STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL
Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@ct.gov
Web Site: portal.ct.gov/csc

VIA ELECTRONIC MAIL

June 15, 2022

John Coleman
Project Manager
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
jcoleman@clinellc.com

RE: **EM-VER-150-220404 –** Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 6 Mountain Road, Washington, Connecticut.

Dear Mr. Coleman:

The Connecticut Siting Council (Council) is in receipt of your correspondence of June 13, 2022 submitted in response to the Council's May 3, 2022 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

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

Thank you for your attention and cooperation.

Sincerely,

Melanie Bachman
Executive Director

MAB/CW/laf

From: John Coleman <jcoleman@clinellc.com>
Sent: Monday, June 13, 2022 2:34 PM
To: CSC-DL Siting Council <Siting.Council@ct.gov>
Subject: EM-VER-150-220404 / VZW Exempt Modification filing / WASHINGTON NORTH CT (413782 /13734077) / WASHINGTON NORTH / 467858 / Correction Filing

CDC – DL Siting Council,

Please find attached the electronic copy in response to the Incomplete Memo with the original filing for Verizon Wireless' Exempt Modification at its 6 Mountain Road, Washington, CT tower facility Washington North CT in Washington.

Attached

- EM-VER-150-220404
- EM-VER-150-220404 – Extension Approval
- Corrections filing with requested documents

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

John Coleman

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

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

June 13, 2021

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

RE: EM-VER-150-220404 – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 6 Mountain Road, Washington CT.

Dear Ms. Bachman,

In response to the Council's Incomplete Letter to modify an existing telecommunications facility dated May 3, 2022 for the afore mentioned site, please see the following comments and attachments as outlined below per Councils request:

> EM-VER-150-220404 the SA dated Jan. 13, 2022 and the MSA dated Oct. 21, 2021 showed variations in the antenna attachment where the SA showed a platform and other documentation showed flush mounted as required by the CSC. This variation has been corrected and a new SA has been completed to show flush mounting of the antenna which will now match all existing documentation.

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

Sincerely,

John Coleman

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

AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure	:	**169 ft Monopole**
ATC Site Name	:	**Washington North CT,CT**
ATC Site Number	:	**413782**
Engineering Number	:	**13734077_C3_04**
Proposed Carrier	:	**VERIZON WIRELESS**
Carrier Site Name	:	**WASHINGTON NORTH CT**
Carrier Site Number	:	**467858**
Site Location	:	**6 Mountain Road** **New Preston, CT 06777-1518** **41.6692, -73.3653**
County	:	**Litchfield**
Date	:	**May 12, 2022**
Max Usage	:	**95%**
Result	:	**Pass**

Prepared By:

Rebecca Malz
Structural Engineer I

Reviewed By:

COA : PEC.0001553

Table of Contents

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 169 ft Monopole to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower Drawings	EEI Job #15143, dated October 24, 2007
Foundation Drawing	EEI Job #15143, dated October 24, 2007
Geotechnical Report	JGI Project #J2075402, dated October 10, 2007
Modifications	Centek Project #13046, Rev 3, dated August 19, 2013
Mount Analysis	Maser Consulting Connecticut Project #21777479A, dated January 6, 2022

Analysis

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

Basic Wind Speed:	114 mph (3-second gust)
Basic Wind Speed w/ Ice:	40 mph (3-second gust) w/ 1.00" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Spectral Response:	Ss = 0.19, S_1 = 0.05
Site Class:	D - Stiff Soil - Default

****Wind load and Ice thickness have been reduced by applicable existing structure load modification factors in accordance with TIA-222-H, Annex S.**

Conclusion

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

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

Existing and Reserved Equipment

Elev.[1] (ft)	Qty	Equipment	Mount Type	Lines	Carrier
167.0	3	Raycap DC6-48-60-18-8F ("Squid")	Side Arm	(12) 1 5/8" Coax (3) 0.39" (10mm) Fiber Trunk (6) 0.78" (19.7mm) 8 AWG 6 (3) 2" conduit	AT&T MOBILITY
	3	Ericsson Radio 8843 - B2 + B66A			
	3	Ericsson RRUS 4478 B14			
	3	Ericsson RRUS 4449 B5, B12			
	3	Kaelus DBCT108F1V92-1			
	3	CCI DMP65R-BU4D			
	3	CCI OPA65R-BU4DA-K			
157.0	-	-	Flush	(12) 1 5/8" Coax	VERIZON WIRELESS
146.0	1	VZW Unused Reserve (5954.84 sqin)	Flush	-	
136.0	3	Ericsson Radio 4449 B71 B85A	T-Arm	(2) 1 1/4" Hybriflex Cable (1) 1.99" (50.7mm) Hybrid	T-MOBILE
	3	Ericsson 4460 BAND 2/25			
	3	Ericsson AIR 6419 B41			
	3	RFS APXVAARR24_43-U-NA20			

Equipment to be Removed

Elev.[1] (ft)	Qty	Equipment	Mount Type	Lines	Carrier
157.0	3	Andrew DBXNH-6565A-VTM	-	-	VERIZON WIRELESS
146.0	3	Antel BXA-70063/6CF__2°		(6) 1 5/8" Coax	

Proposed Equipment

Elev.[1] (ft)	Qty	Equipment	Mount Type	Lines	Carrier
157.0	1	Commscope NNH4-45B-R6-V1	Flush	(6) 1 5/8" Coax (1) 1 5/8" Hybriflex	VERIZON WIRELESS
	6	Samsung RF4440d-13A			
	3	Samsung RF4439d-25A			
	1	Raycap RVZDC-6627-PF-48			
	3	Commscope TD-850AB-L78-43			
	2	Commscope NNH4-65B-R6H4			
147.0	3	Samsung MT6407-77A	Flush	-	

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

Install proposed lines inside the pole shaft.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	48%	Pass
Shaft	95%	Pass
Base Plate	29%	Pass
Flange	17%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	2463.1	64%
Shear (Kips)	22.8	17%
Axial (Kips)	37.3	15%

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

Deflection, Twist and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
157.0	Commscope NNH4-45B-R6-V1	VERIZON WIRELESS	3.545	2.560
	Samsung RF4440d-13A			
	Samsung RF4439d-25A			
	Commscope NNH4-65B-R6H4			
	Commscope TD-850AB-L78-43			
	Raycap RVZDC-6627-PF-48			
147.0	Samsung MT6407-77A	VERIZON WIRELESS	3.103	2.500

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

Standard Conditions

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

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

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

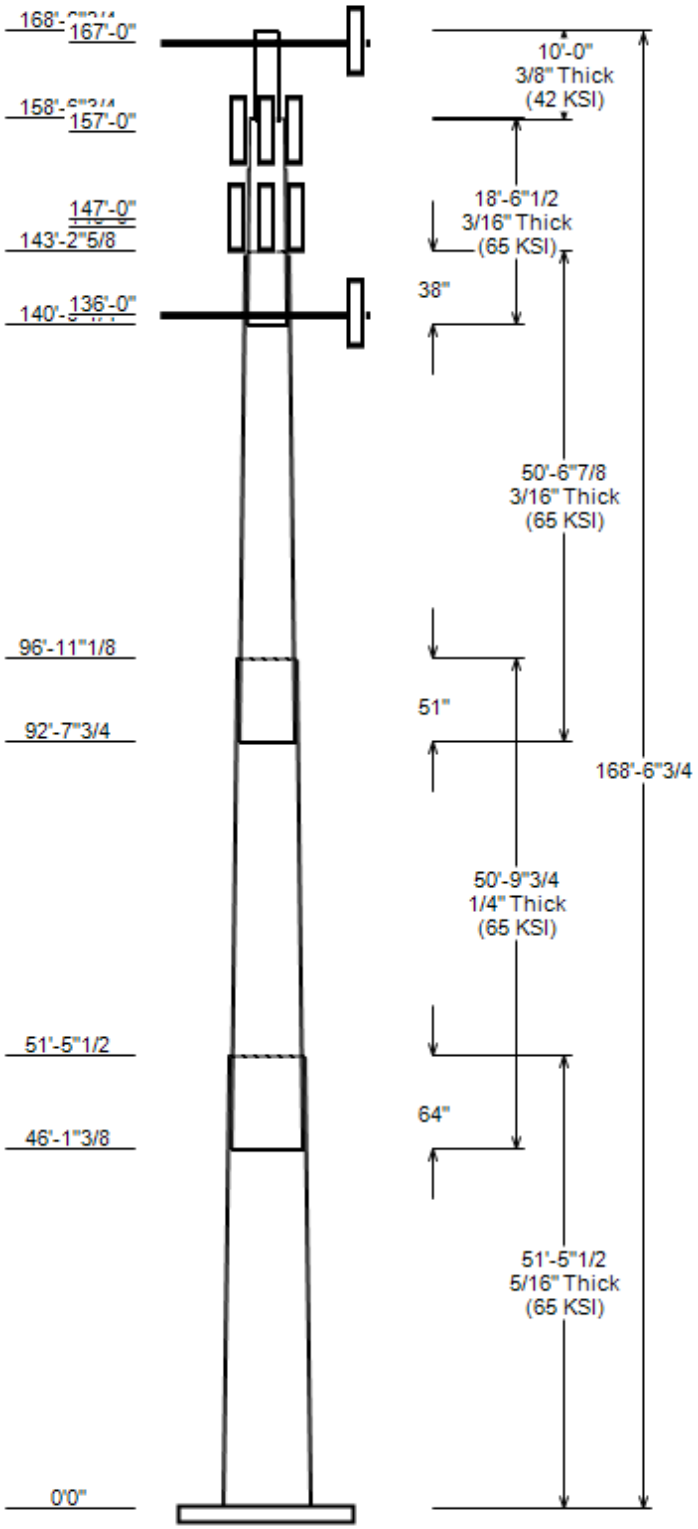
All assets of American Tower Corporation, its affiliates, and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with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

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

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

JOB INFORMATION

Asset :	413782, Washington North CT	Height :	168.56 ft
Client :	VERIZON WIRELESS	Base Width :	47
Code :	ANSI/TIA-222-H	Shape :	18 Sides



SITE PARAMETERS

Nominal Wind: 111.11 mph wind with no ic **Topo Category:** 1

Ice Wind: 38.99 mph wind with 0.850" **Topo Method:** Method 1

Base Elev (ft): 0.00 **Taper :** 0.19100(In/ft) **Topo Feature:**

Structure Class: II **Exposure :** B **S_s :** 0.187 **S_1 :** 0.054

SECTION PROPERTIES

Shaft Section	Length (ft)	Diameter (in) Across Flats Top	Diameter (in) Across Flats Bottom	Thick (in)	Joint Type	Overlap Length (in)	Shape	Steel Grade (ksi)
1	51.458	37.18	47.00	0.312		0.000	18 Sides	65
2	50.810	29.01	38.70	0.250	Slip Joint	64.090	18 Sides	65
3	50.573	20.55	30.20	0.188	Slip Joint	51.380	18 Sides	65
4	18.542	18.00	21.53	0.188	Slip Joint	38.380	18 Sides	65
5	9.998	12.75	12.75	0.375	Butt Joint	0.000	Round	42

DISCRETE APPURTENANCE

Attach Elev (ft)	Force Elev (ft)	Qty	Description
167.0	167.0	3	Kaelus DBCT108F1V92-1
167.0	164.0	3	Raycap DC6-48-60-18-8F ("Squid
167.0	167.0	3	Ericsson Radio 8843 - B2 + B66
167.0	167.0	3	Ericsson RRUS 4478 B14
167.0	167.0	3	Ericsson RRUS 4449 B5, B12
167.0	167.0	3	Generic Round Side Arm
167.0	167.0	3	CCI DMP65R-BU4D
167.0	167.0	3	CCI OPA65R-BU4DA-K
157.0	157.0	3	Commscope TD-850AB-L78-43
157.0	157.0	6	Samsung RF4440d-13A
157.0	157.0	3	Samsung RF4439d-25A
157.0	157.0	1	Raycap RVZDC-6627-PF-48
157.0	157.0	1	Flush Mounts
157.0	157.0	1	Commscope NNH4-45B-R6-V1
157.0	157.0	2	Commscope NNH4-65B-R6H4
147.0	147.0	3	Samsung MT6407-77A
146.0	146.0	1	Flush Mounts
146.0	146.0	1	VZW Unused Reserve (5954.84 sq
136.0	136.0	3	Ericsson Radio 4449 B71 B85A
136.0	136.0	3	Ericsson 4460 BAND 2/25
136.0	136.0	3	Ericsson AIR 6419 B41
136.0	136.0	3	Generic Flat T-Arm
136.0	136.0	3	RFS APXVAARR24_43-U-NA20

LINEAR APPURTENANCE

Elev From (ft)	Elev To (ft)	Description	Exp To Wind
0.0	169.5	1 5/8" Coax	Yes
0.0	167.0	2" conduit	No
0.0	167.0	1 5/8" Coax	Yes
0.0	167.0	0.78" (19.7mm) 8 AWG 6	No
0.0	167.0	0.78" (19.7mm) 8 AWG 6	Yes
0.0	167.0	0.39" (10mm) Fiber Trunk	Yes
0.0	167.0	0.39" (10mm) Fiber Trunk	No
0.0	157.0	1 5/8" Hybriflex	No
0.0	157.0	1 5/8" Coax	No
0.0	157.0	1 5/8" Coax	No
0.0	136.0	1.99" (50.7mm) Hybrid	No
0.0	136.0	1 1/4" Hybriflex Cable	No
0.0	114.5	#20 w/ Angle Brackets	Yes
0.0	114.5	#20 w/ Angle Brackets	Yes

JOB INFORMATION			
Asset :	413782, Washington North CT	Height :	168.56 ft
Client :	VERIZON WIRELESS	Base Width :	47
Code :	ANSI/TIA-222-H	Shape :	18 Sides

LINEAR APPURTENANCE

Elev From (ft)	Elev To (ft)	Description	Exp To Wind
0.0	114.5	#20 w/ Angle Brackets	Yes
0.0	114.5	#20 w/ Angle Brackets	Yes
93.0	108.0	0.75" Thick Flat Plate	Yes
93.0	108.0	0.75" Thick Flat Plate	Yes
93.0	108.0	0.75" Thick Flat Plate	Yes
46.5	76.5	0.75" Thick Flat Plate	Yes
46.5	76.5	0.75" Thick Flat Plate	Yes
46.5	76.5	0.75" Thick Flat Plate	Yes

LOAD CASES

1.2D + 1.0W Normal	111.11 mph wind with no ice
0.9D + 1.0W Normal	111.11 mph wind with no ice
1.2D + 1.0Di + 1.0Wi Nor	38.99 mph wind with 0.850" radial
1.2D + 1.0Ev + 1.0Eh Nor	Seismic
0.9D - 1.0Ev + 1.0Eh Nor	Seismic (Reduced DL)
1.0D + 1.0W Service Norm	60 mph Wind with No Ice

REACTIONS

Load Case	Moment (kip-ft)	Shear (Kip)	Axial (Kip)
1.2D + 1.0W Normal	2463.09	22.75	37.31
0.9D + 1.0W Normal	2407.32	22.73	27.97
1.2D + 1.0Di + 1.0Wi Normal	376.91	3.12	52.91
1.2D + 1.0Ev + 1.0Eh Normal	135.69	0.94	37.25
0.9D - 1.0Ev + 1.0Eh Normal	131.39	0.94	25.84
1.0D + 1.0W Service Normal	637.95	5.95	31.14

DISH DEFLECTIONS

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

ANALYSIS PARAMETERS

Location:	Litchfield County,CT	**Height:**	168.56 ft
Type and Shape:	Custom, Round	**Base Diameter:**	47.00 in
Manufacturer:	EEI	**Top Diameter:**	12.75 in
K_d (non-service):	0.95	**Taper:**	0.1910 in/ft
K_e:	0.98	**Rotation:**	0.000°

ICE & WIND PARAMETERS

Exposure Category:	B	**Design Wind Speed w/o Ice:**	111 mph
Risk Category:	II	**Design Wind Speed w/Ice:**	39 mph
Topo Factor Procedure:	Method 1	**Operational Wind Speed:**	60 mph
Topographic Category:	1	**Design Ice Thickness:**	0.85 in
Crest Height:	0 ft	**HMSL:**	686.00 ft

SEISMIC PARAMETERS

Analysis Method:	Equivalent Lateral Force Method				
Site Class:	D - Stiff Soil			**Period Based on Rayleigh Method (sec):**	3.52
T_L (sec):	6	**P:**	1	**C_s:**	0.030
S_s:	0.187	**S_1:**	0.054	**C_s Max:**	0.030
F_a:	1.600	**F_v:**	2.400	**C_s Min:**	0.030
S_{ds}:	0.199	**S_{d1}:**	0.086		

LOAD CASES

1.2D + 1.0W Normal	111.11 mph wind with no ice
0.9D + 1.0W Normal	111.11 mph wind with no ice
1.2D + 1.0Di + 1.0Wi Normal	38.99 mph wind with 0.850" radial ice
1.2D + 1.0Ev + 1.0Eh Normal	Seismic
0.9D - 1.0Ev + 1.0Eh Normal	Seismic (Reduced DL)
1.0D + 1.0W Service Normal	60 mph Wind with No Ice

SHAFT SECTION PROPERTIES

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint len (in)	Weight (lb)	Bottom Dia (in)	Bottom Elev (ft)	Bottom Area (in²)	Bottom Ix (in⁴)	Bottom W/t Ratio	Bottom D/t Ratio	Top Dia (in)	Top Elev (in)	Top Area (in²)	Top Ix (in⁴)	Top W/t Ratio	Top D/t Ratio	Taper (in/ft)
1-18	51.46	0.3125	65		0.00	7,256	47.00	0.002	46.31	12,752.5	25.11	150.40	37.18	51.46	36.57	6,280.4	19.57	118.98	0.1908
2-18	50.81	0.2500	65	Slip	64.09	4,610	38.70	46.120	30.51	5,699.0	25.89	154.80	29.01	96.93	22.82	2,383.9	19.05	116.02	0.1908
3-18	50.57	0.1875	65	Slip	51.38	2,579	30.20	92.647	17.86	2,032.2	26.99	161.06	20.55	143.22	12.12	634.7	17.91	109.59	0.1908
								140.01								424.7			
4-18	18.54	0.1875	65	Slip	38.38	735	21.53	8	12.70	731.4	18.84	114.85	18.00	158.56	10.60		15.51	95.98	0.1908
								158.56								279.3			
5-R	10.00	0.3750	42	Butt	0.00	496	12.75	2	14.58	279.3	0.00	34.00	12.75	168.56	14.58		0.00	34.00	0.0000

Shaft Weight 15,676

DISCRETE APPURTENANCE PROPERTIES

Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	No Ice Weight (lb)	No Ice EPAa (sf)	No Ice Orientation Factor	Ice Weight (lb)	Ice EPAa (sf)	Ice Orientation Factor
167.00	Ericsson RRUS 4449 B5, B12	3	0.80	0.000	71.00	1.969	0.50	107.97	2.504	0.50
167.00	Generic Round Side Arm	3	1.00	0.000	187.50	5.200	0.67	239.95	6.758	0.67
167.00	CCI DMP65R-BU4D	3	0.80	0.000	67.90	8.280	0.62	171.50	9.441	0.62
167.00	Ericsson RRUS 4478 B14	3	0.80	0.000	59.90	1.842	0.50	91.62	2.357	0.50
167.00	Ericsson Radio 8843 - B2 + B66	3	0.80	0.000	71.90	1.650	0.50	107.24	2.136	0.50
167.00	Raycap DC6-48-60-18-8F ("Squid	3	0.80	-3.000	31.80	1.470	1.00	67.19	1.871	1.00
167.00	Kaelus DBCT108F1V92-1	3	0.80	0.000	13.90	0.633	0.50	28.34	0.946	0.50
167.00	CCI OPA65R-BU4DA-K	3	0.80	0.000	52.50	8.435	0.62	157.65	9.605	0.62
157.00	Samsung RF4439d-25A	3	0.80	0.000	74.70	2.500	0.67	120.27	3.097	0.67
157.00	Samsung RF4440d-13A	6	0.80	0.000	70.30	1.875	0.50	104.70	2.390	0.50
157.00	Commscope TD-850AB-L78-43	3	0.80	0.000	28.70	1.426	0.50	51.32	1.878	0.50
157.00	Raycap RVZDC-6627-PF-48	1	0.80	0.000	32.00	3.781	1.00	94.51	4.535	1.00
157.00	Commscope NNH4-65B-R6H4	2	0.80	0.000	83.30	12.271	0.73	226.54	13.869	0.73
157.00	Commscope NNH4-45B-R6-V1	1	0.80	0.000	80.20	11.545	1.00	211.65	13.150	1.00
157.00	Flush Mounts	1	1.00	0.000	560.00	8.500	1.00	782.40	11.876	1.00
147.00	Samsung MT6407-77A	3	0.80	0.000	81.60	4.709	0.61	139.34	5.569	0.61
146.00	VZW Unused Reserve (5954.84 sq	1	0.80	0.000	0.00	41.353	0.90	0.00	57.662	0.90
146.00	Flush Mounts	1	1.00	0.000	560.00	8.500	1.00	780.85	11.852	1.00
136.00	RFS APXVAARR24_43-U-NA20	3	0.80	0.000	127.90	20.243	0.63	348.57	22.328	0.63
136.00	Generic Flat T-Arm	3	0.75	0.000	312.50	12.900	0.67	459.34	17.497	0.67
136.00	Ericsson Radio 4449 B71 B85A	3	0.80	0.000	75.00	1.650	0.50	108.80	2.127	0.50
136.00	Ericsson 4460 BAND 2/25	3	0.80	0.000	109.00	2.564	0.67	158.68	3.156	0.67
136.00	Ericsson AIR 6419 B41	3	0.80	0.000	83.30	6.322	0.63	168.37	7.273	0.63
Totals	Num Loadings: 23	61			6,167.90			10,529.14		

LINEAR APPURTENANCE PROPERTIES

Load Case Azimuth (deg) : _

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Flat	Max Coax/ Row	Dist Between Rows(in)	Dist Between Cols(in)	Azimuth (deg)	Dist From Face (in)	Exposed To Wind	Carrier
0.00	169.50	6	1 5/8" Coax	1.98	0.82	N	6	1	1	90	1	Y	AT&T MOBILITY
0.00	167.00	6	1 5/8" Coax	1.98	0.82	N	6	1	1	90	1	Y	AT&T MOBILITY
0.00	167.00	4	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	167.00	3	2" conduit	2.38	3.65	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	167.00	2	0.78" (19.7mm) 8 AWG	0.78	0.59	N	2	0	1	80	1	Y	AT&T MOBILITY
0.00	167.00	2	0.39" (10mm) Fiber Tr	0.39	0.06	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	167.00	1	0.39" (10mm) Fiber Tr	0.39	0.06	N	1	0	0	75	1	Y	AT&T MOBILITY
0.00	157.00	12	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	VERIZON WIREL
0.00	157.00	6	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	VERIZON WIREL
0.00	157.00	1	1 5/8" Hybriflex	1.98	1.3	N	0	0	0	0	0	N	VERIZON WIREL
0.00	136.00	2	1 1/4" Hybriflex Cabl	1.54	1	N	0	0	0	0	0	N	T-MOBILE
0.00	136.00	1	1.99" (50.7mm) Hybrid	1.99	1.9	N	0	0	0	0	0	N	T-MOBILE
0.00	114.50	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	270	0	Y	
0.00	114.50	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	180	0	Y	
0.00	114.50	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	0	0	Y	
0.00	114.50	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	90	0	Y	
93.00	108.00	1	0.75" Thick Flat Plat	0.75	0	Y	1	0	0	80	0	Y	
93.00	108.00	1	0.75" Thick Flat Plat	0.75	0	Y	1	0	0	200	0	Y	
93.00	108.00	1	0.75" Thick Flat Plat	0.75	0	Y	1	0	0	320	0	Y	

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Flat	Max Coax/ Row	Dist Between Rows(in)	Dist Between Cols(in)	Azimuth (deg)	Dist From Face (in)	Exposed To Wind	Carrier
46.50	76.50	1	0.75" Thick Flat Plat	0.75	0	Y	1	0	0	140	0	Y	
46.50	76.50	1	0.75" Thick Flat Plat	0.75	0	Y	1	0	0	10	0	Y	
46.50	76.50	1	0.75" Thick Flat Plat	0.75	0	Y	1	0	0	240	0	Y	

SEGMENT PROPERTIES

(Max Len: 5.ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in^3)	Z (in^3)	Weight (lb)
0.00		0.3125	47.000	46.306	12,752.50	25.11	150.40	71.9	534.4	0.0	0.0
5.00		0.3125	46.046	45.360	11,986.60	24.57	147.35	72.5	512.7	0.0	779.8
10.00		0.3125	45.092	44.414	11,252.10	24.03	144.29	73.1	491.5	0.0	763.7
15.00		0.3125	44.138	43.468	10,548.10	23.49	141.24	73.8	470.7	0.0	747.6
20.00		0.3125	43.184	42.522	9,874.20	22.96	138.19	74.4	450.4	0.0	731.5
25.00		0.3125	42.230	41.575	9,229.50	22.42	135.14	75	430.5	0.0	715.4
30.00		0.3125	41.276	40.629	8,613.60	21.88	132.08	75.7	411.0	0.0	699.3
35.00		0.3125	40.322	39.683	8,025.70	21.34	129.03	76.3	392.0	0.0	683.2
40.00		0.3125	39.368	38.737	7,465.20	20.80	125.98	76.9	373.5	0.0	667.1
45.00		0.3125	38.414	37.791	6,931.40	20.26	122.92	77.6	355.4	0.0	651.0
46.12	Bot - Section 2	0.3125	38.201	37.579	6,815.70	20.14	122.24	77.7	351.4	0.0	143.3
50.00		0.3125	37.460	36.844	6,423.70	19.73	119.87	78.2	337.8	0.0	890.9
51.46	Top - Section 1	0.2500	37.682	29.701	5,257.80	25.17	150.73	71.8	274.8	0.0	330.1
55.00		0.2500	37.006	29.165	4,978.20	24.69	148.02	72.4	265.0	0.0	354.7
60.00		0.2500	36.052	28.408	4,600.50	24.02	144.21	73.2	251.3	0.0	489.8
65.00		0.2500	35.098	27.651	4,242.50	23.34	140.39	73.9	238.1	0.0	476.9
70.00		0.2500	34.144	26.894	3,903.50	22.67	136.58	74.7	225.2	0.0	464.0
75.00		0.2500	33.190	26.137	3,583.10	22.00	132.76	75.5	212.6	0.0	451.1
80.00		0.2500	32.236	25.380	3,280.70	21.33	128.94	76.3	200.4	0.0	438.3
85.00		0.2500	31.282	24.623	2,995.80	20.65	125.13	77.1	188.6	0.0	425.4
90.00		0.2500	30.328	23.866	2,727.90	19.98	121.31	77.9	177.2	0.0	412.5
92.65	Bot - Section 3	0.2500	29.823	23.465	2,592.90	19.62	119.29	78.3	171.2	0.0	213.1
95.00		0.2500	29.374	23.109	2,476.50	19.31	117.50	78.7	166.1	0.0	328.5
96.93	Top - Section 2	0.1875	29.381	17.373	1,870.80	26.22	156.70	70.6	125.4	0.0	265.2
100.00		0.1875	28.795	17.024	1,760.30	25.67	153.57	71.2	120.4	0.0	179.8
105.00		0.1875	27.841	16.457	1,590.00	24.77	148.49	72.3	112.5	0.0	284.8
110.00		0.1875	26.887	15.889	1,431.10	23.87	143.40	73.3	104.8	0.0	275.2
115.00		0.1875	25.933	15.321	1,283.10	22.98	138.31	74.4	97.4	0.0	265.5
120.00		0.1875	24.979	14.754	1,145.70	22.08	133.22	75.4	90.3	0.0	255.8
125.00		0.1875	24.025	14.186	1,018.40	21.18	128.13	76.5	83.5	0.0	246.2
130.00		0.1875	23.071	13.618	901.00	20.29	123.05	77.5	76.9	0.0	236.5
135.00		0.1875	22.117	13.050	792.90	19.39	117.96	78.6	70.6	0.0	226.9
136.00		0.1875	21.926	12.937	772.40	19.21	116.94	78.8	69.4	0.0	44.2
140.00		0.1875	21.163	12.483	693.90	18.49	112.87	79.7	64.6	0.0	173.0
140.02	Bot - Section 4	0.1875	21.159	12.480	693.50	18.49	112.85	79.7	64.6	0.0	0.9
143.22	Top - Section 3	0.1875	20.924	12.340	670.40	18.27	111.59	79.9	63.1	0.0	270.1
145.00		0.1875	20.584	12.138	638.00	17.95	109.78	80.3	61.0	0.0	74.2
146.00		0.1875	20.393	12.024	620.30	17.77	108.76	80.5	59.9	0.0	41.1
147.00		0.1875	20.202	11.911	602.80	17.59	107.75	80.7	58.8	0.0	40.7
150.00		0.1875	19.630	11.570	552.60	17.05	104.69	81.3	55.4	0.0	119.9
155.00		0.1875	18.676	11.003	475.20	16.15	99.61	82.4	50.1	0.0	192.0
157.00		0.1875	18.294	10.775	446.40	15.79	97.57	82.6	48.1	0.0	74.1
158.56	Top - Section 4	0.1875	17.996	10.598	424.70	15.51	95.98	82.6	46.5	0.0	56.8
158.56	Bot - Section 5	0.3750	12.750	14.579	279.30	0.00	34.00	42	43.8	57.4	
160.00		0.3750	12.750	14.579	279.30	0.00	34.00	42	43.8	57.4	71.3
165.00		0.3750	12.750	14.579	279.30	0.00	34.00	42	43.8	57.4	248.0
167.00		0.3750	12.750	14.579	279.30	0.00	34.00	42	43.8	57.4	99.2
168.56		0.3750	12.750	14.579	279.30	0.00	34.00	42	43.8	57.4	77.4
									Totals:		15,676.0

Load Case: 1.2D + 1.0W Normal 111.11 mph wind with no ice 34 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	-37.31	-22.75	0.00	-2,463.1	0.00	2,463.09	2,995.17	812.68	3,426.89	2,880.56	0	0	0.868
5.00	-35.89	-22.45	0.00	-2,349.3	0.00	2,349.34	2,959.81	796.07	3,288.29	2,788.01	0.14	-0.27	0.856
10.00	-34.50	-22.13	0.00	-2,237.1	0.00	2,237.11	2,923.38	779.47	3,152.55	2,695.86	0.57	-0.54	0.842
15.00	-33.12	-21.81	0.00	-2,126.5	0.00	2,126.46	2,885.86	762.86	3,019.67	2,604.17	1.28	-0.82	0.829
20.00	-31.77	-21.47	0.00	-2,017.4	0.00	2,017.43	2,847.27	746.25	2,889.65	2,513.02	2.29	-1.1	0.815
25.00	-30.44	-21.13	0.00	-1,910.1	0.00	1,910.06	2,807.60	729.65	2,762.49	2,422.47	3.59	-1.38	0.800
30.00	-29.13	-20.78	0.00	-1,804.4	0.00	1,804.40	2,766.85	713.04	2,638.19	2,332.58	5.18	-1.66	0.785
35.00	-27.84	-20.39	0.00	-1,700.5	0.00	1,700.52	2,725.03	696.44	2,516.75	2,243.41	7.08	-1.95	0.769
40.00	-26.58	-19.99	0.00	-1,598.6	0.00	1,598.56	2,682.12	679.83	2,398.18	2,155.03	9.29	-2.25	0.753
45.00	-25.37	-19.62	0.00	-1,498.6	0.00	1,498.59	2,638.14	663.22	2,282.46	2,067.50	11.8	-2.54	0.735
46.12	-25.08	-19.41	0.00	-1,476.7	0.00	1,476.67	2,628.17	659.51	2,257.00	2,048.07	12.4	-2.61	0.731
50.00	-23.68	-19.06	0.00	-1,401.3	0.00	1,401.31	2,593.08	646.62	2,169.61	1,980.89	14.62	-2.84	0.717
51.46	-23.14	-18.81	0.00	-1,373.5	0.00	1,373.52	1,919.29	521.25	1,762.26	1,479.94	15.5	-2.93	0.941
55.00	-22.38	-18.38	0.00	-1,306.9	0.00	1,306.89	1,899.35	511.84	1,699.21	1,437.95	17.76	-3.15	0.922
60.00	-21.34	-17.85	0.00	-1,215.0	0.00	1,214.97	1,870.29	498.56	1,612.16	1,378.95	21.24	-3.51	0.894
65.00	-20.32	-17.31	0.00	-1,125.7	0.00	1,125.71	1,840.15	485.27	1,527.40	1,320.32	25.11	-3.87	0.865
70.00	-19.32	-16.75	0.00	-1,039.2	0.00	1,039.17	1,808.93	471.99	1,444.92	1,262.13	29.35	-4.23	0.835
75.00	-18.35	-16.19	0.00	-955.4	0.00	955.40	1,776.63	458.70	1,364.74	1,204.45	33.98	-4.6	0.805
80.00	-17.40	-15.62	0.00	-874.4	0.00	874.44	1,743.25	445.42	1,286.84	1,147.34	38.98	-4.96	0.773
85.00	-16.47	-15.05	0.00	-796.3	0.00	796.33	1,708.79	432.13	1,211.23	1,090.86	44.36	-5.32	0.741
90.00	-15.58	-14.55	0.00	-721.1	0.00	721.11	1,673.26	418.85	1,137.91	1,035.07	50.12	-5.68	0.707
92.65	-15.11	-14.25	0.00	-682.6	0.00	682.61	1,654.02	411.82	1,100.04	1,005.86	53.32	-5.88	0.689
95.00	-14.53	-13.97	0.00	-649.1	0.00	649.06	1,636.65	405.56	1,066.88	980.05	56.26	-6.05	0.672
96.93	-14.05	-13.68	0.00	-622.1	0.00	622.14	1,103.30	304.90	803.95	663.68	58.72	-6.19	0.952
100.00	-13.58	-13.27	0.00	-580.1	0.00	580.08	1,091.08	298.78	771.98	643.06	62.77	-6.41	0.916
105.00	-12.84	-12.70	0.00	-513.8	0.00	513.76	1,070.32	288.82	721.36	609.65	69.7	-6.85	0.857
110.00	-12.11	-12.13	0.00	-450.3	0.00	450.26	1,048.49	278.85	672.45	576.47	77.09	-7.28	0.794
115.00	-11.41	-11.63	0.00	-389.6	0.00	389.61	1,025.57	268.89	625.26	543.59	84.92	-7.7	0.730
120.00	-10.81	-11.35	0.00	-331.4	0.00	331.44	1,001.58	258.92	579.79	511.06	93.18	-8.1	0.661
125.00	-10.22	-11.05	0.00	-274.7	0.00	274.69	976.51	248.96	536.03	478.95	101.84	-8.48	0.586
130.00	-9.66	-10.75	0.00	-219.4	0.00	219.42	950.36	239.00	493.99	447.32	110.87	-8.82	0.503
135.00	-9.12	-10.53	0.00	-165.7	0.00	165.68	923.14	229.03	453.66	416.25	120.24	-9.12	0.410
136.00	-6.87	-7.73	0.00	-155.2	0.00	155.15	917.56	227.04	445.80	410.10	122.15	-9.18	0.387
140.00	-6.48	-7.56	0.00	-124.2	0.00	124.24	894.83	219.07	415.05	385.78	129.9	-9.39	0.330
140.02	-6.48	-7.48	0.00	-124.1	0.00	124.09	894.71	219.03	414.90	385.66	129.94	-9.39	0.330
143.22	-6.02	-7.27	0.00	-100.2	0.00	100.16	887.57	216.57	405.65	378.25	136.25	-9.54	0.273
145.00	-5.85	-7.17	0.00	-87.2	0.00	87.21	877.13	213.02	392.46	367.62	139.8	-9.61	0.245
146.00	-5.32	-5.66	0.00	-80.0	0.00	80.03	871.21	211.03	385.15	361.69	141.81	-9.65	0.228
147.00	-4.99	-5.24	0.00	-74.4	0.00	74.38	865.24	209.04	377.91	355.79	143.83	-9.68	0.215
150.00	-4.73	-4.98	0.00	-58.6	0.00	58.65	847.09	203.06	356.61	338.27	149.91	-9.78	0.180
155.00	-4.29	-4.72	0.00	-33.7	0.00	33.73	815.97	193.10	322.48	309.71	160.17	-9.9	0.115
157.00	-2.55	-2.65	0.00	-24.3	0.00	24.29	800.56	189.11	309.31	297.52	164.31	-9.93	0.085
158.56	-2.45	-2.56	0.00	-20.2	0.00	20.16	787.38	186.00	299.21	287.76	167.54	-9.95	0.073
158.56	-2.45	-2.56	0.00	-20.2	0.00	20.16	551.08	165.33	179.87	180.95	167.54	-9.95	0.116
160.00	-2.34	-2.41	0.00	-16.5	0.00	16.48	551.08	165.33	179.87	180.95	170.53	-9.97	0.096
165.00	-1.93	-2.18	0.00	-4.4	0.00	4.44	551.08	165.33	179.87	180.95	180.95	-10.02	0.028
167.00	-0.09	-0.05	0.00	-0.1	0.00	0.08	551.08	165.33	179.87	180.95	185.13	-10.03	0.001
168.56	0.00	-0.03	0.00	0.0	0.00	0.00	551.08	165.33	179.87	180.95	188.39	-10.03	0.000

Load Case: 0.9D + 1.0W Normal — 111.11 mph wind with no ice — 33 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	-27.97	-22.73	0.00	-2,407.3	0.00	2,407.32	2,995.17	812.68	3,426.89	2,880.56	0	0	0.846
5.00	-26.88	-22.38	0.00	-2,293.7	0.00	2,293.69	2,959.81	796.07	3,288.29	2,788.01	0.14	-0.26	0.833
10.00	-25.81	-22.02	0.00	-2,181.8	0.00	2,181.81	2,923.38	779.47	3,152.55	2,695.86	0.56	-0.53	0.819
15.00	-24.76	-21.66	0.00	-2,071.7	0.00	2,071.71	2,885.86	762.86	3,019.67	2,604.17	1.25	-0.8	0.805
20.00	-23.72	-21.29	0.00	-1,963.4	0.00	1,963.43	2,847.27	746.25	2,889.65	2,513.02	2.23	-1.07	0.790
25.00	-22.71	-20.91	0.00	-1,857.0	0.00	1,857.00	2,807.60	729.65	2,762.49	2,422.47	3.5	-1.34	0.775
30.00	-21.70	-20.52	0.00	-1,752.4	0.00	1,752.45	2,766.85	713.04	2,638.19	2,332.58	5.06	-1.62	0.760
35.00	-20.72	-20.11	0.00	-1,649.8	0.00	1,649.84	2,725.03	696.44	2,516.75	2,243.41	6.91	-1.9	0.744
40.00	-19.76	-19.68	0.00	-1,549.3	0.00	1,549.29	2,682.12	679.83	2,398.18	2,155.03	9.05	-2.19	0.727
45.00	-18.85	-19.31	0.00	-1,450.9	0.00	1,450.87	2,638.14	663.22	2,282.46	2,067.50	11.49	-2.47	0.710
46.12	-18.62	-19.07	0.00	-1,429.3	0.00	1,429.30	2,628.17	659.51	2,257.00	2,048.07	12.08	-2.54	0.706
50.00	-17.56	-18.72	0.00	-1,355.2	0.00	1,355.25	2,593.08	646.62	2,169.61	1,980.89	14.24	-2.76	0.692
51.46	-17.15	-18.47	0.00	-1,327.9	0.00	1,327.94	1,919.29	521.25	1,762.26	1,479.94	15.09	-2.85	0.907
55.00	-16.57	-18.02	0.00	-1,262.5	0.00	1,262.54	1,899.35	511.84	1,699.21	1,437.95	17.29	-3.06	0.888
60.00	-15.77	-17.46	0.00	-1,172.5	0.00	1,172.46	1,870.29	498.56	1,612.16	1,378.95	20.68	-3.41	0.860
65.00	-14.99	-16.90	0.00	-1,085.2	0.00	1,085.16	1,840.15	485.27	1,527.40	1,320.32	24.43	-3.76	0.831
70.00	-14.24	-16.32	0.00	-1,000.7	0.00	1,000.68	1,808.93	471.99	1,444.92	1,262.13	28.54	-4.11	0.802
75.00	-13.50	-15.75	0.00	-919.1	0.00	919.06	1,776.63	458.70	1,364.74	1,204.45	33.03	-4.45	0.772
80.00	-12.78	-15.17	0.00	-840.3	0.00	840.32	1,743.25	445.42	1,286.84	1,147.34	37.88	-4.8	0.741
85.00	-12.08	-14.58	0.00	-764.5	0.00	764.50	1,708.79	432.13	1,211.23	1,090.86	43.09	-5.15	0.709
90.00	-11.40	-14.09	0.00	-691.6	0.00	691.60	1,673.26	418.85	1,137.91	1,035.07	48.66	-5.5	0.676
92.65	-11.05	-13.79	0.00	-654.3	0.00	654.33	1,654.02	411.82	1,100.04	1,005.86	51.76	-5.68	0.658
95.00	-10.62	-13.51	0.00	-621.9	0.00	621.88	1,636.65	405.56	1,066.88	980.05	54.6	-5.85	0.642
96.93	-10.26	-13.22	0.00	-595.8	0.00	595.85	1,103.30	304.90	803.95	663.68	56.98	-5.98	0.909
100.00	-9.90	-12.79	0.00	-555.2	0.00	555.22	1,091.08	298.78	771.98	643.06	60.89	-6.19	0.874
105.00	-9.34	-12.22	0.00	-491.2	0.00	491.25	1,070.32	288.82	721.36	609.65	67.59	-6.62	0.816
110.00	-8.80	-11.65	0.00	-430.2	0.00	430.16	1,048.49	278.85	672.45	576.47	74.73	-7.03	0.756
115.00	-8.27	-11.15	0.00	-371.9	0.00	371.92	1,025.57	268.89	625.26	543.59	82.29	-7.43	0.694
120.00	-7.81	-10.86	0.00	-316.2	0.00	316.18	1,001.58	258.92	579.79	511.06	90.25	-7.81	0.628
125.00	-7.37	-10.57	0.00	-261.9	0.00	261.87	976.51	248.96	536.03	478.95	98.6	-8.17	0.556
130.00	-6.95	-10.27	0.00	-209.0	0.00	209.01	950.36	239.00	493.99	447.32	107.3	-8.5	0.476
135.00	-6.55	-10.06	0.00	-157.7	0.00	157.66	923.14	229.03	453.66	416.25	116.33	-8.79	0.388
136.00	-4.93	-7.37	0.00	-147.6	0.00	147.60	917.56	227.04	445.80	410.10	118.17	-8.84	0.366
140.00	-4.64	-7.22	0.00	-118.1	0.00	118.10	894.83	219.07	415.05	385.78	125.63	-9.04	0.312
140.02	-4.64	-7.14	0.00	-118.0	0.00	117.95	894.71	219.03	414.90	385.66	125.67	-9.04	0.312
143.22	-4.30	-6.95	0.00	-95.1	0.00	95.13	887.57	216.57	405.65	378.25	131.75	-9.18	0.257
145.00	-4.17	-6.86	0.00	-82.8	0.00	82.75	877.13	213.02	392.46	367.62	135.17	-9.25	0.231
146.00	-3.83	-5.37	0.00	-75.9	0.00	75.89	871.21	211.03	385.15	361.69	137.1	-9.28	0.215
147.00	-3.59	-4.98	0.00	-70.5	0.00	70.52	865.24	209.04	377.91	355.79	139.04	-9.32	0.203
150.00	-3.40	-4.73	0.00	-55.6	0.00	55.59	847.09	203.06	356.61	338.27	144.9	-9.41	0.169
155.00	-3.08	-4.48	0.00	-32.0	0.00	31.96	815.97	193.10	322.48	309.71	154.77	-9.52	0.108
157.00	-1.84	-2.51	0.00	-23.0	0.00	23.01	800.56	189.11	309.31	297.52	158.75	-9.55	0.080
158.56	-1.76	-2.42	0.00	-19.1	0.00	19.09	787.38	186.00	299.21	287.76	161.87	-9.57	0.069
158.56	-1.76	-2.42	0.00	-19.1	0.00	19.09	551.08	165.33	179.87	180.95	161.87	-9.57	0.109
160.00	-1.69	-2.28	0.00	-15.6	0.00	15.61	551.08	165.33	179.87	180.95	164.74	-9.59	0.090
165.00	-1.38	-2.07	0.00	-4.2	0.00	4.22	551.08	165.33	179.87	180.95	174.77	-9.64	0.026
167.00	-0.07	-0.05	0.00	-0.1	0.00	0.07	551.08	165.33	179.87	180.95	178.79	-9.65	0.001
168.56	0.00	-0.03	0.00	0.0	0.00	0.00	551.08	165.33	179.87	180.95	181.92	-9.65	0.000

