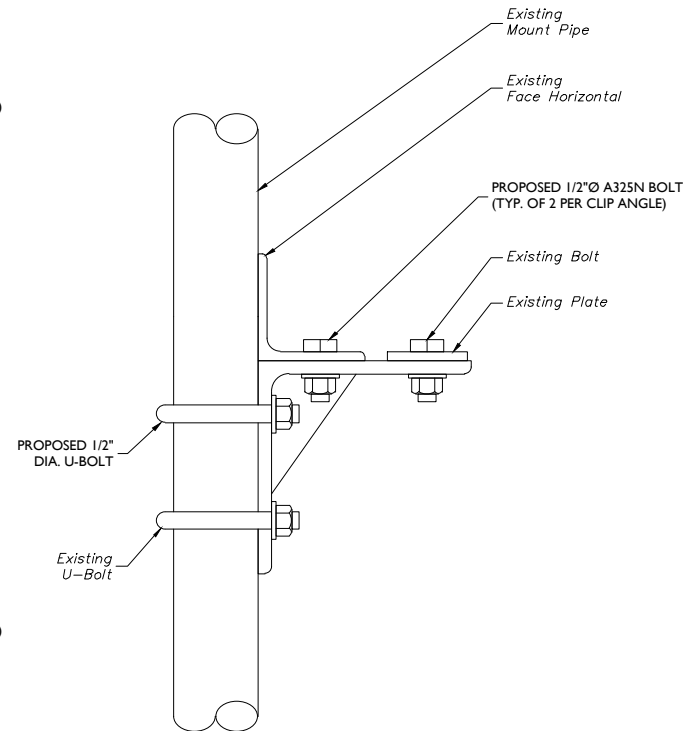
1 PROPOSED PLAN VIEW (TOP SUPPORT RAIL)  
SCALE : N.T.S.



2 PROPOSED PLAN VIEW (TOP SUPPORT RAIL)  
SCALE : N.T.S.



3 EXISTING L6X6X3/8 CLIP ANGLE  
SCALE : N.T.S.



4 EXISTING L6X6X3/8 CLIP ANGLE CONNECTION DETAIL  
SCALE : N.T.S.

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
3. RADIO AND/OR 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.
4. CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).
5. CONNECT NEW L6X6X3/8 CLIP ANGLE TO FACE HORIZONTAL WITH (2) 1/2" DIA. A325N BOLTS AND TO EXISTING MOUNT PIPE WITH (2) 1/2" DIA. U-BOLTS.
6. ALL NEW BOLTS HOLES SHALL BE PREPARED PER THE BOLT SCHEDULE ON SHEET S-3 UNLESS NOTED OTHERWISE.

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SCALE :		JOB NUMBER :	
AS SHOWN		21777463A	
0	6/24/2021	ISSUED FOR CONSTRUCTION	MSG DRH
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STATE OF CONNECTICUT  
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**M**

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Fax: 856.722.1120

SHEET TITLE:

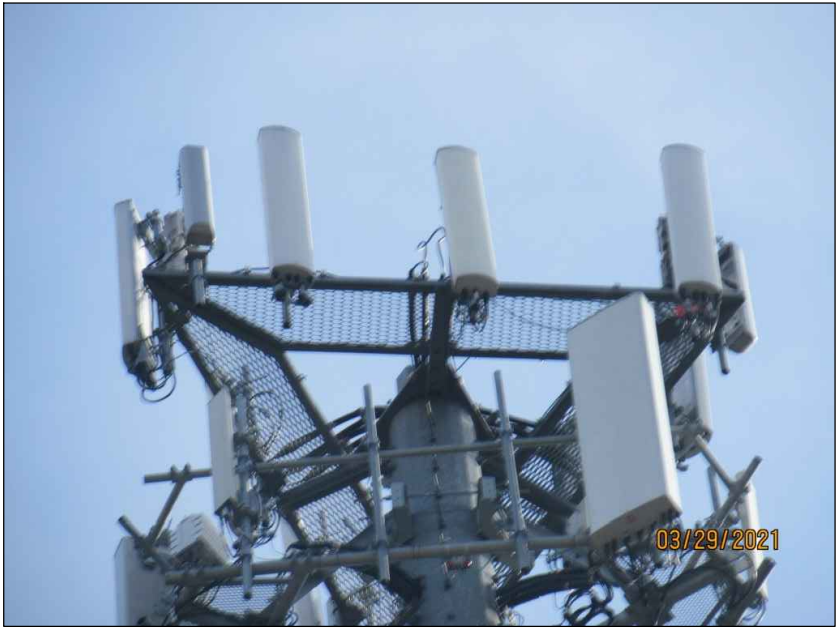
MODIFICATION DETAILS

SHEET NUMBER:

S-6

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.