Load Case: 1.2D + 1.0Di + 1.0Wi Normal		38.99 mph wind with 0.850" radial ice			32 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	-52.91	-3.12	0.00	-376.9	0.00	376.91	2,995.17	812.68	3,426.89	2,880.56	0	0	0.149
5.00	-51.24	-3.09	0.00	-361.3	0.00	361.31	2,959.81	796.07	3,288.29	2,788.01	0.02	-0.04	0.147
10.00	-49.56	-3.06	0.00	-345.9	0.00	345.86	2,923.38	779.47	3,152.55	2,695.86	0.09	-0.08	0.145
15.00	-47.88	-3.03	0.00	-330.6	0.00	330.56	2,885.86	762.86	3,019.67	2,604.17	0.2	-0.13	0.144
20.00	-46.22	-3.00	0.00	-315.4	0.00	315.41	2,847.27	746.25	2,889.65	2,513.02	0.35	-0.17	0.142
25.00	-44.57	-2.96	0.00	-300.4	0.00	300.43	2,807.60	729.65	2,762.49	2,422.47	0.55	-0.21	0.140
30.00	-42.94	-2.93	0.00	-285.6	0.00	285.61	2,766.85	713.04	2,638.19	2,332.58	0.8	-0.26	0.138
35.00	-41.33	-2.89	0.00	-271.0	0.00	270.96	2,725.03	696.44	2,516.75	2,243.41	1.1	-0.3	0.136
40.00	-39.74	-2.85	0.00	-256.5	0.00	256.49	2,682.12	679.83	2,398.18	2,155.03	1.44	-0.35	0.134
45.00	-38.17	-2.82	0.00	-242.2	0.00	242.22	2,638.14	663.22	2,282.46	2,067.50	1.84	-0.4	0.132
46.12	-37.82	-2.81	0.00	-239.1	0.00	239.07	2,628.17	659.51	2,257.00	2,048.07	1.93	-0.41	0.131
50.00	-36.13	-2.77	0.00	-228.2	0.00	228.17	2,593.08	646.62	2,169.61	1,980.89	2.28	-0.45	0.129
51.46	-35.49	-2.75	0.00	-224.1	0.00	224.12	1,919.29	521.25	1,762.26	1,479.94	2.42	-0.46	0.170
55.00	-34.50	-2.72	0.00	-214.4	0.00	214.38	1,899.35	511.84	1,699.21	1,437.95	2.78	-0.5	0.167
60.00	-33.11	-2.67	0.00	-200.8	0.00	200.79	1,870.29	498.56	1,612.16	1,378.95	3.33	-0.56	0.163
65.00	-31.74	-2.62	0.00	-187.4	0.00	187.44	1,840.15	485.27	1,527.40	1,320.32	3.94	-0.62	0.159
70.00	-30.39	-2.58	0.00	-174.3	0.00	174.31	1,808.93	471.99	1,444.92	1,262.13	4.62	-0.68	0.155
75.00	-29.06	-2.52	0.00	-161.4	0.00	161.44	1,776.63	458.70	1,364.74	1,204.45	5.37	-0.74	0.150
80.00	-27.75	-2.47	0.00	-148.8	0.00	148.82	1,743.25	445.42	1,286.84	1,147.34	6.17	-0.8	0.146
85.00	-26.46	-2.41	0.00	-136.5	0.00	136.47	1,708.79	432.13	1,211.23	1,090.86	7.04	-0.86	0.141
90.00	-25.20	-2.36	0.00	-124.4	0.00	124.41	1,673.26	418.85	1,137.91	1,035.07	7.98	-0.92	0.135
92.65	-24.54	-2.33	0.00	-118.2	0.00	118.15	1,654.02	411.82	1,100.04	1,005.86	8.5	-0.96	0.132
95.00	-23.77	-2.30	0.00	-112.7	0.00	112.66	1,636.65	405.56	1,066.88	980.05	8.98	-0.99	0.130
96.93	-23.16	-2.27	0.00	-108.2	0.00	108.22	1,103.30	304.90	803.95	663.68	9.39	-1.01	0.184
100.00	-22.46	-2.23	0.00	-101.2	0.00	101.24	1,091.08	298.78	771.98	643.06	10.05	-1.05	0.178
105.00	-21.35	-2.17	0.00	-90.1	0.00	90.09	1,070.32	288.82	721.36	609.65	11.19	-1.13	0.168
110.00	-20.25	-2.11	0.00	-79.2	0.00	79.23	1,048.49	278.85	672.45	576.47	12.41	-1.2	0.157
115.00	-19.20	-2.05	0.00	-68.7	0.00	68.66	1,025.57	268.89	625.26	543.59	13.71	-1.28	0.145
120.00	-18.31	-2.00	0.00	-58.4	0.00	58.40	1,001.58	258.92	579.79	511.06	15.09	-1.35	0.133
125.00	-17.43	-1.94	0.00	-48.4	0.00	48.41	976.51	248.96	536.03	478.95	16.54	-1.41	0.119
130.00	-16.57	-1.88	0.00	-38.7	0.00	38.70	950.36	239.00	493.99	447.32	18.05	-1.47	0.104
135.00	-15.73	-1.84	0.00	-29.3	0.00	29.29	923.14	229.03	453.66	416.25	19.62	-1.53	0.087
136.00	-11.83	-1.38	0.00	-27.4	0.00	27.45	917.56	227.04	445.80	410.10	19.95	-1.54	0.080
140.00	-11.19	-1.34	0.00	-22.0	0.00	21.95	894.83	219.07	415.05	385.78	21.25	-1.57	0.069
140.02	-11.19	-1.33	0.00	-21.9	0.00	21.92	894.71	219.03	414.90	385.66	21.26	-1.58	0.069
143.22	-10.52	-1.29	0.00	-17.7	0.00	17.68	887.57	216.57	405.65	378.25	22.32	-1.6	0.059
145.00	-10.24	-1.27	0.00	-15.4	0.00	15.38	877.13	213.02	392.46	367.62	22.92	-1.61	0.054
146.00	-9.25	-1.00	0.00	-14.1	0.00	14.12	871.21	211.03	385.15	361.69	23.26	-1.62	0.050
147.00	-8.67	-0.93	0.00	-13.1	0.00	13.12	865.24	209.04	377.91	355.79	23.6	-1.63	0.047
150.00	-8.21	-0.88	0.00	-10.3	0.00	10.34	847.09	203.06	356.61	338.27	24.63	-1.64	0.040
155.00	-7.45	-0.82	0.00	-6.0	0.00	5.95	815.97	193.10	322.48	309.71	26.36	-1.66	0.028
157.00	-4.44	-0.47	0.00	-4.3	0.00	4.30	800.56	189.11	309.31	297.52	27.06	-1.67	0.020
158.56	-4.24	-0.46	0.00	-3.6	0.00	3.56	787.38	186.00	299.21	287.76	27.61	-1.67	0.018
158.56	-4.24	-0.46	0.00	-3.6	0.00	3.56	551.08	165.33	179.87	180.95	27.61	-1.67	0.027
160.00	-4.05	-0.43	0.00	-2.9	0.00	2.90	551.08	165.33	179.87	180.95	28.11	-1.68	0.023
165.00	-3.36	-0.37	0.00	-0.8	0.00	0.77	551.08	165.33	179.87	180.95	29.88	-1.69	0.010
167.00	-0.15	-0.01	0.00	-0.0	0.00	0.02	551.08	165.33	179.87	180.95	30.58	-1.69	0.000
168.56	0.00	-0.01	0.00	0.0	0.00	0.00	551.08	165.33	179.87	180.95	31.13	-1.69	0.000

Load Case: 1.0D + 1.0W Service Normal 60 mph Wind with No Ice 32 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	-31.14	-5.95	0.00	-638.0	0.00	637.95	2,995.17	812.68	3,426.89	2,880.56	0	0	0.232
5.00	-30.03	-5.86	0.00	-608.2	0.00	608.21	2,959.81	796.07	3,288.29	2,788.01	0.04	-0.07	0.228
10.00	-28.95	-5.77	0.00	-578.9	0.00	578.91	2,923.38	779.47	3,152.55	2,695.86	0.15	-0.14	0.225
15.00	-27.88	-5.68	0.00	-550.0	0.00	550.05	2,885.86	762.86	3,019.67	2,604.17	0.33	-0.21	0.221
20.00	-26.82	-5.59	0.00	-521.6	0.00	521.64	2,847.27	746.25	2,889.65	2,513.02	0.59	-0.28	0.217
25.00	-25.79	-5.49	0.00	-493.7	0.00	493.70	2,807.60	729.65	2,762.49	2,422.47	0.93	-0.36	0.213
30.00	-24.76	-5.40	0.00	-466.2	0.00	466.23	2,766.85	713.04	2,638.19	2,332.58	1.34	-0.43	0.209
35.00	-23.76	-5.29	0.00	-439.2	0.00	439.25	2,725.03	696.44	2,516.75	2,243.41	1.83	-0.51	0.205
40.00	-22.77	-5.18	0.00	-412.8	0.00	412.79	2,682.12	679.83	2,398.18	2,155.03	2.4	-0.58	0.200
45.00	-21.80	-5.09	0.00	-386.9	0.00	386.87	2,638.14	663.22	2,282.46	2,067.50	3.05	-0.66	0.195
46.12	-21.58	-5.03	0.00	-381.2	0.00	381.18	2,628.17	659.51	2,257.00	2,048.07	3.21	-0.67	0.194
50.00	-20.45	-4.94	0.00	-361.7	0.00	361.66	2,593.08	646.62	2,169.61	1,980.89	3.78	-0.73	0.191
51.46	-20.02	-4.87	0.00	-354.5	0.00	354.46	1,919.29	521.25	1,762.26	1,479.94	4.01	-0.76	0.250
55.00	-19.44	-4.76	0.00	-337.2	0.00	337.20	1,899.35	511.84	1,699.21	1,437.95	4.59	-0.81	0.245
60.00	-18.63	-4.62	0.00	-313.4	0.00	313.41	1,870.29	498.56	1,612.16	1,378.95	5.5	-0.91	0.237
65.00	-17.83	-4.47	0.00	-290.3	0.00	290.33	1,840.15	485.27	1,527.40	1,320.32	6.49	-1	0.230
70.00	-17.05	-4.33	0.00	-268.0	0.00	267.97	1,808.93	471.99	1,444.92	1,262.13	7.59	-1.09	0.222
75.00	-16.28	-4.18	0.00	-246.3	0.00	246.34	1,776.63	458.70	1,364.74	1,204.45	8.79	-1.19	0.214
80.00	-15.52	-4.03	0.00	-225.4	0.00	225.45	1,743.25	445.42	1,286.84	1,147.34	10.08	-1.28	0.205
85.00	-14.77	-3.88	0.00	-205.3	0.00	205.30	1,708.79	432.13	1,211.23	1,090.86	11.47	-1.37	0.197
90.00	-14.04	-3.75	0.00	-185.9	0.00	185.91	1,673.26	418.85	1,137.91	1,035.07	12.96	-1.47	0.188
92.65	-13.66	-3.67	0.00	-176.0	0.00	175.98	1,654.02	411.82	1,100.04	1,005.86	13.79	-1.52	0.183
95.00	-13.19	-3.60	0.00	-167.3	0.00	167.33	1,636.65	405.56	1,066.88	980.05	14.55	-1.56	0.179
96.93	-12.80	-3.53	0.00	-160.4	0.00	160.39	1,103.30	304.90	803.95	663.68	15.19	-1.6	0.253
100.00	-12.42	-3.42	0.00	-149.6	0.00	149.56	1,091.08	298.78	771.98	643.06	16.23	-1.65	0.244
105.00	-11.82	-3.27	0.00	-132.5	0.00	132.47	1,070.32	288.82	721.36	609.65	18.03	-1.77	0.228
110.00	-11.23	-3.12	0.00	-116.1	0.00	116.12	1,048.49	278.85	672.45	576.47	19.94	-1.88	0.212
115.00	-10.66	-2.99	0.00	-100.5	0.00	100.51	1,025.57	268.89	625.26	543.59	21.96	-1.99	0.195
120.00	-10.17	-2.92	0.00	-85.5	0.00	85.53	1,001.58	258.92	579.79	511.06	24.1	-2.09	0.178
125.00	-9.70	-2.85	0.00	-70.9	0.00	70.93	976.51	248.96	536.03	478.95	26.34	-2.19	0.158
130.00	-9.24	-2.77	0.00	-56.7	0.00	56.69	950.36	239.00	493.99	447.32	28.68	-2.28	0.137
135.00	-8.80	-2.71	0.00	-42.8	0.00	42.85	923.14	229.03	453.66	416.25	31.11	-2.36	0.113
136.00	-6.61	-1.99	0.00	-40.1	0.00	40.14	917.56	227.04	445.80	410.10	31.6	-2.37	0.105
140.00	-6.28	-1.95	0.00	-32.2	0.00	32.16	894.83	219.07	415.05	385.78	33.61	-2.42	0.090
140.02	-6.27	-1.93	0.00	-32.1	0.00	32.12	894.71	219.03	414.90	385.66	33.62	-2.42	0.090
143.22	-5.88	-1.88	0.00	-25.9	0.00	25.93	887.57	216.57	405.65	378.25	35.26	-2.46	0.075
145.00	-5.73	-1.86	0.00	-22.6	0.00	22.58	877.13	213.02	392.46	367.62	36.18	-2.48	0.068
146.00	-5.10	-1.46	0.00	-20.7	0.00	20.73	871.21	211.03	385.15	361.69	36.7	-2.49	0.063
147.00	-4.78	-1.36	0.00	-19.3	0.00	19.26	865.24	209.04	377.91	355.79	37.23	-2.5	0.060
150.00	-4.54	-1.29	0.00	-15.2	0.00	15.20	847.09	203.06	356.61	338.27	38.8	-2.52	0.050
155.00	-4.15	-1.22	0.00	-8.8	0.00	8.75	815.97	193.10	322.48	309.71	41.46	-2.56	0.033
157.00	-2.45	-0.69	0.00	-6.3	0.00	6.31	800.56	189.11	309.31	297.52	42.54	-2.56	0.024
158.56	-2.35	-0.67	0.00	-5.2	0.00	5.23	787.38	186.00	299.21	287.76	43.38	-2.57	0.021
158.56	-2.35	-0.67	0.00	-5.2	0.00	5.23	551.08	165.33	179.87	180.95	43.38	-2.57	0.033
160.00	-2.25	-0.62	0.00	-4.3	0.00	4.27	551.08	165.33	179.87	180.95	44.15	-2.57	0.028
165.00	-1.88	-0.56	0.00	-1.2	0.00	1.15	551.08	165.33	179.87	180.95	46.86	-2.59	0.010
167.00	-0.08	-0.01	0.00	-0.0	0.00	0.02	551.08	165.33	179.87	180.95	47.94	-2.59	0.000
168.56	0.00	-0.01	0.00	0.0	0.00	0.00	551.08	165.33	179.87	180.95	48.79	-2.59	0.000

EQUIVALENT LATERAL FORCES METHOD ANALYSIS

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

Spectral Response Acceleration for Short Period (S_S):	0.187
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.054
Long-Period Transition Period (T_L – Seconds):	6
Importance Factor (I_e):	1.000
Site Coefficient F_a:	1.600
Site Coefficient F_v:	2.400
Response Modification Coefficient (R):	1.500
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.199
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.086
Seismic Response Coefficient (C_s):	0.030
Upper Limit C_S:	0.030
Lower Limit C_S:	0.030
Period based on Rayleigh Method (sec):	3.520
Redundancy Factor (p):	1.000
Seismic Force Distribution Exponent (k):	2.000
Total Unfactored Dead Load:	31.140 k
Seismic Base Shear (E):	0.930 k

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

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
46	167.78	85	2,395	0.008	7	105
45	166	148	4,085	0.013	12	184
44	162.5	371	9,786	0.032	30	459
43	159.2812	107	2,703	0.009	8	132
42	157.7812	95	2,368	0.008	7	118
41	156	155	3,778	0.012	11	192
40	152.5	395	9,183	0.030	28	490
39	148.5	242	5,327	0.017	16	300
38	146.5	81	1,745	0.006	5	101
37	145.5	82	1,729	0.006	5	101
36	144.1094	146	3,041	0.010	9	182
35	141.6197	400	8,019	0.026	24	496
34	140.0104	2	34	0.000	0	2
33	138	335	6,385	0.021	19	416
32	135.5	89	1,628	0.005	5	110
31	132.5	449	7,887	0.026	24	557
30	127.5	459	7,460	0.024	23	569
29	122.5	469	7,031	0.023	21	581
28	117.5	478	6,602	0.021	20	593
27	112.5	572	7,241	0.024	22	709
26	107.5	591	6,831	0.022	21	733
25	102.5	601	6,312	0.020	19	745
24	98.4635	374	3,626	0.012	11	464
23	95.9635	387	3,564	0.012	11	480
22	93.8229	477	4,202	0.014	13	592
21	91.3229	380	3,171	0.010	10	471
20	87.5	728	5,577	0.018	17	903
19	82.5	741	5,046	0.016	15	919
18	77.5	754	4,530	0.015	14	935
17	72.5	767	4,032	0.013	12	951
16	67.5	780	3,554	0.012	11	967
15	62.5	793	3,097	0.010	9	983
14	57.5	806	2,664	0.009	8	999
13	53.2292	579	1,639	0.005	5	717

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
12	50.7292	422	1,087	0.004	3	524
11	48.0586	1,136	2,624	0.008	8	1,409
10	45.5586	214	444	0.001	1	265
9	42.5	967	1,747	0.006	5	1,199
8	37.5	983	1,382	0.004	4	1,219
7	32.5	999	1,055	0.003	3	1,239
6	27.5	1,015	768	0.002	2	1,259
5	22.5	1,031	522	0.002	2	1,279
4	17.5	1,047	321	0.001	1	1,299
3	12.5	1,064	166	0.000	1	1,319
2	7.5	1,080	61	0.000	0	1,339
1	2.5	1,096	7	0.000	0	1,359
Kaelus DBCT108F1V92-1	167	42	1,163	0.004	4	52
Raycap DC6-48-60-18-8F ("Squid")	167	95	2,661	0.009	8	118
Ericsson Radio 8843 - B2 + B66A	167	216	6,016	0.020	18	267
Ericsson RRUS 4478 B14	167	180	5,012	0.016	15	223
Ericsson RRUS 4449 B5, B12	167	213	5,940	0.019	18	264
Generic Round Side Arm	167	562	15,688	0.051	48	697
CCI DMP65R-BU4D	167	204	5,681	0.018	17	253
CCI OPA65R-BU4DA-K	167	158	4,393	0.014	13	195
Commscope TD-850AB-L78-43	157	86	2,122	0.007	6	107
Samsung RF4440d-13A	157	422	10,397	0.034	32	523
Samsung RF4439d-25A	157	224	5,524	0.018	17	278
Raycap RVZDC-6627-PF-48	157	32	789	0.003	2	40
Flush Mounts	157	560	13,803	0.045	42	694
Flush Mounts	146	560	11,937	0.039	36	694
Commscope NNH4-45B-R6-V1	157	80	1,977	0.006	6	99
Commscope NNH4-65B-R6H4	157	167	4,107	0.013	12	207
Samsung MT6407-77A	147	245	5,290	0.017	16	304
VZW Unused Reserve (5954.84 sqin)	146	0	0	0.000	0	0
Ericsson Radio 4449 B71 B85A	136	225	4,162	0.014	13	279
Ericsson 4460 BAND 2/25	136	327	6,048	0.020	18	405
Ericsson AIR 6419 B41	136	250	4,622	0.015	14	310
Generic Flat T-Arm	136	938	17,340	0.056	53	1,162
RFS APXVAARR24_43-U-NA20	136	384	7,097	0.023	22	476
		31,140	308,221	1.000	934	38,610

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

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
46	167.78	85	2,395	0.008	7	73
45	166	148	4,085	0.013	12	128
44	162.5	371	9,786	0.032	30	319
43	159.2812	107	2,703	0.009	8	92
42	157.7812	95	2,368	0.008	7	82
41	156	155	3,778	0.012	11	134
40	152.5	395	9,183	0.030	28	340
39	148.5	242	5,327	0.017	16	208
38	146.5	81	1,745	0.006	5	70
37	145.5	82	1,729	0.006	5	70
36	144.1094	146	3,041	0.010	9	126
35	141.6197	400	8,019	0.026	24	344
34	140.0104	2	34	0.000	0	1
33	138	335	6,385	0.021	19	288
32	135.5	89	1,628	0.005	5	76
31	132.5	449	7,887	0.026	24	386
30	127.5	459	7,460	0.024	23	395
29	122.5	469	7,031	0.023	21	403
28	117.5	478	6,602	0.021	20	411
27	112.5	572	7,241	0.024	22	492
26	107.5	591	6,831	0.022	21	508
25	102.5	601	6,312	0.020	19	517

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
24	98.4635	374	3,626	0.012	11	322
23	95.9635	387	3,564	0.012	11	333
22	93.8229	477	4,202	0.014	13	411
21	91.3229	380	3,171	0.010	10	327
20	87.5	728	5,577	0.018	17	627
19	82.5	741	5,046	0.016	15	638
18	77.5	754	4,530	0.015	14	649
17	72.5	767	4,032	0.013	12	660
16	67.5	780	3,554	0.012	11	671
15	62.5	793	3,097	0.010	9	682
14	57.5	806	2,664	0.009	8	693
13	53.2292	579	1,639	0.005	5	498
12	50.7292	422	1,087	0.004	3	363
11	48.0586	1,136	2,624	0.008	8	977
10	45.5586	214	444	0.001	1	184
9	42.5	967	1,747	0.006	5	832
8	37.5	983	1,382	0.004	4	846
7	32.5	999	1,055	0.003	3	859
6	27.5	1,015	768	0.002	2	873
5	22.5	1,031	522	0.002	2	887
4	17.5	1,047	321	0.001	1	901
3	12.5	1,064	166	0.000	1	915
2	7.5	1,080	61	0.000	0	929
1	2.5	1,096	7	0.000	0	942
Kaelus DBCT108F1V92-1	167	42	1,163	0.004	4	36
Raycap DC6-48-60-18-8F ("Squid")	167	95	2,661	0.009	8	82
Ericsson Radio 8843 - B2 + B66A	167	216	6,016	0.020	18	186
Ericsson RRUS 4478 B14	167	180	5,012	0.016	15	155
Ericsson RRUS 4449 B5, B12	167	213	5,940	0.019	18	183
Generic Round Side Arm	167	562	15,688	0.051	48	484
CCI DMP65R-BU4D	167	204	5,681	0.018	17	175
CCI OPA65R-BU4DA-K	167	158	4,393	0.014	13	135
Commscope TD-850AB-L78-43	157	86	2,122	0.007	6	74
Samsung RF4440d-13A	157	422	10,397	0.034	32	363
Samsung RF4439d-25A	157	224	5,524	0.018	17	193
Raycap RVZDC-6627-PF-48	157	32	789	0.003	2	28
Flush Mounts	157	560	13,803	0.045	42	482
Flush Mounts	146	560	11,937	0.039	36	482
Commscope NNH4-45B-R6-V1	157	80	1,977	0.006	6	69
Commscope NNH4-65B-R6H4	157	167	4,107	0.013	12	143
Samsung MT6407-77A	147	245	5,290	0.017	16	211
VZW Unused Reserve (5954.84 sqin)	146	0	0	0.000	0	0
Ericsson Radio 4449 B71 B85A	136	225	4,162	0.014	13	194
Ericsson 4460 BAND 2/25	136	327	6,048	0.020	18	281
Ericsson AIR 6419 B41	136	250	4,622	0.015	14	215
Generic Flat T-Arm	136	938	17,340	0.056	53	806
RFS APXVAARR24_43-U-NA20	136	384	7,097	0.023	22	330
		31,140	308,221	1.000	934	26,784

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

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-37.25	-0.94	0.00	-135.69	0.00	135.69	2,995.17	812.68	3,427	2,880.56	0.00	0.00	0.06
5.00	-35.91	-0.95	0.00	-131.00	0.00	131.00	2,959.81	796.07	3,288	2,788.01	0.01	-0.01	0.06
10.00	-34.59	-0.96	0.00	-126.26	0.00	126.26	2,923.38	779.47	3,153	2,695.86	0.03	-0.03	0.06
15.00	-33.29	-0.96	0.00	-121.48	0.00	121.48	2,885.86	762.86	3,020	2,604.17	0.07	-0.05	0.06
20.00	-32.02	-0.97	0.00	-116.67	0.00	116.67	2,847.27	746.25	2,890	2,513.02	0.13	-0.06	0.06
25.00	-30.76	-0.97	0.00	-111.82	0.00	111.82	2,807.60	729.65	2,762	2,422.47	0.20	-0.08	0.06
30.00	-29.52	-0.98	0.00	-106.95	0.00	106.95	2,766.85	713.04	2,638	2,332.58	0.29	-0.10	0.06
35.00	-28.30	-0.98	0.00	-102.06	0.00	102.06	2,725.03	696.44	2,517	2,243.41	0.40	-0.11	0.06
40.00	-27.10	-0.98	0.00	-97.16	0.00	97.16	2,682.12	679.83	2,398	2,155.03	0.53	-0.13	0.06
45.00	-26.83	-0.98	0.00	-92.25	0.00	92.25	2,638.14	663.22	2,282	2,067.50	0.67	-0.15	0.06

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
46.12	-25.42	-0.98	0.00	-91.15	0.00	91.15	2,628.17	659.51	2,257	2,048.07	0.71	-0.15	0.05
50.00	-24.90	-0.98	0.00	-87.36	0.00	87.36	2,593.08	646.62	2,170	1,980.89	0.84	-0.17	0.05
51.46	-24.18	-0.97	0.00	-85.94	0.00	85.94	1,919.29	521.25	1,762	1,479.94	0.89	-0.17	0.07
55.00	-23.18	-0.97	0.00	-82.49	0.00	82.49	1,899.35	511.84	1,699	1,437.95	1.02	-0.19	0.07
60.00	-22.20	-0.97	0.00	-77.64	0.00	77.64	1,870.29	498.56	1,612	1,378.95	1.23	-0.21	0.07
65.00	-21.23	-0.96	0.00	-72.82	0.00	72.82	1,840.15	485.27	1,527	1,320.32	1.46	-0.23	0.07
70.00	-20.28	-0.95	0.00	-68.02	0.00	68.02	1,808.93	471.99	1,445	1,262.13	1.72	-0.26	0.07
75.00	-19.35	-0.94	0.00	-63.26	0.00	63.26	1,776.63	458.70	1,365	1,204.45	2.00	-0.28	0.06
80.00	-18.43	-0.93	0.00	-58.55	0.00	58.55	1,743.25	445.42	1,287	1,147.34	2.30	-0.30	0.06
85.00	-17.52	-0.92	0.00	-53.90	0.00	53.90	1,708.79	432.13	1,211	1,090.86	2.64	-0.33	0.06
90.00	-17.05	-0.91	0.00	-49.32	0.00	49.32	1,673.26	418.85	1,138	1,035.07	2.99	-0.35	0.06
92.65	-16.46	-0.90	0.00	-46.92	0.00	46.92	1,654.02	411.82	1,100	1,005.86	3.19	-0.37	0.06
95.00	-15.98	-0.88	0.00	-44.81	0.00	44.81	1,636.65	405.56	1,067	980.05	3.37	-0.38	0.06
96.93	-15.52	-0.87	0.00	-43.10	0.00	43.10	1,103.30	304.90	804	663.68	3.53	-0.39	0.08
100.00	-14.77	-0.86	0.00	-40.42	0.00	40.42	1,091.08	298.78	772	643.06	3.78	-0.40	0.08
105.00	-14.04	-0.84	0.00	-36.14	0.00	36.14	1,070.32	288.82	721	609.65	4.22	-0.43	0.07
110.00	-13.33	-0.82	0.00	-31.95	0.00	31.95	1,048.49	278.85	672	576.47	4.69	-0.46	0.07
115.00	-12.74	-0.80	0.00	-27.87	0.00	27.87	1,025.57	268.89	625	543.59	5.20	-0.49	0.06
120.00	-12.15	-0.78	0.00	-23.87	0.00	23.87	1,001.58	258.92	580	511.06	5.73	-0.52	0.06
125.00	-11.59	-0.76	0.00	-19.98	0.00	19.98	976.51	248.96	536	478.95	6.29	-0.55	0.05
130.00	-11.03	-0.73	0.00	-16.21	0.00	16.21	950.36	239.00	494	447.32	6.88	-0.58	0.05
135.00	-10.92	-0.73	0.00	-12.55	0.00	12.55	923.14	229.03	454	416.25	7.49	-0.60	0.04
136.00	-7.87	-0.56	0.00	-11.83	0.00	11.83	917.56	227.04	446	410.10	7.62	-0.60	0.04
140.00	-7.87	-0.56	0.00	-9.59	0.00	9.59	894.83	219.07	415	385.78	8.13	-0.62	0.03
140.02	-7.37	-0.53	0.00	-9.58	0.00	9.58	894.71	219.03	415	385.66	8.13	-0.62	0.03
143.22	-7.19	-0.52	0.00	-7.89	0.00	7.89	887.57	216.57	406	378.25	8.55	-0.63	0.03
145.00	-7.09	-0.51	0.00	-6.96	0.00	6.96	877.13	213.02	392	367.62	8.79	-0.64	0.03
146.00	-6.30	-0.46	0.00	-6.44	0.00	6.44	871.21	211.03	385	361.69	8.92	-0.64	0.03
147.00	-5.69	-0.43	0.00	-5.98	0.00	5.98	865.24	209.04	378	355.79	9.06	-0.64	0.02
150.00	-5.20	-0.39	0.00	-4.70	0.00	4.70	847.09	203.06	357	338.27	9.46	-0.65	0.02
155.00	-5.01	-0.38	0.00	-2.73	0.00	2.73	815.97	193.10	322	309.71	10.15	-0.66	0.02
157.00	-2.95	-0.23	0.00	-1.97	0.00	1.97	800.56	189.11	309	297.52	10.42	-0.66	0.01
158.56	-2.82	-0.22	0.00	-1.61	0.00	1.61	787.38	186.00	299	287.76	10.64	-0.66	0.01
158.56	-2.82	-0.22	0.00	-1.61	0.00	1.61	551.08	165.33	180	180.95	10.64	-0.66	0.01
160.00	-2.36	-0.19	0.00	-1.29	0.00	1.29	551.08	165.33	180	180.95	10.84	-0.66	0.01
165.00	-2.17	-0.17	0.00	-0.35	0.00	0.35	551.08	165.33	180	180.95	11.54	-0.67	0.01
167.00	0.00	0.00	0.00	0.00	0.00	0.00	551.08	165.33	180	180.95	11.82	-0.67	0.00
168.56	0.00	0.00	0.00	0.00	0.00	0.00	551.08	165.33	180	180.95	12.04	-0.67	0.00

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

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-25.84	-0.94	0.00	-131.39	0.00	131.39	2,995.17	812.68	3,427	2,880.56	0.00	0.00	0.05
5.00	-24.91	-0.94	0.00	-126.71	0.00	126.71	2,959.81	796.07	3,288	2,788.01	0.01	-0.01	0.05
10.00	-24.00	-0.95	0.00	-122.00	0.00	122.00	2,923.38	779.47	3,153	2,695.86	0.03	-0.03	0.05
15.00	-23.10	-0.95	0.00	-117.26	0.00	117.26	2,885.86	762.86	3,020	2,604.17	0.07	-0.04	0.05
20.00	-22.21	-0.96	0.00	-112.50	0.00	112.50	2,847.27	746.25	2,890	2,513.02	0.12	-0.06	0.05
25.00	-21.34	-0.96	0.00	-107.73	0.00	107.73	2,807.60	729.65	2,762	2,422.47	0.19	-0.08	0.05
30.00	-20.48	-0.96	0.00	-102.93	0.00	102.93	2,766.85	713.04	2,638	2,332.58	0.28	-0.09	0.05
35.00	-19.63	-0.96	0.00	-98.13	0.00	98.13	2,725.03	696.44	2,517	2,243.41	0.39	-0.11	0.05
40.00	-18.80	-0.96	0.00	-93.34	0.00	93.34	2,682.12	679.83	2,398	2,155.03	0.51	-0.13	0.05
45.00	-18.61	-0.96	0.00	-88.54	0.00	88.54	2,638.14	663.22	2,282	2,067.50	0.65	-0.14	0.05
46.12	-17.64	-0.95	0.00	-87.47	0.00	87.47	2,628.17	659.51	2,257	2,048.07	0.68	-0.15	0.05
50.00	-17.27	-0.95	0.00	-83.77	0.00	83.77	2,593.08	646.62	2,170	1,980.89	0.81	-0.16	0.05
51.46	-16.78	-0.95	0.00	-82.39	0.00	82.39	1,919.29	521.25	1,762	1,479.94	0.86	-0.17	0.06
55.00	-16.08	-0.94	0.00	-79.03	0.00	79.03	1,899.35	511.84	1,699	1,437.95	0.99	-0.18	0.06
60.00	-15.40	-0.94	0.00	-74.32	0.00	74.32	1,870.29	498.56	1,612	1,378.95	1.19	-0.20	0.06
65.00	-14.73	-0.93	0.00	-69.64	0.00	69.64	1,840.15	485.27	1,527	1,320.32	1.41	-0.22	0.06
70.00	-14.07	-0.92	0.00	-64.99	0.00	64.99	1,808.93	471.99	1,445	1,262.13	1.66	-0.25	0.06
75.00	-13.42	-0.91	0.00	-60.39	0.00	60.39	1,776.63	458.70	1,365	1,204.45	1.92	-0.27	0.06
80.00	-12.78	-0.90	0.00	-55.85	0.00	55.85	1,743.25	445.42	1,287	1,147.34	2.22	-0.29	0.06
85.00	-12.15	-0.88	0.00	-51.38	0.00	51.38	1,708.79	432.13	1,211	1,090.86	2.54	-0.31	0.05
90.00	-11.83	-0.87	0.00	-46.98	0.00	46.98	1,673.26	418.85	1,138	1,035.07	2.88	-0.34	0.05
92.65	-11.42	-0.86	0.00	-44.67	0.00	44.67	1,654.02	411.82	1,100	1,005.86	3.07	-0.35	0.05
95.00	-11.08	-0.85	0.00	-42.64	0.00	42.64	1,636.65	405.56	1,067	980.05	3.25	-0.36	0.05
96.93	-10.76	-0.84	0.00	-41.01	0.00	41.01	1,103.30	304.90	804	663.68	3.39	-0.37	0.07

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
100.00	-10.25	-0.82	0.00	-38.44	0.00	38.44	1,091.08	298.78	772	643.06	3.64	-0.39	0.07
105.00	-9.74	-0.80	0.00	-34.34	0.00	34.34	1,070.32	288.82	721	609.65	4.06	-0.42	0.07
110.00	-9.24	-0.78	0.00	-30.34	0.00	30.34	1,048.49	278.85	672	576.47	4.51	-0.44	0.06
115.00	-8.83	-0.76	0.00	-26.44	0.00	26.44	1,025.57	268.89	625	543.59	4.99	-0.47	0.06
120.00	-8.43	-0.74	0.00	-22.65	0.00	22.65	1,001.58	258.92	580	511.06	5.50	-0.50	0.05
125.00	-8.03	-0.72	0.00	-18.95	0.00	18.95	976.51	248.96	536	478.95	6.04	-0.53	0.05
130.00	-7.65	-0.69	0.00	-15.37	0.00	15.37	950.36	239.00	494	447.32	6.60	-0.55	0.04
135.00	-7.57	-0.69	0.00	-11.91	0.00	11.91	923.14	229.03	454	416.25	7.19	-0.57	0.04
136.00	-5.46	-0.53	0.00	-11.22	0.00	11.22	917.56	227.04	446	410.10	7.31	-0.58	0.03
140.00	-5.46	-0.53	0.00	-9.10	0.00	9.10	894.83	219.07	415	385.78	7.80	-0.59	0.03
140.02	-5.11	-0.50	0.00	-9.09	0.00	9.09	894.71	219.03	415	385.66	7.80	-0.59	0.03
143.22	-4.99	-0.49	0.00	-7.48	0.00	7.48	887.57	216.57	406	378.25	8.20	-0.60	0.03
145.00	-4.92	-0.49	0.00	-6.60	0.00	6.60	877.13	213.02	392	367.62	8.42	-0.61	0.02
146.00	-4.37	-0.44	0.00	-6.11	0.00	6.11	871.21	211.03	385	361.69	8.55	-0.61	0.02
147.00	-3.95	-0.40	0.00	-5.67	0.00	5.67	865.24	209.04	378	355.79	8.68	-0.61	0.02
150.00	-3.61	-0.37	0.00	-4.46	0.00	4.46	847.09	203.06	357	338.27	9.07	-0.62	0.02
155.00	-3.48	-0.36	0.00	-2.59	0.00	2.59	815.97	193.10	322	309.71	9.72	-0.63	0.01
157.00	-2.04	-0.22	0.00	-1.87	0.00	1.87	800.56	189.11	309	297.52	9.98	-0.63	0.01
158.56	-1.95	-0.21	0.00	-1.53	0.00	1.53	787.38	186.00	299	287.76	10.19	-0.63	0.01
158.56	-1.95	-0.21	0.00	-1.53	0.00	1.53	551.08	165.33	180	180.95	10.19	-0.63	0.01
160.00	-1.63	-0.18	0.00	-1.22	0.00	1.22	551.08	165.33	180	180.95	10.38	-0.63	0.01
165.00	-1.51	-0.17	0.00	-0.33	0.00	0.33	551.08	165.33	180	180.95	11.05	-0.64	0.01
167.00	0.00	0.00	0.00	0.00	0.00	0.00	551.08	165.33	180	180.95	11.32	-0.64	0.00
168.56	0.00	0.00	0.00	0.00	0.00	0.00	551.08	165.33	180	180.95	11.52	-0.64	0.00

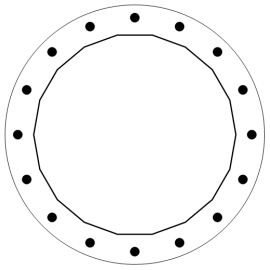
ANALYSIS SUMMARY

	Reactions						Max Usage	
Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.0W Normal	22.75	0.00	37.31	0.00	0.00	2463.09	96.93	0.95
0.9D + 1.0W Normal	22.73	0.00	27.97	0.00	0.00	2407.32	96.93	0.91
1.2D + 1.0Di + 1.0Wi Normal	3.12	0.00	52.91	0.00	0.00	376.91	96.93	0.18
1.2D + 1.0Ev + 1.0Eh Normal	0.98	0.00	37.25	0.00	0.00	135.69	96.93	0.08
0.9D - 1.0Ev + 1.0Eh Normal	0.96	0.00	25.84	0.00	0.00	131.39	96.93	0.07
1.0D + 1.0W Service Normal	5.95	0.00	31.14	0.00	0.00	637.95	96.93	0.25

BASE PLATE ANALYSIS @ 0 FT

PLATE PARAMETERS (ID# 14026)

Diameter:	61	in
Shape:	Round	
Thickness:	2.5	in
Grade:	A572-50	
Yield Strength:	50	ksi
Tensile Strength:	65	ksi
Rod Detail Type:	d	
Clear Distance	5.125	in
Base Weld Size:	0.125	in
Orientation Offset:	-	°
Analysis Type:	Plastic	
Neutral Axis:	0	°



ANCHOR ROD PARAMETERS

Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	Fy (ksi)	Fu (ksi)	Spacing (in)	Offset (°)
Original [ID# 14327]	Radial	16	2.25	55	A615-75	75	100	-	-

ANCHOR ROD GEOMETRY AND APPLIED LOADS --- ORIGINAL (16) 2.25"ø [ID 14327]

Position	Radians	X (in)	Y (in)	Moment Arm (in)	Inertia (in^4)	Axial Load (k)	Shear Load (k)
1	0.393	25.41	10.52	10.022	327.008	116.92	2.09
2	0.785	19.44	19.44	18.517	1114.448	116.92	1.60
3	1.178	10.52	25.41	24.194	1901.888	116.92	0.87
4	1.571	0.00	27.50	26.188	2228.057	116.92	0.00
5	1.963	-10.52	25.41	24.194	1901.888	116.92	0.87
6	2.356	-19.44	19.44	18.517	1114.448	116.92	1.60
7	2.749	-25.41	10.52	10.022	327.008	116.92	2.09
8	3.142	-27.50	0.00	0.000	0.839	116.92	2.26
9	3.534	-25.41	-10.52	-10.022	327.008	-107.59	2.09
10	3.927	-19.44	-19.44	-18.517	1114.448	-107.59	1.60
11	4.320	-10.52	-25.41	-24.194	1901.888	-107.59	0.87
12	4.712	0.00	-27.50	-26.188	2228.057	-107.59	0.00
13	5.105	10.52	-25.41	-24.194	1901.888	-107.59	0.87
14	5.498	19.44	-19.44	-18.517	1114.448	-107.59	1.60
15	5.890	25.41	-10.52	-10.022	327.008	-107.59	2.09
16	6.283	27.50	0.00	0.000	0.839	116.92	2.26

REACTION DISTRIBUTION

Component	ID	Moment Mu (k-ft)	Axial Load Pu (k)	Shear Vu (k)	Moment Factor
Pole	47"ø x 0.3125" (18 Sides)	2463.1	37.31	22.75	1.000
Bolt Group	Original (16) 2.25"ø	2463.1	-	22.75	1.000
	TOTALS	**2463.09**	**37.31**	**22.75**	

COMPONENT PROPERTIES

Component	ID	Gross Area (in^2)	Net Area (in^2)	Individual Inertia (in^4)	Moment of Inertia (in^4)	Threads/in
Pole	47"ø x 0.3125" (18 Sides)	45.6030	-	-	12426.72	-
Bolt Group	Original (16) 2.25"ø	3.9761	3.2477	0.8393	17831.17	4.5

EXTERNAL BASE PLATE BEND LINE ANALYSIS @ 0 FT

POLE PROPERTIES

Flat-to-Flat Diameter:	47.12	in
Point-to-Point Diameter:	47.85	in
Flat Width:	8.309	in
Flat Radians:	0.349	rad

PLATE PROPERTIES

Neutral Axis:	0	°
Bend Line Lower Limit:	0.957	rad
Bend Line Upper Limit:	2.184	rad

Bend Line	Chord Length (in)	Additional Length (in)	Section Modulus (in^3)	Applied Moment Mu (k-in)	Moment Capacity ϕMn (k-in)	Ratio
Flat	34.476	0.00	53.869	543.7	2424.1	0.224
Corner	33.460	0.00	52.281	395.2	2352.7	0.168
Circumferential	45.317	0.00	70.809	923.8	3186.4	0.290

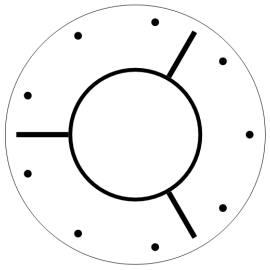
PLASTIC ANCHOR ROD ANALYSIS

Class	Group Quantity	Rod Diameter (in)	Applied Axial Load Pu (k)	Applied Shear Load Vu (k)	Compressive Capacity ϕPn (k)	Ratio
Original	16	2.25	116.9	2.3	243.6	0.480

UPPER FLANGE PLATE ANALYSIS @ 158.5625 FT

PLATE PARAMETERS (ID# 14027)

Diameter:	25	in
Shape:	Round	
Thickness:	1.5	in
Grade:	A36	
Yield Strength:	36	ksi
Tensile Strength:	58	ksi
Pole Weld Size:	0.125	in
Orientation Offset:	-	°
Analysis Type:	Plastic	
Neutral Axis:	150	°

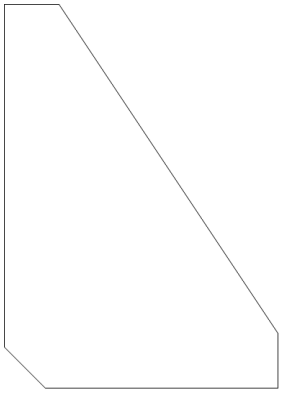


FLANGE BOLT PARAMETERS

Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	Fy (ksi)	Fu (ksi)	Spacing (in)	Offset (°)
Original [ID# 14328]	Radial	9	0.75	22	A325	92	120	-	-

STIFFENER PARAMETERS

Arrangement:	Radial	
Quantity:	3	
Height:	7	in
Width:	5	in
Thickness:	0.625	in
Notch:	0.75	in
Grade:	A36	
Yield Strength:	36	ksi
Tensile Strength:	58	ksi
Horizontal Weld Type:	Fillet	
Horizontal Weld Fillet Size:	0.125	in
Vertical Weld Fillet Size:	0.125	in
Weld Strength:	70	ksi
Orientation Offset:	-	°



FLANGE BOLT GEOMETRY AND APPLIED LOADS --- ORIGINAL (9) 0.75"ø [ID 14328]

Position	Radians	X (in)	Y (in)	Moment Arm (in)	Inertia (in^4)	Axial Load (k)	Shear Load (k)
1	0.698	8.43	7.07	-9.896	32.764	-3.44	0.15
2	1.396	1.91	10.83	-9.896	32.764	-3.44	0.15
3	2.094	-5.50	9.53	-5.266	9.282	-3.44	0.38
4	2.793	-10.34	3.76	1.829	1.127	4.53	0.44
5	3.491	-10.34	-3.76	8.067	21.777	4.53	0.29
6	4.189	-5.50	-9.53	10.531	37.103	4.53	0.00
7	4.887	1.91	-10.83	8.067	21.777	4.53	0.29
8	5.585	8.43	-7.07	1.829	1.127	4.53	0.44
9	6.283	11.00	0.00	-5.266	9.282	-3.44	0.38

STIFFENER GEOMETRY AND APPLIED LOADS

Position	Radians	Moment Arm (in)	Inertia (in^4)	Axial Load (k)	Shear Load (k)
1	1.047	-8.875	188.401	-8.55	0.00
2	3.142	4.438	51.983	4.90	0.57
3	5.236	4.438	51.983	4.90	0.57

REACTION DISTRIBUTION

Component	ID	Moment Mu (k-ft)	Axial Load Pu (k)	Shear Vu (k)	Moment Factor
Pole	12.75"ø x 0.375" (Round)	20.2	2.45	2.56	1.000
Bolt Group	Original (9) 0.75"ø	20.2	-	2.56	1.000
Stiffeners	(3) 7"H x 5"W x 0.625"T	10.3	-	1.31	0.511
	TOTALS	**20.16**	**2.45**	**2.56**	

COMPONENT PROPERTIES

Component	ID	Gross Area (in^2)	Net Area (in^2)	Individual Inertia (in^4)	Moment of Inertia (in^4)	Threads/in
Pole	12.75"ø x 0.375" (Round)	14.5788	-	-	279.77	-
Bolt Group	Original (9) 0.75"ø	0.4418	0.3345	0.0089	167.00	10.0
Stiffeners	(3) 7"H x 5"W x 0.625"T	2.6563	2.3906	26.0417	292.37	-

EXTERNAL UPPER FLANGE PLATE BEND LINE ANALYSIS @ 158.5625 FT

POLE PROPERTIES

Flat-to-Flat Diameter:	12.88	in
Point-to-Point Diameter:	12.88	in
Flat Width:	0.112	in
Flat Radians:	0.017	rad

PLATE PROPERTIES

Neutral Axis:	150	°
Bend Line Lower Limit:	3.679	rad
Bend Line Upper Limit:	4.698	rad

Bend Line	Chord Length (in)	Additional Length (in)	Section Modulus (in^3)	Applied Moment Mu (k-in)	Moment Capacity ϕMn (k-in)	Ratio
Flat	19.314	0.00	10.864	35.6	352.0	0.101
Corner	19.314	0.00	10.864	35.6	352.0	0.101
Circumferential	21.355	0.00	12.012	56.2	389.2	0.144

PLASTIC FLANGE BOLT ANALYSIS

Class	Group Quantity	Bolt Diameter (in)	Applied Axial Load Pu (k)	Applied Shear Load Vu (k)	Compressive Capacity ϕPn (k)	Ratio
Original	9	0.75	4.5	0.4	30.1	0.151

UPPER FLANGE PLATE STIFFENER ANALYSIS

Quantity:	3	
Height:	7	in
Width:	5	in
Effective Width:	5.000	in
Thickness:	0.625	in
Notch:	0.75	in
Grade:	A36	
Yield Strength:	36	ksi
Tensile Strength:	58	ksi
Horizontal Weld Type:	Fillet	
Horizontal Weld Fillet Size:	0.125	in
Horizontal Weld Bevel Size:		in
Vertical Weld Fillet Size:	0.125	in
Weld Strength:	70	ksi
Electrode Coefficient:	1.000	

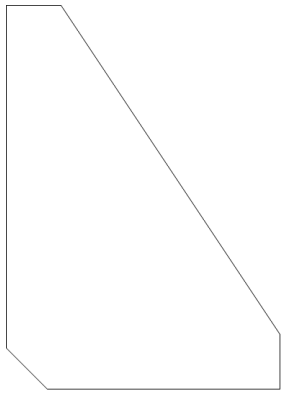


PLATE COMPRESSION

Radius of Gyration:	0.180	in^3
kl/r:	23.28	
4.71 √(E/Fy):	133.68	
Buckling Stress, Fe:	528.18	ksi
Crit. Buckling Stress, Fcr:	463.21	ksi
Applied Compression, Pu:	4.90	k
Compressive Capacity, ϕPn:	1107.36	k
Pu/ϕPn:	**0.002**	

PLATE TENSION

Gross Cross Section:	2.6563	in^2
Net Cross Section:	2.3906	in^2
Applied Tension, Tu:	8.55	k
Tensile Capacity, ϕTn:	86.06	k
Tu/ϕTn:	**0.050**	

VERTICAL WELD TO POLE

Vertical Eccentricity Ratio, $a=e_x/l$:	0.238	
Spacing Ratio, k:	0.089	
Weld Coefficient, C:	3.510	
Applied Compression, Pu:	4.90	k
Compressive Capacity, ϕPn:	36.86	k
Horizontal Eccentricity Ratio, $a=e_x/l$:	0.333	
Weld Coefficient, C:	2.940	
Applied Shear, Vu	0.00	k
Shear Capacity, ϕVn:	30.87	k
Pu/ϕPn + Vu/ϕVn:	**0.133**	

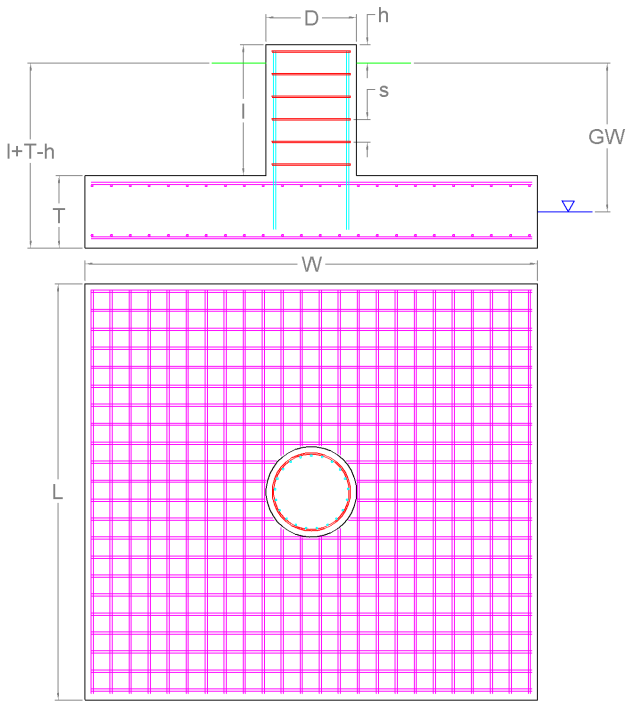
HORIZONTAL WELD TO PLATE

Horizontal Eccentricity Ratio, $a=e_x/l$:	0.167	
Spacing Ratio, k:	0.125	
Weld Coefficient, C:	3.940	
Effective Fillet Size:	0.125	in
Applied Compression, Pu:	4.90	k
Compressive Capacity, ϕPn:	29.55	k
Vertical Eccentricity Ratio, $a=e_x/l$:	0.233	
Weld Coefficient, C:	3.510	
Applied Shear, Vu	0.00	k
Shear Capacity, ϕVn:	26.33	k
Pu/ϕPn + Vu/ϕVn:	**0.166**	

Monolithic Mat Foundation Analysis (ANSI/TIA-222-H)

Foundation & Tower Parameters			
Ignore Mat Rebar?		N	
Ignore Pier Rebar?		N	
Foundation has Pier(s)?		Y	
Pier Shape		Square	
Pier Diameter	*D*	7	ft
Pier Height Above Ground	*h*	1	ft
Pier Length	*l*	3	ft
Mat Base Depth	*l+T-h*	5	ft
Mat Length	*L*	23	ft
Mat Width	*W*	23	ft
Mat Thickness	*T*	3	ft
Unit Weight of Concrete		150	pcf
Tower Eccentricity	ecc	0	ft
Tower Face Width	FW	3.92	ft
Tower Leg Count		1	

Reactions		
Moment, M_u	2,463.09	k-ft
Shear, V_u	22.75	k
Axial, P_u	37.31	k
Uplift, T_u	0	k
Tower Weight	37.31	k
Tower Dead Load Factor	0.9	



Soil Parameters			
Water Table Depth [BGL]	*GW*	-	ft
Unit Weight of Soil		120	pcf
Unit Weight of Soil [Submerged]		57.6	pcf
Shear Friction Coefficient		0.5	
Ultimate Bearing Pressure		16,000	psf
Bearing Pressure Type		Net	
Conical Failure Angle		30	°
Capacity Increase (Transient Loads)		1.00	
Soil Strength Reduction Factor, ϕ_s		0.75	
Dead Load Factor		1.2	

Soil Capacities		
Design Moment, M_u	2,599.59	k-ft
Nominal Moment Capacity, $\phi_m M_n$	4,401.32	k-ft
$M_u / \phi_s M_n$	**59.1%**	
Net Bearing Pressure	1,804	k
Nominal Bearing Capacity, $\phi_b P_n$	12,450	k
Bearing Pressure Controlling Load Direction	Diagonal to Pad Edge	
$P_u / \phi_s P_n$	**14.5%**	
Ultimate Friction Resistance	203.2	k
Ultimate Passive Pressure Resistance	28.98	k
Nominal Shear Capacity, $\phi_s V_n$	174.13	k
$V_u / \phi_s V_n$	**13.0%**	

Mat Reinforcement Parameters		
Concrete Compressive Strength, f'_c	4,000	psi
Mat Rebar Quantity [Lower]	40	
Mat Rebar Size # [Lower]	8	
Mat Single Rebar Area [Lower]	0.79	in^2
Mat Rebar Quantity [Upper]	24	
Mat Rebar Size # [Upper]	8	
Mat Single Rebar Area [Upper]	0.79	in^2
Mat Rebar Yield Strength, F_y	60	ksi
Mat Clear Cover	3	in
Bending Reduction Factor, ϕ_B	0.9	
Shear Reduction Factor, ϕ_V	0.75	
Compression Reduction Factor, ϕ_C	0.65	
Steel Elastic Modulus	29,000	ksi

Mat Reinforcement Capacities		
Compression Zone Factor, β_1	0.85	
Lower Reinforcement Spacing	6.91	in
Upper Reinforcement Spacing	11.72	in
One Way Design Shear, V_u	122.74	k
One Way Shear Capacity, ϕV_c	735.64	k
One Way Shear Controlling Load Direction	Diagonal to Pad Edge	
$V_u / \phi V_c$	**16.7%**	
Punching Design Shear Stress, v_u	25	psi
Punching Shear Capacity, $\phi_c V_n$	189.74	psi
$v_u / \phi_c V_n$	**13.2%**	
Moment Transfer Effective Flexural Width, $_f$	16	in
Neutral Axis Depth	2.09	In
Moment Transfer Flexural Capacity, $\phi M_{sc,f}$	38,203.92	k-in
$\gamma_f M_{sc} / \phi M_{sc,f}$	**0.0%**	
Flexure Due to Soil Pressure, M_u	913.1	k-ft
Lower Steel Mat Moment Capacity, ϕM_n	4,428.29	k-ft
Flexural Steel Controlling Load Direction	Parallel to Pad Edge	
$M_u / \phi M_n$	**20.6%**	
Flexure Due to Uplift, M_u	507.84	k-ft
Upper Steel Mat Moment Capacity, ϕM_n	2,686.28	k-ft
$M_u / \phi M_n$	**18.9%**	

Pier Reinforcement Parameters			
Concrete Compressive Strength (f'_c)		4,000	psi
Pier Rebar Quantity		30	
Pier Rebar Size #		8	
Pier Single Rebar Area		0.79	in^2
Pier Rebar Yield Strength (F_y)		60	ksi
Tie Rebar Size #		4	
Tie Rebar Area (Single)		0.2	in^2
Tie Rebar Spacing	*s*	6	in
Tie Rebar Yield Strength (F_y)		60	ksi
Rebar Cage Diameter		76	in

Pier Reinforcement Capacities		
Design Moment (M_u)	2,531.34	k-ft
Nominal Moment Capacity ($\phi_B M_n$)	3,966.56	k-ft
$M_u / \phi_B M_n$	**63.8%**	
Design Shear (V_u)	22.75	k
Nominal Shear Capacity ($\phi_V V_n$)	872.76	k
$V_u / \phi_V V_n$	**2.6%**	
Design Compression (P_u)	37.31	k
Nominal Compression Capacity ($\phi_P P_n$)	12,457.75	k
$P_u / \phi_P P_n$	**0.3%**	
Pier Reinforcement Ratio	0	-
$M_u / \phi_B M_n + T_u / \phi_T T_n$	**63.8%**	

Centerline Communications LLC

031477

Connecticut Siting Council

Check: 31477
Date: 1/18/2022
Vendor: 0

Invoice	P.O. Num.	Invoice Amt	Prior Balance	Retention	Discount	Amt. Paid
533011-005		625.00	625.00	0.00	0.00	625.00
ATC - VERIZON-13734077						
		625.00	625.00	0.00	0.00	625.00

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

ROCKLAND TRUST
MEDFIELD, MA 02052

53-447/113

031477

31477

DATE 1/18/2022

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

PAY TO THE ORDER OF Connecticut Siting Council

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

VOID AFTER 90 DAYS

AUTHORIZED SIGNATURE

Security features. Details on back

⑈031477⑈ ⑆011304478⑆ 2922009879⑈

Centerline Communications LLC

031477

Connecticut Siting Council

Check: 31477
Date: 1/18/2022
Vendor: 0

Invoice	P.O. Num.	Invoice Amt	Prior Balance	Retention	Discount	Amt. Paid
533011-005		625.00	625.00	0.00	0.00	625.00
ATC - VERIZON-13734077						
		625.00	625.00	0.00	0.00	625.00

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

March 8, 2022

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

RE: Notice of Exempt Modification // Site: Washington North CT (ATC: 413782)
6 Mountain Rd. New Preston, CT, 06777
N 41.66915484 // W 73.36530798

Dear Ms. Bachman,

Cellco Partnership d/b/a Verizon Wireless currently maintains Six (6) antenna at approximately 157' & 147' level on the existing 169 ft Tower, located at 6 Mountain Road, New Preston, CT. The tower is owned by American Tower. The property owner is Ray & Carol Underwood. Verizon Wireless now intends to install six (6) new antenna for the LTE (3700 MHz) replacements for its 5G upgrade. Additionally Verizon will remove six (6) existing antenna and install one (1) mount modification, nine (9) RRH's, three (3) Diplexers, one (1) OVP with associated cabling; 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 James L. Brinton, First Selectman, its Building Enforcement Officer, William T. P. Jenks, American Tower, the tower owner and the Ray & Carol Underwood 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 February 24, 2022, by Colliers Engineering and Design, a structural analysis dated January 13, 2022, by American Tower Corp., and a structural mount analysis by Maser Consulting Connecticut date October 21, 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 American Tower Corp., dated January 13, 2022, and a structural mount analysis by Maser Consulting Connecticut, dated October 21, 2021, pursuant to certain conditions defined therein. Design and engineering is fully illustrated within final construction drawings, signed and stamped dated February 24, 2022.

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,

John Coleman

_____

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

Attachments
cc: James L. Brinton, First Selectman – Chief Elected Official
William T. P. Jenks – Building Enforcement Officer - as P&Z official
Ray & Carol Underwood - Property Owner

UPS CampusShip: View/Print Label

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

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

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

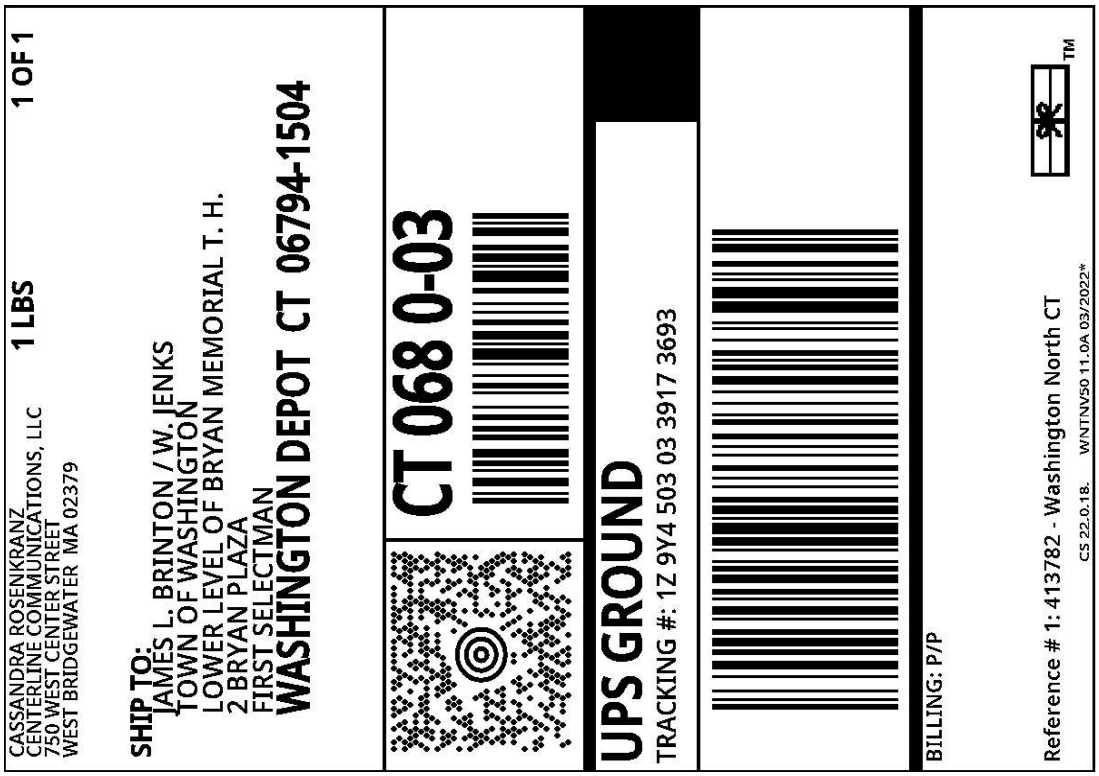
   Customers without a Daily Pickup
   Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To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

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

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

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

FOLD HERE



From: UPS
To: John Coleman
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030339173693
Date: Thursday, March 10, 2022 11:43:14 AM

Hello, your package has been delivered.

Delivery Date: Thursday, 03/10/2022
Delivery Time: 11:41 AM
Signed by: TOWN HALL

Set Delivery Instructions | Manage Preferences | View My Packages

CENTERLINE SITE ACQUISITION

Tracking Number:	1Z9Y45030339173693
Ship To:	TOWN OF WASHINGTON FIRST SELECTMAN 2 BRYAN PLAZA LOWER LEVEL OF BRYAN MEMORIAL T. H. WASHINGTON DEPOT, CT 067941504 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	413782 - WASHINGTON NORTH CT

Download the UPS mobile app

property of their respective owners.

Please do not reply directly to this email.

Manage Your UPS My Choice Delivery Alerts

Review the UPS Privacy Notice

Review the UPS My Choice Service Terms

Links contained in this email have been replaced. If you click on a link in the email above, the link will be analyzed for known threats. If a known threat is found, you will not be able to proceed to the destination. If suspicious content is detected, you will see a warning.

UPS CampusShip: View/Print Label

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

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

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

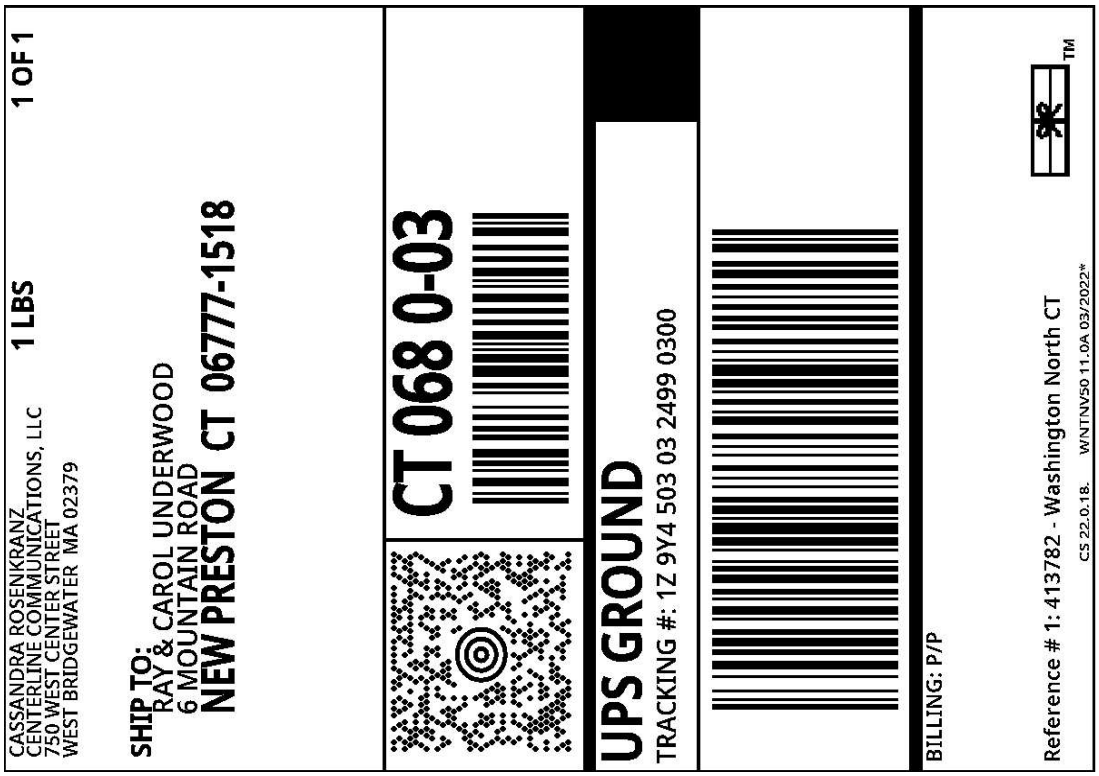
   Customers without a Daily Pickup
   Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To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

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

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

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

FOLD HERE



From: UPS
To: John Coleman
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030324990300
Date: Thursday, March 10, 2022 10:52:08 AM

Hello, your package has been delivered.

Delivery Date: Thursday, 03/10/2022

Delivery Time: 10:50 AM

Left At: MET CUST WOM

Set Delivery Instructions | Manage Preferences | View My Packages

CENTERLINE SITE ACQUISITION

Tracking Number:	1Z9Y45030324990300
Ship To:	RAY & CAROL UNDERWOOD 6 MOUNTAIN ROAD NEW PRESTON, CT 067771518 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	413782 - WASHINGTON NORTH CT

Download the UPS mobile app

Please do not reply directly to this email.

Manage Your UPS My Choice Delivery Alerts

Review the UPS Privacy Notice

Review the UPS My Choice Service Terms

Links contained in this email have been replaced. If you click on a link in the email above, the link will be analyzed for known threats. If a known threat is found, you will not be able to proceed to the destination. If suspicious content is detected, you will see a warning.

DOCKET NO. 332 – Cellco Partnership d/b/a Verizon Wireless application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located at 6 Mountain Road or 167 New Milford Turnpike, Washington, Connecticut.	}	Connecticut Siting Council September 25, 2007

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate, either alone or cumulatively with other effects, when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application, and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Cellco Partnership d/b/a Verizon Wireless, hereinafter referred to as the Certificate Holder, for a telecommunications facility at Site 1 located at 6 Mountain Road, Washington, Connecticut. The Council denies certification of Site 2, located at 167 New Milford Turnpike, Washington, Connecticut.

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

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of Verizon Wireless, New Cingular Wireless d/b/a AT&T and other entities, both public and private, but such tower shall not exceed a height of 160 feet above ground level. The height at the top of the antennas shall not exceed 160 feet above ground level.

2. All antennas shall be installed on the tower in an exterior, flush-mount configuration.

3. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served all parties and intervenors as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction and shall include:
   a) a final site plan(s) of site development to include specifications for the tower, tower foundation, antennas, equipment compound, radio equipment, access road, utility line, and landscaping; and
   b) construction plans for site clearing, grading, water drainage, and erosion and sedimentation control consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

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

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

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

7. The Certificate Holder shall provide reasonable space on the tower for no compensation for any Town of Washington public safety services (police, fire and medical services), provided such use can be accommodated and is compatible with the structural integrity of the tower.

8. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed and providing wireless services within eighteen months from the date of the mailing of the Council's Findings of Fact, Opinion, and Decision and Order (collectively called "Final Decision"), this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's Final Decision shall not be counted in calculating this deadline.

9. Any request for extension of the time period referred to in Condition 8 shall be filed with the Council not later than 60 days prior to the expiration date of this Certificate and shall be served on all parties and intervenors, as listed in the service list. Any proposed modifications to this Decision and Order shall likewise be so served.

10. If the facility ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.

11. The Certificate Holder shall remove any nonfunctioning antenna, and associated antenna mounting equipment, within 60 days of the date the antenna ceased to function.

12. In accordance with Section 16-50j-77 of the Regulations of Connecticut State Agencies, the Certificate Holder shall provide the Council with written notice two weeks prior to the commencement of site construction activities. In addition, the Certificate Holder shall provide the Council with written notice of the completion of site construction and the commencement of site operation.

Pursuant to General Statutes § 16-50p, the Council hereby directs that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in the Waterbury Republican-American and the New Milford Spectrum.

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

The parties and intervenors to this proceeding are:

Applicant	**Its Representative**
Cellco Partnership d/b/a Verizon Wireless	Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103-3597 Sandy Carter, Regulatory Manager Verizon Wireless 99 East River Drive East Hartford, CT 06108
Party	**Its Representative**
Town of Washington	Steven R. Smart, Esq. Riefberg, Smart, Donohue & NeJames, P.C. 9 Old Sugar Hollow Road Danbury, CT 06810
Intervenor	**Its Representative**
New Cingular Wireless PCS, LLC d/b/a AT&T	Christopher B. Fisher, Esq. Cuddy & Feder LLP 445 Hamilton Avenue, 14th Floor White Plains, NY 10601
Intervenor	
Malina McNamara 76 Mygatt Road New Preston, CT 06777	

CERTIFICATION

The undersigned members of the Connecticut Siting Council (Council) hereby certify that they have heard this case, or read the record thereof, **DOCKET NO. 332** – Cellco Partnership d/b/a Verizon Wireless application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located at 6 Mountain Road or 167 New Milford Turnpike, Washington, Connecticut, and voted as follows to approve proposed Site 1 located at 6 Mountain Road, Washington, Connecticut, and deny certification of the proposed Site 2, 167 New Milford Turnpike, Washington, Connecticut:

Council Members	**Vote Cast**
Daniel F. Caruso, Chairman	Yes
Colin C. Tait, Vice Chairman	Yes
Commissioner Donald W. Downes Designee: Gerald J. Heffernan	Yes
Commissioner Gina McCarthy Designee: Brian J. Emerick	Yes
Philip T. Ashton	Yes
Daniel P. Lynch, Jr.	Yes
James J. Murphy, Jr.	Yes
Dr. Barbara Currier Bell	Yes
Edward S. Wilensky	Yes

Dated at New Britain, Connecticut, September 25, 2007.

STATE OF CONNECTICUT)

ss. New Britain, Connecticut :

COUNTY OF HARTFORD)

I hereby certify that the foregoing is a true and correct copy of the Findings of Fact, Opinion, and Decision and Order issued by the Connecticut Siting Council, State of Connecticut.

ATTEST:

S. Derek Phelps
Executive Director
Connecticut Siting Council

I certify that a copy of the Findings of Fact, Opinion, and Decision and Order in Docket No. 332 has been forwarded by Certified First Class Return Receipt Requested mail on September 28, 2007, to all parties and intervenors of record as listed on the attached service list, dated June 22, 2007.

ATTEST:

Lisa A. Fontaine
Administrative Assistant
Connecticut Siting Council

Date: June 22, 2007

LIST OF PARTIES AND INTERVENORS
SERVICE LIST

Status Granted	Status Holder (name, address & phone number)	Representative (name, address & phone number)
Applicant	Cellco Partnership d/b/a Verizon Wireless	Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103-3597 (860) 275-8200 (860) 275-8299 fax kbaldwin@rc.com Sandy Carter, Regulatory Manager Verizon Wireless 99 East River Drive East Hartford, CT 06108 (860) 803-8219 alexandria.carter@verizonwireless.com
Party (granted on 5/1/07)	Town of Washington	Steven R. Smart, Esq. Riefberg, Smart, Donohue & NeJames, P.C. 9 Old Sugar Hollow Road Danbury, CT 06810 (203) 748-9259 (203) 796-7584 fax ssmart@rsdn.com The Honorable Richard C. Sears First Selectman Washington Town Hall P.O. Box 383, 2 Bryan Plaza Washington Depot, CT 06794 (860) 868-2259 (860) 868-3103 fax First.selectman@washingtonct.org
Intervenor (granted on 05/22/07)	New Cingular Wireless PCS, LLC d/b/a AT&T	Christopher B. Fisher, Esq. Cuddy & Feder LLP 445 Hamilton Avenue, 14th Floor White Plains, NY 10601 (914) 761-1300 (914) 761-6405 fax cfisher@cuddyfeder.com

LIST OF PARTIES AND INTERVENORS
SERVICE LIST

Status Granted	Status Holder (name, address & phone number)	Representative (name, address & phone number)
Intervenor (granted 06/21/07)	Malina McNamara 76 Mygatt Road New Preston, CT 06777 (860) 868-7996 (860) 868-0203 fax Mmcnamara1955@charter.net	

AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure	:	**169 ft Monopole**
ATC Site Name	:	**Washington North CT,CT**
ATC Site Number	:	**413782**
Engineering Number	:	**13734077_C3_02**
Proposed Carrier	:	**VERIZON WIRELESS**
Carrier Site Name	:	**WASHINGTON NORTH CT**
Carrier Site Number	:	**467858**
Site Location	:	**6 Mountain Road** **New Preston, CT 06777-1518** **41.6692, -73.3653**
County	:	**Litchfield**
Date	:	**January 13, 2022**
Max Usage	:	**99%**
Result	:	**Pass**

Prepared By:

Rebecca Malz
Structural Engineer I

Reviewed By:

COA : PEC.0001553

Table of Contents

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 169 ft Monopole to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower Drawings	EEI Job #15143, dated October 24, 2007
Foundation Drawing	EEI Job #15143, dated October 24, 2007
Geotechnical Report	JGI Project #J2075402, dated October 10, 2007
Modifications	Centek Project #13046, Rev 3, dated August 19, 2013
Mount Analysis	Maser Consulting Connecticut Project #21777479A, dated October 21, 2021

Analysis

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

Basic Wind Speed:	114 mph (3-second gust)
Basic Wind Speed w/ Ice:	40 mph (3-second gust) w/ 1.00" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Spectral Response:	Ss = 0.19, S_1 = 0.05
Site Class:	D - Stiff Soil - Default

****Wind load and Ice thickness have been reduced by applicable existing structure load modification factors in accordance with TIA-222-H, Annex S.**

Conclusion

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

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

Existing and Reserved Equipment

Elev.[1] (ft)	Qty	Equipment	Mount Type	Lines	Carrier
167.0	3	Kaelus DBCT108F1V92-1	Side Arm	(3) 0.39" (10mm) Fiber Trunk (6) 0.78" (19.7mm) 8 AWG 6 (6) 1 5/8" Coax (3) 2" conduit	AT&T MOBILITY
	3	Raycap DC6-48-60-18-8F ("Squid")			
	3	Ericsson Radio 8843 - B2 + B66A			
	3	Ericsson RRUS 4478 B14			
	3	Ericsson RRUS 4449 B5, B12			
	3	CCI DMP65R-BU4D			
	3	CCI OPA65R-BU4DA-K			
157.0	-	-	-	(12) 1 5/8" Coax	VERIZON WIRELESS
146.0	1	VZW Unused Reserve (5954.84 sqin)	Stand-Off	-	
136.0	3	Ericsson Radio 4449 B12,B71	T-Arm	(3) 1 5/8" (1.63"-41.3mm) Fiber	T-MOBILE
	3	Ericsson RRUS 11 B2			
	3	RFS APXV18-206516S-C-A20			
	3	RFS APXVAARR24_43-U-NA20			

Equipment to be Removed

Elev.[1] (ft)	Qty	Equipment	Mount Type	Lines	Carrier
157.0	3	Andrew DBXNH-6565A-VTM	Stand-Off	-	VERIZON WIRELESS
146.0	3	Antel BXA-70063/6CF __ 2°	-	(6) 1 5/8" Coax	

Proposed Equipment

Elev.[1] (ft)	Qty	Equipment	Mount Type	Lines	Carrier
157.0	3	Commscope TD-850AB-L78-43	Triangular Platform with Handrails	(6) 1 5/8" Coax (1) 1 5/8" Hybriflex	VERIZON WIRELESS
	6	Samsung RF4440d-13A			
	3	Samsung RF4439d-25A			
	1	Raycap RVZDC-6627-PF-48			
	1	Commscope NNH4-45B-R6-V1			
	2	Commscope NNH4-65B-R6H4			
147.0	3	Samsung MT6407-77A	Stand-Off	-	

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

Install proposed lines inside the pole shaft.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	42%	Pass
Shaft	99%	Pass
Flange	21%	Pass
Base Plate	25%	Pass

Foundations

Reaction Component	Original Design Reactions	Analysis Reactions	% of Design
Moment (Kips-Ft)	2398.5	2140.0	89%
Shear (Kips)	23.6	17.3	73%

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) (°)
157.0	Commscope TD-850AB-L78-43	VERIZON WIRELESS	3.393	2.550
	Samsung RF4440d-13A			
	Samsung RF4439d-25A			
	Raycap RVZDC-6627-PF-48			
	Commscope NNH4-45B-R6-V1			
	Commscope NNH4-65B-R6H4			
147.0	Samsung MT6407-77A	VERIZON WIRELESS	2.953	2.490

***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.

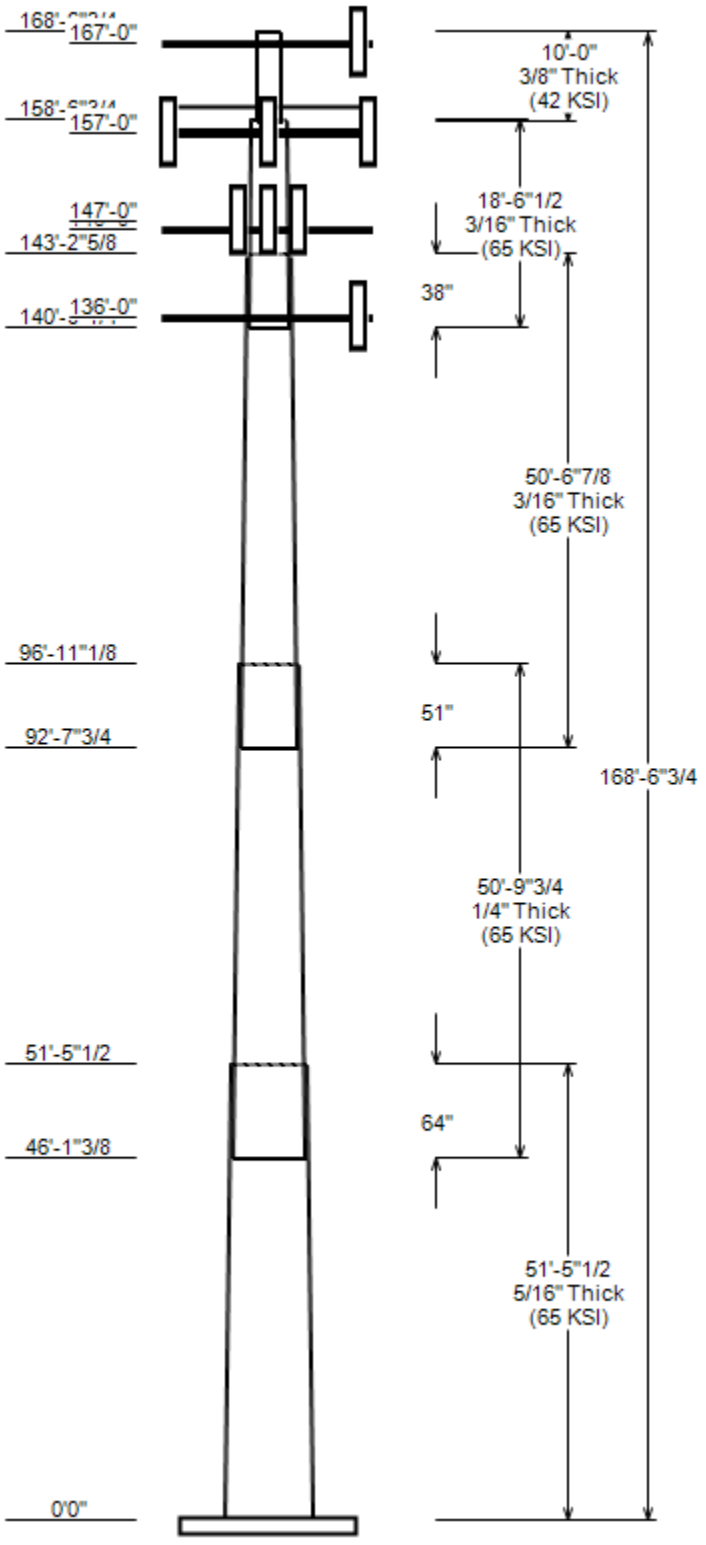
All assets of American Tower Corporation, its affiliates, and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with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

Asset :	413782, Washington North CT	Height :	168.56 ft
Client :	VERIZON WIRELESS	Base Width :	47
Code :	ANSI/TIA-222-H	Shape :	18 Sides



SITE PARAMETERS

Base Elev (ft):	0.00	Structure Class:	II
Taper :	0.19100 (In/ft)	Exposure :	B
Topographic Category :	1	Topographic Feature:	
Topo Method :	Method 1		

SECTION PROPERTIES

Shaft Section	Length (ft)	Diameter (in) Across Flats Top	Diameter (in) Across Flats Bottom	Thick (in)	Joint Type	Overlap Length (in)	Shape	Steel Grade (ksi)
1	51.458	37.18	47.00	0.312		0.000	18 Sides	65
2	50.810	29.01	38.70	0.250	Slip Joint	64.090	18 Sides	65
3	50.573	20.55	30.20	0.188	Slip Joint	51.380	18 Sides	65
4	18.542	18.00	21.53	0.188	Slip Joint	38.380	18 Sides	65
5	9.998	12.75	12.75	0.375	Butt Joint	0.000	Round	42

DISCRETE APPURTENANCE

Attach Elev (ft)	Force Elev (ft)	Qty	Description
167.0	167.0	3	Kaelus DBCT108F1V92-1
167.0	164.0	3	Raycap DC6-48-60-18-8F ("Squid
167.0	167.0	3	Ericsson Radio 8843 - B2 + B66
167.0	167.0	3	Ericsson RRUS 4478 B14
167.0	167.0	3	Ericsson RRUS 4449 B5, B12
167.0	167.0	3	Generic Round Side Arm
167.0	167.0	3	CCI DMP65R-BU4D
167.0	167.0	3	CCI OPA65R-BU4DA-K
157.0	157.0	3	Commscope TD-850AB-L78-43
157.0	157.0	6	Samsung RF4440d-13A
157.0	157.0	3	Samsung RF4439d-25A
157.0	157.0	1	Raycap RVZDC-6627-PF-48
157.0	157.0	1	Commscope NNH4-45B-R6-V1
157.0	157.0	2	Commscope NNH4-65B-R6H4
157.0	157.0	1	Generic Round Platform with Ha
147.0	147.0	3	Samsung MT6407-77A
146.0	146.0	3	Stand-Off
146.0	146.0	1	VZW Unused Reserve (5954.84 sq
136.0	136.0	3	Ericsson Radio 4449 B12,B71
136.0	136.0	3	Ericsson RRUS 11 B2
136.0	136.0	3	RFS APXV18-206516S-C-A20
136.0	136.0	3	Generic Flat T-Arm
136.0	136.0	3	RFS APXVAARR24_43-U-NA20

LINEAR APPURTENANCE

Elev From (ft)	Elev To (ft)	Description	Exp To Wind
0.0	167.0	2" conduit	No
0.0	167.0	1 5/8" Coax	Yes
0.0	167.0	0.78" (19.7mm) 8 AWG 6	Yes
0.0	167.0	0.78" (19.7mm) 8 AWG 6	No
0.0	167.0	0.39" (10mm) Fiber Trunk	No
0.0	167.0	0.39" (10mm) Fiber Trunk	Yes
0.0	157.0	1 5/8" Hybriflex	No
0.0	157.0	1 5/8" Coax	No
0.0	157.0	1 5/8" Coax	No
0.0	136.0	1 5/8" (1.63"-41.3mm) Fiber	No
93.0	108.0	0.75" Thick Flat Plate	Yes
93.0	108.0	0.75" Thick Flat Plate	Yes
93.0	108.0	0.75" Thick Flat Plate	Yes
46.5	76.5	0.75" Thick Flat Plate	Yes
46.5	76.5	0.75" Thick Flat Plate	Yes

JOB INFORMATION

Asset :	413782, Washington North CT	Height :	168.56 ft
Client :	VERIZON WIRELESS	Base Width :	47
Code :	ANSI/TIA-222-H	Shape :	18 Sides

LINEAR APPURTENANCE

Elev From (ft)	Elev To (ft)	Description	Exp To Wind
46.5	76.5	0.75" Thick Flat Plate	Yes

LOAD CASES

1.2D + 1.0W Normal	111.11 mph wind with no ice
0.9D + 1.0W Normal	111.11 mph wind with no ice
1.2D + 1.0Di + 1.0Wi Nor	38.99 mph wind with 0.850" radial
1.2D + 1.0Ev + 1.0Eh Nor	Seismic
0.9D - 1.0Ev + 1.0Eh Nor	Seismic (Reduced DL)
1.0D + 1.0W Service Norm	60 mph Wind with No Ice

REACTIONS

Load Case	Moment (kip-ft)	Shear (Kip)	Axial (Kip)
1.2D + 1.0W Normal	2139.98	17.26	35.40
0.9D + 1.0W Normal	2083.46	17.24	26.54
1.2D + 1.0Di + 1.0Wi Normal	389.67	3.16	47.83
1.2D + 1.0Ev + 1.0Eh Normal	134.77	0.89	35.39
0.9D - 1.0Ev + 1.0Eh Normal	130.13	0.89	24.55
1.0D + 1.0W Service Normal	553.18	4.51	29.52

DISH DEFLECTIONS

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

ANALYSIS PARAMETERS

Location:	Litchfield County,CT	**Height:**	168.56 ft
Type and Shape:	Custom, Round	**Base Diameter:**	47.00 in
Manufacturer:	EEI	**Top Diameter:**	12.75 in
K_d (non-service):	0.95	**Taper:**	0.1910 in/ft
K_e:	0.98	**Rotation:**	0.000°

ICE & WIND PARAMETERS

Exposure Category:	B	**Design Wind Speed w/o Ice:**	111 mph
Risk Category:	II	**Design Wind Speed w/Ice:**	39 mph
Topo Factor Procedure:	Method 1	**Operational Wind Speed:**	60 mph
Topographic Category:	1	**Design Ice Thickness:**	0.85 in
Crest Height:	0 ft	**HMSL:**	693.00 ft

SEISMIC PARAMETERS

Analysis Method:	Equivalent Lateral Force Method				
Site Class:	D - Stiff Soil			**Period Based on Rayleigh Method (sec):**	3.74
T_L (sec):	6	**P:**	1	**C_s:**	0.030
S_s:	0.187	**S_1:**	0.054	**C_s Max:**	0.030
F_a:	1.600	**F_v:**	2.400	**C_s Min:**	0.030
S_{ds}:	0.199	**S_{d1}:**	0.086		

LOAD CASES

1.2D + 1.0W Normal	111.11 mph wind with no ice
0.9D + 1.0W Normal	111.11 mph wind with no ice
1.2D + 1.0Di + 1.0Wi Normal	38.99 mph wind with 0.850" radial ice
1.2D + 1.0Ev + 1.0Eh Normal	Seismic
0.9D - 1.0Ev + 1.0Eh Normal	Seismic (Reduced DL)
1.0D + 1.0W Service Normal	60 mph Wind with No Ice

SHAFT SECTION PROPERTIES

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint len (in)	Weight (lb)	Bottom Dia (in)	Bottom Elev (ft)	Bottom Area (in²)	Bottom Ix (in⁴)	Bottom W/t Ratio	Bottom D/t Ratio	Top Dia (in)	Top Elev (in)	Top Area (in²)	Top Ix (in⁴)	Top W/t Ratio	Top D/t Ratio	Taper (in/ft)
1-18	51.46	0.3125	65		0.00	7,256	47.00	0.002	46.31	12,752.5	24.76	150.40	37.18	51.46	36.57	6,280.4	19.22	118.98	0.1908
2-18	50.81	0.2500	65	Slip	64.09	4,610	38.70	46.120	30.51	5,699.0	25.53	154.80	29.01	96.93	22.82	2,383.9	18.70	116.02	0.1908
3-18	50.57	0.1875	65	Slip	51.38	2,579	30.20	92.647	17.86	2,032.2	26.64	161.06	20.55	143.22	12.12	634.7	17.56	109.59	0.1908
								140.01								424.7			
4-18	18.54	0.1875	65	Slip	38.38	735	21.53	8	12.70	731.4	18.49	114.85	18.00	158.56	10.60		15.16	95.98	0.1908
								158.56								279.3			
5-R	10.00	0.3750	42	Butt	0.00	496	12.75	2	14.58	279.3	0.00	34.00	12.75	168.56	14.58		0.00	34.00	0.0000