MOUNT PHOTO 1




MOUNT PHOTO 2



MOUNT PHOTO 3



MOUNT PHOTO 4



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Professional Engineer

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MT. LAUREL OFFICE

2000 Midland Drive  
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Fax: 856.722.1120

SHEET TITLE:

MOUNT PHOTOS

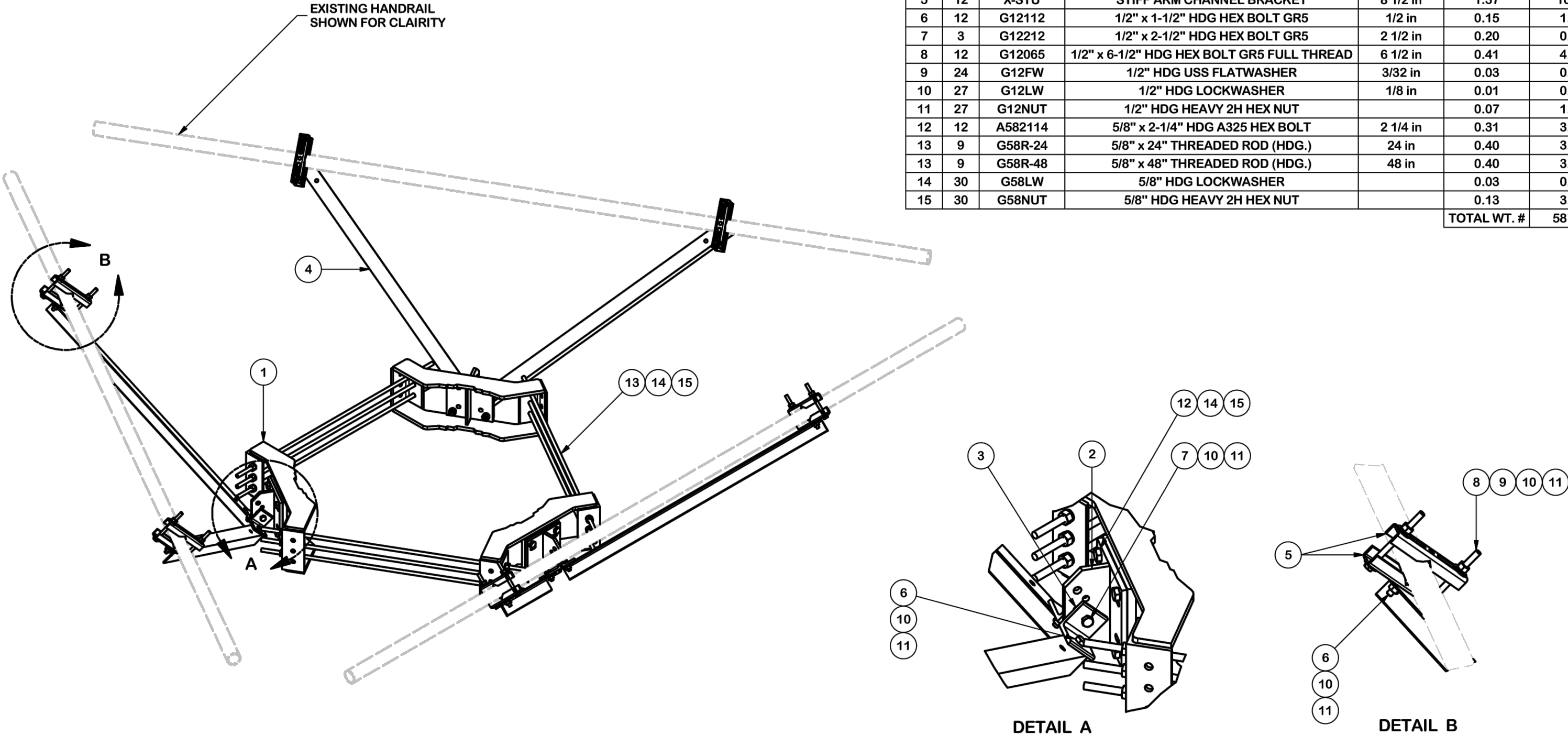
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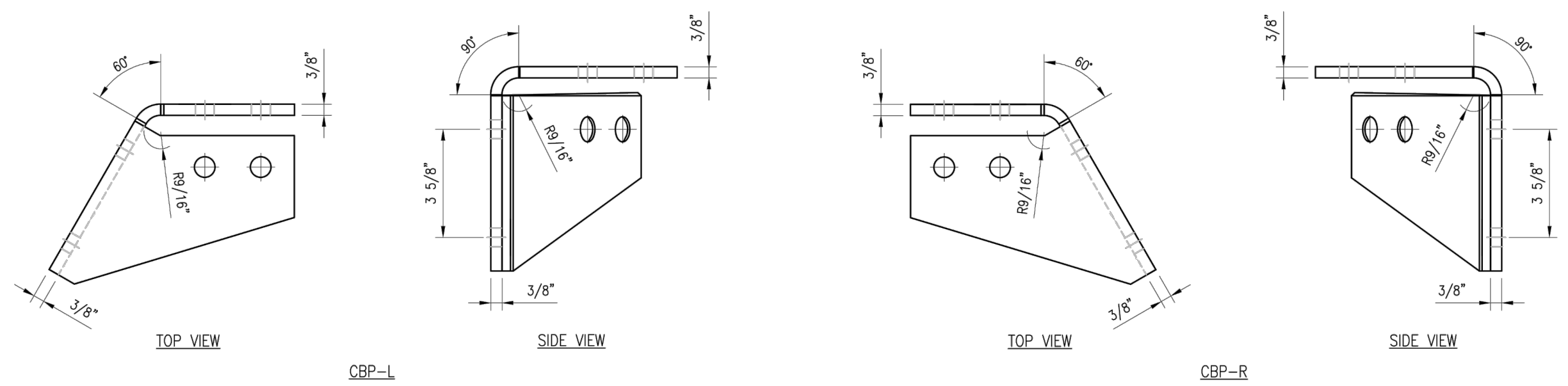
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\\nas01\11904\6888 MANSFIELD NORTH CT\_HorshuDrawings\_PAS\_20210623.mxd 27 By: MHA/AMT

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-LWRM	RING MOUNT WELDMENT		68.81	206.42
2	3	X-TBW	T-BRACKET WELDMENT		13.60	40.80
3	6	SHCM-T	CHAIN MOUNT TIGHTENER BRACKET	3 in	1.86	11.15
4	6	X-232697	TRPD-HD DIAGONAL ANGLE - SITE PRO 1	52 1/2 in	14.35	86.08
5	12	X-STU	STIFF ARM CHANNEL BRACKET	8 1/2 in	1.37	16.46
6	12	G12112	1/2" x 1-1/2" HDG HEX BOLT GR5	1/2 in	0.15	1.77
7	3	G12212	1/2" x 2-1/2" HDG HEX BOLT GR5	2 1/2 in	0.20	0.61
8	12	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	4.91
9	24	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.82
10	27	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.38
11	27	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	1.93
12	12	A582114	5/8" x 2-1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	3.75
13	9	G58R-24	5/8" x 24" THREADED ROD (HDG.)	24 in	0.40	3.59
13	9	G58R-48	5/8" x 48" THREADED ROD (HDG.)	48 in	0.40	3.59
14	30	G58LW	5/8" HDG LOCKWASHER		0.03	0.78
15	30	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	3.90
					TOTAL WT. #	587.71



					<div>TOLERANCE NOTES</div> <div>TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES (± 0.030") DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES BENDS ARE ± 1/2 DEGREE ALL OTHER MACHINING (± 0.030") ALL OTHER ASSEMBLY (± 0.060")</div>			<div>DESCRIPTION</div> <div>HANDRAIL REINFORCEMENT KIT</div>			<div><div><div><div>SITE PRO</div><div>1</div></div><div>Engineering Support Team: 1-888-753-7446</div></div><div>Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX</div></div>		
A	CHANGED MAX. DIA. FOR HANDRAIL CONNECTION	SP1	BC	10/23/2017	PROPRIETARY NOTE: THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.			CPD NO. SP1	DRAWN BY CSL3 2/23/2017	ENG. APPROVAL 3RD PARTY	PART NO. PRK-SFS	PAGE 1 OF 3	
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE				CLASS 81	SUB 02	DRAWING USAGE SHOP	CHECKED BY BMC 3/16/2017		DWG. NO. PRK-SFS
REVISION HISTORY													



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

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

DRAWN BY: H.R

CHECKED BY: HMA

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

SHEET TITLE:

VZSMART-PLK3  
SUPPORT RAIL CORNER  
BRACKET

SHEET NUMBER:

VZSMART-PLK3

REV #:

0





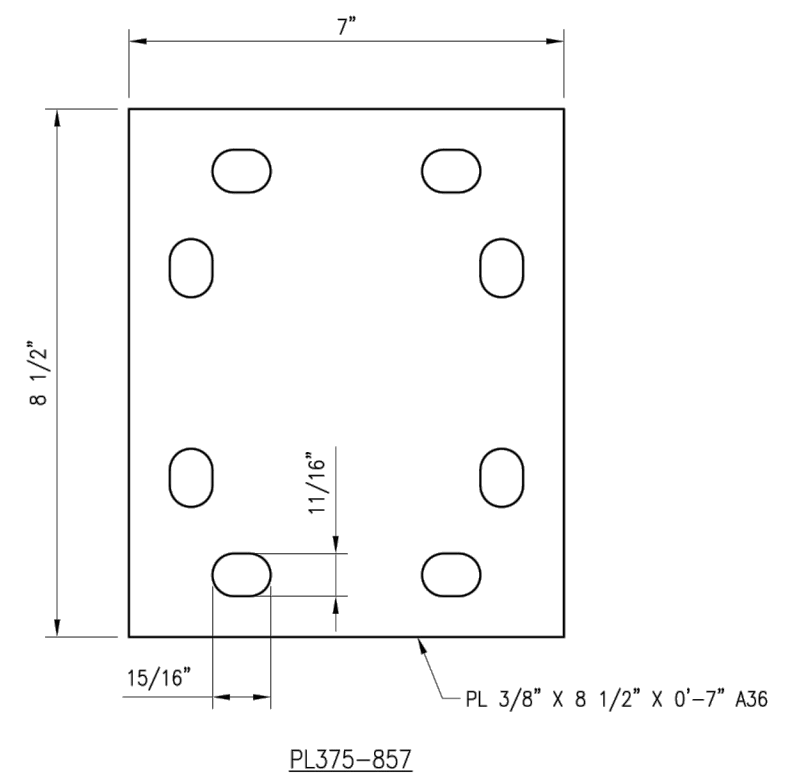
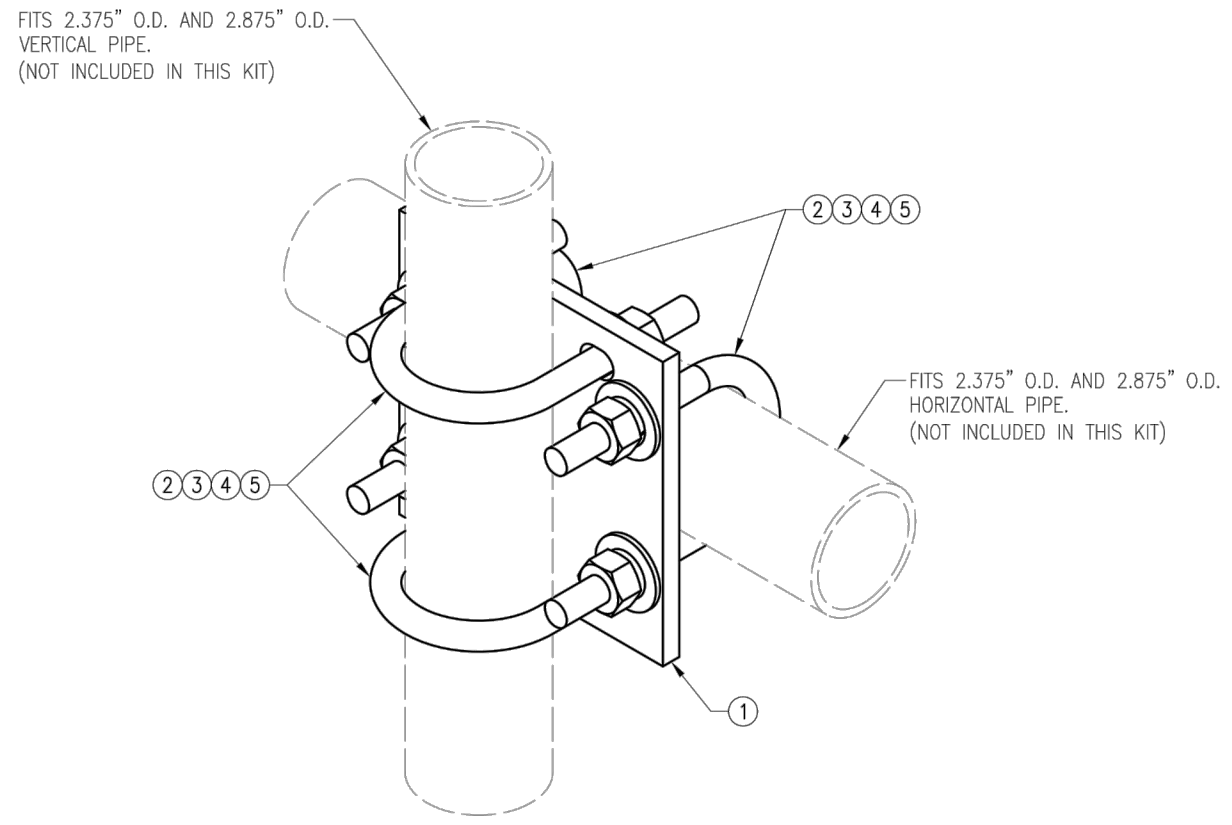
DRAWN BY: H.R      CHECKED BY: HMA

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

SHEET TITLE:

VZWSMART-MSK1  
CROSSOVER PLATE

SHEET NUMBER:	REV #:
VZWSMART-MSK1	0



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

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