Shaft Weight 15,676

DISCRETE APPURTENANCE PROPERTIES

Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	No Ice Weight (lb)	No Ice EPAa (sf)	No Ice Orientation Factor	Ice Weight (lb)	Ice EPAa (sf)	Ice Orientation Factor
167.00	CCI OPA65R-BU4DA-K	3	0.80	0.000	52.50	8.435	0.62	157.65	9.605	0.62
167.00	Generic Round Side Arm	3	1.00	0.000	187.50	5.200	0.67	239.95	6.758	0.67
167.00	Ericsson RRUS 4449 B5, B12	3	0.80	0.000	71.00	1.969	0.50	107.97	2.504	0.50
167.00	Ericsson RRUS 4478 B14	3	0.80	0.000	59.90	1.842	0.50	91.62	2.357	0.50
167.00	Ericsson Radio 8843 - B2 + B66	3	0.80	0.000	71.90	1.650	0.50	107.24	2.136	0.50
167.00	Raycap DC6-48-60-18-8F ("Squid	3	0.80	-3.000	31.80	1.470	1.00	67.19	1.871	1.00
167.00	Kaelus DBCT108F1V92-1	3	0.80	0.000	13.90	0.633	0.50	28.34	0.946	0.50
167.00	CCI DMP65R-BU4D	3	0.80	0.000	67.90	8.280	0.62	171.50	9.441	0.62
157.00	Samsung RF4439d-25A	3	0.80	0.000	74.70	2.500	0.67	120.27	3.097	0.67
157.00	Generic Round Platform with Ha	1	1.00	0.000	2500.00	27.200	1.00	3423.34	41.135	1.00
157.00	Commscope NNH4-65B-R6H4	2	0.80	0.000	83.30	12.271	0.73	226.54	13.869	0.73
157.00	Commscope NNH4-45B-R6-V1	1	0.80	0.000	80.20	11.545	1.00	211.65	13.150	1.00
157.00	Raycap RVZDC-6627-PF-48	1	0.80	0.000	32.00	3.781	1.00	94.51	4.535	1.00
157.00	Samsung RF4440d-13A	6	0.80	0.000	70.30	1.875	0.50	104.70	2.390	0.50
157.00	Commscope TD-850AB-L78-43	3	0.80	0.000	28.70	1.426	0.50	51.32	1.878	0.50
147.00	Samsung MT6407-77A	3	0.80	0.000	81.60	4.709	0.61	139.34	5.569	0.61
146.00	VZW Unused Reserve (5954.84 sq	1	0.80	0.000	0.00	41.353	0.90	0.00	57.662	0.90
146.00	Stand-Off	3	1.00	0.000	75.00	2.500	0.67	95.70	3.239	0.67
136.00	Ericsson Radio 4449 B12,B71	3	0.80	0.000	74.00	1.639	0.50	105.47	2.113	0.50
136.00	Ericsson RRUS 11 B2	3	0.80	0.000	50.70	2.791	0.67	91.40	3.407	0.67
136.00	RFS APXV18-206516S-C-A20	3	0.80	0.000	18.70	3.620	0.67	58.01	4.665	0.67
136.00	Generic Flat T-Arm	3	0.75	0.000	312.50	12.900	0.67	459.34	17.497	0.67
136.00	RFS APXVAARR24_43-U-NA20	3	0.80	0.000	127.90	20.243	0.63	348.57	22.328	0.63
Totals	Num Loadings: 23	63			7,401.20			12,133.42		

LINEAR APPURTENANCE PROPERTIES

Load Case Azimuth (deg) : _

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Flat	Max Coax/ Row	Dist Between Rows(in)	Dist Between Cols(in)	Azimuth (deg)	Dist From Face (in)	Exposed To Wind	Carrier
0.00	167.00	6	1 5/8" Coax	1.98	0.82	N	6	1	1	90	1	Y	AT&T MOBILITY
0.00	167.00	4	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	167.00	3	2" conduit	2.38	3.65	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	167.00	2	0.39" (10mm) Fiber Tr	0.39	0.06	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	167.00	2	0.78" (19.7mm) 8 AWG	0.78	0.59	N	2	0	1	80	1	Y	AT&T MOBILITY
0.00	167.00	1	0.39" (10mm) Fiber Tr	0.39	0.06	N	1	0	0	75	1	Y	AT&T MOBILITY
0.00	157.00	12	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	VERIZON WIREL
0.00	157.00	6	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	VERIZON WIREL
0.00	157.00	1	1 5/8" Hybriflex	1.98	1.3	N	0	0	0	0	0	N	VERIZON WIREL
0.00	136.00	3	1 5/8" (1.63"-41.3mm)	1.63	1.61	N	0	0	0	0	0	N	T-MOBILE
93.00	108.00	1	0.75" Thick Flat Plat	0.75	0	Y	1	0	0	80	0	Y	
93.00	108.00	1	0.75" Thick Flat Plat	0.75	0	Y	1	0	0	200	0	Y	
93.00	108.00	1	0.75" Thick Flat Plat	0.75	0	Y	1	0	0	320	0	Y	
46.50	76.50	1	0.75" Thick Flat Plat	0.75	0	Y	1	0	0	10	0	Y	
46.50	76.50	1	0.75" Thick Flat Plat	0.75	0	Y	1	0	0	240	0	Y	
46.50	76.50	1	0.75" Thick Flat Plat	0.75	0	Y	1	0	0	140	0	Y	

SEGMENT PROPERTIES

(Max Len: 5.ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in^3)	Z (in^3)	Weight (lb)
0.00		0.3125	47.000	46.306	12,752.50	24.76	150.40	72.3	534.4	0.0	0.0
5.00		0.3125	46.046	45.360	11,986.60	24.22	147.35	72.9	512.7	0.0	779.8
10.00		0.3125	45.092	44.414	11,252.10	23.68	144.29	73.5	491.5	0.0	763.7
15.00		0.3125	44.138	43.468	10,548.10	23.14	141.24	74.2	470.7	0.0	747.6
20.00		0.3125	43.184	42.522	9,874.20	22.60	138.19	74.8	450.4	0.0	731.5
25.00		0.3125	42.230	41.575	9,229.50	22.06	135.14	75.4	430.5	0.0	715.4
30.00		0.3125	41.276	40.629	8,613.60	21.53	132.08	76.1	411.0	0.0	699.3
35.00		0.3125	40.322	39.683	8,025.70	20.99	129.03	76.7	392.0	0.0	683.2
40.00		0.3125	39.368	38.737	7,465.20	20.45	125.98	77.3	373.5	0.0	667.1
45.00		0.3125	38.414	37.791	6,931.40	19.91	122.92	78	355.4	0.0	651.0
46.12	Bot - Section 2	0.3125	38.201	37.579	6,815.70	19.79	122.24	78.1	351.4	0.0	143.3
50.00		0.3125	37.460	36.844	6,423.70	19.37	119.87	78.6	337.8	0.0	890.9
51.46	Top - Section 1	0.2500	37.682	29.701	5,257.80	24.81	150.73	72.2	274.8	0.0	330.1
55.00		0.2500	37.006	29.165	4,978.20	24.34	148.02	72.8	265.0	0.0	354.7
60.00		0.2500	36.052	28.408	4,600.50	23.66	144.21	73.6	251.3	0.0	489.8
65.00		0.2500	35.098	27.651	4,242.50	22.99	140.39	74.4	238.1	0.0	476.9
70.00		0.2500	34.144	26.894	3,903.50	22.32	136.58	75.1	225.2	0.0	464.0
75.00		0.2500	33.190	26.137	3,583.10	21.65	132.76	75.9	212.6	0.0	451.1
80.00		0.2500	32.236	25.380	3,280.70	20.97	128.94	76.7	200.4	0.0	438.3
85.00		0.2500	31.282	24.623	2,995.80	20.30	125.13	77.5	188.6	0.0	425.4
90.00		0.2500	30.328	23.866	2,727.90	19.63	121.31	78.3	177.2	0.0	412.5
92.65	Bot - Section 3	0.2500	29.823	23.465	2,592.90	19.27	119.29	78.7	171.2	0.0	213.1
95.00		0.2500	29.374	23.109	2,476.50	18.95	117.50	79.1	166.1	0.0	328.5
96.93	Top - Section 2	0.1875	29.381	17.373	1,870.80	25.87	156.70	71	125.4	0.0	265.2
100.00		0.1875	28.795	17.024	1,760.30	25.32	153.57	71.6	120.4	0.0	179.8
105.00		0.1875	27.841	16.457	1,590.00	24.42	148.49	72.7	112.5	0.0	284.8
110.00		0.1875	26.887	15.889	1,431.10	23.52	143.40	73.7	104.8	0.0	275.2
115.00		0.1875	25.933	15.321	1,283.10	22.62	138.31	74.8	97.4	0.0	265.5
120.00		0.1875	24.979	14.754	1,145.70	21.73	133.22	75.8	90.3	0.0	255.8
125.00		0.1875	24.025	14.186	1,018.40	20.83	128.13	76.9	83.5	0.0	246.2
130.00		0.1875	23.071	13.618	901.00	19.93	123.05	78	76.9	0.0	236.5
135.00		0.1875	22.117	13.050	792.90	19.04	117.96	79	70.6	0.0	226.9
136.00		0.1875	21.926	12.937	772.40	18.86	116.94	79.2	69.4	0.0	44.2
140.00		0.1875	21.163	12.483	693.90	18.14	112.87	80.1	64.6	0.0	173.0
140.02	Bot - Section 4	0.1875	21.159	12.480	693.50	18.13	112.85	80.1	64.6	0.0	0.9
143.22	Top - Section 3	0.1875	20.924	12.340	670.40	17.91	111.59	80.3	63.1	0.0	270.1
145.00		0.1875	20.584	12.138	638.00	17.59	109.78	80.7	61.0	0.0	74.2
146.00		0.1875	20.393	12.024	620.30	17.41	108.76	80.9	59.9	0.0	41.1
147.00		0.1875	20.202	11.911	602.80	17.24	107.75	81.1	58.8	0.0	40.7
150.00		0.1875	19.630	11.570	552.60	16.70	104.69	81.8	55.4	0.0	119.9
155.00		0.1875	18.676	11.003	475.20	15.80	99.61	82.6	50.1	0.0	192.0
157.00		0.1875	18.294	10.775	446.40	15.44	97.57	82.6	48.1	0.0	74.1
158.56	Top - Section 4	0.1875	17.996	10.598	424.70	15.16	95.98	82.6	46.5	0.0	56.8
158.56	Bot - Section 5	0.3750	12.750	14.579	279.30	0.00	34.00	42	43.8	57.4	
160.00		0.3750	12.750	14.579	279.30	0.00	34.00	42	43.8	57.4	71.3
165.00		0.3750	12.750	14.579	279.30	0.00	34.00	42	43.8	57.4	248.0
167.00		0.3750	12.750	14.579	279.30	0.00	34.00	42	43.8	57.4	99.2
168.56		0.3750	12.750	14.579	279.30	0.00	34.00	42	43.8	57.4	77.4
									Totals:		15,676.0

Load Case: 1.2D + 1.0W Normal 111.11 mph wind with no ice 34 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	-35.40	-17.26	0.00	-2,140.0	0.00	2,139.98	3,012.45	812.68	3,426.89	2,897.19	0	0	0.751
5.00	-34.15	-17.07	0.00	-2,053.7	0.00	2,053.71	2,976.74	796.07	3,288.29	2,803.96	0.12	-0.23	0.744
10.00	-32.92	-16.89	0.00	-1,968.3	0.00	1,968.34	2,939.96	779.47	3,152.55	2,711.15	0.5	-0.47	0.738
15.00	-31.71	-16.71	0.00	-1,883.9	0.00	1,883.89	2,902.09	762.86	3,019.67	2,618.82	1.12	-0.72	0.731
20.00	-30.52	-16.52	0.00	-1,800.4	0.00	1,800.35	2,863.14	746.25	2,889.65	2,527.03	2	-0.96	0.724
25.00	-29.36	-16.34	0.00	-1,717.7	0.00	1,717.73	2,823.12	729.65	2,762.49	2,435.86	3.15	-1.22	0.716
30.00	-28.21	-16.15	0.00	-1,636.0	0.00	1,636.02	2,782.02	713.04	2,638.19	2,345.36	4.56	-1.48	0.708
35.00	-27.08	-15.96	0.00	-1,555.3	0.00	1,555.26	2,739.84	696.44	2,516.75	2,255.60	6.25	-1.74	0.700
40.00	-25.97	-15.75	0.00	-1,475.5	0.00	1,475.48	2,696.58	679.83	2,398.18	2,166.65	8.21	-2.01	0.691
45.00	-24.91	-15.60	0.00	-1,396.7	0.00	1,396.74	2,652.25	663.22	2,282.46	2,078.56	10.46	-2.28	0.682
46.12	-24.65	-15.50	0.00	-1,379.3	0.00	1,379.31	2,642.20	659.51	2,257.00	2,059.00	11.01	-2.35	0.680
50.00	-23.36	-15.34	0.00	-1,319.1	0.00	1,319.14	2,606.83	646.62	2,169.61	1,991.40	13	-2.56	0.672
51.46	-22.86	-15.23	0.00	-1,296.8	0.00	1,296.76	1,930.38	521.25	1,762.26	1,488.49	13.8	-2.65	0.884
55.00	-22.21	-15.04	0.00	-1,242.8	0.00	1,242.83	1,910.24	511.84	1,699.21	1,446.19	15.84	-2.85	0.872
60.00	-21.31	-14.82	0.00	-1,167.6	0.00	1,167.62	1,880.90	498.56	1,612.16	1,386.77	19.01	-3.2	0.854
65.00	-20.42	-14.60	0.00	-1,093.5	0.00	1,093.50	1,850.47	485.27	1,527.40	1,327.73	22.54	-3.55	0.836
70.00	-19.55	-14.36	0.00	-1,020.5	0.00	1,020.52	1,818.97	471.99	1,444.92	1,269.14	26.45	-3.9	0.816
75.00	-18.70	-14.13	0.00	-948.7	0.00	948.70	1,786.38	458.70	1,364.74	1,211.07	30.72	-4.26	0.795
80.00	-17.87	-13.88	0.00	-878.1	0.00	878.07	1,752.72	445.42	1,286.84	1,153.57	35.37	-4.62	0.772
85.00	-17.06	-13.64	0.00	-808.6	0.00	808.65	1,717.99	432.13	1,211.23	1,096.73	40.4	-4.99	0.748
90.00	-16.28	-13.43	0.00	-740.5	0.00	740.46	1,682.17	418.85	1,137.91	1,040.58	45.81	-5.36	0.722
92.65	-15.87	-13.30	0.00	-704.9	0.00	704.92	1,662.78	411.82	1,100.04	1,011.18	48.83	-5.56	0.708
95.00	-15.33	-13.17	0.00	-673.6	0.00	673.60	1,645.28	405.56	1,066.88	985.21	51.61	-5.73	0.694
96.93	-14.90	-13.04	0.00	-648.2	0.00	648.22	1,109.79	304.90	803.95	667.58	53.95	-5.88	0.986
100.00	-14.48	-12.86	0.00	-608.2	0.00	608.15	1,097.43	298.78	771.98	646.81	57.81	-6.11	0.955
105.00	-13.83	-12.63	0.00	-543.8	0.00	543.84	1,076.47	288.82	721.36	613.15	64.44	-6.58	0.902
110.00	-13.19	-12.39	0.00	-480.7	0.00	480.70	1,054.42	278.85	672.45	579.74	71.56	-7.03	0.844
115.00	-12.58	-12.13	0.00	-418.8	0.00	418.77	1,031.29	268.89	625.26	546.62	79.15	-7.48	0.780
120.00	-11.99	-11.87	0.00	-358.1	0.00	358.11	1,007.09	258.92	579.79	513.87	87.19	-7.91	0.711
125.00	-11.41	-11.59	0.00	-298.8	0.00	298.78	981.81	248.96	536.03	481.55	95.67	-8.32	0.634
130.00	-10.86	-11.30	0.00	-240.8	0.00	240.83	955.45	239.00	493.99	449.72	104.56	-8.7	0.549
135.00	-10.34	-11.09	0.00	-184.3	0.00	184.31	928.01	229.03	453.66	418.44	113.82	-9.03	0.454
136.00	-8.51	-8.49	0.00	-173.2	0.00	173.22	922.39	227.04	445.80	412.26	115.71	-9.1	0.431
140.00	-8.14	-8.34	0.00	-139.2	0.00	139.25	899.49	219.07	415.05	387.79	123.4	-9.33	0.370
140.02	-8.14	-8.26	0.00	-139.1	0.00	139.08	899.37	219.03	414.90	387.67	123.44	-9.33	0.369
143.22	-7.69	-8.06	0.00	-112.7	0.00	112.68	892.17	216.57	405.65	380.21	129.71	-9.49	0.306
145.00	-7.53	-7.96	0.00	-98.3	0.00	98.32	881.66	213.02	392.46	369.52	133.26	-9.58	0.276
146.00	-7.38	-6.64	0.00	-90.4	0.00	90.36	875.69	211.03	385.15	363.55	135.26	-9.62	0.258
147.00	-7.06	-6.23	0.00	-83.7	0.00	83.72	869.69	209.04	377.91	357.62	137.27	-9.66	0.243
150.00	-6.81	-5.98	0.00	-65.0	0.00	65.03	851.41	203.06	356.61	340.00	143.34	-9.76	0.200
155.00	-6.40	-5.72	0.00	-35.1	0.00	35.14	817.44	193.10	322.48	310.26	153.59	-9.89	0.122
157.00	-2.49	-2.58	0.00	-23.7	0.00	23.70	800.56	189.11	309.31	297.52	157.73	-9.93	0.083
158.56	-2.40	-2.50	0.00	-19.7	0.00	19.67	787.38	186.00	299.21	287.76	160.96	-9.95	0.072
158.56	-2.40	-2.50	0.00	-19.7	0.00	19.67	551.08	165.33	179.87	180.95	160.96	-9.95	0.113
160.00	-2.30	-2.35	0.00	-16.1	0.00	16.08	551.08	165.33	179.87	180.95	163.95	-9.97	0.093
165.00	-1.92	-2.14	0.00	-4.3	0.00	4.32	551.08	165.33	179.87	180.95	174.36	-10.02	0.028
167.00	-0.09	-0.03	0.00	-0.0	0.00	0.05	551.08	165.33	179.87	180.95	178.54	-10.02	0.000
168.56	0.00	-0.01	0.00	0.0	0.00	0.00	551.08	165.33	179.87	180.95	181.8	-10.02	0.000

Load Case: 0.9D + 1.0W Normal — 111.11 mph wind with no ice — 33 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	-26.54	-17.24	0.00	-2,083.5	0.00	2,083.46	3,012.45	812.68	3,426.89	2,897.19	0	0	0.728
5.00	-25.59	-17.02	0.00	-1,997.3	0.00	1,997.28	2,976.74	796.07	3,288.29	2,803.96	0.12	-0.23	0.721
10.00	-24.65	-16.80	0.00	-1,912.2	0.00	1,912.20	2,939.96	779.47	3,152.55	2,711.15	0.48	-0.46	0.714
15.00	-23.73	-16.58	0.00	-1,828.2	0.00	1,828.22	2,902.09	762.86	3,019.67	2,618.82	1.09	-0.7	0.707
20.00	-22.83	-16.36	0.00	-1,745.3	0.00	1,745.32	2,863.14	746.25	2,889.65	2,527.03	1.95	-0.94	0.699
25.00	-21.94	-16.15	0.00	-1,663.5	0.00	1,663.50	2,823.12	729.65	2,762.49	2,435.86	3.06	-1.18	0.691
30.00	-21.06	-15.93	0.00	-1,582.8	0.00	1,582.75	2,782.02	713.04	2,638.19	2,345.36	4.43	-1.43	0.683
35.00	-20.20	-15.71	0.00	-1,503.1	0.00	1,503.08	2,739.84	696.44	2,516.75	2,255.60	6.07	-1.69	0.674
40.00	-19.36	-15.48	0.00	-1,424.5	0.00	1,424.53	2,696.58	679.83	2,398.18	2,166.65	7.97	-1.95	0.665
45.00	-18.55	-15.32	0.00	-1,347.2	0.00	1,347.15	2,652.25	663.22	2,282.46	2,078.56	10.15	-2.21	0.656
46.12	-18.35	-15.20	0.00	-1,330.0	0.00	1,330.04	2,642.20	659.51	2,257.00	2,059.00	10.68	-2.27	0.653
50.00	-17.38	-15.04	0.00	-1,271.0	0.00	1,271.01	2,606.83	646.62	2,169.61	1,991.40	12.61	-2.48	0.645
51.46	-17.00	-14.92	0.00	-1,249.1	0.00	1,249.07	1,930.38	521.25	1,762.26	1,488.49	13.39	-2.56	0.849
55.00	-16.50	-14.71	0.00	-1,196.2	0.00	1,196.24	1,910.24	511.84	1,699.21	1,446.19	15.36	-2.76	0.837
60.00	-15.81	-14.47	0.00	-1,122.7	0.00	1,122.68	1,880.90	498.56	1,612.16	1,386.77	18.43	-3.09	0.819
65.00	-15.13	-14.22	0.00	-1,050.4	0.00	1,050.35	1,850.47	485.27	1,527.40	1,327.73	21.84	-3.43	0.800
70.00	-14.47	-13.96	0.00	-979.3	0.00	979.27	1,818.97	471.99	1,444.92	1,269.14	25.61	-3.77	0.780
75.00	-13.82	-13.71	0.00	-909.5	0.00	909.46	1,786.38	458.70	1,364.74	1,211.07	29.74	-4.11	0.760
80.00	-13.19	-13.45	0.00	-840.9	0.00	840.93	1,752.72	445.42	1,286.84	1,153.57	34.23	-4.46	0.737
85.00	-12.57	-13.19	0.00	-773.7	0.00	773.69	1,717.99	432.13	1,211.23	1,096.73	39.08	-4.81	0.714
90.00	-11.97	-12.97	0.00	-707.8	0.00	707.76	1,682.17	418.85	1,137.91	1,040.58	44.3	-5.16	0.688
92.65	-11.66	-12.84	0.00	-673.4	0.00	673.44	1,662.78	411.82	1,100.04	1,011.18	47.21	-5.35	0.674
95.00	-11.26	-12.71	0.00	-643.2	0.00	643.21	1,645.28	405.56	1,066.88	985.21	49.89	-5.52	0.661
96.93	-10.92	-12.57	0.00	-618.7	0.00	618.71	1,109.79	304.90	803.95	667.58	52.15	-5.66	0.938
100.00	-10.60	-12.38	0.00	-580.1	0.00	580.08	1,097.43	298.78	771.98	646.81	55.86	-5.88	0.908
105.00	-10.10	-12.13	0.00	-518.2	0.00	518.17	1,076.47	288.82	721.36	613.15	62.24	-6.33	0.856
110.00	-9.62	-11.87	0.00	-457.5	0.00	457.52	1,054.42	278.85	672.45	579.74	69.09	-6.76	0.800
115.00	-9.15	-11.61	0.00	-398.2	0.00	398.15	1,031.29	268.89	625.26	546.62	76.38	-7.19	0.739
120.00	-8.70	-11.34	0.00	-340.1	0.00	340.10	1,007.09	258.92	579.79	513.87	84.11	-7.6	0.672
125.00	-8.27	-11.06	0.00	-283.4	0.00	283.40	981.81	248.96	536.03	481.55	92.25	-7.98	0.599
130.00	-7.85	-10.77	0.00	-228.1	0.00	228.11	955.45	239.00	493.99	449.72	100.78	-8.34	0.517
135.00	-7.46	-10.57	0.00	-174.2	0.00	174.25	928.01	229.03	453.66	418.44	109.66	-8.66	0.427
136.00	-6.16	-8.06	0.00	-163.7	0.00	163.68	922.39	227.04	445.80	412.26	111.47	-8.72	0.405
140.00	-5.88	-7.92	0.00	-131.4	0.00	131.44	899.49	219.07	415.05	387.79	118.84	-8.94	0.347
140.02	-5.88	-7.83	0.00	-131.3	0.00	131.28	899.37	219.03	414.90	387.67	118.88	-8.94	0.346
143.22	-5.54	-7.65	0.00	-106.2	0.00	106.23	892.17	216.57	405.65	380.21	124.9	-9.09	0.287
145.00	-5.43	-7.56	0.00	-92.6	0.00	92.60	881.66	213.02	392.46	369.52	128.29	-9.17	0.258
146.00	-5.36	-6.25	0.00	-85.0	0.00	85.04	875.69	211.03	385.15	363.55	130.21	-9.21	0.241
147.00	-5.12	-5.85	0.00	-78.8	0.00	78.79	869.69	209.04	377.91	357.62	132.14	-9.25	0.227
150.00	-4.95	-5.61	0.00	-61.2	0.00	61.23	851.41	203.06	356.61	340.00	137.96	-9.35	0.187
155.00	-4.64	-5.37	0.00	-33.2	0.00	33.17	817.44	193.10	322.48	310.26	147.77	-9.47	0.113
157.00	-1.80	-2.45	0.00	-22.4	0.00	22.43	800.56	189.11	309.31	297.52	151.73	-9.5	0.078
158.56	-1.73	-2.36	0.00	-18.6	0.00	18.61	787.38	186.00	299.21	287.76	154.83	-9.52	0.067
158.56	-1.73	-2.36	0.00	-18.6	0.00	18.61	551.08	165.33	179.87	180.95	154.83	-9.52	0.106
160.00	-1.66	-2.22	0.00	-15.2	0.00	15.21	551.08	165.33	179.87	180.95	157.69	-9.54	0.087
165.00	-1.38	-2.03	0.00	-4.1	0.00	4.10	551.08	165.33	179.87	180.95	167.66	-9.59	0.025
167.00	-0.07	-0.03	0.00	-0.0	0.00	0.04	551.08	165.33	179.87	180.95	171.66	-9.59	0.000
168.56	0.00	-0.01	0.00	0.0	0.00	0.00	551.08	165.33	179.87	180.95	174.78	-9.59	0.000

Load Case: 1.2D + 1.0Di + 1.0Wi Normal		38.99 mph wind with 0.850" radial ice			32 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	-47.83	-3.16	0.00	-389.7	0.00	389.67	3,012.45	812.68	3,426.89	2,897.19	0	0	0.150
5.00	-46.39	-3.13	0.00	-373.9	0.00	373.86	2,976.74	796.07	3,288.29	2,803.96	0.02	-0.04	0.149
10.00	-44.94	-3.10	0.00	-358.2	0.00	358.21	2,939.96	779.47	3,152.55	2,711.15	0.09	-0.09	0.147
15.00	-43.51	-3.06	0.00	-342.7	0.00	342.73	2,902.09	762.86	3,019.67	2,618.82	0.2	-0.13	0.146
20.00	-42.09	-3.03	0.00	-327.4	0.00	327.41	2,863.14	746.25	2,889.65	2,527.03	0.36	-0.18	0.144
25.00	-40.69	-3.00	0.00	-312.3	0.00	312.26	2,823.12	729.65	2,762.49	2,435.86	0.57	-0.22	0.143
30.00	-39.30	-2.96	0.00	-297.3	0.00	297.28	2,782.02	713.04	2,638.19	2,345.36	0.83	-0.27	0.141
35.00	-37.94	-2.93	0.00	-282.5	0.00	282.47	2,739.84	696.44	2,516.75	2,255.60	1.14	-0.32	0.139
40.00	-36.60	-2.89	0.00	-267.8	0.00	267.84	2,696.58	679.83	2,398.18	2,166.65	1.49	-0.37	0.137
45.00	-35.28	-2.86	0.00	-253.4	0.00	253.41	2,652.25	663.22	2,282.46	2,078.56	1.9	-0.41	0.135
46.12	-34.98	-2.84	0.00	-250.2	0.00	250.22	2,642.20	659.51	2,257.00	2,059.00	2	-0.43	0.135
50.00	-33.49	-2.81	0.00	-239.2	0.00	239.20	2,606.83	646.62	2,169.61	1,991.40	2.37	-0.47	0.133
51.46	-32.93	-2.79	0.00	-235.1	0.00	235.11	1,930.38	521.25	1,762.26	1,488.49	2.51	-0.48	0.175
55.00	-32.11	-2.75	0.00	-225.2	0.00	225.24	1,910.24	511.84	1,699.21	1,446.19	2.88	-0.52	0.173
60.00	-30.98	-2.71	0.00	-211.5	0.00	211.48	1,880.90	498.56	1,612.16	1,386.77	3.46	-0.58	0.169
65.00	-29.86	-2.67	0.00	-197.9	0.00	197.94	1,850.47	485.27	1,527.40	1,327.73	4.1	-0.64	0.165
70.00	-28.77	-2.62	0.00	-184.6	0.00	184.61	1,818.97	471.99	1,444.92	1,269.14	4.81	-0.71	0.161
75.00	-27.69	-2.57	0.00	-171.5	0.00	171.50	1,786.38	458.70	1,364.74	1,211.07	5.58	-0.77	0.157
80.00	-26.64	-2.53	0.00	-158.6	0.00	158.63	1,752.72	445.42	1,286.84	1,153.57	6.43	-0.84	0.153
85.00	-25.61	-2.48	0.00	-146.0	0.00	146.00	1,717.99	432.13	1,211.23	1,096.73	7.34	-0.9	0.148
90.00	-24.60	-2.44	0.00	-133.6	0.00	133.61	1,682.17	418.85	1,137.91	1,040.58	8.33	-0.97	0.143
92.65	-24.08	-2.41	0.00	-127.2	0.00	127.17	1,662.78	411.82	1,100.04	1,011.18	8.87	-1.01	0.140
95.00	-23.44	-2.38	0.00	-121.5	0.00	121.50	1,645.28	405.56	1,066.88	985.21	9.38	-1.04	0.138
96.93	-22.92	-2.36	0.00	-116.9	0.00	116.91	1,109.79	304.90	803.95	667.58	9.8	-1.07	0.196
100.00	-22.38	-2.32	0.00	-109.7	0.00	109.66	1,097.43	298.78	771.98	646.81	10.5	-1.11	0.190
105.00	-21.53	-2.28	0.00	-98.0	0.00	98.05	1,076.47	288.82	721.36	613.15	11.71	-1.19	0.180
110.00	-20.69	-2.23	0.00	-86.7	0.00	86.67	1,054.42	278.85	672.45	579.74	13	-1.27	0.169
115.00	-19.88	-2.18	0.00	-75.5	0.00	75.52	1,031.29	268.89	625.26	546.62	14.38	-1.35	0.158
120.00	-19.08	-2.13	0.00	-64.6	0.00	64.62	1,007.09	258.92	579.79	513.87	15.84	-1.43	0.145
125.00	-18.30	-2.08	0.00	-54.0	0.00	53.97	981.81	248.96	536.03	481.55	17.38	-1.51	0.131
130.00	-17.54	-2.02	0.00	-43.6	0.00	43.58	955.45	239.00	493.99	449.72	18.99	-1.57	0.115
135.00	-16.80	-1.98	0.00	-33.5	0.00	33.46	928.01	229.03	453.66	418.44	20.67	-1.63	0.098
136.00	-13.49	-1.54	0.00	-31.5	0.00	31.48	922.39	227.04	445.80	412.26	21.02	-1.65	0.091
140.00	-12.93	-1.51	0.00	-25.3	0.00	25.30	899.49	219.07	415.05	387.79	22.41	-1.69	0.080
140.02	-12.93	-1.50	0.00	-25.3	0.00	25.27	899.37	219.03	414.90	387.67	22.42	-1.69	0.080
143.22	-12.32	-1.46	0.00	-20.5	0.00	20.48	892.17	216.57	405.65	380.21	23.56	-1.72	0.068
145.00	-12.08	-1.44	0.00	-17.9	0.00	17.88	881.66	213.02	392.46	369.52	24.21	-1.73	0.062
146.00	-11.63	-1.21	0.00	-16.4	0.00	16.44	875.69	211.03	385.15	363.55	24.57	-1.74	0.059
147.00	-11.08	-1.14	0.00	-15.2	0.00	15.23	869.69	209.04	377.91	357.62	24.93	-1.75	0.055
150.00	-10.68	-1.09	0.00	-11.8	0.00	11.81	851.41	203.06	356.61	340.00	26.04	-1.77	0.047
155.00	-10.02	-1.04	0.00	-6.3	0.00	6.34	817.44	193.10	322.48	310.26	27.9	-1.79	0.033
157.00	-4.21	-0.47	0.00	-4.3	0.00	4.26	800.56	189.11	309.31	297.52	28.66	-1.8	0.020
158.56	-4.04	-0.45	0.00	-3.5	0.00	3.53	787.38	186.00	299.21	287.76	29.24	-1.8	0.017
158.56	-4.04	-0.45	0.00	-3.5	0.00	3.53	551.08	165.33	179.87	180.95	29.24	-1.8	0.027
160.00	-3.87	-0.42	0.00	-2.9	0.00	2.88	551.08	165.33	179.87	180.95	29.79	-1.8	0.023
165.00	-3.28	-0.38	0.00	-0.8	0.00	0.77	551.08	165.33	179.87	180.95	31.68	-1.81	0.010
167.00	-0.12	-0.01	0.00	-0.0	0.00	0.01	551.08	165.33	179.87	180.95	32.44	-1.81	0.000
168.56	0.00	0.00	0.00	0.0	0.00	0.00	551.08	165.33	179.87	180.95	33.03	-1.81	0.000

Load Case: 1.0D + 1.0W Service Normal 60 mph Wind with No Ice 32 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	-29.52	-4.51	0.00	-553.2	0.00	553.18	3,012.45	812.68	3,426.89	2,897.19	0	0	0.201
5.00	-28.54	-4.46	0.00	-530.6	0.00	530.61	2,976.74	796.07	3,288.29	2,803.96	0.03	-0.06	0.199
10.00	-27.57	-4.41	0.00	-508.3	0.00	508.31	2,939.96	779.47	3,152.55	2,711.15	0.13	-0.12	0.197
15.00	-26.61	-4.35	0.00	-486.3	0.00	486.28	2,902.09	762.86	3,019.67	2,618.82	0.29	-0.18	0.195
20.00	-25.67	-4.30	0.00	-464.5	0.00	464.51	2,863.14	746.25	2,889.65	2,527.03	0.52	-0.25	0.193
25.00	-24.75	-4.25	0.00	-443.0	0.00	443.01	2,823.12	729.65	2,762.49	2,435.86	0.81	-0.31	0.191
30.00	-23.85	-4.19	0.00	-421.8	0.00	421.78	2,782.02	713.04	2,638.19	2,345.36	1.18	-0.38	0.188
35.00	-22.96	-4.14	0.00	-400.8	0.00	400.80	2,739.84	696.44	2,516.75	2,255.60	1.61	-0.45	0.186
40.00	-22.08	-4.08	0.00	-380.1	0.00	380.11	2,696.58	679.83	2,398.18	2,166.65	2.12	-0.52	0.184
45.00	-21.23	-4.04	0.00	-359.7	0.00	359.71	2,652.25	663.22	2,282.46	2,078.56	2.7	-0.59	0.181
46.12	-21.04	-4.01	0.00	-355.2	0.00	355.20	2,642.20	659.51	2,257.00	2,059.00	2.84	-0.61	0.181
50.00	-19.98	-3.97	0.00	-339.6	0.00	339.62	2,606.83	646.62	2,169.61	1,991.40	3.36	-0.66	0.178
51.46	-19.59	-3.94	0.00	-333.8	0.00	333.83	1,930.38	521.25	1,762.26	1,488.49	3.56	-0.68	0.234
55.00	-19.09	-3.89	0.00	-319.9	0.00	319.87	1,910.24	511.84	1,699.21	1,446.19	4.09	-0.74	0.231
60.00	-18.39	-3.83	0.00	-300.4	0.00	300.43	1,880.90	498.56	1,612.16	1,386.77	4.91	-0.82	0.226
65.00	-17.71	-3.77	0.00	-281.3	0.00	281.29	1,850.47	485.27	1,527.40	1,327.73	5.82	-0.91	0.221
70.00	-17.04	-3.70	0.00	-262.5	0.00	262.46	1,818.97	471.99	1,444.92	1,269.14	6.82	-1.01	0.216
75.00	-16.38	-3.64	0.00	-243.9	0.00	243.94	1,786.38	458.70	1,364.74	1,211.07	7.93	-1.1	0.211
80.00	-15.74	-3.58	0.00	-225.7	0.00	225.74	1,752.72	445.42	1,286.84	1,153.57	9.13	-1.19	0.205
85.00	-15.11	-3.51	0.00	-207.9	0.00	207.87	1,717.99	432.13	1,211.23	1,096.73	10.42	-1.28	0.198
90.00	-14.49	-3.46	0.00	-190.3	0.00	190.32	1,682.17	418.85	1,137.91	1,040.58	11.82	-1.38	0.192
92.65	-14.17	-3.42	0.00	-181.2	0.00	181.17	1,662.78	411.82	1,100.04	1,011.18	12.6	-1.43	0.188
95.00	-13.74	-3.39	0.00	-173.1	0.00	173.12	1,645.28	405.56	1,066.88	985.21	13.31	-1.48	0.184
96.93	-13.40	-3.35	0.00	-166.6	0.00	166.59	1,109.79	304.90	803.95	667.58	13.92	-1.51	0.262
100.00	-13.09	-3.31	0.00	-156.3	0.00	156.28	1,097.43	298.78	771.98	646.81	14.91	-1.57	0.254
105.00	-12.60	-3.25	0.00	-139.7	0.00	139.74	1,076.47	288.82	721.36	613.15	16.62	-1.69	0.240
110.00	-12.11	-3.18	0.00	-123.5	0.00	123.51	1,054.42	278.85	672.45	579.74	18.46	-1.81	0.225
115.00	-11.64	-3.12	0.00	-107.6	0.00	107.60	1,031.29	268.89	625.26	546.62	20.42	-1.93	0.208
120.00	-11.18	-3.05	0.00	-92.0	0.00	92.02	1,007.09	258.92	579.79	513.87	22.49	-2.04	0.190
125.00	-10.73	-2.98	0.00	-76.8	0.00	76.78	981.81	248.96	536.03	481.55	24.68	-2.14	0.171
130.00	-10.29	-2.90	0.00	-61.9	0.00	61.89	955.45	239.00	493.99	449.72	26.98	-2.24	0.149
135.00	-9.86	-2.85	0.00	-47.4	0.00	47.37	928.01	229.03	453.66	418.44	29.37	-2.32	0.124
136.00	-8.05	-2.18	0.00	-44.5	0.00	44.52	922.39	227.04	445.80	412.26	29.86	-2.34	0.117
140.00	-7.73	-2.14	0.00	-35.8	0.00	35.80	899.49	219.07	415.05	387.79	31.84	-2.4	0.101
140.02	-7.73	-2.12	0.00	-35.8	0.00	35.75	899.37	219.03	414.90	387.67	31.85	-2.4	0.101
143.22	-7.35	-2.07	0.00	-29.0	0.00	28.97	892.17	216.57	405.65	380.21	33.48	-2.44	0.085
145.00	-7.21	-2.05	0.00	-25.3	0.00	25.27	881.66	213.02	392.46	369.52	34.39	-2.46	0.077
146.00	-6.93	-1.70	0.00	-23.2	0.00	23.22	875.69	211.03	385.15	363.55	34.91	-2.47	0.072
147.00	-6.61	-1.60	0.00	-21.5	0.00	21.52	869.69	209.04	377.91	357.62	35.43	-2.49	0.068
150.00	-6.38	-1.53	0.00	-16.7	0.00	16.73	851.41	203.06	356.61	340.00	37	-2.51	0.057
155.00	-6.01	-1.47	0.00	-9.1	0.00	9.08	817.44	193.10	322.48	310.26	39.65	-2.55	0.037
157.00	-2.39	-0.67	0.00	-6.1	0.00	6.14	800.56	189.11	309.31	297.52	40.72	-2.55	0.024
158.56	-2.30	-0.65	0.00	-5.1	0.00	5.09	787.38	186.00	299.21	287.76	41.55	-2.56	0.021
158.56	-2.30	-0.65	0.00	-5.1	0.00	5.09	551.08	165.33	179.87	180.95	41.55	-2.56	0.032
160.00	-2.21	-0.61	0.00	-4.2	0.00	4.15	551.08	165.33	179.87	180.95	42.32	-2.56	0.027
165.00	-1.86	-0.55	0.00	-1.1	0.00	1.11	551.08	165.33	179.87	180.95	45.02	-2.58	0.010
167.00	-0.08	-0.01	0.00	-0.0	0.00	0.01	551.08	165.33	179.87	180.95	46.1	-2.58	0.000
168.56	0.00	0.00	0.00	0.0	0.00	0.00	551.08	165.33	179.87	180.95	46.94	-2.58	0.000

EQUIVALENT LATERAL FORCES METHOD ANALYSIS

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

Spectral Response Acceleration for Short Period (S_S):	0.187
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.054
Long-Period Transition Period (T_L – Seconds):	6
Importance Factor (I_e):	1.000
Site Coefficient F_a:	1.600
Site Coefficient F_v:	2.400
Response Modification Coefficient (R):	1.500
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.199
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.086
Seismic Response Coefficient (C_s):	0.030
Upper Limit C_S:	0.030
Lower Limit C_S:	0.030
Period based on Rayleigh Method (sec):	3.740
Redundancy Factor (p):	1.000
Seismic Force Distribution Exponent (k):	2.000
Total Unfactored Dead Load:	29.530 k
Seismic Base Shear (E):	0.890 k

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

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
46	167.78	77	2,179	0.007	6	96
45	166	138	3,814	0.012	10	172
44	162.5	346	9,136	0.028	25	429
43	159.2812	99	2,524	0.008	7	123
42	157.7812	87	2,177	0.007	6	108
41	156	145	3,539	0.011	10	180
40	152.5	370	8,611	0.026	23	459
39	148.5	227	5,001	0.015	14	281
38	146.5	76	1,639	0.005	4	95
37	145.5	77	1,625	0.005	4	95
36	144.1094	138	2,859	0.009	8	171
35	141.6197	384	7,704	0.024	21	476
34	140.0104	2	32	0.000	0	2
33	138	316	6,010	0.018	16	391
32	135.5	85	1,555	0.005	4	105
31	132.5	429	7,536	0.023	21	532
30	127.5	439	7,135	0.022	19	544
29	122.5	449	6,732	0.021	18	556
28	117.5	458	6,327	0.019	17	568
27	112.5	468	5,922	0.018	16	580
26	107.5	478	5,519	0.017	15	592
25	102.5	487	5,119	0.016	14	604
24	98.4635	304	2,950	0.009	8	377
23	95.9635	343	3,161	0.010	9	426
22	93.8229	424	3,731	0.012	10	526
21	91.3229	320	2,670	0.008	7	397
20	87.5	615	4,708	0.014	13	762
19	82.5	628	4,273	0.013	12	778
18	77.5	641	3,848	0.012	10	794
17	72.5	654	3,435	0.011	9	810
16	67.5	666	3,036	0.009	8	826
15	62.5	679	2,653	0.008	7	842
14	57.5	692	2,288	0.007	6	858
13	53.2292	498	1,411	0.004	4	618

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
12	50.7292	389	1,001	0.003	3	482
11	48.0586	1,048	2,421	0.007	7	1,299
10	45.5586	188	391	0.001	1	234
9	42.5	853	1,541	0.005	4	1,058
8	37.5	870	1,223	0.004	3	1,078
7	32.5	886	935	0.003	3	1,098
6	27.5	902	682	0.002	2	1,118
5	22.5	918	465	0.001	1	1,138
4	17.5	934	286	0.001	1	1,158
3	12.5	950	148	0.000	0	1,178
2	7.5	966	54	0.000	0	1,198
1	2.5	982	6	0.000	0	1,218
Kaelus DBCT108F1V92-1	167	42	1,163	0.004	3	52
Raycap DC6-48-60-18-8F ("Squid")	167	95	2,661	0.008	7	118
Ericsson Radio 8843 - B2 + B66A	167	216	6,016	0.018	16	267
Ericsson RRUS 4478 B14	167	180	5,012	0.015	14	223
Ericsson RRUS 4449 B5, B12	167	213	5,940	0.018	16	264
Generic Round Side Arm	167	562	15,688	0.048	43	697
CCI DMP65R-BU4D	167	204	5,681	0.017	15	253
CCI OPA65R-BU4DA-K	167	158	4,393	0.014	12	195
Commscope TD-850AB-L78-43	157	86	2,122	0.006	6	107
Samsung RF4440d-13A	157	422	10,397	0.032	28	523
Samsung RF4439d-25A	157	224	5,524	0.017	15	278
Raycap RVZDC-6627-PF-48	157	32	789	0.002	2	40
Commscope NNH4-45B-R6-V1	157	80	1,977	0.006	5	99
Commscope NNH4-65B-R6H4	157	167	4,107	0.013	11	207
Generic Round Platform with Handrails	157	2,500	61,622	0.189	168	3,100
Samsung MT6407-77A	147	245	5,290	0.016	14	304
Stand-Off	146	225	4,796	0.015	13	279
VZW Unused Reserve (5954.84 sqin)	146	0	0	0.000	0	0
Ericsson Radio 4449 B12,B71	136	222	4,106	0.013	11	275
Ericsson RRUS 11 B2	136	152	2,813	0.009	8	189
RFS APXV18-206516S-C-A20	136	56	1,038	0.003	3	70
Generic Flat T-Arm	136	938	17,340	0.053	47	1,162
RFS APXVAARR24_43-U-NA20	136	384	7,097	0.022	19	476
		29,527	325,583	1.000	886	36,610

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

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
46	167.78	77	2,179	0.007	6	67
45	166	138	3,814	0.012	10	119
44	162.5	346	9,136	0.028	25	298
43	159.2812	99	2,524	0.008	7	86
42	157.7812	87	2,177	0.007	6	75
41	156	145	3,539	0.011	10	125
40	152.5	370	8,611	0.026	23	318
39	148.5	227	5,001	0.015	14	195
38	146.5	76	1,639	0.005	4	66
37	145.5	77	1,625	0.005	4	66
36	144.1094	138	2,859	0.009	8	118
35	141.6197	384	7,704	0.024	21	330
34	140.0104	2	32	0.000	0	1
33	138	316	6,010	0.018	16	271
32	135.5	85	1,555	0.005	4	73
31	132.5	429	7,536	0.023	21	369
30	127.5	439	7,135	0.022	19	378
29	122.5	449	6,732	0.021	18	386
28	117.5	458	6,327	0.019	17	394
27	112.5	468	5,922	0.018	16	402
26	107.5	478	5,519	0.017	15	411
25	102.5	487	5,119	0.016	14	419

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
24	98.4635	304	2,950	0.009	8	262
23	95.9635	343	3,161	0.010	9	295
22	93.8229	424	3,731	0.012	10	365
21	91.3229	320	2,670	0.008	7	275
20	87.5	615	4,708	0.014	13	529
19	82.5	628	4,273	0.013	12	540
18	77.5	641	3,848	0.012	10	551
17	72.5	654	3,435	0.011	9	562
16	67.5	666	3,036	0.009	8	573
15	62.5	679	2,653	0.008	7	584
14	57.5	692	2,288	0.007	6	595
13	53.2292	498	1,411	0.004	4	428
12	50.7292	389	1,001	0.003	3	335
11	48.0586	1,048	2,421	0.007	7	901
10	45.5586	188	391	0.001	1	162
9	42.5	853	1,541	0.005	4	734
8	37.5	870	1,223	0.004	3	748
7	32.5	886	935	0.003	3	762
6	27.5	902	682	0.002	2	776
5	22.5	918	465	0.001	1	789
4	17.5	934	286	0.001	1	803
3	12.5	950	148	0.000	0	817
2	7.5	966	54	0.000	0	831
1	2.5	982	6	0.000	0	845
Kaelus DBCT108F1V92-1	167	42	1,163	0.004	3	36
Raycap DC6-48-60-18-8F ("Squid")	167	95	2,661	0.008	7	82
Ericsson Radio 8843 - B2 + B66A	167	216	6,016	0.018	16	186
Ericsson RRUS 4478 B14	167	180	5,012	0.015	14	155
Ericsson RRUS 4449 B5, B12	167	213	5,940	0.018	16	183
Generic Round Side Arm	167	562	15,688	0.048	43	484
CCI DMP65R-BU4D	167	204	5,681	0.017	15	175
CCI OPA65R-BU4DA-K	167	158	4,393	0.014	12	135
Commscope TD-850AB-L78-43	157	86	2,122	0.006	6	74
Samsung RF4440d-13A	157	422	10,397	0.032	28	363
Samsung RF4439d-25A	157	224	5,524	0.017	15	193
Raycap RVZDC-6627-PF-48	157	32	789	0.002	2	28
Commscope NNH4-45B-R6-V1	157	80	1,977	0.006	5	69
Commscope NNH4-65B-R6H4	157	167	4,107	0.013	11	143
Generic Round Platform with Handrails	157	2,500	61,622	0.189	168	2,150
Samsung MT6407-77A	147	245	5,290	0.016	14	211
Stand-Off	146	225	4,796	0.015	13	194
VZW Unused Reserve (5954.84 sqin)	146	0	0	0.000	0	0
Ericsson Radio 4449 B12,B71	136	222	4,106	0.013	11	191
Ericsson RRUS 11 B2	136	152	2,813	0.009	8	131
RFS APXV18-206516S-C-A20	136	56	1,038	0.003	3	48
Generic Flat T-Arm	136	938	17,340	0.053	47	806
RFS APXVAARR24_43-U-NA20	136	384	7,097	0.022	19	330
		29,527	325,583	1.000	886	25,396

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

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-35.39	-0.89	0.00	-134.77	0.00	134.77	3,012.45	812.68	3,427	2,897.19	0.00	0.00	0.06
5.00	-34.19	-0.90	0.00	-130.32	0.00	130.32	2,976.74	796.07	3,288	2,803.96	0.01	-0.01	0.06
10.00	-33.02	-0.91	0.00	-125.83	0.00	125.83	2,939.96	779.47	3,153	2,711.15	0.03	-0.03	0.06
15.00	-31.86	-0.91	0.00	-121.30	0.00	121.30	2,902.09	762.86	3,020	2,618.82	0.07	-0.05	0.06
20.00	-30.72	-0.92	0.00	-116.73	0.00	116.73	2,863.14	746.25	2,890	2,527.03	0.13	-0.06	0.06
25.00	-29.60	-0.93	0.00	-112.14	0.00	112.14	2,823.12	729.65	2,762	2,435.86	0.20	-0.08	0.06
30.00	-28.50	-0.93	0.00	-107.51	0.00	107.51	2,782.02	713.04	2,638	2,345.36	0.29	-0.10	0.06
35.00	-27.42	-0.93	0.00	-102.86	0.00	102.86	2,739.84	696.44	2,517	2,255.60	0.40	-0.11	0.06
40.00	-26.37	-0.93	0.00	-98.20	0.00	98.20	2,696.58	679.83	2,398	2,166.65	0.53	-0.13	0.06
45.00	-26.13	-0.94	0.00	-93.53	0.00	93.53	2,652.25	663.22	2,282	2,078.56	0.67	-0.15	0.06

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
46.12	-24.83	-0.93	0.00	-92.48	0.00	92.48	2,642.20	659.51	2,257	2,059.00	0.71	-0.15	0.05
50.00	-24.35	-0.93	0.00	-88.86	0.00	88.86	2,606.83	646.62	2,170	1,991.40	0.84	-0.17	0.05
51.46	-23.73	-0.93	0.00	-87.50	0.00	87.50	1,930.38	521.25	1,762	1,488.49	0.89	-0.17	0.07
55.00	-22.87	-0.93	0.00	-84.20	0.00	84.20	1,910.24	511.84	1,699	1,446.19	1.03	-0.19	0.07
60.00	-22.03	-0.93	0.00	-79.56	0.00	79.56	1,880.90	498.56	1,612	1,386.77	1.23	-0.21	0.07
65.00	-21.20	-0.93	0.00	-74.91	0.00	74.91	1,850.47	485.27	1,527	1,327.73	1.47	-0.23	0.07
70.00	-20.39	-0.92	0.00	-70.29	0.00	70.29	1,818.97	471.99	1,445	1,269.14	1.72	-0.26	0.07
75.00	-19.60	-0.92	0.00	-65.68	0.00	65.68	1,786.38	458.70	1,365	1,211.07	2.01	-0.28	0.07
80.00	-18.82	-0.91	0.00	-61.10	0.00	61.10	1,752.72	445.42	1,287	1,153.57	2.32	-0.31	0.06
85.00	-18.06	-0.90	0.00	-56.55	0.00	56.55	1,717.99	432.13	1,211	1,096.73	2.66	-0.33	0.06
90.00	-17.66	-0.90	0.00	-52.06	0.00	52.06	1,682.17	418.85	1,138	1,040.58	3.02	-0.36	0.06
92.65	-17.14	-0.89	0.00	-49.69	0.00	49.69	1,662.78	411.82	1,100	1,011.18	3.22	-0.37	0.06
95.00	-16.71	-0.88	0.00	-47.60	0.00	47.60	1,645.28	405.56	1,067	985.21	3.41	-0.39	0.06
96.93	-16.33	-0.87	0.00	-45.91	0.00	45.91	1,109.79	304.90	804	667.58	3.57	-0.40	0.08
100.00	-15.73	-0.86	0.00	-43.23	0.00	43.23	1,097.43	298.78	772	646.81	3.83	-0.41	0.08
105.00	-15.14	-0.85	0.00	-38.92	0.00	38.92	1,076.47	288.82	721	613.15	4.28	-0.45	0.08
110.00	-14.55	-0.84	0.00	-34.68	0.00	34.68	1,054.42	278.85	672	579.74	4.76	-0.48	0.07
115.00	-13.99	-0.82	0.00	-30.49	0.00	30.49	1,031.29	268.89	625	546.62	5.28	-0.51	0.07
120.00	-13.43	-0.81	0.00	-26.37	0.00	26.37	1,007.09	258.92	580	513.87	5.84	-0.54	0.07
125.00	-12.89	-0.79	0.00	-22.34	0.00	22.34	981.81	248.96	536	481.55	6.42	-0.57	0.06
130.00	-12.35	-0.77	0.00	-18.40	0.00	18.40	955.45	239.00	494	449.72	7.04	-0.60	0.05
135.00	-12.25	-0.77	0.00	-14.55	0.00	14.55	928.01	229.03	454	418.44	7.68	-0.63	0.05
136.00	-9.69	-0.64	0.00	-13.79	0.00	13.79	922.39	227.04	446	412.26	7.81	-0.63	0.04
140.00	-9.68	-0.64	0.00	-11.24	0.00	11.24	899.49	219.07	415	387.79	8.35	-0.65	0.04
140.02	-9.21	-0.61	0.00	-11.23	0.00	11.23	899.37	219.03	415	387.67	8.36	-0.65	0.04
143.22	-9.04	-0.60	0.00	-9.27	0.00	9.27	892.17	216.57	406	380.21	8.80	-0.66	0.04
145.00	-8.94	-0.60	0.00	-8.20	0.00	8.20	881.66	213.02	392	369.52	9.05	-0.67	0.03
146.00	-8.57	-0.58	0.00	-7.60	0.00	7.60	875.69	211.03	385	363.55	9.19	-0.68	0.03
147.00	-7.98	-0.54	0.00	-7.02	0.00	7.02	869.69	209.04	378	357.62	9.33	-0.68	0.03
150.00	-7.53	-0.52	0.00	-5.39	0.00	5.39	851.41	203.06	357	340.00	9.76	-0.69	0.03
155.00	-7.35	-0.51	0.00	-2.80	0.00	2.80	817.44	193.10	322	310.26	10.49	-0.70	0.02
157.00	-2.89	-0.21	0.00	-1.79	0.00	1.79	800.56	189.11	309	297.52	10.78	-0.70	0.01
158.56	-2.76	-0.20	0.00	-1.47	0.00	1.47	787.38	186.00	299	287.76	11.01	-0.70	0.01
158.56	-2.76	-0.20	0.00	-1.47	0.00	1.47	551.08	165.33	180	180.95	11.01	-0.70	0.01
160.00	-2.34	-0.17	0.00	-1.18	0.00	1.18	551.08	165.33	180	180.95	11.22	-0.70	0.01
165.00	-2.16	-0.16	0.00	-0.32	0.00	0.32	551.08	165.33	180	180.95	11.96	-0.71	0.01
167.00	0.00	0.00	0.00	0.00	0.00	0.00	551.08	165.33	180	180.95	12.26	-0.71	0.00
168.56	0.00	0.00	0.00	0.00	0.00	0.00	551.08	165.33	180	180.95	12.49	-0.71	0.00

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

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-24.55	-0.89	0.00	-130.13	0.00	130.13	3,012.45	812.68	3,427	2,897.19	0.00	0.00	0.05
5.00	-23.72	-0.89	0.00	-125.69	0.00	125.69	2,976.74	796.07	3,288	2,803.96	0.01	-0.01	0.05
10.00	-22.90	-0.90	0.00	-121.22	0.00	121.22	2,939.96	779.47	3,153	2,711.15	0.03	-0.03	0.05
15.00	-22.10	-0.90	0.00	-116.73	0.00	116.73	2,902.09	762.86	3,020	2,618.82	0.07	-0.04	0.05
20.00	-21.31	-0.91	0.00	-112.21	0.00	112.21	2,863.14	746.25	2,890	2,527.03	0.12	-0.06	0.05
25.00	-20.53	-0.91	0.00	-107.67	0.00	107.67	2,823.12	729.65	2,762	2,435.86	0.19	-0.08	0.05
30.00	-19.77	-0.91	0.00	-103.12	0.00	103.12	2,782.02	713.04	2,638	2,345.36	0.28	-0.09	0.05
35.00	-19.02	-0.91	0.00	-98.55	0.00	98.55	2,739.84	696.44	2,517	2,255.60	0.39	-0.11	0.05
40.00	-18.29	-0.91	0.00	-93.99	0.00	93.99	2,696.58	679.83	2,398	2,166.65	0.51	-0.13	0.05
45.00	-18.13	-0.92	0.00	-89.42	0.00	89.42	2,652.25	663.22	2,282	2,078.56	0.65	-0.14	0.05
46.12	-17.23	-0.91	0.00	-88.40	0.00	88.40	2,642.20	659.51	2,257	2,059.00	0.68	-0.15	0.05
50.00	-16.89	-0.91	0.00	-84.87	0.00	84.87	2,606.83	646.62	2,170	1,991.40	0.81	-0.16	0.05
51.46	-16.46	-0.91	0.00	-83.54	0.00	83.54	1,930.38	521.25	1,762	1,488.49	0.86	-0.17	0.07
55.00	-15.87	-0.90	0.00	-80.33	0.00	80.33	1,910.24	511.84	1,699	1,446.19	0.99	-0.18	0.06
60.00	-15.28	-0.90	0.00	-75.82	0.00	75.82	1,880.90	498.56	1,612	1,386.77	1.19	-0.20	0.06
65.00	-14.71	-0.90	0.00	-71.32	0.00	71.32	1,850.47	485.27	1,527	1,327.73	1.41	-0.22	0.06
70.00	-14.15	-0.89	0.00	-66.84	0.00	66.84	1,818.97	471.99	1,445	1,269.14	1.66	-0.25	0.06
75.00	-13.59	-0.88	0.00	-62.40	0.00	62.40	1,786.38	458.70	1,365	1,211.07	1.93	-0.27	0.06
80.00	-13.05	-0.87	0.00	-57.99	0.00	57.99	1,752.72	445.42	1,287	1,153.57	2.22	-0.30	0.06
85.00	-12.53	-0.86	0.00	-53.62	0.00	53.62	1,717.99	432.13	1,211	1,096.73	2.55	-0.32	0.06
90.00	-12.25	-0.86	0.00	-49.30	0.00	49.30	1,682.17	418.85	1,138	1,040.58	2.89	-0.34	0.06
92.65	-11.89	-0.85	0.00	-47.03	0.00	47.03	1,662.78	411.82	1,100	1,011.18	3.09	-0.36	0.05
95.00	-11.59	-0.84	0.00	-45.04	0.00	45.04	1,645.28	405.56	1,067	985.21	3.27	-0.37	0.05
96.93	-11.33	-0.83	0.00	-43.42	0.00	43.42	1,109.79	304.90	804	667.58	3.42	-0.38	0.08

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
100.00	-10.91	-0.82	0.00	-40.86	0.00	40.86	1,097.43	298.78	772	646.81	3.67	-0.39	0.07
105.00	-10.50	-0.81	0.00	-36.75	0.00	36.75	1,076.47	288.82	721	613.15	4.10	-0.43	0.07
110.00	-10.10	-0.79	0.00	-32.71	0.00	32.71	1,054.42	278.85	672	579.74	4.56	-0.46	0.07
115.00	-9.70	-0.78	0.00	-28.74	0.00	28.74	1,031.29	268.89	625	546.62	5.05	-0.49	0.06
120.00	-9.31	-0.76	0.00	-24.84	0.00	24.84	1,007.09	258.92	580	513.87	5.58	-0.52	0.06
125.00	-8.94	-0.74	0.00	-21.03	0.00	21.03	981.81	248.96	536	481.55	6.14	-0.55	0.05
130.00	-8.57	-0.72	0.00	-17.31	0.00	17.31	955.45	239.00	494	449.72	6.72	-0.57	0.05
135.00	-8.49	-0.72	0.00	-13.69	0.00	13.69	928.01	229.03	454	418.44	7.33	-0.60	0.04
136.00	-6.72	-0.60	0.00	-12.97	0.00	12.97	922.39	227.04	446	412.26	7.46	-0.60	0.04
140.00	-6.72	-0.60	0.00	-10.58	0.00	10.58	899.49	219.07	415	387.79	7.97	-0.62	0.04
140.02	-6.39	-0.58	0.00	-10.56	0.00	10.56	899.37	219.03	415	387.67	7.97	-0.62	0.03
143.22	-6.27	-0.57	0.00	-8.72	0.00	8.72	892.17	216.57	406	380.21	8.39	-0.63	0.03
145.00	-6.20	-0.56	0.00	-7.71	0.00	7.71	881.66	213.02	392	369.52	8.63	-0.64	0.03
146.00	-5.94	-0.54	0.00	-7.15	0.00	7.15	875.69	211.03	385	363.55	8.76	-0.64	0.03
147.00	-5.54	-0.51	0.00	-6.60	0.00	6.60	869.69	209.04	378	357.62	8.90	-0.64	0.03
150.00	-5.22	-0.49	0.00	-5.07	0.00	5.07	851.41	203.06	357	340.00	9.31	-0.65	0.02
155.00	-5.09	-0.47	0.00	-2.64	0.00	2.64	817.44	193.10	322	310.26	10.00	-0.66	0.02
157.00	-2.00	-0.20	0.00	-1.69	0.00	1.69	800.56	189.11	309	297.52	10.27	-0.67	0.01
158.56	-1.92	-0.19	0.00	-1.38	0.00	1.38	787.38	186.00	299	287.76	10.49	-0.67	0.01
158.56	-1.92	-0.19	0.00	-1.38	0.00	1.38	551.08	165.33	180	180.95	10.49	-0.67	0.01
160.00	-1.62	-0.16	0.00	-1.11	0.00	1.11	551.08	165.33	180	180.95	10.69	-0.67	0.01
165.00	-1.50	-0.15	0.00	-0.30	0.00	0.30	551.08	165.33	180	180.95	11.39	-0.67	0.00
167.00	0.00	0.00	0.00	0.00	0.00	0.00	551.08	165.33	180	180.95	11.68	-0.67	0.00
168.56	0.00	0.00	0.00	0.00	0.00	0.00	551.08	165.33	180	180.95	11.90	-0.67	0.00

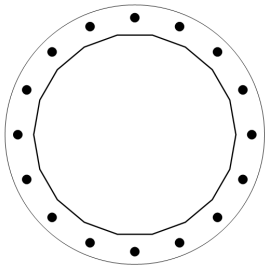
ANALYSIS SUMMARY

	Reactions						Max Usage	
Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.0W Normal	17.26	0.00	35.40	0.00	0.00	2139.98	96.93	0.99
0.9D + 1.0W Normal	17.24	0.00	26.54	0.00	0.00	2083.46	96.93	0.94
1.2D + 1.0Di + 1.0Wi Normal	3.16	0.00	47.83	0.00	0.00	389.67	96.93	0.2
1.2D + 1.0Ev + 1.0Eh Normal	0.94	0.00	35.39	0.00	0.00	134.77	96.93	0.08
0.9D - 1.0Ev + 1.0Eh Normal	0.92	0.00	24.55	0.00	0.00	130.13	96.93	0.08
1.0D + 1.0W Service Normal	4.51	0.00	29.52	0.00	0.00	553.18	96.93	0.26

BASE PLATE ANALYSIS @ 0 FT

PLATE PARAMETERS (ID# 14026)

Diameter:	61	in
Shape:	Round	
Thickness:	2.5	in
Grade:	A572-50	
Yield Strength:	50	ksi
Tensile Strength:	65	ksi
Rod Detail Type:	d	
Clear Distance	5.125	in
Base Weld Size:	0.125	in
Orientation Offset:	-	°
Analysis Type:	Plastic	
Neutral Axis:	90	°



ANCHOR ROD PARAMETERS

Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	Fy (ksi)	Fu (ksi)	Spacing (in)	Offset (°)
Original [ID# 14327]	Radial	16	2.25	55	A615-75	75	100	-	-

ANCHOR ROD GEOMETRY AND APPLIED LOADS --- ORIGINAL (16) 2.25"ø [ID 14327]

GEOMETRY AND APPLIED LOADS (UNFACTORED)

Position	Radians	X (in)	Y (in)	Moment Arm (in)	Inertia (in^4)	Axial Load (k)	Shear Load (k)
1	0.393	25.41	10.52	-24.194	1901.888	-93.10	0.66
2	0.785	19.44	19.44	-18.517	1114.448	-93.10	1.21
3	1.178	10.52	25.41	-10.022	327.008	-93.10	1.59
4	1.571	0.00	27.50	0.000	0.839	101.95	1.72
5	1.963	-10.52	25.41	10.022	327.008	101.95	1.59
6	2.356	-19.44	19.44	18.517	1114.448	101.95	1.21
7	2.749	-25.41	10.52	24.194	1901.888	101.95	0.66
8	3.142	-27.50	0.00	26.188	2228.057	101.95	0.00
9	3.534	-25.41	-10.52	24.194	1901.888	101.95	0.66
10	3.927	-19.44	-19.44	18.517	1114.448	101.95	1.21
11	4.320	-10.52	-25.41	10.022	327.008	101.95	1.59
12	4.712	0.00	-27.50	0.000	0.839	101.95	1.72
13	5.105	10.52	-25.41	-10.022	327.008	-93.10	1.59
14	5.498	19.44	-19.44	-18.517	1114.448	-93.10	1.21
15	5.890	25.41	-10.52	-24.194	1901.888	-93.10	0.66
16	6.283	27.50	0.00	-26.188	2228.057	-93.10	0.00

REACTION DISTRIBUTION

Component	ID	Moment Mu (k-ft)	Axial Load Pu (k)	Shear Vu (k)	Moment Factor
Pole	47"ø x 0.3125" (18 Sides)	2140.0	35.40	17.26	1.000
Bolt Group	Original (16) 2.25"ø	2140.0	-	17.26	1.000
	TOTALS	**2139.98**	**35.4**	**17.26**	

COMPONENT PROPERTIES

Component	ID	Gross Area (in^2)	Net Area (in^2)	Individual Inertia (in^4)	Moment of Inertia (in^4)	Threads/in
Pole	47"ø x 0.3125" (18 Sides)	45.6030	-	-	12426.72	-
Bolt Group	Original (16) 2.25"ø	3.9761	3.2477	0.8393	17831.17	4.5

EXTERNAL BASE PLATE BEND LINE ANALYSIS @ 0 FT

POLE PROPERTIES

Flat-to-Flat Diameter:	47.12	in
Point-to-Point Diameter:	47.85	in
Flat Width:	8.309	in
Flat Radians:	0.349	rad

PLATE PROPERTIES

Neutral Axis:	90	°
Bend Line Lower Limit:	2.528	rad
Bend Line Upper Limit:	3.755	rad

Bend Line	Chord Length (in)	Additional Length (in)	Section Modulus (in^3)	Applied Moment Mu (k-in)	Moment Capacity ϕMn (k-in)	Ratio
Flat	34.476	0.00	53.869	473.1	2424.1	0.195
Corner	33.460	0.00	52.281	343.9	2352.7	0.146
Circumferential	45.317	0.00	70.809	803.8	3186.4	0.252

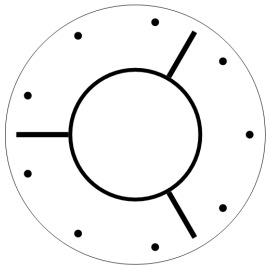
PLASTIC ANCHOR ROD ANALYSIS

Class	Group Quantity	Rod Diameter (in)	Applied Axial Load Pu (k)	Applied Shear Load Vu (k)	Compressive Capacity ϕPn (k)	Ratio
Original	16	2.25	102.1	1.7	243.6	0.419

UPPER FLANGE PLATE ANALYSIS @ 158.5625 FT

PLATE PARAMETERS (ID# 14027)

Diameter:	25	in
Shape:	Round	
Thickness:	1.5	in
Grade:	A36	
Yield Strength:	36	ksi
Tensile Strength:	58	ksi
Pole Weld Size:	0.125	in
Orientation Offset:	-	°
Analysis Type:	Plastic	
Neutral Axis:	40	°

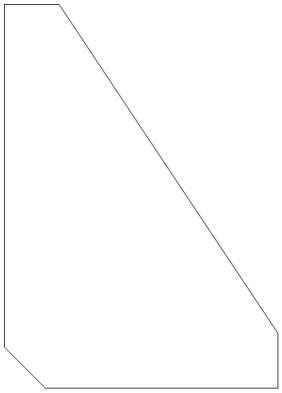


FLANGE BOLT PARAMETERS

Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	Fy (ksi)	Fu (ksi)	Spacing (in)	Offset (°)
Original [ID# 14328]	Radial	9	0.75	22	A325	92	120	-	-

STIFFENER PARAMETERS

Arrangement:	Radial	
Quantity:	3	
Height:	7	in
Width:	5	in
Thickness:	0.625	in
Notch:	0.75	in
Grade:	A36	
Yield Strength:	36	ksi
Tensile Strength:	58	ksi
Horizontal Weld Type:	Fillet	
Horizontal Weld Fillet Size:	0.125	in
Vertical Weld Fillet Size:	0.125	in
Weld Strength:	70	ksi
Orientation Offset:	-	°



FLANGE BOLT GEOMETRY AND APPLIED LOADS --- ORIGINAL (9) 0.75"ø [ID 14328]

GEOMETRY AND APPLIED LOADS (UNFACTORED)

Position	Radians	X (in)	Y (in)	Moment Arm (in)	Inertia (in^4)	Axial Load (k)	Shear Load (k)
1	0.698	8.43	7.07	0.000	0.009	4.48	0.44
2	1.396	1.91	10.83	6.769	15.335	4.48	0.34
3	2.094	-5.50	9.53	10.371	35.984	4.48	0.08
4	2.793	-10.34	3.76	9.120	27.829	4.48	0.22
5	3.491	-10.34	-3.76	3.602	4.348	4.48	0.41
6	4.189	-5.50	-9.53	-3.602	4.348	-3.42	0.41
7	4.887	1.91	-10.83	-9.120	27.829	-3.42	0.22
8	5.585	8.43	-7.07	-10.371	35.984	-3.42	0.08
9	6.283	11.00	0.00	-6.769	15.335	-3.42	0.34

STIFFENER GEOMETRY AND APPLIED LOADS

GEOMETRY AND APPLIED LOADS (UNFACTORED)

Position	Radians	Moment Arm (in)	Inertia (in^4)	Axial Load (k)	Shear Load (k)
1	1.047	3.035	27.788	3.40	0.61
2	3.142	5.705	81.663	6.04	0.50
3	5.236	-8.740	182.916	-8.21	0.11

REACTION DISTRIBUTION

Component	ID	Moment Mu (k-ft)	Axial Load Pu (k)	Shear Vu (k)	Moment Factor
Pole	12.75"ø x 0.375" (Round)	19.7	2.40	2.50	1.000
Bolt Group	Original (9) 0.75"ø	19.7	-	2.50	1.000
Stiffeners	(3) 7"H x 5"W x 0.625"T	10.0	-	1.28	0.511
	TOTALS	**19.67**	**2.4**	**2.5**	

COMPONENT PROPERTIES

Component	ID	Gross Area (in^2)	Net Area (in^2)	Individual Inertia (in^4)	Moment of Inertia (in^4)	Threads/in
Pole	12.75"ø x 0.375" (Round)	14.5788	-	-	279.77	-
Bolt Group	Original (9) 0.75"ø	0.4418	0.3345	0.0089	167.00	10.0
Stiffeners	(3) 7"H x 5"W x 0.625"T	2.6563	2.3906	26.0417	292.37	-

EXTERNAL UPPER FLANGE PLATE BEND LINE ANALYSIS @ 158.5625 FT

POLE PROPERTIES

Flat-to-Flat Diameter:	12.88	in
Point-to-Point Diameter:	12.88	in
Flat Width:	0.112	in
Flat Radians:	0.017	rad

PLATE PROPERTIES

Neutral Axis:	40	°
Bend Line Lower Limit:	1.585	rad
Bend Line Upper Limit:	2.604	rad

Bend Line	Chord Length (in)	Additional Length (in)	Section Modulus (in^3)	Applied Moment Mu (k-in)	Moment Capacity ϕMn (k-in)	Ratio
Flat	19.314	0.00	10.864	33.8	352.0	0.096
Corner	19.314	0.00	10.864	33.8	352.0	0.096
Circumferential	21.355	0.00	12.012	54.1	389.2	0.139

PLASTIC FLANGE BOLT ANALYSIS

Class	Group Quantity	Bolt Diameter (in)	Applied Axial Load Pu (k)	Applied Shear Load Vu (k)	Compressive Capacity ϕPn (k)	Ratio
Original	9	0.75	4.5	0.4	30.1	0.149

UPPER FLANGE PLATE STIFFENER ANALYSIS

Quantity:	3	
Height:	7	in
Width:	5	in
Effective Width:	5.000	in
Thickness:	0.625	in
Notch:	0.75	in
Grade:	A36	
Yield Strength:	36	ksi
Tensile Strength:	58	ksi
Horizontal Weld Type:	Fillet	
Horizontal Weld Fillet Size:	0.125	in
Horizontal Weld Bevel Size:		in
Vertical Weld Fillet Size:	0.125	in
Weld Strength:	70	ksi
Electrode Coefficient:	1.000	

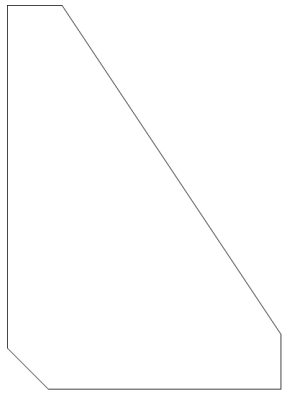


PLATE COMPRESSION

Radius of Gyration:	0.180	in^3
kl/r:	23.28	
4.71 √(E/Fy):	133.68	
Buckling Stress, Fe:	528.18	ksi
Crit. Buckling Stress, Fcr:	463.21	ksi
Applied Compression, Pu:	6.04	k
Compressive Capacity, ϕPn:	1107.36	k
Pu/ϕPn:	**0.003**	

PLATE TENSION

Gross Cross Section:	2.6563	in^2
Net Cross Section:	2.3906	in^2
Applied Tension, Tu:	8.21	k
Tensile Capacity, ϕTn:	86.06	k
Tu/ϕTn:	**0.048**	

VERTICAL WELD TO POLE

Vertical Eccentricity Ratio, $a=e_x/l$:	0.238	
Spacing Ratio, k:	0.089	
Weld Coefficient, C:	3.510	
Applied Compression, Pu:	6.04	k
Compressive Capacity, ϕPn:	36.86	k
Horizontal Eccentricity Ratio, $a=e_x/l$:	0.333	
Weld Coefficient, C:	2.940	
Applied Shear, Vu	0.11	k
Shear Capacity, ϕVn:	30.87	k
Pu/ϕPn + Vu/ϕVn:	**0.167**	

HORIZONTAL WELD TO PLATE

Horizontal Eccentricity Ratio, $a=e_x/l$:	0.167	
Spacing Ratio, k:	0.125	
Weld Coefficient, C:	3.940	
Effective Fillet Size:	0.125	in
Applied Compression, Pu:	6.04	k
Compressive Capacity, ϕPn:	29.55	k
Vertical Eccentricity Ratio, $a=e_x/l$:	0.233	
Weld Coefficient, C:	3.510	
Applied Shear, Vu	0.11	k
Shear Capacity, ϕVn:	26.33	k
Pu/ϕPn + Vu/ϕVn:	**0.209**	

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

Replacement Antenna Mount Analysis Report and PMI Requirements

Mount Analysis

SMART Tool Project #: 10050465
Maser Consulting Connecticut Project #: 21777479A

October 21, 2021

Site Information	*Site ID:*	*467858-VZW / WASHINGTON NORTH CT*
	Site Name:	*WASHINGTON NORTH CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*16 Mountain Rd.* *New Preston Marble Dale, Connecticut 06777* *Litchfield County*
	Latitude:	*41.669147°*
	Longitude:	*-73.365281°*
Structure Information	*Tower Type:*	*Monopole*
	Mount Type:	*12.50-Ft Platform*

FUZE ID # 16272058

Analysis Results

Platform: **31.6% Pass**

******Contractor PMI Requirements*:**
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
Contractor - Please Review Specific Site PMI Requirements Upon Award
Requirements may also be Noted on A & E drawings
For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Jared Adkins

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	*Verizon RFDS Site ID: 325060, dated October 13, 2021*
Mount Mapping Report	*Hudson Design Group, LLC, Site ID: 467858, dated July 20, 2021*
Manufacturer Design Drawings	*Site Pro 1, Part #: RMQP-496-HK*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	114 mph
	Ice Wind Speed (3-sec. Gust):	40 mph
	Design Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	C
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.975
Seismic Parameters:	S_S:	0.187 g
	S_1:	0.054 g
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, Lv:	250 lbs.
	Maintenance Live Load, Lm:	500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
157.00	157.00	1	Commscope	NNH4-45B-R6-V1	Added
		2	Commscope	NNH4-65B-R6H4	
		3	JMA Wireless	MX08FIT265-01	
		6	Commscope	CBC61923T-DS-43	
		1	Raycap	DB-B1-6C-12AB-0Z	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4440d-13A	
		3	Samsung	RT-8808-77A	

Any proposed antennas not currently installed should be mounted such that the centerline of the antennas does not exceed 6 inches vertically from the center of the antenna mount.

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

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

Standard Conditions:

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

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

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

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

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

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

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontal	*9.6 %*	*Pass*
Standoff Horizontal	*10.7 %*	*Pass*
Platform Crossmember	*8.4 %*	*Pass*
Mount Pipe	*31.6 %*	*Pass*
Corner Plate	*15.6 %*	*Pass*
Grating Support	*13.3 %*	*Pass*
Cross Arm Plate	*20.8 %*	*Pass*
Kicker	*6.3 %*	*Pass*
Support Rail	*8.9 %*	*Pass*
Support Rail Angle	*11.9 %*	*Pass*
Tower Connection	*10.9 %*	*Pass*

Structure Rating – *(Controlling Utilization of all Components)*	**31.6%**

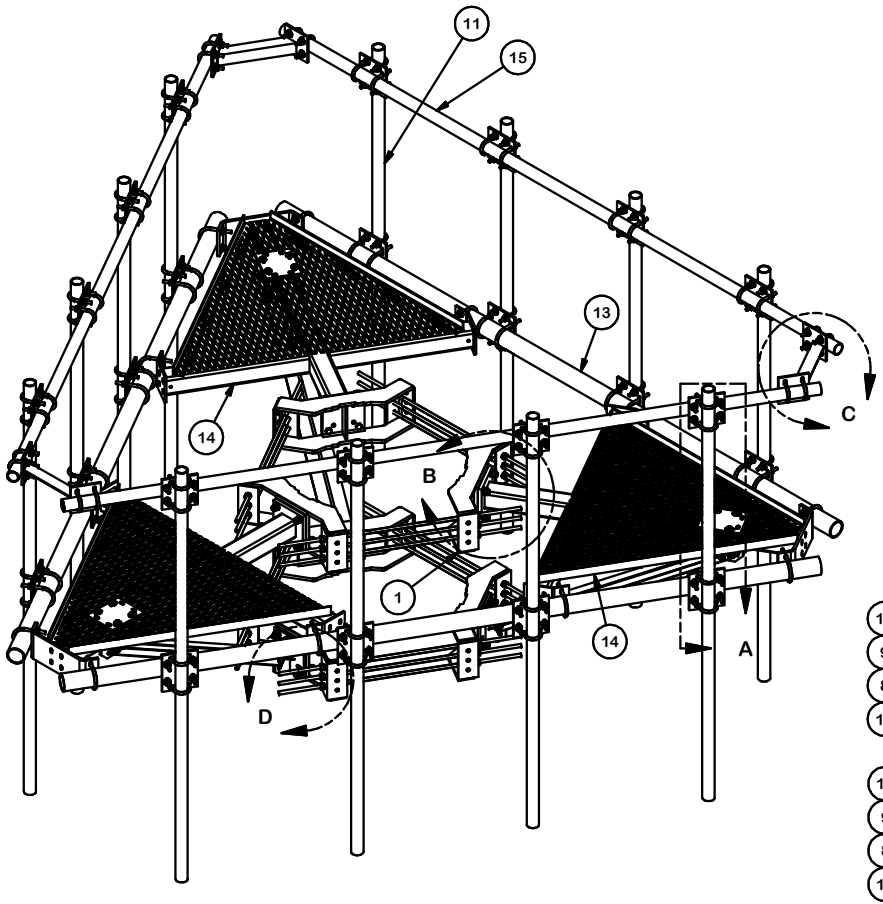
Recommendation:

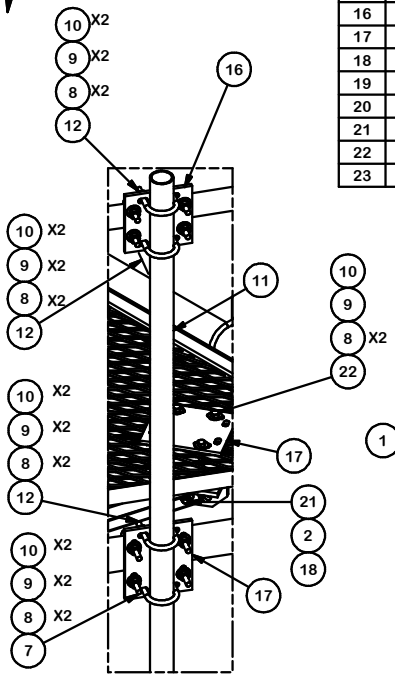
The proposed antenna mount is **SUFFICIENT** for the final loading configuration and does not require modifications.

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

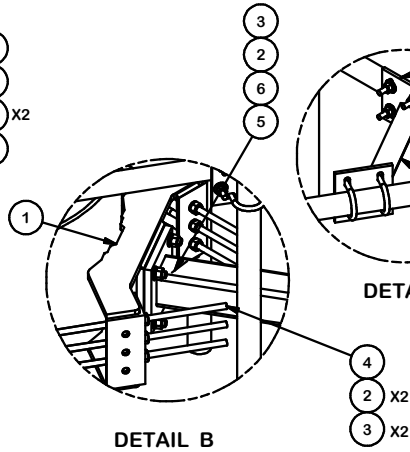
Attachments:

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

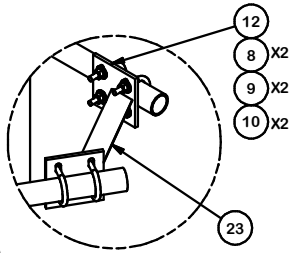




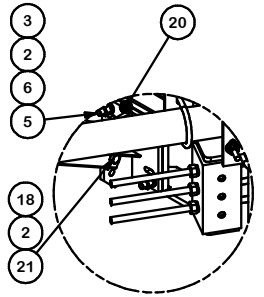
DETAIL A



DETAIL B



DETAIL C



DETAIL D

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	6	X-LWRM	RING MOUNT WELDMENT		68.81	412.85
2	66	G58LW	5/8" HDG LOCKWASHER		0.03	1.72
3	60	A58NUT	5/8" HDG A325 HEX NUT		0.13	7.79
4	18	G58R-24	5/8" x 24" THREADED ROD (HDG.)		2.09	37.63
4	18	G58R-48	5/8" x 48" THREADED ROD (HDG.)		4.18	75.27
5	24	A58234	5/8" x 2-3/4" HDG A325 HEX BOLT	2 3/4 in	0.36	8.54
6	24	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.82
7	36	X-UB1306	1/2" X 3-5/8" X 6" X 3" U-BOLT (HDG.)		0.83	29.82
8	264	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	9.00
9	252	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	3.50
10	252	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	18.05
11	12	P296	2-3/8" X 96" SCH. 40 GALVANIZED PIPE	96 in	30.76	369.08
12	84	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.63	52.51
13	3	P3150	3-1/2" X 150" (3" SCH 40) GALVANIZED PIPE	150 in	94.80	284.40
14	3	X-SV196	LOW PROFILE PLATFORM CORNER		212.10	636.31
15	3	P2150	2-3/8" O.D. X 150" SCH 40 GALVANIZED PIPE	150 in	45.77	137.31
16	12	SCX2	CROSSOVER PLATE	7 in	4.80	57.56
17	15	SCX4	CROSSOVER PLATE	8 1/2 in	6.02	90.32
18	6	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	0.78
19	6	X-253993	PLATFORM REINFORCEMENT KIT ANGLE	52 25/32 in	14.33	85.99
20	6	X-TBW	T-BRACKET WELDMENT		13.60	81.60
21	6	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	1.62
22	12	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	5 1/2 in	0.41	4.91
23	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
					TOTAL WT. #	2445.81

TOLERANCE NOTES

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")*

REVISION HISTORY				
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
B	RELOCATED MOUNT PIPE POSITIONS	4488	JET	5/23/2021
A	CHANGED X-253992 TO X-TBW	4488	CEK	9/20/2018

DESCRIPTION
12' 6" LOW PROFILE PLATFORM
WITH TWELVE 2-3/8" ANTENNA MOUNTING
PIPES, AND SUPPORT RAIL

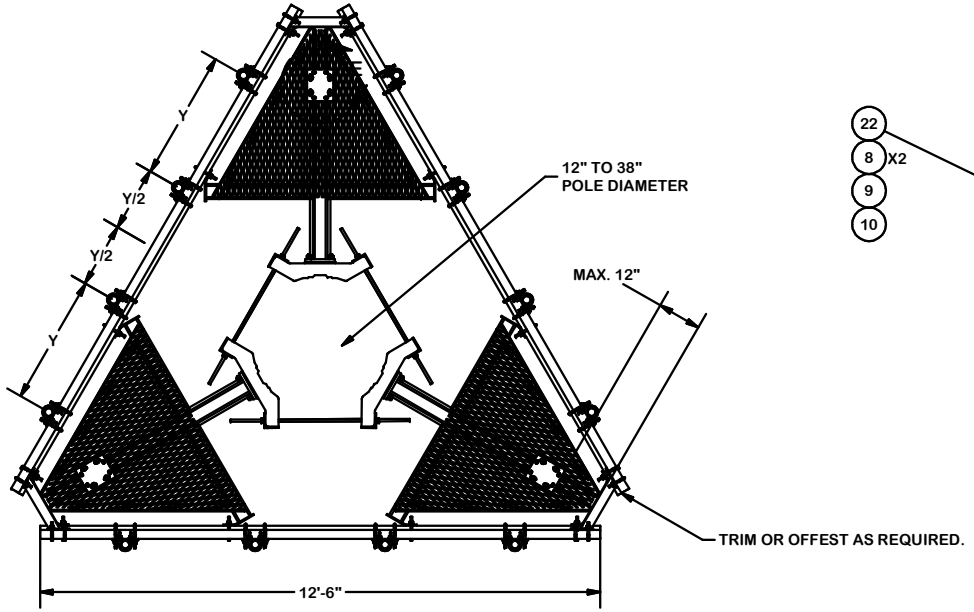
SITE PRO 1 — A valmont COMPANY

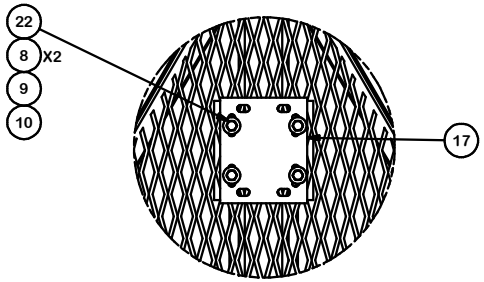
Engineering Support Team: 1-888-753-7446

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

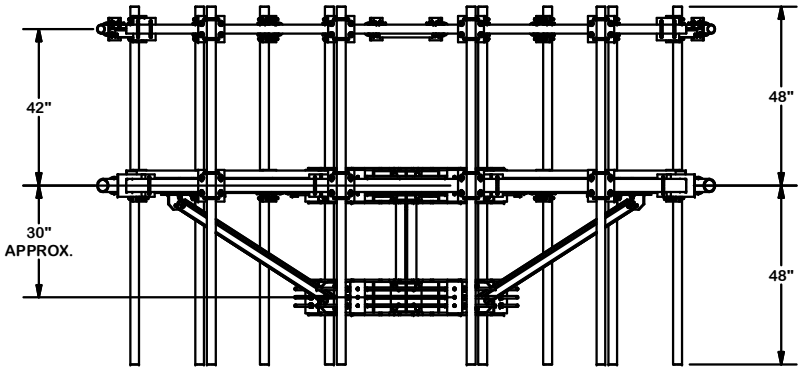
CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
4488	CEK 7/14/2014		RMQP-496-HK

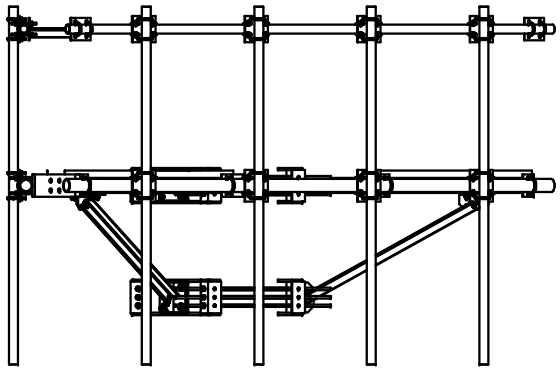
CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	02	CUSTOMER	BMC 7/14/2014	RMQP-496-HK





DETAIL E





TOLERANCE NOTES

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")*

DESCRIPTION
12' 6" LOW PROFILE PLATFORM
WITH TWELVE 2-3/8" ANTENNA MOUNTING
PIPES, AND SUPPORT RAIL

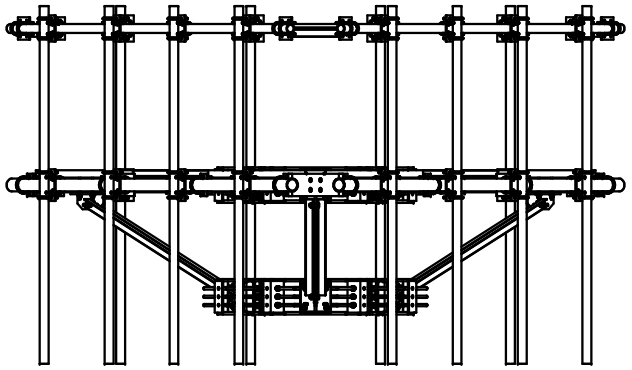
SITE PRO 1
A valmont COMPANY
Engineering Support Team: 1-888-753-7446
Locations: New York, NY; Atlanta, GA; Los Angeles, CA; Plymouth, IN; Salem, OR; Dallas, TX

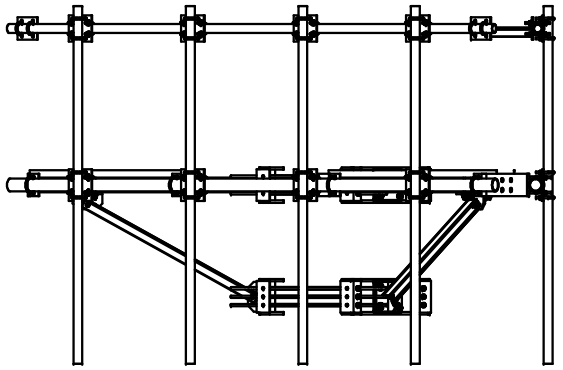
CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
4488	CEK 7/14/2014		RMQP-496-HK

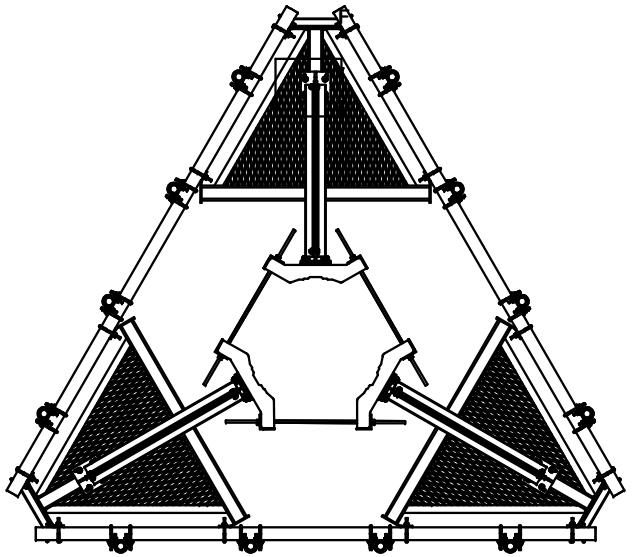
CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	02	CUSTOMER	BMC 7/14/2014	RMQP-496-HK

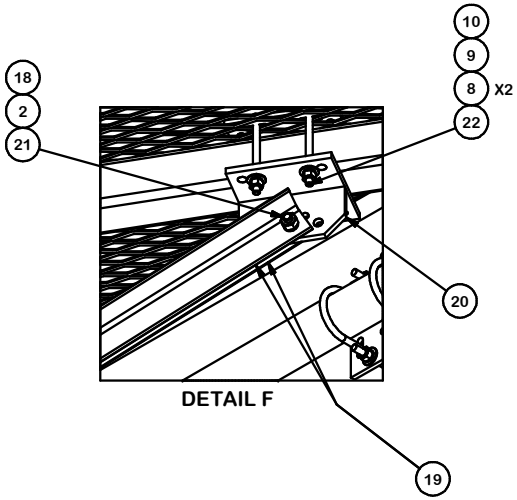
REVISION HISTORY

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
B	RELOCATED MOUNT PIPE POSITIONS	4488	JET	5/23/2021
A	CHANGED X-253992 TO X-TBW	4488	CEK	9/20/2018









DETAIL F

TOLERANCE NOTES

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")*

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
B	RELOCATED MOUNT PIPE POSITIONS	4488	JET	5/23/2021
A	CHANGED X-253992 TO X-TBW	4488	CEK	9/20/2018

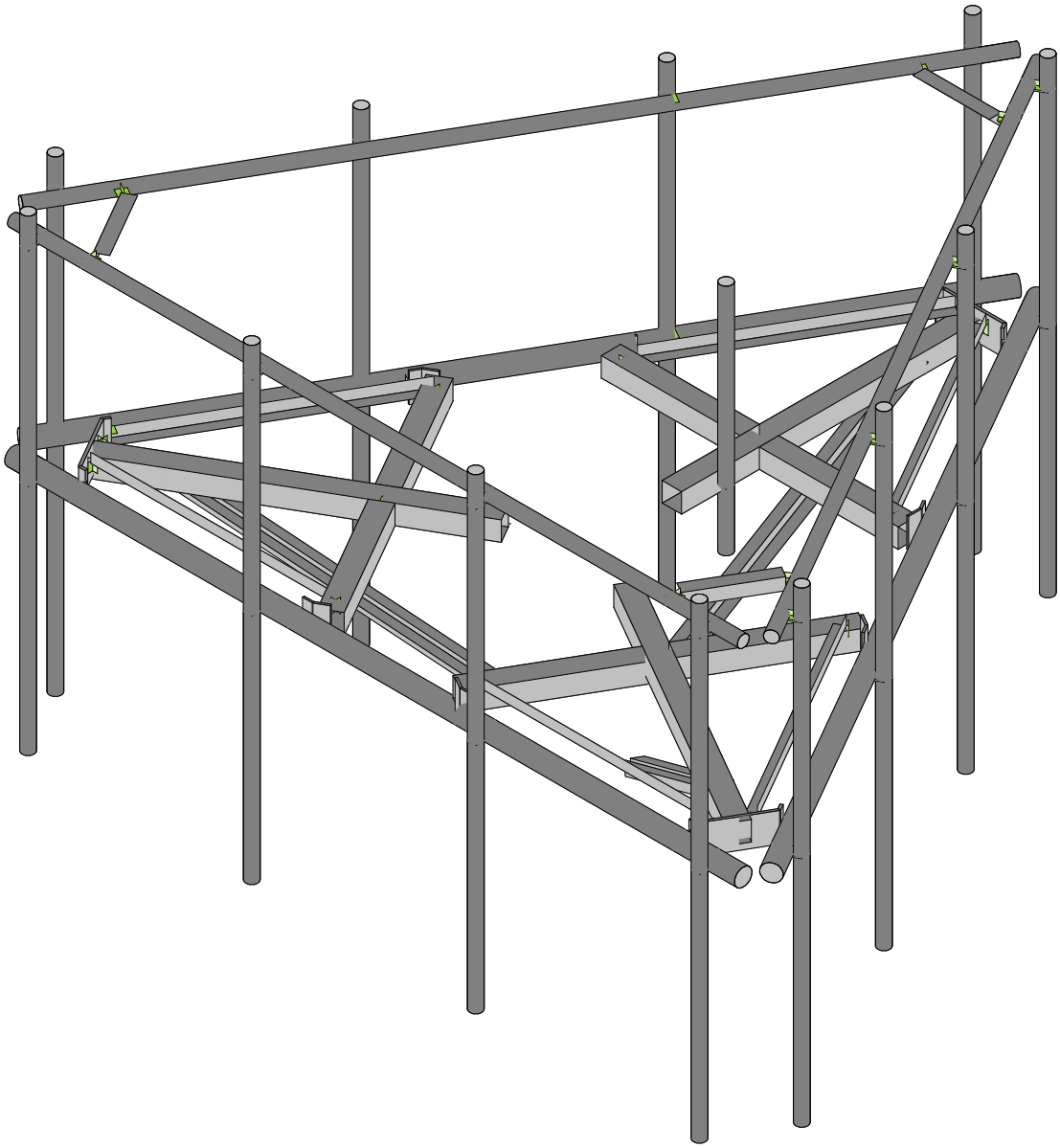
REVISION HISTORY

DESCRIPTION
12' 6" LOW PROFILE PLATFORM
WITH TWELVE 2-3/8" ANTENNA MOUNTING
PIPES, AND SUPPORT RAIL

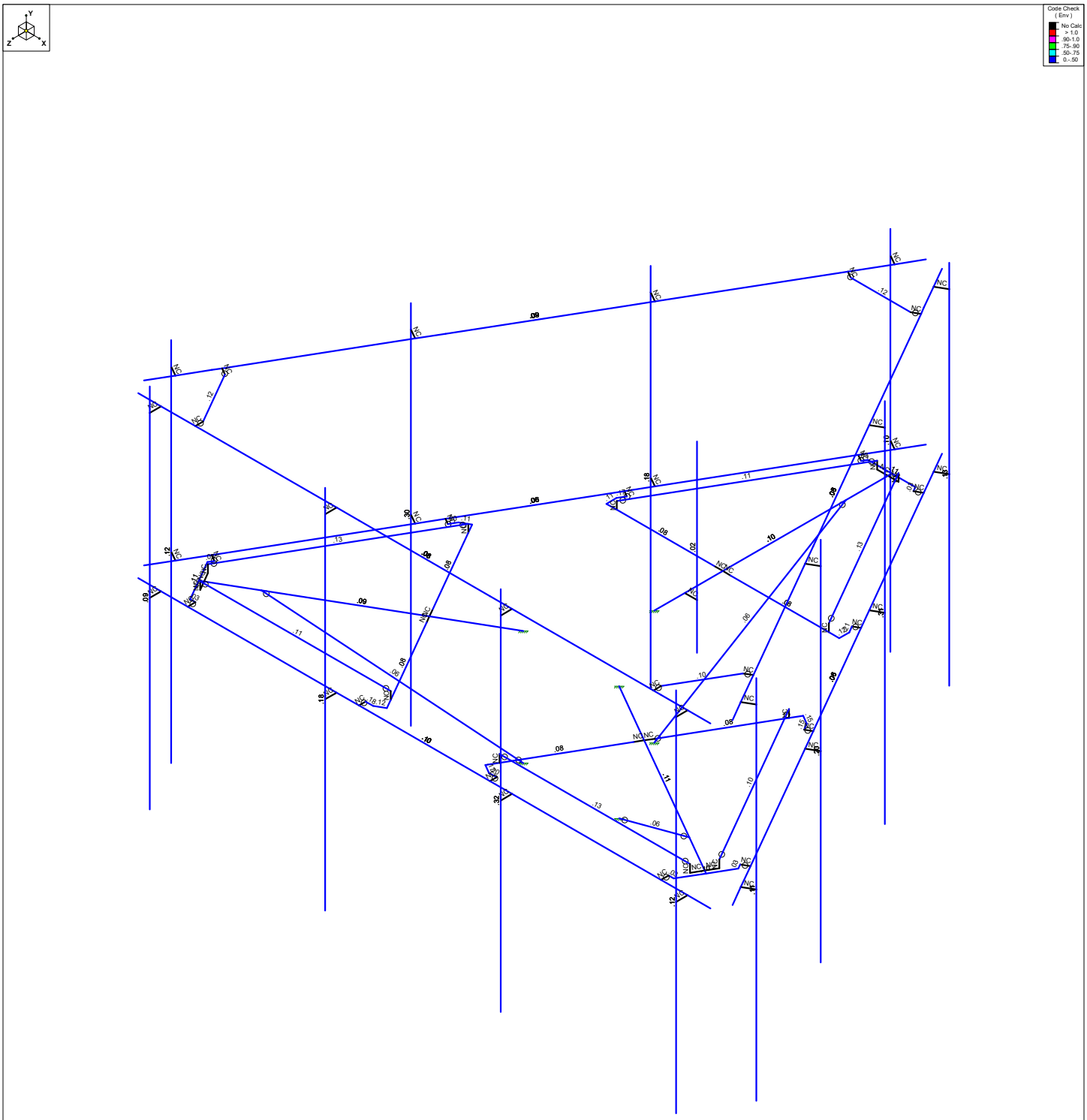
SITE PRO 1
A valmont COMPANY
Engineering Support Team: 1-888-753-7446
Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
4488	CEK 7/14/2014		RMQP-496-HK

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	02	CUSTOMER	BMC 7/14/2014	RMQP-496-HK

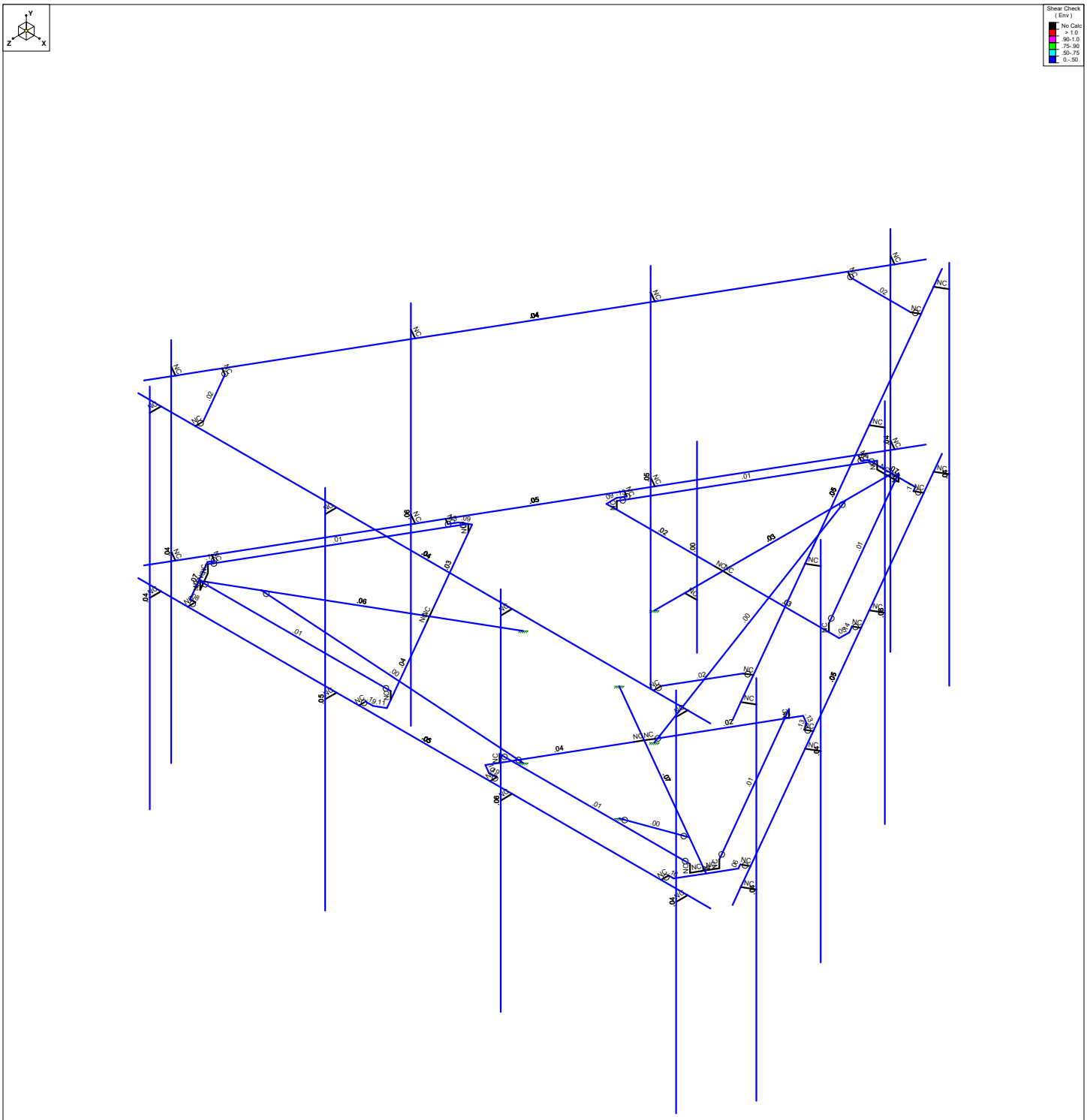


		SK - 1
		Oct 19, 2021 at 4:38 PM
		467858-VZW_MT_LO_H.r3d



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

		SK - 2
		Oct 19, 2021 at 4:39 PM
		467858-VZW_MT_LO_H.r3d



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

		SK - 3
		Oct 19, 2021 at 4:39 PM
		467858-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					84			
2	Antenna Di	None					84			
3	Antenna Wo (0 Deg)	None					84			
4	Antenna Wo (30 Deg)	None					84			
5	Antenna Wo (60 Deg)	None					84			
6	Antenna Wo (90 Deg)	None					84			
7	Antenna Wo (120 Deg)	None					84			
8	Antenna Wo (150 Deg)	None					84			
9	Antenna Wo (180 Deg)	None					84			
10	Antenna Wo (210 Deg)	None					84			
11	Antenna Wo (240 Deg)	None					84			
12	Antenna Wo (270 Deg)	None					84			
13	Antenna Wo (300 Deg)	None					84			
14	Antenna Wo (330 Deg)	None					84			
15	Antenna Wi (0 Deg)	None					84			
16	Antenna Wi (30 Deg)	None					84			
17	Antenna Wi (60 Deg)	None					84			
18	Antenna Wi (90 Deg)	None					84			
19	Antenna Wi (120 Deg)	None					84			
20	Antenna Wi (150 Deg)	None					84			
21	Antenna Wi (180 Deg)	None					84			
22	Antenna Wi (210 Deg)	None					84			
23	Antenna Wi (240 Deg)	None					84			
24	Antenna Wi (270 Deg)	None					84			
25	Antenna Wi (300 Deg)	None					84			
26	Antenna Wi (330 Deg)	None					84			
27	Antenna Wm (0 Deg)	None					84			
28	Antenna Wm (30 Deg)	None					84			
29	Antenna Wm (60 Deg)	None					84			
30	Antenna Wm (90 Deg)	None					84			
31	Antenna Wm (120 Deg)	None					84			
32	Antenna Wm (150 Deg)	None					84			
33	Antenna Wm (180 Deg)	None					84			
34	Antenna Wm (210 Deg)	None					84			
35	Antenna Wm (240 Deg)	None					84			
36	Antenna Wm (270 Deg)	None					84			
37	Antenna Wm (300 Deg)	None					84			
38	Antenna Wm (330 Deg)	None					84			
39	Structure D	None		-1					3	
40	Structure Di	None						61	3	
41	Structure Wo (0 Deg)	None						122		
42	Structure Wo (30 Deg)	None						122		
43	Structure Wo (60 Deg)	None						122		
44	Structure Wo (90 Deg)	None						122		
45	Structure Wo (120 D...	None						122		
46	Structure Wo (150 D...	None						122		
47	Structure Wo (180 D...	None						122		
48	Structure Wo (210 D...	None						122		
49	Structure Wo (240 D...	None						122		
50	Structure Wo (270 D...	None						122		
51	Structure Wo (300 D...	None						122		
52	Structure Wo (330 D...	None						122		
53	Structure Wi (0 Deg)	None						122		
54	Structure Wi (30 Deg)	None						122		
55	Structure Wi (60 Deg)	None						122		
56	Structure Wi (90 Deg)	None						122		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
57	Structure Wi (120 De...	None						122		
58	Structure Wi (150 De...	None						122		
59	Structure Wi (180 De...	None						122		
60	Structure Wi (210 De...	None						122		
61	Structure Wi (240 De...	None						122		
62	Structure Wi (270 De...	None						122		
63	Structure Wi (300 De...	None						122		
64	Structure Wi (330 De...	None						122		
65	Structure Wm (0 Deg)	None						122		
66	Structure Wm (30 De...	None						122		
67	Structure Wm (60 De...	None						122		
68	Structure Wm (90 De...	None						122		
69	Structure Wm (120 D...	None						122		
70	Structure Wm (150 D...	None						122		
71	Structure Wm (180 D...	None						122		
72	Structure Wm (210 D...	None						122		
73	Structure Wm (240 D...	None						122		
74	Structure Wm (270 D...	None						122		
75	Structure Wm (300 D...	None						122		
76	Structure Wm (330 D...	None						122		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	Antenna Ev	None					84			
82	Antenna Eh (0 Deg)	None					56			
83	Antenna Eh (90 Deg)	None					56			
84	Structure Ev	ELY		-.022						
85	Structure Eh (0 Deg)	ELZ	-.056							
86	Structure Eh (90 Deg)	ELX			.056					
87	BLC 39 Transient Are...	None						30		
88	BLC 40 Transient Are...	None						30		

Load Combinations

	Description	Sol...	PD...	SR...	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								

Load Combinations (Continued)

	Description	Sol..	PD..	SR..	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...
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										
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	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	1	83		ELZ	1	ELX					
53	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	.5	ELZ	.866	ELX	.5				
54	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	.866	ELZ	.5	ELX	.866				
55	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	1	ELZ		ELX	1				
56	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	.866	ELZ	-.5	ELX	.866				
57	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	.5	ELZ	-.866	ELX	.5				
58	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-1	83		ELZ	-1	ELX					
59	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5				
60	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866				
61	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	-1	ELZ		ELX	-1				
62	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	-.866	ELZ	.5	ELX	-.866				
63	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	-.5	ELZ	.866	ELX	-.5				
64	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	1	83		ELZ	1	ELX					
65	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	.5	ELZ	.866	ELX	.5				
66	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	.866	ELZ	.5	ELX	.866				
67	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	1	ELZ		ELX	1				
68	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	.866	ELZ	-.5	ELX	.866				
69	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	.5	ELZ	-.866	ELX	.5				
70	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-1	83		ELZ	-1	ELX					
71	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5				
72	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866				
73	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1				
74	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	-.866	ELZ	.5	ELX	-.866				
75	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	-.5	ELZ	.866	ELX	-.5				

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	6.25	0	3.810523	0	
2	N2	-6.25	0	3.810523	0	
3	N3	0	0	-1.208333	0	
4	N5	-2.541667	0	-2.708333	0	
5	N6	2.315104	0.166667	-2.708333	0	
6	N7	-2.315104	0.166667	-2.708333	0	
7	N8	5.75	0	3.810523	0	
8	N9	5.75	0	4.060523	0	
9	N10	-5.75	0	3.810523	0	
10	N11	-5.75	0	4.060523	0	
11	N12	1.916667	0	3.810523	0	
12	N13	1.916667	0	4.060523	0	
13	N14	-1.916667	0	3.810523	0	
14	N15	-1.916667	0	4.060523	0	
15	N16	-1.916667	-4	4.060523	0	
16	N17	-1.916667	4	4.060523	0	
17	N18	-5.75	-4	4.060523	0	
18	N19	-5.75	4	4.060523	0	
19	N20	1.916667	-4	4.060523	0	
20	N21	1.916667	4	4.060523	0	
21	N22	5.75	-4	4.060523	0	
22	N23	5.75	4	4.060523	0	
23	N24	0	0	-2.708333	0	
24	N27	0	0	-6.395833	0	
25	CP	0	0	0	0	
26	N29	2.315104	0	-2.708333	0	
27	N30	-2.315104	0	-2.708333	0	
28	N101	2.541667	0	-2.708333	0	
29	N102	-0.166667	0	-2.708333	0	
30	N103A	0.166667	0	-2.708333	0	
31	N104A	-2.541667	0	-2.927083	0	
32	N105	2.541667	0	-2.927083	0	
33	N131	2.458333	0	-3.071421	0	
34	N135	0.571615	0	-6.298857	0	
35	N144	-2.458333	0	-3.071421	0	
36	N148	-0.571615	0	-6.298857	0	
37	N86A	2.584629	0	-3.144338	0	
38	N86B	-2.584629	0	-3.144338	0	
39	N86C	-0.515625	0	-6.395833	0	
40	N87A	0.515625	0	-6.395833	0	
41	N86D	0.715429	0	-6.381888	0	
42	N86E	-0.715429	0	-6.381888	0	
43	N88A	0	0	-6.3125	0	
44	N87C	0.234238	0.166667	-6.3125	0	
45	N86G	0.234238	0	-6.3125	0	
46	N87B	-0.234238	0.166667	-6.3125	0	
47	N88C	-0.234238	0	-6.3125	0	
48	N87D	-1.046447	0	0.604167	0	
49	N88B	-1.074652	0	3.555315	0	
50	N89	-3.503038	0.166667	-0.650772	0	
51	N90	-1.187933	0.166667	3.359106	0	
52	N91	-2.345485	0	1.354167	0	
53	N92	-5.538954	0	3.197917	0	
54	N93	-3.503038	0	-0.650772	0	
55	N94	-1.187933	0	3.359106	0	
56	N95	-3.616319	0	-0.846981	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
114	N146	-5.75	3.5	3.810523	0	
115	N147	-5.75	3.5	4.060523	0	
116	N148A	1.916667	3.5	3.810523	0	
117	N149	1.916667	3.5	4.060523	0	
118	N150	-1.916667	3.5	3.810523	0	
119	N151	-1.916667	3.5	4.060523	0	
120	N152	-1.430762	3.5	3.810523	0	
121	N153	-5.002496	3.5	3.810523	0	
122	N154	1.430762	3.5	3.810523	0	
123	N155	5.169162	3.5	3.810523	0	
124	N156	-5.002496	3.5	3.643857	0	
125	N157	5.002496	3.5	3.810523	0	
126	N158	5.002496	3.5	3.643857	0	
127	N159	-4.672929	0	2.697917	0	
128	N160	-1.046447	-2.5	0.604167	0	
129	N161	0.17501	3.5	-7.31792	0	
130	N162	6.42501	3.5	3.507397	0	
131	N171	4.015391	3.5	-0.666186	0	
132	N172	5.801258	3.5	2.427027	0	
133	N173	2.584629	3.5	-3.144338	0	
134	N174	0.715429	3.5	-6.381888	0	
135	N175	5.65692	3.5	2.51036	0	
136	N176	0.798762	3.5	-6.23755	0	
137	N177	0.654424	3.5	-6.154217	0	
138	N178	4.672929	0	2.697917	0	
139	N179	1.046447	-2.5	0.604167	0	
140	N180	-6.42501	3.5	3.507397	0	
141	N181	-0.17501	3.5	-7.31792	0	
142	N190	-2.584629	3.5	-3.144338	0	
143	N191	-0.798762	3.5	-6.23755	0	
144	N192	-4.015391	3.5	-0.666185	0	
145	N193	-5.884591	3.5	2.571364	0	
146	N194	-0.654424	3.5	-6.154217	0	
147	N195	-5.801258	3.5	2.427027	0	
148	N196	-5.65692	3.5	2.51036	0	
149	N149A	0.42501	0	-6.884908	0	
150	N150A	0.641516	0	-7.009908	0	
151	N151A	6.17501	0	3.074384	0	
152	N152A	6.391516	0	2.949384	0	
153	N153A	2.341677	0	-3.565144	0	
154	N154A	2.558183	0	-3.690144	0	
155	N155A	4.258343	0	-0.24538	0	
156	N156A	4.47485	0	-0.37038	0	
157	N157A	4.47485	-4	-0.37038	0	
158	N158A	4.47485	4	-0.37038	0	
159	N159A	6.391516	-4	2.949384	0	
160	N160A	6.391516	4	2.949384	0	
161	N161A	2.558183	-4	-3.690144	0	
162	N162A	2.558183	4	-3.690144	0	
163	N163	0.641516	-4	-7.009908	0	
164	N164	0.641516	4	-7.009908	0	
165	N165	0.42501	3.5	-6.884908	0	
166	N166	0.641516	3.5	-7.009908	0	
167	N167	6.17501	3.5	3.074384	0	
168	N168	6.391516	3.5	2.949384	0	
169	N169	2.341677	3.5	-3.565144	0	
170	N170	2.558183	3.5	-3.690144	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
57	N96	-2.262152	0	1.498504	0	
58	N97	-2.428819	0	1.209829	0	
59	N98	-1.264095	0	3.66469	0	
60	N99	-3.805762	0	-0.737606	0	
61	N100	-3.889095	0	-0.593269	0	
62	N101A	-5.740777	0	2.654396	0	
63	N102A	-1.430762	0	3.66469	0	
64	N103	-5.169162	0	3.644461	0	
65	N104	-4.015391	0	-0.666185	0	
66	N105A	-1.430762	0	3.810523	0	
67	N106	-5.281142	0	3.644461	0	
68	N107	-5.796767	0	2.751372	0	
69	N108	-5.884591	0	2.571364	0	
70	N109	-5.169162	0	3.810523	0	
71	N110	-5.466785	0	3.15625	0	
72	N111	-5.583904	0.166667	2.953394	0	
73	N112	-5.583904	0	2.953394	0	
74	N113	-5.349667	0.166667	3.359106	0	
75	N114	-5.349667	0	3.359106	0	
76	N115	1.046447	0	0.604167	0	
77	N116	3.616319	0	-0.846981	0	
78	N117	1.187933	0.166667	3.359106	0	
79	N118	3.503038	0.166667	-0.650772	0	
80	N119	2.345485	0	1.354167	0	
81	N120	5.538954	0	3.197917	0	
82	N121	1.187933	0	3.359106	0	
83	N122	3.503038	0	-0.650772	0	
84	N123	1.074652	0	3.555315	0	
85	N124	2.428819	0	1.209829	0	
86	N125	2.262152	0	1.498504	0	
87	N126	3.805762	0	-0.737606	0	
88	N127	1.264095	0	3.66469	0	
89	N128	1.430762	0	3.66469	0	
90	N129	5.169162	0	3.644461	0	
91	N130	3.889095	0	-0.593269	0	
92	N131A	5.740777	0	2.654396	0	
93	N132	1.430762	0	3.810523	0	
94	N133	4.015391	0	-0.666186	0	
95	N134	5.796767	0	2.751372	0	
96	N135A	5.281142	0	3.644461	0	
97	N136	5.169162	0	3.810523	0	
98	N137	5.884591	0	2.571364	0	
99	N138	5.466785	0	3.15625	0	
100	N139	5.349667	0.166667	3.359106	0	
101	N140	5.349667	0	3.359106	0	
102	N141	5.583904	0.166667	2.953394	0	
103	N142	5.583904	0	2.953394	0	
104	N104B	0.17501	0	-7.31792	0	
105	N105B	6.42501	0	3.507397	0	
106	N124A	-6.42501	0	3.507397	0	
107	N125A	-0.17501	0	-7.31792	0	
108	N140B	0	0	-5.395833	0	
109	N141A	0	-2.5	-1.208333	0	
110	N142A	6.25	3.5	3.810523	0	
111	N143	-6.25	3.5	3.810523	0	
112	N144A	5.75	3.5	3.810523	0	
113	N145	5.75	3.5	4.060523	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
171	N171A	4.258343	3.5	-0.24538	0	
172	N172A	4.47485	3.5	-0.37038	0	
173	N173A	-6.17501	0	3.074384	0	
174	N174A	-6.391516	0	2.949384	0	
175	N175A	-0.42501	0	-6.884908	0	
176	N176A	-0.641516	0	-7.009908	0	
177	N177A	-4.258343	0	-0.24538	0	
178	N178A	-4.47485	0	-0.37038	0	
179	N179A	-2.341677	0	-3.565144	0	
180	N180A	-2.558183	0	-3.690144	0	
181	N181A	-2.558183	-4	-3.690144	0	
182	N182	-2.558183	4	-3.690144	0	
183	N183	-0.641516	-4	-7.009908	0	
184	N184	-0.641516	4	-7.009908	0	
185	N185	-4.47485	-4	-0.37038	0	
186	N186	-4.47485	4	-0.37038	0	
187	N187	-6.391516	-4	2.949384	0	
188	N188	-6.391516	4	2.949384	0	
189	N189	-6.17501	3.5	3.074384	0	
190	N190A	-6.391516	3.5	2.949384	0	
191	N191A	-0.42501	3.5	-6.884908	0	
192	N192A	-0.641516	3.5	-7.009908	0	
193	N193A	-4.258343	3.5	-0.24538	0	
194	N194A	-4.47485	3.5	-0.37038	0	
195	N195A	-2.341677	3.5	-3.565144	0	
196	N196A	-2.558183	3.5	-3.690144	0	
197	N197	0	0	-1.875	0	
198	N198	0.266667	0	-1.875	0	
199	N199	0.266667	-1	-1.875	0	
200	N200	0.266667	3	-1.875	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE_3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2	Standoff Horizontal	HSS4X...	Beam	SquareTube	A500 Gr...	Typical	3.37	7.8	7.8	12.8
3	Corner Plate	PL1/2x6	Beam	BAR	A36 Gr....	Typical	3	.063	9	.237
4	Platform Crossmember	HSS4X...	Beam	SquareTube	A500 Gr...	Typical	3.37	7.8	7.8	12.8
5	Grating Support	L2x2x3	Beam	Single Angle	A36 Gr....	Typical	.722	.271	.271	.009
6	Mount Pipe	PIPE_2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
7	Cross Arm Plate	PL3/8x6	Column	RECT	A36 Gr....	Typical	2.25	.026	6.75	.101
8	Kicker	LL2.5x2...	Column	Double Angle (3/8 Gap)	A36 Gr....	Typical	1.8	2.46	1.07	.023
9	Support Rail	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
10	Support Rail Angle	L2.5x2....	Beam	Single Angle	A36 Gr....	Typical	1.19	.692	.692	.026

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N2			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
2	M4	N3	N27			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
3	M10	N101	N103A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
4	M19	N8	N9			RIGID	None	None	RIGID	Typical
5	M20	N10	N11			RIGID	None	None	RIGID	Typical
6	M21	N12	N13			RIGID	None	None	RIGID	Typical
7	M22	N14	N15			RIGID	None	None	RIGID	Typical
8	MP3A	N17	N16			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
9	MP4A	N19	N18			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
10	MP2A	N21	N20			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
11	MP1A	N23	N22			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
12	M43	N102	N5			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
13	M46	N86C	N87A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
14	M35A	N7	N30			RIGID	None	None	RIGID	Typical
15	M36A	N6	N29			RIGID	None	None	RIGID	Typical
16	M51B	N87C	N6			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
17	M52B	N7	N87B			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
18	M52	N87B	N88C			RIGID	None	None	RIGID	Typical
19	M58	N102	N24			RIGID	None	None	RIGID	Typical
20	M59	N24	N103A			RIGID	None	None	RIGID	Typical
21	M76	N101	N105			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
22	M77	N105	N131			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
23	M79	N131	N86A			RIGID	None	None	RIGID	Typical
24	M80	N87A	N135			Corner Plate	Beam	BAR	A36 Gr.36	Typical
25	M83	N135	N86D			RIGID	None	None	RIGID	Typical
26	M84	N5	N104A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
27	M85	N104A	N144			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
28	M88	N144	N86B			RIGID	None	None	RIGID	Typical
29	M91	N86C	N148			Corner Plate	Beam	BAR	A36 Gr.36	Typical
30	M92	N148	N86E			RIGID	None	None	RIGID	Typical
31	M50	N88C	N88A			RIGID	None	None	RIGID	Typical
32	M51	N88A	N86G			RIGID	None	None	RIGID	Typical
33	M51A	N87C	N86G			RIGID	None	None	RIGID	Typical
34	M52A	N87D	N92			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
35	M53	N95	N97			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
36	M54	N96	N88B			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
37	M55	N106	N107			Corner Plate	Beam	BAR	A36 Gr.36	Typical
38	M56	N90	N94			RIGID	None	None	RIGID	Typical
39	M57	N89	N93			RIGID	None	None	RIGID	Typical
40	M58A	N111	N89			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
41	M59A	N90	N113			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
42	M60	N113	N114			RIGID	None	None	RIGID	Typical
43	M61	N96	N91			RIGID	None	None	RIGID	Typical
44	M62	N91	N97			RIGID	None	None	RIGID	Typical
45	M63	N95	N99			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
46	M64	N99	N100			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
47	M65	N100	N104			RIGID	None	None	RIGID	Typical
48	M66	N107	N101A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
49	M67	N101A	N108			RIGID	None	None	RIGID	Typical
50	M68	N88B	N98			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
51	M69	N98	N102A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
52	M70	N102A	N105A			RIGID	None	None	RIGID	Typical
53	M71	N106	N103			Corner Plate	Beam	BAR	A36 Gr.36	Typical
54	M72	N103	N109			RIGID	None	None	RIGID	Typical
55	M73	N114	N110			RIGID	None	None	RIGID	Typical
56	M74	N110	N112			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	M75	N111	N112			RIGID	None	None	RIGID	Typical
58	M76A	N115	N120			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
59	M77A	N123	N125			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
60	M78	N124	N116			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
61	M79A	N134	N135A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
62	M80A	N118	N122			RIGID	None	None	RIGID	Typical
63	M81	N117	N121			RIGID	None	None	RIGID	Typical
64	M82	N139	N117			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
65	M83A	N118	N141			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
66	M84A	N141	N142			RIGID	None	None	RIGID	Typical
67	M85A	N124	N119			RIGID	None	None	RIGID	Typical
68	M86	N119	N125			RIGID	None	None	RIGID	Typical
69	M87	N123	N127			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
70	M88A	N127	N128			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
71	M89	N128	N132			RIGID	None	None	RIGID	Typical
72	M90	N135A	N129			Corner Plate	Beam	BAR	A36 Gr.36	Typical
73	M91A	N129	N136			RIGID	None	None	RIGID	Typical
74	M92A	N116	N126			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
75	M93	N126	N130			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
76	M94	N130	N133			RIGID	None	None	RIGID	Typical
77	M95	N134	N131A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
78	M96	N131A	N137			RIGID	None	None	RIGID	Typical
79	M97	N142	N138			RIGID	None	None	RIGID	Typical
80	M98	N138	N140			RIGID	None	None	RIGID	Typical
81	M99	N139	N140			RIGID	None	None	RIGID	Typical
82	M82A	N104B	N105B			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
83	M91B	N124A	N125A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
84	M100	N140B	N141A			Kicker	Column	Double Angle (...	A36 Gr.36	Typical
85	M101	N142A	N143			Support Rail	Beam	Pipe	A53 Gr.B	Typical
86	M102	N144A	N145			RIGID	None	None	RIGID	Typical
87	M103	N146	N147			RIGID	None	None	RIGID	Typical
88	M104	N148A	N149			RIGID	None	None	RIGID	Typical
89	M105	N150	N151			RIGID	None	None	RIGID	Typical
90	M106	N153	N156			RIGID	None	None	RIGID	Typical
91	M107	N157	N158			RIGID	None	None	RIGID	Typical
92	M108	N159	N160			Kicker	Column	Double Angle (...	A36 Gr.36	Typical
93	M109	N161	N162			Support Rail	Beam	Pipe	A53 Gr.B	Typical
94	M114	N172	N175			RIGID	None	None	RIGID	Typical
95	M115	N176	N177			RIGID	None	None	RIGID	Typical
96	M116	N178	N179			Kicker	Column	Double Angle (...	A36 Gr.36	Typical
97	M117	N180	N181			Support Rail	Beam	Pipe	A53 Gr.B	Typical
98	M122	N191	N194			RIGID	None	None	RIGID	Typical
99	M123	N195	N196			RIGID	None	None	RIGID	Typical
100	M124	N196	N156		180	Support Rail A...	Beam	Single Angle	A36 Gr.36	Typical
101	M125	N158	N175		180	Support Rail A...	Beam	Single Angle	A36 Gr.36	Typical
102	M126	N177	N194		180	Support Rail A...	Beam	Single Angle	A36 Gr.36	Typical
103	M103A	N149A	N150A			RIGID	None	None	RIGID	Typical
104	M104A	N151A	N152A			RIGID	None	None	RIGID	Typical
105	M105A	N153A	N154A			RIGID	None	None	RIGID	Typical
106	M106A	N155A	N156A			RIGID	None	None	RIGID	Typical
107	MP3C	N158A	N157A		240	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
108	MP4C	N160A	N159A		240	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
109	MP2C	N162A	N161A		240	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
110	MP1C	N164	N163		240	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
111	M111	N165	N166			RIGID	None	None	RIGID	Typical
112	M112	N167	N168			RIGID	None	None	RIGID	Typical
113	M113	N169	N170			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
114	M114A	N171A	N172A			RIGID	None	None	RIGID	Typical
115	M115A	N173A	N174A			RIGID	None	None	RIGID	Typical
116	M116A	N175A	N176A			RIGID	None	None	RIGID	Typical
117	M117A	N177A	N178A			RIGID	None	None	RIGID	Typical
118	M118	N179A	N180A			RIGID	None	None	RIGID	Typical
119	MP3B	N182	N181A		120	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
120	MP4B	N184	N183		120	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
121	MP2B	N186	N185		120	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
122	MP1B	N188	N187		120	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
123	M123A	N189	N190A			RIGID	None	None	RIGID	Typical
124	M124A	N191A	N192A			RIGID	None	None	RIGID	Typical
125	M125A	N193A	N194A			RIGID	None	None	RIGID	Typical
126	M126A	N195A	N196A			RIGID	None	None	RIGID	Typical
127	M127	N197	N198			RIGID	None	None	RIGID	Typical
128	OVP	N199	N200			Mount Pipe	Column	Pipe	A53 Gr.B	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes	Default			None
2	M4						Yes				None
3	M10						Yes	Default			None
4	M19						Yes	** NA **			None
5	M20						Yes	** NA **			None
6	M21						Yes	** NA **			None
7	M22						Yes	** NA **			None
8	MP3A						Yes	** NA **			None
9	MP4A						Yes	** NA **			None
10	MP2A						Yes	** NA **			None
11	MP1A						Yes	** NA **			None
12	M43						Yes	Default			None
13	M46						Yes	Default			None
14	M35A						Yes	** NA **			None
15	M36A						Yes	** NA **			None
16	M51B	OOOOOX	OOOOOX				Yes	Default			None
17	M52B	OOOOOX	OOOOOX				Yes	Default			None
18	M52						Yes	** NA **			None
19	M58						Yes	** NA **			None
20	M59						Yes	** NA **			None
21	M76						Yes	** NA **			None
22	M77						Yes	** NA **			None
23	M79		BenPIN				Yes	** NA **			None
24	M80						Yes				None
25	M83		BenPIN				Yes	** NA **			None
26	M84						Yes	** NA **			None
27	M85						Yes	** NA **			None
28	M88		BenPIN				Yes	** NA **			None
29	M91						Yes				None
30	M92		BenPIN				Yes	** NA **			None
31	M50						Yes	** NA **			None
32	M51						Yes	** NA **			None
33	M51A						Yes	** NA **			None
34	M52A						Yes				None
35	M53						Yes	Default			None
36	M54						Yes	Default			None
37	M55						Yes	Default			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...
38	M56						Yes	** NA **			None
39	M57						Yes	** NA **			None
40	M58A	OOOOOX	OOOOOX				Yes	Default			None
41	M59A	OOOOOX	OOOOOX				Yes	Default			None
42	M60						Yes	** NA **			None
43	M61						Yes	** NA **			None
44	M62						Yes	** NA **			None
45	M63						Yes	** NA **			None
46	M64						Yes	** NA **			None
47	M65		BenPIN				Yes	** NA **			None
48	M66						Yes				None
49	M67		BenPIN				Yes	** NA **			None
50	M68						Yes	** NA **			None
51	M69						Yes	** NA **			None
52	M70		BenPIN				Yes	** NA **			None
53	M71						Yes				None
54	M72		BenPIN				Yes	** NA **			None
55	M73						Yes	** NA **			None
56	M74						Yes	** NA **			None
57	M75						Yes	** NA **			None
58	M76A						Yes				None
59	M77A						Yes	Default			None
60	M78						Yes	Default			None
61	M79A						Yes	Default			None
62	M80A						Yes	** NA **			None
63	M81						Yes	** NA **			None
64	M82	OOOOOX	OOOOOX				Yes	Default			None
65	M83A	OOOOOX	OOOOOX				Yes	Default			None
66	M84A						Yes	** NA **			None
67	M85A						Yes	** NA **			None
68	M86						Yes	** NA **			None
69	M87						Yes	** NA **			None
70	M88A						Yes	** NA **			None
71	M89		BenPIN				Yes	** NA **			None
72	M90						Yes				None
73	M91A		BenPIN				Yes	** NA **			None
74	M92A						Yes	** NA **			None
75	M93						Yes	** NA **			None
76	M94		BenPIN				Yes	** NA **			None
77	M95						Yes				None
78	M96		BenPIN				Yes	** NA **			None
79	M97						Yes	** NA **			None
80	M98						Yes	** NA **			None
81	M99						Yes	** NA **			None
82	M82A						Yes	Default			None
83	M91B						Yes	Default			None
84	M100	BenPIN	BenPIN				Yes	** NA **			None
85	M101						Yes	Default			None
86	M102						Yes	** NA **			None
87	M103						Yes	** NA **			None
88	M104						Yes	** NA **			None
89	M105						Yes	** NA **			None
90	M106	OOOOOX					Yes	** NA **			None
91	M107	OOOOOX					Yes	** NA **			None
92	M108	BenPIN	BenPIN				Yes	** NA **			None
93	M109						Yes	Default			None
94	M114	OOOOOX					Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
95	M115	OOOOOX					Yes	** NA **			None
96	M116	BenPIN	BenPIN				Yes	** NA **			None
97	M117						Yes	Default			None
98	M122	OOOOOX					Yes	** NA **			None
99	M123	OOOOOX					Yes	** NA **			None
100	M124						Yes	Default			None
101	M125						Yes	Default			None
102	M126						Yes	Default			None
103	M103A						Yes	** NA **			None
104	M104A						Yes	** NA **			None
105	M105A						Yes	** NA **			None
106	M106A						Yes	** NA **			None
107	MP3C						Yes	** NA **			None
108	MP4C						Yes	** NA **			None
109	MP2C						Yes	** NA **			None
110	MP1C						Yes	** NA **			None
111	M111						Yes	** NA **			None
112	M112						Yes	** NA **			None
113	M113						Yes	** NA **			None
114	M114A						Yes	** NA **			None
115	M115A						Yes	** NA **			None
116	M116A						Yes	** NA **			None
117	M117A						Yes	** NA **			None
118	M118						Yes	** NA **			None
119	MP3B						Yes	** NA **			None
120	MP4B						Yes	** NA **			None
121	MP2B						Yes	** NA **			None
122	MP1B						Yes	** NA **			None
123	M123A						Yes	** NA **			None
124	M124A						Yes	** NA **			None
125	M125A						Yes	** NA **			None
126	M126A						Yes	** NA **			None
127	M127						Yes	** NA **			None
128	OVP						Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	Y	-40.15	2
2	MP2B	My	.003	2
3	MP2B	Mz	-.02	2
4	MP2B	Y	-40.15	6
5	MP2B	My	.003	6
6	MP2B	Mz	-.02	6
7	MP2A	Y	-41	2
8	MP2A	My	-.021	2
9	MP2A	Mz	0	2
10	MP2A	Y	-41	6
11	MP2A	My	-.021	6
12	MP2A	Mz	0	6
13	MP2C	Y	-41	2
14	MP2C	My	.02	2
15	MP2C	Mz	.004	2
16	MP2C	Y	-41	6
17	MP2C	My	.02	6
18	MP2C	Mz	.004	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	MP3A	Y	-10.75	3.5
20	MP3A	My	-.005	3.5
21	MP3A	Mz	0	3.5
22	MP3A	Y	-10.75	4.5
23	MP3A	My	-.005	4.5
24	MP3A	Mz	0	4.5
25	MP3B	Y	-10.75	3.5
26	MP3B	My	.000933	3.5
27	MP3B	Mz	-.005	3.5
28	MP3B	Y	-10.75	4.5
29	MP3B	My	.000933	4.5
30	MP3B	Mz	-.005	4.5
31	MP3C	Y	-10.75	3.5
32	MP3C	My	.005	3.5
33	MP3C	Mz	.000933	3.5
34	MP3C	Y	-10.75	4.5
35	MP3C	My	.005	4.5
36	MP3C	Mz	.000933	4.5
37	MP2A	Y	-11	5
38	MP2A	My	.005	5
39	MP2A	Mz	-.003	5
40	MP2B	Y	-11	5
41	MP2B	My	-.004	5
42	MP2B	Mz	.005	5
43	MP2C	Y	-11	5
44	MP2C	My	-.005	5
45	MP2C	Mz	-.004	5
46	MP2A	Y	-11	5
47	MP2A	My	.005	5
48	MP2A	Mz	.003	5
49	MP2B	Y	-11	5
50	MP2B	My	.002	5
51	MP2B	Mz	.006	5
52	MP2C	Y	-11	5
53	MP2C	My	-.006	5
54	MP2C	Mz	.002	5
55	OVP	Y	-32	1
56	OVP	My	0	1
57	OVP	Mz	0	1
58	MP2A	Y	-74.7	2
59	MP2A	My	.037	2
60	MP2A	Mz	0	2
61	MP2B	Y	-74.7	2
62	MP2B	My	-.006	2
63	MP2B	Mz	.037	2
64	MP2C	Y	-74.7	2
65	MP2C	My	-.037	2
66	MP2C	Mz	-.006	2
67	MP1A	Y	-70.3	2
68	MP1A	My	.035	2
69	MP1A	Mz	0	2
70	MP1B	Y	-70.3	2
71	MP1B	My	-.006	2
72	MP1B	Mz	.035	2
73	MP1C	Y	-70.3	2
74	MP1C	My	-.035	2
75	MP1C	Mz	-.006	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
76	MP3A	Y	-59.5	2
77	MP3A	My	.03	2
78	MP3A	Mz	0	2
79	MP3B	Y	-59.5	2
80	MP3B	My	-.005	2
81	MP3B	Mz	.029	2
82	MP3C	Y	-59.5	2
83	MP3C	My	-.029	2
84	MP3C	Mz	-.005	2

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	Y	-80.619	2
2	MP2B	My	.007	2
3	MP2B	Mz	-.04	2
4	MP2B	Y	-80.619	6
5	MP2B	My	.007	6
6	MP2B	Mz	-.04	6
7	MP2A	Y	-87.536	2
8	MP2A	My	-.044	2
9	MP2A	Mz	0	2
10	MP2A	Y	-87.536	6
11	MP2A	My	-.044	6
12	MP2A	Mz	0	6
13	MP2C	Y	-87.536	2
14	MP2C	My	.043	2
15	MP2C	Mz	.008	2
16	MP2C	Y	-87.536	6
17	MP2C	My	.043	6
18	MP2C	Mz	.008	6
19	MP3A	Y	-19.51	3.5
20	MP3A	My	-.01	3.5
21	MP3A	Mz	0	3.5
22	MP3A	Y	-19.51	4.5
23	MP3A	My	-.01	4.5
24	MP3A	Mz	0	4.5
25	MP3B	Y	-19.51	3.5
26	MP3B	My	.002	3.5
27	MP3B	Mz	-.01	3.5
28	MP3B	Y	-19.51	4.5
29	MP3B	My	.002	4.5
30	MP3B	Mz	-.01	4.5
31	MP3C	Y	-19.51	3.5
32	MP3C	My	.01	3.5
33	MP3C	Mz	.002	3.5
34	MP3C	Y	-19.51	4.5
35	MP3C	My	.01	4.5
36	MP3C	Mz	.002	4.5
37	MP2A	Y	-9.034	5
38	MP2A	My	.005	5
39	MP2A	Mz	-.002	5
40	MP2B	Y	-9.034	5
41	MP2B	My	-.003	5
42	MP2B	Mz	.004	5
43	MP2C	Y	-9.034	5
44	MP2C	My	-.004	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP2C	Mz	-.003	5
46	MP2A	Y	-9.034	5
47	MP2A	My	.005	5
48	MP2A	Mz	.002	5
49	MP2B	Y	-9.034	5
50	MP2B	My	.001	5
51	MP2B	Mz	.005	5
52	MP2C	Y	-9.034	5
53	MP2C	My	-.005	5
54	MP2C	Mz	.001	5
55	OVP	Y	-89.149	1
56	OVP	My	0	1
57	OVP	Mz	0	1
58	MP2A	Y	-45.552	2
59	MP2A	My	.023	2
60	MP2A	Mz	0	2
61	MP2B	Y	-45.552	2
62	MP2B	My	-.004	2
63	MP2B	Mz	.022	2
64	MP2C	Y	-45.552	2
65	MP2C	My	-.022	2
66	MP2C	Mz	-.004	2
67	MP1A	Y	-43.381	2
68	MP1A	My	.022	2
69	MP1A	Mz	0	2
70	MP1B	Y	-43.381	2
71	MP1B	My	-.004	2
72	MP1B	Mz	.021	2
73	MP1C	Y	-43.381	2
74	MP1C	My	-.021	2
75	MP1C	Mz	-.004	2
76	MP3A	Y	-37.834	2
77	MP3A	My	.019	2
78	MP3A	Mz	0	2
79	MP3B	Y	-37.834	2
80	MP3B	My	-.003	2
81	MP3B	Mz	.019	2
82	MP3C	Y	-37.834	2
83	MP3C	My	-.019	2
84	MP3C	Mz	-.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	0	2
2	MP2B	Z	-107	2
3	MP2B	Mx	.053	2
4	MP2B	X	0	6
5	MP2B	Z	-107	6
6	MP2B	Mx	.053	6
7	MP2A	X	0	2
8	MP2A	Z	-236.331	2
9	MP2A	Mx	0	2
10	MP2A	X	0	6
11	MP2A	Z	-236.331	6
12	MP2A	Mx	0	6
13	MP2C	X	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
14	MP2C	Z	-232.552	2
15	MP2C	Mx	-.02	2
16	MP2C	X	0	6
17	MP2C	Z	-232.552	6
18	MP2C	Mx	-.02	6
19	MP3A	X	0	3.5
20	MP3A	Z	-44.795	3.5
21	MP3A	Mx	0	3.5
22	MP3A	X	0	4.5
23	MP3A	Z	-44.795	4.5
24	MP3A	Mx	0	4.5
25	MP3B	X	0	3.5
26	MP3B	Z	-19.973	3.5
27	MP3B	Mx	.01	3.5
28	MP3B	X	0	4.5
29	MP3B	Z	-19.973	4.5
30	MP3B	Mx	.01	4.5
31	MP3C	X	0	3.5
32	MP3C	Z	-44.023	3.5
33	MP3C	Mx	-.004	3.5
34	MP3C	X	0	4.5
35	MP3C	Z	-44.023	4.5
36	MP3C	Mx	-.004	4.5
37	MP2A	X	0	5
38	MP2A	Z	-12.357	5
39	MP2A	Mx	.003	5
40	MP2B	X	0	5
41	MP2B	Z	-9.957	5
42	MP2B	Mx	-.004	5
43	MP2C	X	0	5
44	MP2C	Z	-12.283	5
45	MP2C	Mx	.004	5
46	MP2A	X	0	5
47	MP2A	Z	-12.357	5
48	MP2A	Mx	-.003	5
49	MP2B	X	0	5
50	MP2B	Z	-9.957	5
51	MP2B	Mx	-.005	5
52	MP2C	X	0	5
53	MP2C	Z	-12.283	5
54	MP2C	Mx	-.002	5
55	OVP	X	0	1
56	OVP	Z	-141.425	1
57	OVP	Mx	0	1
58	MP2A	X	0	2
59	MP2A	Z	-72.212	2
60	MP2A	Mx	0	2
61	MP2B	X	0	2
62	MP2B	Z	-48.992	2
63	MP2B	Mx	-.024	2
64	MP2C	X	0	2
65	MP2C	Z	-71.49	2
66	MP2C	Mx	.006	2
67	MP1A	X	0	2
68	MP1A	Z	-72.212	2
69	MP1A	Mx	0	2
70	MP1B	X	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
71	MP1B	Z	-44.779	2
72	MP1B	Mx	-.022	2
73	MP1C	X	0	2
74	MP1C	Z	-71.359	2
75	MP1C	Mx	.006	2
76	MP3A	X	0	2
77	MP3A	Z	-72.212	2
78	MP3A	Mx	0	2
79	MP3B	X	0	2
80	MP3B	Z	-34.011	2
81	MP3B	Mx	-.017	2
82	MP3C	X	0	2
83	MP3C	Z	-71.025	2
84	MP3C	Mx	.006	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	58.675	2
2	MP2B	Z	-101.629	2
3	MP2B	Mx	.055	2
4	MP2B	X	58.675	6
5	MP2B	Z	-101.629	6
6	MP2B	Mx	.055	6
7	MP2A	X	102.502	2
8	MP2A	Z	-177.538	2
9	MP2A	Mx	-.051	2
10	MP2A	X	102.502	6
11	MP2A	Z	-177.538	6
12	MP2A	Mx	-.051	6
13	MP2C	X	110.836	2
14	MP2C	Z	-191.974	2
15	MP2C	Mx	.038	2
16	MP2C	X	110.836	6
17	MP2C	Z	-191.974	6
18	MP2C	Mx	.038	6
19	MP3A	X	19.198	3.5
20	MP3A	Z	-33.252	3.5
21	MP3A	Mx	-.01	3.5
22	MP3A	X	19.198	4.5
23	MP3A	Z	-33.252	4.5
24	MP3A	Mx	-.01	4.5
25	MP3B	X	11.097	3.5
26	MP3B	Z	-19.221	3.5
27	MP3B	Mx	.01	3.5
28	MP3B	X	11.097	4.5
29	MP3B	Z	-19.221	4.5
30	MP3B	Mx	.01	4.5
31	MP3C	X	20.9	3.5
32	MP3C	Z	-36.201	3.5
33	MP3C	Mx	.007	3.5
34	MP3C	X	20.9	4.5
35	MP3C	Z	-36.201	4.5
36	MP3C	Mx	.007	4.5
37	MP2A	X	5.869	5
38	MP2A	Z	-10.166	5
39	MP2A	Mx	.005	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
40	MP2B	X	5.086	5
41	MP2B	Z	-8.809	5
42	MP2B	Mx	-.006	5
43	MP2C	X	6.034	5
44	MP2C	Z	-10.451	5
45	MP2C	Mx	.000771	5
46	MP2A	X	5.869	5
47	MP2A	Z	-10.166	5
48	MP2A	Mx	.000393	5
49	MP2B	X	5.086	5
50	MP2B	Z	-8.809	5
51	MP2B	Mx	-.004	5
52	MP2C	X	6.034	5
53	MP2C	Z	-10.451	5
54	MP2C	Mx	-.005	5
55	OVP	X	61.981	1
56	OVP	Z	-107.354	1
57	OVP	Mx	0	1
58	MP2A	X	33.113	2
59	MP2A	Z	-57.354	2
60	MP2A	Mx	.017	2
61	MP2B	X	25.535	2
62	MP2B	Z	-44.229	2
63	MP2B	Mx	-.024	2
64	MP2C	X	34.706	2
65	MP2C	Z	-60.112	2
66	MP2C	Mx	-.012	2
67	MP1A	X	32.57	2
68	MP1A	Z	-56.413	2
69	MP1A	Mx	.016	2
70	MP1B	X	23.617	2
71	MP1B	Z	-40.907	2
72	MP1B	Mx	-.022	2
73	MP1C	X	34.452	2
74	MP1C	Z	-59.672	2
75	MP1C	Mx	-.012	2
76	MP3A	X	31.183	2
77	MP3A	Z	-54.01	2
78	MP3A	Mx	.016	2
79	MP3B	X	18.716	2
80	MP3B	Z	-32.416	2
81	MP3B	Mx	-.018	2
82	MP3C	X	33.802	2
83	MP3C	Z	-58.547	2
84	MP3C	Mx	-.012	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	150.138	2
2	MP2B	Z	-86.682	2
3	MP2B	Mx	.056	2
4	MP2B	X	150.138	6
5	MP2B	Z	-86.682	6
6	MP2B	Mx	.056	6
7	MP2A	X	123.278	2
8	MP2A	Z	-71.174	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP2A	Mx	-.062	2
10	MP2A	X	123.278	6
11	MP2A	Z	-71.174	6
12	MP2A	Mx	-.062	6
13	MP2C	X	140.986	2
14	MP2C	Z	-81.398	2
15	MP2C	Mx	.062	2
16	MP2C	X	140.986	6
17	MP2C	Z	-81.398	6
18	MP2C	Mx	.062	6
19	MP3A	X	22.17	3.5
20	MP3A	Z	-12.8	3.5
21	MP3A	Mx	-.011	3.5
22	MP3A	X	22.17	4.5
23	MP3A	Z	-12.8	4.5
24	MP3A	Mx	-.011	4.5
25	MP3B	X	29.635	3.5
26	MP3B	Z	-17.11	3.5
27	MP3B	Mx	.011	3.5
28	MP3B	X	29.635	4.5
29	MP3B	Z	-17.11	4.5
30	MP3B	Mx	.011	4.5
31	MP3C	X	25.786	3.5
32	MP3C	Z	-14.888	3.5
33	MP3C	Mx	.011	3.5
34	MP3C	X	25.786	4.5
35	MP3C	Z	-14.888	4.5
36	MP3C	Mx	.011	4.5
37	MP2A	X	9.094	5
38	MP2A	Z	-5.251	5
39	MP2A	Mx	.006	5
40	MP2B	X	9.816	5
41	MP2B	Z	-5.667	5
42	MP2B	Mx	-.006	5
43	MP2C	X	9.444	5
44	MP2C	Z	-5.452	5
45	MP2C	Mx	-.002	5
46	MP2A	X	9.094	5
47	MP2A	Z	-5.251	5
48	MP2A	Mx	.003	5
49	MP2B	X	9.816	5
50	MP2B	Z	-5.667	5
51	MP2B	Mx	-.001	5
52	MP2C	X	9.444	5
53	MP2C	Z	-5.452	5
54	MP2C	Mx	-.006	5
55	OVP	X	104.559	1
56	OVP	Z	-60.367	1
57	OVP	Mx	0	1
58	MP2A	X	46.987	2
59	MP2A	Z	-27.128	2
60	MP2A	Mx	.023	2
61	MP2B	X	53.971	2
62	MP2B	Z	-31.16	2
63	MP2B	Mx	-.02	2
64	MP2C	X	50.37	2
65	MP2C	Z	-29.081	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
66	MP2C	Mx	-.022	2
67	MP1A	X	44.165	2
68	MP1A	Z	-25.499	2
69	MP1A	Mx	.022	2
70	MP1B	X	52.416	2
71	MP1B	Z	-30.263	2
72	MP1B	Mx	-.019	2
73	MP1C	X	48.162	2
74	MP1C	Z	-27.807	2
75	MP1C	Mx	-.021	2
76	MP3A	X	36.954	2
77	MP3A	Z	-21.335	2
78	MP3A	Mx	.018	2
79	MP3B	X	48.444	2
80	MP3B	Z	-27.969	2
81	MP3B	Mx	-.018	2
82	MP3C	X	42.52	2
83	MP3C	Z	-24.549	2
84	MP3C	Mx	-.019	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	219.027	2
2	MP2B	Z	0	2
3	MP2B	Mx	.019	2
4	MP2B	X	219.027	6
5	MP2B	Z	0	6
6	MP2B	Mx	.019	6
7	MP2A	X	111.021	2
8	MP2A	Z	0	2
9	MP2A	Mx	-.056	2
10	MP2A	X	111.021	6
11	MP2A	Z	0	6
12	MP2A	Mx	-.056	6
13	MP2C	X	114.8	2
14	MP2C	Z	0	2
15	MP2C	Mx	.057	2
16	MP2C	X	114.8	6
17	MP2C	Z	0	6
18	MP2C	Mx	.057	6
19	MP3A	X	19.201	3.5
20	MP3A	Z	0	3.5
21	MP3A	Mx	-.01	3.5
22	MP3A	X	19.201	4.5
23	MP3A	Z	0	4.5
24	MP3A	Mx	-.01	4.5
25	MP3B	X	44.023	3.5
26	MP3B	Z	0	3.5
27	MP3B	Mx	.004	3.5
28	MP3B	X	44.023	4.5
29	MP3B	Z	0	4.5
30	MP3B	Mx	.004	4.5
31	MP3C	X	19.973	3.5
32	MP3C	Z	0	3.5
33	MP3C	Mx	.01	3.5
34	MP3C	X	19.973	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP3C	Z	0	4.5
36	MP3C	Mx	.01	4.5
37	MP2A	X	9.883	5
38	MP2A	Z	0	5
39	MP2A	Mx	.005	5
40	MP2B	X	12.283	5
41	MP2B	Z	0	5
42	MP2B	Mx	-.004	5
43	MP2C	X	9.957	5
44	MP2C	Z	0	5
45	MP2C	Mx	-.004	5
46	MP2A	X	9.883	5
47	MP2A	Z	0	5
48	MP2A	Mx	.005	5
49	MP2B	X	12.283	5
50	MP2B	Z	0	5
51	MP2B	Mx	.002	5
52	MP2C	X	9.957	5
53	MP2C	Z	0	5
54	MP2C	Mx	-.005	5
55	OVP	X	134.971	1
56	OVP	Z	0	1
57	OVP	Mx	0	1
58	MP2A	X	48.27	2
59	MP2A	Z	0	2
60	MP2A	Mx	.024	2
61	MP2B	X	71.49	2
62	MP2B	Z	0	2
63	MP2B	Mx	-.006	2
64	MP2C	X	48.992	2
65	MP2C	Z	0	2
66	MP2C	Mx	-.024	2
67	MP1A	X	43.926	2
68	MP1A	Z	0	2
69	MP1A	Mx	.022	2
70	MP1B	X	71.359	2
71	MP1B	Z	0	2
72	MP1B	Mx	-.006	2
73	MP1C	X	44.779	2
74	MP1C	Z	0	2
75	MP1C	Mx	-.022	2
76	MP3A	X	32.824	2
77	MP3A	Z	0	2
78	MP3A	Mx	.016	2
79	MP3B	X	71.025	2
80	MP3B	Z	0	2
81	MP3B	Mx	-.006	2
82	MP3C	X	34.011	2
83	MP3C	Z	0	2
84	MP3C	Mx	-.017	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	180.719	2
2	MP2B	Z	104.338	2
3	MP2B	Mx	-.036	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP2B	X	180.719	6
5	MP2B	Z	104.338	6
6	MP2B	Mx	-.036	6
7	MP2A	X	123.278	2
8	MP2A	Z	71.174	2
9	MP2A	Mx	-.062	2
10	MP2A	X	123.278	6
11	MP2A	Z	71.174	6
12	MP2A	Mx	-.062	6
13	MP2C	X	108.842	2
14	MP2C	Z	62.84	2
15	MP2C	Mx	.059	2
16	MP2C	X	108.842	6
17	MP2C	Z	62.84	6
18	MP2C	Mx	.059	6
19	MP3A	X	22.17	3.5
20	MP3A	Z	12.8	3.5
21	MP3A	Mx	-.011	3.5
22	MP3A	X	22.17	4.5
23	MP3A	Z	12.8	4.5
24	MP3A	Mx	-.011	4.5
25	MP3B	X	36.201	3.5
26	MP3B	Z	20.9	3.5
27	MP3B	Mx	-.007	3.5
28	MP3B	X	36.201	4.5
29	MP3B	Z	20.9	4.5
30	MP3B	Mx	-.007	4.5
31	MP3C	X	19.221	3.5
32	MP3C	Z	11.097	3.5
33	MP3C	Mx	.01	3.5
34	MP3C	X	19.221	4.5
35	MP3C	Z	11.097	4.5
36	MP3C	Mx	.01	4.5
37	MP2A	X	9.094	5
38	MP2A	Z	5.251	5
39	MP2A	Mx	.003	5
40	MP2B	X	10.451	5
41	MP2B	Z	6.034	5
42	MP2B	Mx	-.000771	5
43	MP2C	X	8.809	5
44	MP2C	Z	5.086	5
45	MP2C	Mx	-.006	5
46	MP2A	X	9.094	5
47	MP2A	Z	5.251	5
48	MP2A	Mx	.006	5
49	MP2B	X	10.451	5
50	MP2B	Z	6.034	5
51	MP2B	Mx	.005	5
52	MP2C	X	8.809	5
53	MP2C	Z	5.086	5
54	MP2C	Mx	-.004	5
55	OVP	X	132.012	1
56	OVP	Z	76.217	1
57	OVP	Mx	0	1
58	MP2A	X	46.987	2
59	MP2A	Z	27.128	2
60	MP2A	Mx	.023	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
61	MP2B	X	60.112	2
62	MP2B	Z	34.706	2
63	MP2B	Mx	.012	2
64	MP2C	X	44.229	2
65	MP2C	Z	25.535	2
66	MP2C	Mx	-.024	2
67	MP1A	X	44.165	2
68	MP1A	Z	25.499	2
69	MP1A	Mx	.022	2
70	MP1B	X	59.672	2
71	MP1B	Z	34.452	2
72	MP1B	Mx	.012	2
73	MP1C	X	40.907	2
74	MP1C	Z	23.617	2
75	MP1C	Mx	-.022	2
76	MP3A	X	36.954	2
77	MP3A	Z	21.335	2
78	MP3A	Mx	.018	2
79	MP3B	X	58.547	2
80	MP3B	Z	33.802	2
81	MP3B	Mx	.012	2
82	MP3C	X	32.416	2
83	MP3C	Z	18.716	2
84	MP3C	Mx	-.018	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	76.331	2
2	MP2B	Z	132.21	2
3	MP2B	Mx	-.058	2
4	MP2B	X	76.331	6
5	MP2B	Z	132.21	6
6	MP2B	Mx	-.058	6
7	MP2A	X	102.502	2
8	MP2A	Z	177.538	2
9	MP2A	Mx	-.051	2
10	MP2A	X	102.502	6
11	MP2A	Z	177.538	6
12	MP2A	Mx	-.051	6
13	MP2C	X	92.278	2
14	MP2C	Z	159.83	2
15	MP2C	Mx	.059	2
16	MP2C	X	92.278	6
17	MP2C	Z	159.83	6
18	MP2C	Mx	.059	6
19	MP3A	X	19.198	3.5
20	MP3A	Z	33.252	3.5
21	MP3A	Mx	-.01	3.5
22	MP3A	X	19.198	4.5
23	MP3A	Z	33.252	4.5
24	MP3A	Mx	-.01	4.5
25	MP3B	X	14.888	3.5
26	MP3B	Z	25.786	3.5
27	MP3B	Mx	-.011	3.5
28	MP3B	X	14.888	4.5
29	MP3B	Z	25.786	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP3B	Mx	-.011	4.5
31	MP3C	X	17.11	3.5
32	MP3C	Z	29.635	3.5
33	MP3C	Mx	.011	3.5
34	MP3C	X	17.11	4.5
35	MP3C	Z	29.635	4.5
36	MP3C	Mx	.011	4.5
37	MP2A	X	5.869	5
38	MP2A	Z	10.166	5
39	MP2A	Mx	.000393	5
40	MP2B	X	5.452	5
41	MP2B	Z	9.444	5
42	MP2B	Mx	.002	5
43	MP2C	X	5.667	5
44	MP2C	Z	9.816	5
45	MP2C	Mx	-.006	5
46	MP2A	X	5.869	5
47	MP2A	Z	10.166	5
48	MP2A	Mx	.005	5
49	MP2B	X	5.452	5
50	MP2B	Z	9.444	5
51	MP2B	Mx	.006	5
52	MP2C	X	5.667	5
53	MP2C	Z	9.816	5
54	MP2C	Mx	-.001	5
55	OVP	X	77.83	1
56	OVP	Z	134.806	1
57	OVP	Mx	0	1
58	MP2A	X	33.113	2
59	MP2A	Z	57.354	2
60	MP2A	Mx	.017	2
61	MP2B	X	29.081	2
62	MP2B	Z	50.37	2
63	MP2B	Mx	.022	2
64	MP2C	X	31.16	2
65	MP2C	Z	53.971	2
66	MP2C	Mx	-.02	2
67	MP1A	X	32.57	2
68	MP1A	Z	56.413	2
69	MP1A	Mx	.016	2
70	MP1B	X	27.807	2
71	MP1B	Z	48.162	2
72	MP1B	Mx	.021	2
73	MP1C	X	30.263	2
74	MP1C	Z	52.416	2
75	MP1C	Mx	-.019	2
76	MP3A	X	31.183	2
77	MP3A	Z	54.01	2
78	MP3A	Mx	.016	2
79	MP3B	X	24.549	2
80	MP3B	Z	42.52	2
81	MP3B	Mx	.019	2
82	MP3C	X	27.969	2
83	MP3C	Z	48.444	2
84	MP3C	Mx	-.018	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	0	2
2	MP2B	Z	107	2
3	MP2B	Mx	-.053	2
4	MP2B	X	0	6
5	MP2B	Z	107	6
6	MP2B	Mx	-.053	6
7	MP2A	X	0	2
8	MP2A	Z	236.331	2
9	MP2A	Mx	0	2
10	MP2A	X	0	6
11	MP2A	Z	236.331	6
12	MP2A	Mx	0	6
13	MP2C	X	0	2
14	MP2C	Z	232.552	2
15	MP2C	Mx	.02	2
16	MP2C	X	0	6
17	MP2C	Z	232.552	6
18	MP2C	Mx	.02	6
19	MP3A	X	0	3.5
20	MP3A	Z	44.795	3.5
21	MP3A	Mx	0	3.5
22	MP3A	X	0	4.5
23	MP3A	Z	44.795	4.5
24	MP3A	Mx	0	4.5
25	MP3B	X	0	3.5
26	MP3B	Z	19.973	3.5
27	MP3B	Mx	-.01	3.5
28	MP3B	X	0	4.5
29	MP3B	Z	19.973	4.5
30	MP3B	Mx	-.01	4.5
31	MP3C	X	0	3.5
32	MP3C	Z	44.023	3.5
33	MP3C	Mx	.004	3.5
34	MP3C	X	0	4.5
35	MP3C	Z	44.023	4.5
36	MP3C	Mx	.004	4.5
37	MP2A	X	0	5
38	MP2A	Z	12.357	5
39	MP2A	Mx	-.003	5
40	MP2B	X	0	5
41	MP2B	Z	9.957	5
42	MP2B	Mx	.004	5
43	MP2C	X	0	5
44	MP2C	Z	12.283	5
45	MP2C	Mx	-.004	5
46	MP2A	X	0	5
47	MP2A	Z	12.357	5
48	MP2A	Mx	.003	5
49	MP2B	X	0	5
50	MP2B	Z	9.957	5
51	MP2B	Mx	.005	5
52	MP2C	X	0	5
53	MP2C	Z	12.283	5
54	MP2C	Mx	.002	5
55	OVP	X	0	1
56	OVP	Z	141.425	1
57	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2A	X	0	2
59	MP2A	Z	72.212	2
60	MP2A	Mx	0	2
61	MP2B	X	0	2
62	MP2B	Z	48.992	2
63	MP2B	Mx	.024	2
64	MP2C	X	0	2
65	MP2C	Z	71.49	2
66	MP2C	Mx	-.006	2
67	MP1A	X	0	2
68	MP1A	Z	72.212	2
69	MP1A	Mx	0	2
70	MP1B	X	0	2
71	MP1B	Z	44.779	2
72	MP1B	Mx	.022	2
73	MP1C	X	0	2
74	MP1C	Z	71.359	2
75	MP1C	Mx	-.006	2
76	MP3A	X	0	2
77	MP3A	Z	72.212	2
78	MP3A	Mx	0	2
79	MP3B	X	0	2
80	MP3B	Z	34.011	2
81	MP3B	Mx	.017	2
82	MP3C	X	0	2
83	MP3C	Z	71.025	2
84	MP3C	Mx	-.006	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-58.675	2
2	MP2B	Z	101.629	2
3	MP2B	Mx	-.055	2
4	MP2B	X	-58.675	6
5	MP2B	Z	101.629	6
6	MP2B	Mx	-.055	6
7	MP2A	X	-102.502	2
8	MP2A	Z	177.538	2
9	MP2A	Mx	.051	2
10	MP2A	X	-102.502	6
11	MP2A	Z	177.538	6
12	MP2A	Mx	.051	6
13	MP2C	X	-110.836	2
14	MP2C	Z	191.974	2
15	MP2C	Mx	-.038	2
16	MP2C	X	-110.836	6
17	MP2C	Z	191.974	6
18	MP2C	Mx	-.038	6
19	MP3A	X	-19.198	3.5
20	MP3A	Z	33.252	3.5
21	MP3A	Mx	.01	3.5
22	MP3A	X	-19.198	4.5
23	MP3A	Z	33.252	4.5
24	MP3A	Mx	.01	4.5
25	MP3B	X	-11.097	3.5
26	MP3B	Z	19.221	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP3B	Mx	-.01	3.5
28	MP3B	X	-11.097	4.5
29	MP3B	Z	19.221	4.5
30	MP3B	Mx	-.01	4.5
31	MP3C	X	-20.9	3.5
32	MP3C	Z	36.201	3.5
33	MP3C	Mx	-.007	3.5
34	MP3C	X	-20.9	4.5
35	MP3C	Z	36.201	4.5
36	MP3C	Mx	-.007	4.5
37	MP2A	X	-5.869	5
38	MP2A	Z	10.166	5
39	MP2A	Mx	-.005	5
40	MP2B	X	-5.086	5
41	MP2B	Z	8.809	5
42	MP2B	Mx	.006	5
43	MP2C	X	-6.034	5
44	MP2C	Z	10.451	5
45	MP2C	Mx	-.000771	5
46	MP2A	X	-5.869	5
47	MP2A	Z	10.166	5
48	MP2A	Mx	-.000393	5
49	MP2B	X	-5.086	5
50	MP2B	Z	8.809	5
51	MP2B	Mx	.004	5
52	MP2C	X	-6.034	5
53	MP2C	Z	10.451	5
54	MP2C	Mx	.005	5
55	OVP	X	-61.981	1
56	OVP	Z	107.354	1
57	OVP	Mx	0	1
58	MP2A	X	-33.113	2
59	MP2A	Z	57.354	2
60	MP2A	Mx	-.017	2
61	MP2B	X	-25.535	2
62	MP2B	Z	44.229	2
63	MP2B	Mx	.024	2
64	MP2C	X	-34.706	2
65	MP2C	Z	60.112	2
66	MP2C	Mx	.012	2
67	MP1A	X	-32.57	2
68	MP1A	Z	56.413	2
69	MP1A	Mx	-.016	2
70	MP1B	X	-23.617	2
71	MP1B	Z	40.907	2
72	MP1B	Mx	.022	2
73	MP1C	X	-34.452	2
74	MP1C	Z	59.672	2
75	MP1C	Mx	.012	2
76	MP3A	X	-31.183	2
77	MP3A	Z	54.01	2
78	MP3A	Mx	-.016	2
79	MP3B	X	-18.716	2
80	MP3B	Z	32.416	2
81	MP3B	Mx	.018	2
82	MP3C	X	-33.802	2
83	MP3C	Z	58.547	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
84	MP3C	Mx	.012	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-150.138	2
2	MP2B	Z	86.682	2
3	MP2B	Mx	-.056	2
4	MP2B	X	-150.138	6
5	MP2B	Z	86.682	6
6	MP2B	Mx	-.056	6
7	MP2A	X	-123.278	2
8	MP2A	Z	71.174	2
9	MP2A	Mx	.062	2
10	MP2A	X	-123.278	6
11	MP2A	Z	71.174	6
12	MP2A	Mx	.062	6
13	MP2C	X	-140.986	2
14	MP2C	Z	81.398	2
15	MP2C	Mx	-.062	2
16	MP2C	X	-140.986	6
17	MP2C	Z	81.398	6
18	MP2C	Mx	-.062	6
19	MP3A	X	-22.17	3.5
20	MP3A	Z	12.8	3.5
21	MP3A	Mx	.011	3.5
22	MP3A	X	-22.17	4.5
23	MP3A	Z	12.8	4.5
24	MP3A	Mx	.011	4.5
25	MP3B	X	-29.635	3.5
26	MP3B	Z	17.11	3.5
27	MP3B	Mx	-.011	3.5
28	MP3B	X	-29.635	4.5
29	MP3B	Z	17.11	4.5
30	MP3B	Mx	-.011	4.5
31	MP3C	X	-25.786	3.5
32	MP3C	Z	14.888	3.5
33	MP3C	Mx	-.011	3.5
34	MP3C	X	-25.786	4.5
35	MP3C	Z	14.888	4.5
36	MP3C	Mx	-.011	4.5
37	MP2A	X	-9.094	5
38	MP2A	Z	5.251	5
39	MP2A	Mx	-.006	5
40	MP2B	X	-9.816	5
41	MP2B	Z	5.667	5
42	MP2B	Mx	.006	5
43	MP2C	X	-9.444	5
44	MP2C	Z	5.452	5
45	MP2C	Mx	.002	5
46	MP2A	X	-9.094	5
47	MP2A	Z	5.251	5
48	MP2A	Mx	-.003	5
49	MP2B	X	-9.816	5
50	MP2B	Z	5.667	5
51	MP2B	Mx	.001	5
52	MP2C	X	-9.444	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP2C	Z	5.452	5
54	MP2C	Mx	.006	5
55	OVP	X	-104.559	1
56	OVP	Z	60.367	1
57	OVP	Mx	0	1
58	MP2A	X	-46.987	2
59	MP2A	Z	27.128	2
60	MP2A	Mx	-.023	2
61	MP2B	X	-53.971	2
62	MP2B	Z	31.16	2
63	MP2B	Mx	.02	2
64	MP2C	X	-50.37	2
65	MP2C	Z	29.081	2
66	MP2C	Mx	.022	2
67	MP1A	X	-44.165	2
68	MP1A	Z	25.499	2
69	MP1A	Mx	-.022	2
70	MP1B	X	-52.416	2
71	MP1B	Z	30.263	2
72	MP1B	Mx	.019	2
73	MP1C	X	-48.162	2
74	MP1C	Z	27.807	2
75	MP1C	Mx	.021	2
76	MP3A	X	-36.954	2
77	MP3A	Z	21.335	2
78	MP3A	Mx	-.018	2
79	MP3B	X	-48.444	2
80	MP3B	Z	27.969	2
81	MP3B	Mx	.018	2
82	MP3C	X	-42.52	2
83	MP3C	Z	24.549	2
84	MP3C	Mx	.019	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-219.027	2
2	MP2B	Z	0	2
3	MP2B	Mx	-.019	2
4	MP2B	X	-219.027	6
5	MP2B	Z	0	6
6	MP2B	Mx	-.019	6
7	MP2A	X	-111.021	2
8	MP2A	Z	0	2
9	MP2A	Mx	.056	2
10	MP2A	X	-111.021	6
11	MP2A	Z	0	6
12	MP2A	Mx	.056	6
13	MP2C	X	-114.8	2
14	MP2C	Z	0	2
15	MP2C	Mx	-.057	2
16	MP2C	X	-114.8	6
17	MP2C	Z	0	6
18	MP2C	Mx	-.057	6
19	MP3A	X	-19.201	3.5
20	MP3A	Z	0	3.5
21	MP3A	Mx	.01	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP3A	X	-19.201	4.5
23	MP3A	Z	0	4.5
24	MP3A	Mx	.01	4.5
25	MP3B	X	-44.023	3.5
26	MP3B	Z	0	3.5
27	MP3B	Mx	-.004	3.5
28	MP3B	X	-44.023	4.5
29	MP3B	Z	0	4.5
30	MP3B	Mx	-.004	4.5
31	MP3C	X	-19.973	3.5
32	MP3C	Z	0	3.5
33	MP3C	Mx	-.01	3.5
34	MP3C	X	-19.973	4.5
35	MP3C	Z	0	4.5
36	MP3C	Mx	-.01	4.5
37	MP2A	X	-9.883	5
38	MP2A	Z	0	5
39	MP2A	Mx	-.005	5
40	MP2B	X	-12.283	5
41	MP2B	Z	0	5
42	MP2B	Mx	.004	5
43	MP2C	X	-9.957	5
44	MP2C	Z	0	5
45	MP2C	Mx	.004	5
46	MP2A	X	-9.883	5
47	MP2A	Z	0	5
48	MP2A	Mx	-.005	5
49	MP2B	X	-12.283	5
50	MP2B	Z	0	5
51	MP2B	Mx	-.002	5
52	MP2C	X	-9.957	5
53	MP2C	Z	0	5
54	MP2C	Mx	.005	5
55	OVP	X	-134.971	1
56	OVP	Z	0	1
57	OVP	Mx	0	1
58	MP2A	X	-48.27	2
59	MP2A	Z	0	2
60	MP2A	Mx	-.024	2
61	MP2B	X	-71.49	2
62	MP2B	Z	0	2
63	MP2B	Mx	.006	2
64	MP2C	X	-48.992	2
65	MP2C	Z	0	2
66	MP2C	Mx	.024	2
67	MP1A	X	-43.926	2
68	MP1A	Z	0	2
69	MP1A	Mx	-.022	2
70	MP1B	X	-71.359	2
71	MP1B	Z	0	2
72	MP1B	Mx	.006	2
73	MP1C	X	-44.779	2
74	MP1C	Z	0	2
75	MP1C	Mx	.022	2
76	MP3A	X	-32.824	2
77	MP3A	Z	0	2
78	MP3A	Mx	-.016	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
79	MP3B	X	-71.025	2
80	MP3B	Z	0	2
81	MP3B	Mx	.006	2
82	MP3C	X	-34.011	2
83	MP3C	Z	0	2
84	MP3C	Mx	.017	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-180.719	2
2	MP2B	Z	-104.338	2
3	MP2B	Mx	.036	2
4	MP2B	X	-180.719	6
5	MP2B	Z	-104.338	6
6	MP2B	Mx	.036	6
7	MP2A	X	-123.278	2
8	MP2A	Z	-71.174	2
9	MP2A	Mx	.062	2
10	MP2A	X	-123.278	6
11	MP2A	Z	-71.174	6
12	MP2A	Mx	.062	6
13	MP2C	X	-108.842	2
14	MP2C	Z	-62.84	2
15	MP2C	Mx	-.059	2
16	MP2C	X	-108.842	6
17	MP2C	Z	-62.84	6
18	MP2C	Mx	-.059	6
19	MP3A	X	-22.17	3.5
20	MP3A	Z	-12.8	3.5
21	MP3A	Mx	.011	3.5
22	MP3A	X	-22.17	4.5
23	MP3A	Z	-12.8	4.5
24	MP3A	Mx	.011	4.5
25	MP3B	X	-36.201	3.5
26	MP3B	Z	-20.9	3.5
27	MP3B	Mx	.007	3.5
28	MP3B	X	-36.201	4.5
29	MP3B	Z	-20.9	4.5
30	MP3B	Mx	.007	4.5
31	MP3C	X	-19.221	3.5
32	MP3C	Z	-11.097	3.5
33	MP3C	Mx	-.01	3.5
34	MP3C	X	-19.221	4.5
35	MP3C	Z	-11.097	4.5
36	MP3C	Mx	-.01	4.5
37	MP2A	X	-9.094	5
38	MP2A	Z	-5.251	5
39	MP2A	Mx	-.003	5
40	MP2B	X	-10.451	5
41	MP2B	Z	-6.034	5
42	MP2B	Mx	.000771	5
43	MP2C	X	-8.809	5
44	MP2C	Z	-5.086	5
45	MP2C	Mx	.006	5
46	MP2A	X	-9.094	5
47	MP2A	Z	-5.251	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP2A	Mx	-.006	5
49	MP2B	X	-10.451	5
50	MP2B	Z	-6.034	5
51	MP2B	Mx	-.005	5
52	MP2C	X	-8.809	5
53	MP2C	Z	-5.086	5
54	MP2C	Mx	.004	5
55	OVP	X	-132.012	1
56	OVP	Z	-76.217	1
57	OVP	Mx	0	1
58	MP2A	X	-46.987	2
59	MP2A	Z	-27.128	2
60	MP2A	Mx	-.023	2
61	MP2B	X	-60.112	2
62	MP2B	Z	-34.706	2
63	MP2B	Mx	-.012	2
64	MP2C	X	-44.229	2
65	MP2C	Z	-25.535	2
66	MP2C	Mx	.024	2
67	MP1A	X	-44.165	2
68	MP1A	Z	-25.499	2
69	MP1A	Mx	-.022	2
70	MP1B	X	-59.672	2
71	MP1B	Z	-34.452	2
72	MP1B	Mx	-.012	2
73	MP1C	X	-40.907	2
74	MP1C	Z	-23.617	2
75	MP1C	Mx	.022	2
76	MP3A	X	-36.954	2
77	MP3A	Z	-21.335	2
78	MP3A	Mx	-.018	2
79	MP3B	X	-58.547	2
80	MP3B	Z	-33.802	2
81	MP3B	Mx	-.012	2
82	MP3C	X	-32.416	2
83	MP3C	Z	-18.716	2
84	MP3C	Mx	.018	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-76.331	2
2	MP2B	Z	-132.21	2
3	MP2B	Mx	.058	2
4	MP2B	X	-76.331	6
5	MP2B	Z	-132.21	6
6	MP2B	Mx	.058	6
7	MP2A	X	-102.502	2
8	MP2A	Z	-177.538	2
9	MP2A	Mx	.051	2
10	MP2A	X	-102.502	6
11	MP2A	Z	-177.538	6
12	MP2A	Mx	.051	6
13	MP2C	X	-92.278	2
14	MP2C	Z	-159.83	2
15	MP2C	Mx	-.059	2
16	MP2C	X	-92.278	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP2C	Z	-159.83	6
18	MP2C	Mx	-.059	6
19	MP3A	X	-19.198	3.5
20	MP3A	Z	-33.252	3.5
21	MP3A	Mx	.01	3.5
22	MP3A	X	-19.198	4.5
23	MP3A	Z	-33.252	4.5
24	MP3A	Mx	.01	4.5
25	MP3B	X	-14.888	3.5
26	MP3B	Z	-25.786	3.5
27	MP3B	Mx	.011	3.5
28	MP3B	X	-14.888	4.5
29	MP3B	Z	-25.786	4.5
30	MP3B	Mx	.011	4.5
31	MP3C	X	-17.11	3.5
32	MP3C	Z	-29.635	3.5
33	MP3C	Mx	-.011	3.5
34	MP3C	X	-17.11	4.5
35	MP3C	Z	-29.635	4.5
36	MP3C	Mx	-.011	4.5
37	MP2A	X	-5.869	5
38	MP2A	Z	-10.166	5
39	MP2A	Mx	-.000393	5
40	MP2B	X	-5.452	5
41	MP2B	Z	-9.444	5
42	MP2B	Mx	-.002	5
43	MP2C	X	-5.667	5
44	MP2C	Z	-9.816	5
45	MP2C	Mx	.006	5
46	MP2A	X	-5.869	5
47	MP2A	Z	-10.166	5
48	MP2A	Mx	-.005	5
49	MP2B	X	-5.452	5
50	MP2B	Z	-9.444	5
51	MP2B	Mx	-.006	5
52	MP2C	X	-5.667	5
53	MP2C	Z	-9.816	5
54	MP2C	Mx	.001	5
55	OVP	X	-77.83	1
56	OVP	Z	-134.806	1
57	OVP	Mx	0	1
58	MP2A	X	-33.113	2
59	MP2A	Z	-57.354	2
60	MP2A	Mx	-.017	2
61	MP2B	X	-29.081	2
62	MP2B	Z	-50.37	2
63	MP2B	Mx	-.022	2
64	MP2C	X	-31.16	2
65	MP2C	Z	-53.971	2
66	MP2C	Mx	.02	2
67	MP1A	X	-32.57	2
68	MP1A	Z	-56.413	2
69	MP1A	Mx	-.016	2
70	MP1B	X	-27.807	2
71	MP1B	Z	-48.162	2
72	MP1B	Mx	-.021	2
73	MP1C	X	-30.263	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP1C	Z	-52.416	2
75	MP1C	Mx	.019	2
76	MP3A	X	-31.183	2
77	MP3A	Z	-54.01	2
78	MP3A	Mx	-.016	2
79	MP3B	X	-24.549	2
80	MP3B	Z	-42.52	2
81	MP3B	Mx	-.019	2
82	MP3C	X	-27.969	2
83	MP3C	Z	-48.444	2
84	MP3C	Mx	.018	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	0	2
2	MP2B	Z	-15.134	2
3	MP2B	Mx	.007	2
4	MP2B	X	0	6
5	MP2B	Z	-15.134	6
6	MP2B	Mx	.007	6
7	MP2A	X	0	2
8	MP2A	Z	-31.484	2
9	MP2A	Mx	0	2
10	MP2A	X	0	6
11	MP2A	Z	-31.484	6
12	MP2A	Mx	0	6
13	MP2C	X	0	2
14	MP2C	Z	-31.006	2
15	MP2C	Mx	-.003	2
16	MP2C	X	0	6
17	MP2C	Z	-31.006	6
18	MP2C	Mx	-.003	6
19	MP3A	X	0	3.5
20	MP3A	Z	-6.54	3.5
21	MP3A	Mx	0	3.5
22	MP3A	X	0	4.5
23	MP3A	Z	-6.54	4.5
24	MP3A	Mx	0	4.5
25	MP3B	X	0	3.5
26	MP3B	Z	-3.219	3.5
27	MP3B	Mx	.002	3.5
28	MP3B	X	0	4.5
29	MP3B	Z	-3.219	4.5
30	MP3B	Mx	.002	4.5
31	MP3C	X	0	3.5
32	MP3C	Z	-6.436	3.5
33	MP3C	Mx	-.000559	3.5
34	MP3C	X	0	4.5
35	MP3C	Z	-6.436	4.5
36	MP3C	Mx	-.000559	4.5
37	MP2A	X	0	5
38	MP2A	Z	-2.336	5
39	MP2A	Mx	.000584	5
40	MP2B	X	0	5
41	MP2B	Z	-2.002	5
42	MP2B	Mx	-.000899	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
43	MP2C	X	0	5
44	MP2C	Z	-2.325	5
45	MP2C	Mx	.000774	5
46	MP2A	X	0	5
47	MP2A	Z	-2.336	5
48	MP2A	Mx	-.000584	5
49	MP2B	X	0	5
50	MP2B	Z	-2.002	5
51	MP2B	Mx	-.001	5
52	MP2C	X	0	5
53	MP2C	Z	-2.325	5
54	MP2C	Mx	-.000371	5
55	OVP	X	0	1
56	OVP	Z	-19.925	1
57	OVP	Mx	0	1
58	MP2A	X	0	2
59	MP2A	Z	-10.661	2
60	MP2A	Mx	0	2
61	MP2B	X	0	2
62	MP2B	Z	-7.517	2
63	MP2B	Mx	-.004	2
64	MP2C	X	0	2
65	MP2C	Z	-10.563	2
66	MP2C	Mx	.000917	2
67	MP1A	X	0	2
68	MP1A	Z	-10.661	2
69	MP1A	Mx	0	2
70	MP1B	X	0	2
71	MP1B	Z	-6.952	2
72	MP1B	Mx	-.003	2
73	MP1C	X	0	2
74	MP1C	Z	-10.546	2
75	MP1C	Mx	.000916	2
76	MP3A	X	0	2
77	MP3A	Z	-10.661	2
78	MP3A	Mx	0	2
79	MP3B	X	0	2
80	MP3B	Z	-5.505	2
81	MP3B	Mx	-.003	2
82	MP3C	X	0	2
83	MP3C	Z	-10.501	2
84	MP3C	Mx	.000912	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	8.22	2
2	MP2B	Z	-14.237	2
3	MP2B	Mx	.008	2
4	MP2B	X	8.22	6
5	MP2B	Z	-14.237	6
6	MP2B	Mx	.008	6
7	MP2A	X	13.762	2
8	MP2A	Z	-23.836	2
9	MP2A	Mx	-.007	2
10	MP2A	X	13.762	6
11	MP2A	Z	-23.836	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP2A	Mx	-.007	6
13	MP2C	X	14.815	2
14	MP2C	Z	-25.661	2
15	MP2C	Mx	.005	2
16	MP2C	X	14.815	6
17	MP2C	Z	-25.661	6
18	MP2C	Mx	.005	6
19	MP3A	X	2.842	3.5
20	MP3A	Z	-4.922	3.5
21	MP3A	Mx	-.001	3.5
22	MP3A	X	2.842	4.5
23	MP3A	Z	-4.922	4.5
24	MP3A	Mx	-.001	4.5
25	MP3B	X	1.758	3.5
26	MP3B	Z	-3.045	3.5
27	MP3B	Mx	.002	3.5
28	MP3B	X	1.758	4.5
29	MP3B	Z	-3.045	4.5
30	MP3B	Mx	.002	4.5
31	MP3C	X	3.07	3.5
32	MP3C	Z	-5.317	3.5
33	MP3C	Mx	.001	3.5
34	MP3C	X	3.07	4.5
35	MP3C	Z	-5.317	4.5
36	MP3C	Mx	.001	4.5
37	MP2A	X	1.125	5
38	MP2A	Z	-1.948	5
39	MP2A	Mx	.001	5
40	MP2B	X	1.016	5
41	MP2B	Z	-1.759	5
42	MP2B	Mx	-.001	5
43	MP2C	X	1.148	5
44	MP2C	Z	-1.988	5
45	MP2C	Mx	.000147	5
46	MP2A	X	1.125	5
47	MP2A	Z	-1.948	5
48	MP2A	Mx	7.6e-5	5
49	MP2B	X	1.016	5
50	MP2B	Z	-1.759	5
51	MP2B	Mx	-.000781	5
52	MP2C	X	1.148	5
53	MP2C	Z	-1.988	5
54	MP2C	Mx	-.000932	5
55	OVP	X	8.842	1
56	OVP	Z	-15.315	1
57	OVP	Mx	0	1
58	MP2A	X	4.925	2
59	MP2A	Z	-8.531	2
60	MP2A	Mx	.002	2
61	MP2B	X	3.899	2
62	MP2B	Z	-6.754	2
63	MP2B	Mx	-.004	2
64	MP2C	X	5.141	2
65	MP2C	Z	-8.904	2
66	MP2C	Mx	-.002	2
67	MP1A	X	4.852	2
68	MP1A	Z	-8.405	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP1A	Mx	.002	2
70	MP1B	X	3.642	2
71	MP1B	Z	-6.308	2
72	MP1B	Mx	-.003	2
73	MP1C	X	5.107	2
74	MP1C	Z	-8.845	2
75	MP1C	Mx	-.002	2
76	MP3A	X	4.666	2
77	MP3A	Z	-8.082	2
78	MP3A	Mx	.002	2
79	MP3B	X	2.983	2
80	MP3B	Z	-5.168	2
81	MP3B	Mx	-.003	2
82	MP3C	X	5.02	2
83	MP3C	Z	-8.694	2
84	MP3C	Mx	-.002	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	20.356	2
2	MP2B	Z	-11.752	2
3	MP2B	Mx	.008	2
4	MP2B	X	20.356	6
5	MP2B	Z	-11.752	6
6	MP2B	Mx	.008	6
7	MP2A	X	16.976	2
8	MP2A	Z	-9.801	2
9	MP2A	Mx	-.008	2
10	MP2A	X	16.976	6
11	MP2A	Z	-9.801	6
12	MP2A	Mx	-.008	6
13	MP2C	X	19.214	2
14	MP2C	Z	-11.093	2
15	MP2C	Mx	.008	2
16	MP2C	X	19.214	6
17	MP2C	Z	-11.093	6
18	MP2C	Mx	.008	6
19	MP3A	X	3.439	3.5
20	MP3A	Z	-1.986	3.5
21	MP3A	Mx	-.002	3.5
22	MP3A	X	3.439	4.5
23	MP3A	Z	-1.986	4.5
24	MP3A	Mx	-.002	4.5
25	MP3B	X	4.438	3.5
26	MP3B	Z	-2.562	3.5
27	MP3B	Mx	.002	3.5
28	MP3B	X	4.438	4.5
29	MP3B	Z	-2.562	4.5
30	MP3B	Mx	.002	4.5
31	MP3C	X	3.923	3.5
32	MP3C	Z	-2.265	3.5
33	MP3C	Mx	.002	3.5
34	MP3C	X	3.923	4.5
35	MP3C	Z	-2.265	4.5
36	MP3C	Mx	.002	4.5
37	MP2A	X	1.799	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
38	MP2A	Z	-1.039	5
39	MP2A	Mx	.001	5
40	MP2B	X	1.9	5
41	MP2B	Z	-1.097	5
42	MP2B	Mx	-.001	5
43	MP2C	X	1.848	5
44	MP2C	Z	-1.067	5
45	MP2C	Mx	-.000474	5
46	MP2A	X	1.799	5
47	MP2A	Z	-1.039	5
48	MP2A	Mx	.00064	5
49	MP2B	X	1.9	5
50	MP2B	Z	-1.097	5
51	MP2B	Mx	-.000285	5
52	MP2C	X	1.848	5
53	MP2C	Z	-1.067	5
54	MP2C	Mx	-.001	5
55	OVP	X	14.957	1
56	OVP	Z	-8.635	1
57	OVP	Mx	0	1
58	MP2A	X	7.127	2
59	MP2A	Z	-4.115	2
60	MP2A	Mx	.004	2
61	MP2B	X	8.073	2
62	MP2B	Z	-4.661	2
63	MP2B	Mx	-.003	2
64	MP2C	X	7.585	2
65	MP2C	Z	-4.379	2
66	MP2C	Mx	-.003	2
67	MP1A	X	6.748	2
68	MP1A	Z	-3.896	2
69	MP1A	Mx	.003	2
70	MP1B	X	7.864	2
71	MP1B	Z	-4.54	2
72	MP1B	Mx	-.003	2
73	MP1C	X	7.289	2
74	MP1C	Z	-4.208	2
75	MP1C	Mx	-.003	2
76	MP3A	X	5.78	2
77	MP3A	Z	-3.337	2
78	MP3A	Mx	.003	2
79	MP3B	X	7.331	2
80	MP3B	Z	-4.232	2
81	MP3B	Mx	-.003	2
82	MP3C	X	6.531	2
83	MP3C	Z	-3.771	2
84	MP3C	Mx	-.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	29.264	2
2	MP2B	Z	0	2
3	MP2B	Mx	.003	2
4	MP2B	X	29.264	6
5	MP2B	Z	0	6
6	MP2B	Mx	.003	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP2A	X	15.641	2
8	MP2A	Z	0	2
9	MP2A	Mx	-.008	2
10	MP2A	X	15.641	6
11	MP2A	Z	0	6
12	MP2A	Mx	-.008	6
13	MP2C	X	16.119	2
14	MP2C	Z	0	2
15	MP2C	Mx	.008	2
16	MP2C	X	16.119	6
17	MP2C	Z	0	6
18	MP2C	Mx	.008	6
19	MP3A	X	3.115	3.5
20	MP3A	Z	0	3.5
21	MP3A	Mx	-.002	3.5
22	MP3A	X	3.115	4.5
23	MP3A	Z	0	4.5
24	MP3A	Mx	-.002	4.5
25	MP3B	X	6.436	3.5
26	MP3B	Z	0	3.5
27	MP3B	Mx	.000559	3.5
28	MP3B	X	6.436	4.5
29	MP3B	Z	0	4.5
30	MP3B	Mx	.000559	4.5
31	MP3C	X	3.219	3.5
32	MP3C	Z	0	3.5
33	MP3C	Mx	.002	3.5
34	MP3C	X	3.219	4.5
35	MP3C	Z	0	4.5
36	MP3C	Mx	.002	4.5
37	MP2A	X	1.991	5
38	MP2A	Z	0	5
39	MP2A	Mx	.000996	5
40	MP2B	X	2.325	5
41	MP2B	Z	0	5
42	MP2B	Mx	-.000774	5
43	MP2C	X	2.002	5
44	MP2C	Z	0	5
45	MP2C	Mx	-.000899	5
46	MP2A	X	1.991	5
47	MP2A	Z	0	5
48	MP2A	Mx	.000996	5
49	MP2B	X	2.325	5
50	MP2B	Z	0	5
51	MP2B	Mx	.000371	5
52	MP2C	X	2.002	5
53	MP2C	Z	0	5
54	MP2C	Mx	-.001	5
55	OVP	X	19.097	1
56	OVP	Z	0	1
57	OVP	Mx	0	1
58	MP2A	X	7.42	2
59	MP2A	Z	0	2
60	MP2A	Mx	.004	2
61	MP2B	X	10.563	2
62	MP2B	Z	0	2
63	MP2B	Mx	-.000917	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
64	MP2C	X	7.517	2
65	MP2C	Z	0	2
66	MP2C	Mx	-.004	2
67	MP1A	X	6.836	2
68	MP1A	Z	0	2
69	MP1A	Mx	.003	2
70	MP1B	X	10.546	2
71	MP1B	Z	0	2
72	MP1B	Mx	-.000916	2
73	MP1C	X	6.952	2
74	MP1C	Z	0	2
75	MP1C	Mx	-.003	2
76	MP3A	X	5.345	2
77	MP3A	Z	0	2
78	MP3A	Mx	.003	2
79	MP3B	X	10.501	2
80	MP3B	Z	0	2
81	MP3B	Mx	-.000912	2
82	MP3C	X	5.505	2
83	MP3C	Z	0	2
84	MP3C	Mx	-.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	24.213	2
2	MP2B	Z	13.979	2
3	MP2B	Mx	-.005	2
4	MP2B	X	24.213	6
5	MP2B	Z	13.979	6
6	MP2B	Mx	-.005	6
7	MP2A	X	16.976	2
8	MP2A	Z	9.801	2
9	MP2A	Mx	-.008	2
10	MP2A	X	16.976	6
11	MP2A	Z	9.801	6
12	MP2A	Mx	-.008	6
13	MP2C	X	15.15	2
14	MP2C	Z	8.747	2
15	MP2C	Mx	.008	2
16	MP2C	X	15.15	6
17	MP2C	Z	8.747	6
18	MP2C	Mx	.008	6
19	MP3A	X	3.439	3.5
20	MP3A	Z	1.986	3.5
21	MP3A	Mx	-.002	3.5
22	MP3A	X	3.439	4.5
23	MP3A	Z	1.986	4.5
24	MP3A	Mx	-.002	4.5
25	MP3B	X	5.317	3.5
26	MP3B	Z	3.07	3.5
27	MP3B	Mx	-.001	3.5
28	MP3B	X	5.317	4.5
29	MP3B	Z	3.07	4.5
30	MP3B	Mx	-.001	4.5
31	MP3C	X	3.045	3.5
32	MP3C	Z	1.758	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP3C	Mx	.002	3.5
34	MP3C	X	3.045	4.5
35	MP3C	Z	1.758	4.5
36	MP3C	Mx	.002	4.5
37	MP2A	X	1.799	5
38	MP2A	Z	1.039	5
39	MP2A	Mx	.00064	5
40	MP2B	X	1.988	5
41	MP2B	Z	1.148	5
42	MP2B	Mx	-.000147	5
43	MP2C	X	1.759	5
44	MP2C	Z	1.016	5
45	MP2C	Mx	-.001	5
46	MP2A	X	1.799	5
47	MP2A	Z	1.039	5
48	MP2A	Mx	.001	5
49	MP2B	X	1.988	5
50	MP2B	Z	1.148	5
51	MP2B	Mx	.000932	5
52	MP2C	X	1.759	5
53	MP2C	Z	1.016	5
54	MP2C	Mx	-.000781	5
55	OVP	X	18.479	1
56	OVP	Z	10.669	1
57	OVP	Mx	0	1
58	MP2A	X	7.127	2
59	MP2A	Z	4.115	2
60	MP2A	Mx	.004	2
61	MP2B	X	8.904	2
62	MP2B	Z	5.141	2
63	MP2B	Mx	.002	2
64	MP2C	X	6.754	2
65	MP2C	Z	3.899	2
66	MP2C	Mx	-.004	2
67	MP1A	X	6.748	2
68	MP1A	Z	3.896	2
69	MP1A	Mx	.003	2
70	MP1B	X	8.845	2
71	MP1B	Z	5.107	2
72	MP1B	Mx	.002	2
73	MP1C	X	6.308	2
74	MP1C	Z	3.642	2
75	MP1C	Mx	-.003	2
76	MP3A	X	5.78	2
77	MP3A	Z	3.337	2
78	MP3A	Mx	.003	2
79	MP3B	X	8.694	2
80	MP3B	Z	5.02	2
81	MP3B	Mx	.002	2
82	MP3C	X	5.168	2
83	MP3C	Z	2.983	2
84	MP3C	Mx	-.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	10.447	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
2	MP2B	Z	18.094	2
3	MP2B	Mx	-.008	2
4	MP2B	X	10.447	6
5	MP2B	Z	18.094	6
6	MP2B	Mx	-.008	6
7	MP2A	X	13.762	2
8	MP2A	Z	23.836	2
9	MP2A	Mx	-.007	2
10	MP2A	X	13.762	6
11	MP2A	Z	23.836	6
12	MP2A	Mx	-.007	6
13	MP2C	X	12.469	2
14	MP2C	Z	21.597	2
15	MP2C	Mx	.008	2
16	MP2C	X	12.469	6
17	MP2C	Z	21.597	6
18	MP2C	Mx	.008	6
19	MP3A	X	2.842	3.5
20	MP3A	Z	4.922	3.5
21	MP3A	Mx	-.001	3.5
22	MP3A	X	2.842	4.5
23	MP3A	Z	4.922	4.5
24	MP3A	Mx	-.001	4.5
25	MP3B	X	2.265	3.5
26	MP3B	Z	3.923	3.5
27	MP3B	Mx	-.002	3.5
28	MP3B	X	2.265	4.5
29	MP3B	Z	3.923	4.5
30	MP3B	Mx	-.002	4.5
31	MP3C	X	2.562	3.5
32	MP3C	Z	4.438	3.5
33	MP3C	Mx	.002	3.5
34	MP3C	X	2.562	4.5
35	MP3C	Z	4.438	4.5
36	MP3C	Mx	.002	4.5
37	MP2A	X	1.125	5
38	MP2A	Z	1.948	5
39	MP2A	Mx	7.6e-5	5
40	MP2B	X	1.067	5
41	MP2B	Z	1.848	5
42	MP2B	Mx	.000474	5
43	MP2C	X	1.097	5
44	MP2C	Z	1.9	5
45	MP2C	Mx	-.001	5
46	MP2A	X	1.125	5
47	MP2A	Z	1.948	5
48	MP2A	Mx	.001	5
49	MP2B	X	1.067	5
50	MP2B	Z	1.848	5
51	MP2B	Mx	.001	5
52	MP2C	X	1.097	5
53	MP2C	Z	1.9	5
54	MP2C	Mx	-.000285	5
55	OVP	X	10.876	1
56	OVP	Z	18.838	1
57	OVP	Mx	0	1
58	MP2A	X	4.925	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
59	MP2A	Z	8.531	2
60	MP2A	Mx	.002	2
61	MP2B	X	4.379	2
62	MP2B	Z	7.585	2
63	MP2B	Mx	.003	2
64	MP2C	X	4.661	2
65	MP2C	Z	8.073	2
66	MP2C	Mx	-.003	2
67	MP1A	X	4.852	2
68	MP1A	Z	8.405	2
69	MP1A	Mx	.002	2
70	MP1B	X	4.208	2
71	MP1B	Z	7.289	2
72	MP1B	Mx	.003	2
73	MP1C	X	4.54	2
74	MP1C	Z	7.864	2
75	MP1C	Mx	-.003	2
76	MP3A	X	4.666	2
77	MP3A	Z	8.082	2
78	MP3A	Mx	.002	2
79	MP3B	X	3.771	2
80	MP3B	Z	6.531	2
81	MP3B	Mx	.003	2
82	MP3C	X	4.232	2
83	MP3C	Z	7.331	2
84	MP3C	Mx	-.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	0	2
2	MP2B	Z	15.134	2
3	MP2B	Mx	-.007	2
4	MP2B	X	0	6
5	MP2B	Z	15.134	6
6	MP2B	Mx	-.007	6
7	MP2A	X	0	2
8	MP2A	Z	31.484	2
9	MP2A	Mx	0	2
10	MP2A	X	0	6
11	MP2A	Z	31.484	6
12	MP2A	Mx	0	6
13	MP2C	X	0	2
14	MP2C	Z	31.006	2
15	MP2C	Mx	.003	2
16	MP2C	X	0	6
17	MP2C	Z	31.006	6
18	MP2C	Mx	.003	6
19	MP3A	X	0	3.5
20	MP3A	Z	6.54	3.5
21	MP3A	Mx	0	3.5
22	MP3A	X	0	4.5
23	MP3A	Z	6.54	4.5
24	MP3A	Mx	0	4.5
25	MP3B	X	0	3.5
26	MP3B	Z	3.219	3.5
27	MP3B	Mx	-.002	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP3B	X	0	4.5
29	MP3B	Z	3.219	4.5
30	MP3B	Mx	-.002	4.5
31	MP3C	X	0	3.5
32	MP3C	Z	6.436	3.5
33	MP3C	Mx	.000559	3.5
34	MP3C	X	0	4.5
35	MP3C	Z	6.436	4.5
36	MP3C	Mx	.000559	4.5
37	MP2A	X	0	5
38	MP2A	Z	2.336	5
39	MP2A	Mx	-.000584	5
40	MP2B	X	0	5
41	MP2B	Z	2.002	5
42	MP2B	Mx	.000899	5
43	MP2C	X	0	5
44	MP2C	Z	2.325	5
45	MP2C	Mx	-.000774	5
46	MP2A	X	0	5
47	MP2A	Z	2.336	5
48	MP2A	Mx	.000584	5
49	MP2B	X	0	5
50	MP2B	Z	2.002	5
51	MP2B	Mx	.001	5
52	MP2C	X	0	5
53	MP2C	Z	2.325	5
54	MP2C	Mx	.000371	5
55	OVP	X	0	1
56	OVP	Z	19.925	1
57	OVP	Mx	0	1
58	MP2A	X	0	2
59	MP2A	Z	10.661	2
60	MP2A	Mx	0	2
61	MP2B	X	0	2
62	MP2B	Z	7.517	2
63	MP2B	Mx	.004	2
64	MP2C	X	0	2
65	MP2C	Z	10.563	2
66	MP2C	Mx	-.000917	2
67	MP1A	X	0	2
68	MP1A	Z	10.661	2
69	MP1A	Mx	0	2
70	MP1B	X	0	2
71	MP1B	Z	6.952	2
72	MP1B	Mx	.003	2
73	MP1C	X	0	2
74	MP1C	Z	10.546	2
75	MP1C	Mx	-.000916	2
76	MP3A	X	0	2
77	MP3A	Z	10.661	2
78	MP3A	Mx	0	2
79	MP3B	X	0	2
80	MP3B	Z	5.505	2
81	MP3B	Mx	.003	2
82	MP3C	X	0	2
83	MP3C	Z	10.501	2
84	MP3C	Mx	-.000912	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-8.22	2
2	MP2B	Z	14.237	2
3	MP2B	Mx	-.008	2
4	MP2B	X	-8.22	6
5	MP2B	Z	14.237	6
6	MP2B	Mx	-.008	6
7	MP2A	X	-13.762	2
8	MP2A	Z	23.836	2
9	MP2A	Mx	.007	2
10	MP2A	X	-13.762	6
11	MP2A	Z	23.836	6
12	MP2A	Mx	.007	6
13	MP2C	X	-14.815	2
14	MP2C	Z	25.661	2
15	MP2C	Mx	-.005	2
16	MP2C	X	-14.815	6
17	MP2C	Z	25.661	6
18	MP2C	Mx	-.005	6
19	MP3A	X	-2.842	3.5
20	MP3A	Z	4.922	3.5
21	MP3A	Mx	.001	3.5
22	MP3A	X	-2.842	4.5
23	MP3A	Z	4.922	4.5
24	MP3A	Mx	.001	4.5
25	MP3B	X	-1.758	3.5
26	MP3B	Z	3.045	3.5
27	MP3B	Mx	-.002	3.5
28	MP3B	X	-1.758	4.5
29	MP3B	Z	3.045	4.5
30	MP3B	Mx	-.002	4.5
31	MP3C	X	-3.07	3.5
32	MP3C	Z	5.317	3.5
33	MP3C	Mx	-.001	3.5
34	MP3C	X	-3.07	4.5
35	MP3C	Z	5.317	4.5
36	MP3C	Mx	-.001	4.5
37	MP2A	X	-1.125	5
38	MP2A	Z	1.948	5
39	MP2A	Mx	-.001	5
40	MP2B	X	-1.016	5
41	MP2B	Z	1.759	5
42	MP2B	Mx	.001	5
43	MP2C	X	-1.148	5
44	MP2C	Z	1.988	5
45	MP2C	Mx	-.000147	5
46	MP2A	X	-1.125	5
47	MP2A	Z	1.948	5
48	MP2A	Mx	-7.6e-5	5
49	MP2B	X	-1.016	5
50	MP2B	Z	1.759	5
51	MP2B	Mx	.000781	5
52	MP2C	X	-1.148	5
53	MP2C	Z	1.988	5
54	MP2C	Mx	.000932	5
55	OVP	X	-8.842	1
56	OVP	Z	15.315	1
57	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2A	X	-4.925	2
59	MP2A	Z	8.531	2
60	MP2A	Mx	-.002	2
61	MP2B	X	-3.899	2
62	MP2B	Z	6.754	2
63	MP2B	Mx	.004	2
64	MP2C	X	-5.141	2
65	MP2C	Z	8.904	2
66	MP2C	Mx	.002	2
67	MP1A	X	-4.852	2
68	MP1A	Z	8.405	2
69	MP1A	Mx	-.002	2
70	MP1B	X	-3.642	2
71	MP1B	Z	6.308	2
72	MP1B	Mx	.003	2
73	MP1C	X	-5.107	2
74	MP1C	Z	8.845	2
75	MP1C	Mx	.002	2
76	MP3A	X	-4.666	2
77	MP3A	Z	8.082	2
78	MP3A	Mx	-.002	2
79	MP3B	X	-2.983	2
80	MP3B	Z	5.168	2
81	MP3B	Mx	.003	2
82	MP3C	X	-5.02	2
83	MP3C	Z	8.694	2
84	MP3C	Mx	.002	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-20.356	2
2	MP2B	Z	11.752	2
3	MP2B	Mx	-.008	2
4	MP2B	X	-20.356	6
5	MP2B	Z	11.752	6
6	MP2B	Mx	-.008	6
7	MP2A	X	-16.976	2
8	MP2A	Z	9.801	2
9	MP2A	Mx	.008	2
10	MP2A	X	-16.976	6
11	MP2A	Z	9.801	6
12	MP2A	Mx	.008	6
13	MP2C	X	-19.214	2
14	MP2C	Z	11.093	2
15	MP2C	Mx	-.008	2
16	MP2C	X	-19.214	6
17	MP2C	Z	11.093	6
18	MP2C	Mx	-.008	6
19	MP3A	X	-3.439	3.5
20	MP3A	Z	1.986	3.5
21	MP3A	Mx	.002	3.5
22	MP3A	X	-3.439	4.5
23	MP3A	Z	1.986	4.5
24	MP3A	Mx	.002	4.5
25	MP3B	X	-4.438	3.5
26	MP3B	Z	2.562	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP3B	Mx	-.002	3.5
28	MP3B	X	-4.438	4.5
29	MP3B	Z	2.562	4.5
30	MP3B	Mx	-.002	4.5
31	MP3C	X	-3.923	3.5
32	MP3C	Z	2.265	3.5
33	MP3C	Mx	-.002	3.5
34	MP3C	X	-3.923	4.5
35	MP3C	Z	2.265	4.5
36	MP3C	Mx	-.002	4.5
37	MP2A	X	-1.799	5
38	MP2A	Z	1.039	5
39	MP2A	Mx	-.001	5
40	MP2B	X	-1.9	5
41	MP2B	Z	1.097	5
42	MP2B	Mx	.001	5
43	MP2C	X	-1.848	5
44	MP2C	Z	1.067	5
45	MP2C	Mx	.000474	5
46	MP2A	X	-1.799	5
47	MP2A	Z	1.039	5
48	MP2A	Mx	-.00064	5
49	MP2B	X	-1.9	5
50	MP2B	Z	1.097	5
51	MP2B	Mx	.000285	5
52	MP2C	X	-1.848	5
53	MP2C	Z	1.067	5
54	MP2C	Mx	.001	5
55	OVP	X	-14.957	1
56	OVP	Z	8.635	1
57	OVP	Mx	0	1
58	MP2A	X	-7.127	2
59	MP2A	Z	4.115	2
60	MP2A	Mx	-.004	2
61	MP2B	X	-8.073	2
62	MP2B	Z	4.661	2
63	MP2B	Mx	.003	2
64	MP2C	X	-7.585	2
65	MP2C	Z	4.379	2
66	MP2C	Mx	.003	2
67	MP1A	X	-6.748	2
68	MP1A	Z	3.896	2
69	MP1A	Mx	-.003	2
70	MP1B	X	-7.864	2
71	MP1B	Z	4.54	2
72	MP1B	Mx	.003	2
73	MP1C	X	-7.289	2
74	MP1C	Z	4.208	2
75	MP1C	Mx	.003	2
76	MP3A	X	-5.78	2
77	MP3A	Z	3.337	2
78	MP3A	Mx	-.003	2
79	MP3B	X	-7.331	2
80	MP3B	Z	4.232	2
81	MP3B	Mx	.003	2
82	MP3C	X	-6.531	2
83	MP3C	Z	3.771	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
84	MP3C	Mx	.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-29.264	2
2	MP2B	Z	0	2
3	MP2B	Mx	-.003	2
4	MP2B	X	-29.264	6
5	MP2B	Z	0	6
6	MP2B	Mx	-.003	6
7	MP2A	X	-15.641	2
8	MP2A	Z	0	2
9	MP2A	Mx	.008	2
10	MP2A	X	-15.641	6
11	MP2A	Z	0	6
12	MP2A	Mx	.008	6
13	MP2C	X	-16.119	2
14	MP2C	Z	0	2
15	MP2C	Mx	-.008	2
16	MP2C	X	-16.119	6
17	MP2C	Z	0	6
18	MP2C	Mx	-.008	6
19	MP3A	X	-3.115	3.5
20	MP3A	Z	0	3.5
21	MP3A	Mx	.002	3.5
22	MP3A	X	-3.115	4.5
23	MP3A	Z	0	4.5
24	MP3A	Mx	.002	4.5
25	MP3B	X	-6.436	3.5
26	MP3B	Z	0	3.5
27	MP3B	Mx	-.000559	3.5
28	MP3B	X	-6.436	4.5
29	MP3B	Z	0	4.5
30	MP3B	Mx	-.000559	4.5
31	MP3C	X	-3.219	3.5
32	MP3C	Z	0	3.5
33	MP3C	Mx	-.002	3.5
34	MP3C	X	-3.219	4.5
35	MP3C	Z	0	4.5
36	MP3C	Mx	-.002	4.5
37	MP2A	X	-1.991	5
38	MP2A	Z	0	5
39	MP2A	Mx	-.000996	5
40	MP2B	X	-2.325	5
41	MP2B	Z	0	5
42	MP2B	Mx	.000774	5
43	MP2C	X	-2.002	5
44	MP2C	Z	0	5
45	MP2C	Mx	.000899	5
46	MP2A	X	-1.991	5
47	MP2A	Z	0	5
48	MP2A	Mx	-.000996	5
49	MP2B	X	-2.325	5
50	MP2B	Z	0	5
51	MP2B	Mx	-.000371	5
52	MP2C	X	-2.002	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP2C	Z	0	5
54	MP2C	Mx	.001	5
55	OVP	X	-19.097	1
56	OVP	Z	0	1
57	OVP	Mx	0	1
58	MP2A	X	-7.42	2
59	MP2A	Z	0	2
60	MP2A	Mx	-.004	2
61	MP2B	X	-10.563	2
62	MP2B	Z	0	2
63	MP2B	Mx	.000917	2
64	MP2C	X	-7.517	2
65	MP2C	Z	0	2
66	MP2C	Mx	.004	2
67	MP1A	X	-6.836	2
68	MP1A	Z	0	2
69	MP1A	Mx	-.003	2
70	MP1B	X	-10.546	2
71	MP1B	Z	0	2
72	MP1B	Mx	.000916	2
73	MP1C	X	-6.952	2
74	MP1C	Z	0	2
75	MP1C	Mx	.003	2
76	MP3A	X	-5.345	2
77	MP3A	Z	0	2
78	MP3A	Mx	-.003	2
79	MP3B	X	-10.501	2
80	MP3B	Z	0	2
81	MP3B	Mx	.000912	2
82	MP3C	X	-5.505	2
83	MP3C	Z	0	2
84	MP3C	Mx	.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-24.213	2
2	MP2B	Z	-13.979	2
3	MP2B	Mx	.005	2
4	MP2B	X	-24.213	6
5	MP2B	Z	-13.979	6
6	MP2B	Mx	.005	6
7	MP2A	X	-16.976	2
8	MP2A	Z	-9.801	2
9	MP2A	Mx	.008	2
10	MP2A	X	-16.976	6
11	MP2A	Z	-9.801	6
12	MP2A	Mx	.008	6
13	MP2C	X	-15.15	2
14	MP2C	Z	-8.747	2
15	MP2C	Mx	-.008	2
16	MP2C	X	-15.15	6
17	MP2C	Z	-8.747	6
18	MP2C	Mx	-.008	6
19	MP3A	X	-3.439	3.5
20	MP3A	Z	-1.986	3.5
21	MP3A	Mx	.002	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP3A	X	-3.439	4.5
23	MP3A	Z	-1.986	4.5
24	MP3A	Mx	.002	4.5
25	MP3B	X	-5.317	3.5
26	MP3B	Z	-3.07	3.5
27	MP3B	Mx	.001	3.5
28	MP3B	X	-5.317	4.5
29	MP3B	Z	-3.07	4.5
30	MP3B	Mx	.001	4.5
31	MP3C	X	-3.045	3.5
32	MP3C	Z	-1.758	3.5
33	MP3C	Mx	-.002	3.5
34	MP3C	X	-3.045	4.5
35	MP3C	Z	-1.758	4.5
36	MP3C	Mx	-.002	4.5
37	MP2A	X	-1.799	5
38	MP2A	Z	-1.039	5
39	MP2A	Mx	-.00064	5
40	MP2B	X	-1.988	5
41	MP2B	Z	-1.148	5
42	MP2B	Mx	.000147	5
43	MP2C	X	-1.759	5
44	MP2C	Z	-1.016	5
45	MP2C	Mx	.001	5
46	MP2A	X	-1.799	5
47	MP2A	Z	-1.039	5
48	MP2A	Mx	-.001	5
49	MP2B	X	-1.988	5
50	MP2B	Z	-1.148	5
51	MP2B	Mx	-.000932	5
52	MP2C	X	-1.759	5
53	MP2C	Z	-1.016	5
54	MP2C	Mx	.000781	5
55	OVP	X	-18.479	1
56	OVP	Z	-10.669	1
57	OVP	Mx	0	1
58	MP2A	X	-7.127	2
59	MP2A	Z	-4.115	2
60	MP2A	Mx	-.004	2
61	MP2B	X	-8.904	2
62	MP2B	Z	-5.141	2
63	MP2B	Mx	-.002	2
64	MP2C	X	-6.754	2
65	MP2C	Z	-3.899	2
66	MP2C	Mx	.004	2
67	MP1A	X	-6.748	2
68	MP1A	Z	-3.896	2
69	MP1A	Mx	-.003	2
70	MP1B	X	-8.845	2
71	MP1B	Z	-5.107	2
72	MP1B	Mx	-.002	2
73	MP1C	X	-6.308	2
74	MP1C	Z	-3.642	2
75	MP1C	Mx	.003	2
76	MP3A	X	-5.78	2
77	MP3A	Z	-3.337	2
78	MP3A	Mx	-.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
79	MP3B	X	-8.694	2
80	MP3B	Z	-5.02	2
81	MP3B	Mx	-.002	2
82	MP3C	X	-5.168	2
83	MP3C	Z	-2.983	2
84	MP3C	Mx	.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-10.447	2
2	MP2B	Z	-18.094	2
3	MP2B	Mx	.008	2
4	MP2B	X	-10.447	6
5	MP2B	Z	-18.094	6
6	MP2B	Mx	.008	6
7	MP2A	X	-13.762	2
8	MP2A	Z	-23.836	2
9	MP2A	Mx	.007	2
10	MP2A	X	-13.762	6
11	MP2A	Z	-23.836	6
12	MP2A	Mx	.007	6
13	MP2C	X	-12.469	2
14	MP2C	Z	-21.597	2
15	MP2C	Mx	-.008	2
16	MP2C	X	-12.469	6
17	MP2C	Z	-21.597	6
18	MP2C	Mx	-.008	6
19	MP3A	X	-2.842	3.5
20	MP3A	Z	-4.922	3.5
21	MP3A	Mx	.001	3.5
22	MP3A	X	-2.842	4.5
23	MP3A	Z	-4.922	4.5
24	MP3A	Mx	.001	4.5
25	MP3B	X	-2.265	3.5
26	MP3B	Z	-3.923	3.5
27	MP3B	Mx	.002	3.5
28	MP3B	X	-2.265	4.5
29	MP3B	Z	-3.923	4.5
30	MP3B	Mx	.002	4.5
31	MP3C	X	-2.562	3.5
32	MP3C	Z	-4.438	3.5
33	MP3C	Mx	-.002	3.5
34	MP3C	X	-2.562	4.5
35	MP3C	Z	-4.438	4.5
36	MP3C	Mx	-.002	4.5
37	MP2A	X	-1.125	5
38	MP2A	Z	-1.948	5
39	MP2A	Mx	-7.6e-5	5
40	MP2B	X	-1.067	5
41	MP2B	Z	-1.848	5
42	MP2B	Mx	-.000474	5
43	MP2C	X	-1.097	5
44	MP2C	Z	-1.9	5
45	MP2C	Mx	.001	5
46	MP2A	X	-1.125	5
47	MP2A	Z	-1.948	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP2A	Mx	-.001	5
49	MP2B	X	-1.067	5
50	MP2B	Z	-1.848	5
51	MP2B	Mx	-.001	5
52	MP2C	X	-1.097	5
53	MP2C	Z	-1.9	5
54	MP2C	Mx	.000285	5
55	OVP	X	-10.876	1
56	OVP	Z	-18.838	1
57	OVP	Mx	0	1
58	MP2A	X	-4.925	2
59	MP2A	Z	-8.531	2
60	MP2A	Mx	-.002	2
61	MP2B	X	-4.379	2
62	MP2B	Z	-7.585	2
63	MP2B	Mx	-.003	2
64	MP2C	X	-4.661	2
65	MP2C	Z	-8.073	2
66	MP2C	Mx	.003	2
67	MP1A	X	-4.852	2
68	MP1A	Z	-8.405	2
69	MP1A	Mx	-.002	2
70	MP1B	X	-4.208	2
71	MP1B	Z	-7.289	2
72	MP1B	Mx	-.003	2
73	MP1C	X	-4.54	2
74	MP1C	Z	-7.864	2
75	MP1C	Mx	.003	2
76	MP3A	X	-4.666	2
77	MP3A	Z	-8.082	2
78	MP3A	Mx	-.002	2
79	MP3B	X	-3.771	2
80	MP3B	Z	-6.531	2
81	MP3B	Mx	-.003	2
82	MP3C	X	-4.232	2
83	MP3C	Z	-7.331	2
84	MP3C	Mx	.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	0	2
2	MP2B	Z	-7.41	2
3	MP2B	Mx	.004	2
4	MP2B	X	0	6
5	MP2B	Z	-7.41	6
6	MP2B	Mx	.004	6
7	MP2A	X	0	2
8	MP2A	Z	-16.366	2
9	MP2A	Mx	0	2
10	MP2A	X	0	6
11	MP2A	Z	-16.366	6
12	MP2A	Mx	0	6
13	MP2C	X	0	2
14	MP2C	Z	-16.105	2
15	MP2C	Mx	-.001	2
16	MP2C	X	0	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP2C	Z	-16.105	6
18	MP2C	Mx	-.001	6
19	MP3A	X	0	3.5
20	MP3A	Z	-3.102	3.5
21	MP3A	Mx	0	3.5
22	MP3A	X	0	4.5
23	MP3A	Z	-3.102	4.5
24	MP3A	Mx	0	4.5
25	MP3B	X	0	3.5
26	MP3B	Z	-1.383	3.5
27	MP3B	Mx	.000681	3.5
28	MP3B	X	0	4.5
29	MP3B	Z	-1.383	4.5
30	MP3B	Mx	.000681	4.5
31	MP3C	X	0	3.5
32	MP3C	Z	-3.049	3.5
33	MP3C	Mx	-.000265	3.5
34	MP3C	X	0	4.5
35	MP3C	Z	-3.049	4.5
36	MP3C	Mx	-.000265	4.5
37	MP2A	X	0	5
38	MP2A	Z	-.856	5
39	MP2A	Mx	.000214	5
40	MP2B	X	0	5
41	MP2B	Z	-.69	5
42	MP2B	Mx	-.00031	5
43	MP2C	X	0	5
44	MP2C	Z	-.851	5
45	MP2C	Mx	.000283	5
46	MP2A	X	0	5
47	MP2A	Z	-.856	5
48	MP2A	Mx	-.000214	5
49	MP2B	X	0	5
50	MP2B	Z	-.69	5
51	MP2B	Mx	-.00037	5
52	MP2C	X	0	5
53	MP2C	Z	-.851	5
54	MP2C	Mx	-.000136	5
55	OVP	X	0	1
56	OVP	Z	-9.794	1
57	OVP	Mx	0	1
58	MP2A	X	0	2
59	MP2A	Z	-5.001	2
60	MP2A	Mx	0	2
61	MP2B	X	0	2
62	MP2B	Z	-3.393	2
63	MP2B	Mx	-.002	2
64	MP2C	X	0	2
65	MP2C	Z	-4.951	2
66	MP2C	Mx	.00043	2
67	MP1A	X	0	2
68	MP1A	Z	-5.001	2
69	MP1A	Mx	0	2
70	MP1B	X	0	2
71	MP1B	Z	-3.101	2
72	MP1B	Mx	-.002	2
73	MP1C	X	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP1C	Z	-4.942	2
75	MP1C	Mx	.000429	2
76	MP3A	X	0	2
77	MP3A	Z	-5.001	2
78	MP3A	Mx	0	2
79	MP3B	X	0	2
80	MP3B	Z	-2.355	2
81	MP3B	Mx	-.001	2
82	MP3C	X	0	2
83	MP3C	Z	-4.919	2
84	MP3C	Mx	.000427	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	4.063	2
2	MP2B	Z	-7.038	2
3	MP2B	Mx	.004	2
4	MP2B	X	4.063	6
5	MP2B	Z	-7.038	6
6	MP2B	Mx	.004	6
7	MP2A	X	7.098	2
8	MP2A	Z	-12.295	2
9	MP2A	Mx	-.004	2
10	MP2A	X	7.098	6
11	MP2A	Z	-12.295	6
12	MP2A	Mx	-.004	6
13	MP2C	X	7.676	2
14	MP2C	Z	-13.295	2
15	MP2C	Mx	.003	2
16	MP2C	X	7.676	6
17	MP2C	Z	-13.295	6
18	MP2C	Mx	.003	6
19	MP3A	X	1.33	3.5
20	MP3A	Z	-2.303	3.5
21	MP3A	Mx	-.000665	3.5
22	MP3A	X	1.33	4.5
23	MP3A	Z	-2.303	4.5
24	MP3A	Mx	-.000665	4.5
25	MP3B	X	.769	3.5
26	MP3B	Z	-1.331	3.5
27	MP3B	Mx	.000722	3.5
28	MP3B	X	.769	4.5
29	MP3B	Z	-1.331	4.5
30	MP3B	Mx	.000722	4.5
31	MP3C	X	1.447	3.5
32	MP3C	Z	-2.507	3.5
33	MP3C	Mx	.000495	3.5
34	MP3C	X	1.447	4.5
35	MP3C	Z	-2.507	4.5
36	MP3C	Mx	.000495	4.5
37	MP2A	X	.406	5
38	MP2A	Z	-.704	5
39	MP2A	Mx	.000379	5
40	MP2B	X	.352	5
41	MP2B	Z	-.61	5
42	MP2B	Mx	-.000391	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
43	MP2C	X	.418	5
44	MP2C	Z	-.724	5
45	MP2C	Mx	5.3e-5	5
46	MP2A	X	.406	5
47	MP2A	Z	-.704	5
48	MP2A	Mx	2.7e-5	5
49	MP2B	X	.352	5
50	MP2B	Z	-.61	5
51	MP2B	Mx	-.000271	5
52	MP2C	X	.418	5
53	MP2C	Z	-.724	5
54	MP2C	Mx	-.000339	5
55	OVP	X	4.292	1
56	OVP	Z	-7.434	1
57	OVP	Mx	0	1
58	MP2A	X	2.293	2
59	MP2A	Z	-3.972	2
60	MP2A	Mx	.001	2
61	MP2B	X	1.768	2
62	MP2B	Z	-3.063	2
63	MP2B	Mx	-.002	2
64	MP2C	X	2.403	2
65	MP2C	Z	-4.163	2
66	MP2C	Mx	-.000822	2
67	MP1A	X	2.256	2
68	MP1A	Z	-3.907	2
69	MP1A	Mx	.001	2
70	MP1B	X	1.636	2
71	MP1B	Z	-2.833	2
72	MP1B	Mx	-.002	2
73	MP1C	X	2.386	2
74	MP1C	Z	-4.132	2
75	MP1C	Mx	-.000816	2
76	MP3A	X	2.159	2
77	MP3A	Z	-3.74	2
78	MP3A	Mx	.001	2
79	MP3B	X	1.296	2
80	MP3B	Z	-2.245	2
81	MP3B	Mx	-.001	2
82	MP3C	X	2.341	2
83	MP3C	Z	-4.055	2
84	MP3C	Mx	-.000801	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	10.397	2
2	MP2B	Z	-6.003	2
3	MP2B	Mx	.004	2
4	MP2B	X	10.397	6
5	MP2B	Z	-6.003	6
6	MP2B	Mx	.004	6
7	MP2A	X	8.537	2
8	MP2A	Z	-4.929	2
9	MP2A	Mx	-.004	2
10	MP2A	X	8.537	6
11	MP2A	Z	-4.929	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP2A	Mx	-.004	6
13	MP2C	X	9.764	2
14	MP2C	Z	-5.637	2
15	MP2C	Mx	.004	2
16	MP2C	X	9.764	6
17	MP2C	Z	-5.637	6
18	MP2C	Mx	.004	6
19	MP3A	X	1.535	3.5
20	MP3A	Z	-.886	3.5
21	MP3A	Mx	-.000768	3.5
22	MP3A	X	1.535	4.5
23	MP3A	Z	-.886	4.5
24	MP3A	Mx	-.000768	4.5
25	MP3B	X	2.052	3.5
26	MP3B	Z	-1.185	3.5
27	MP3B	Mx	.000762	3.5
28	MP3B	X	2.052	4.5
29	MP3B	Z	-1.185	4.5
30	MP3B	Mx	.000762	4.5
31	MP3C	X	1.786	3.5
32	MP3C	Z	-1.031	3.5
33	MP3C	Mx	.00079	3.5
34	MP3C	X	1.786	4.5
35	MP3C	Z	-1.031	4.5
36	MP3C	Mx	.00079	4.5
37	MP2A	X	.63	5
38	MP2A	Z	-.364	5
39	MP2A	Mx	.000406	5
40	MP2B	X	.68	5
41	MP2B	Z	-.392	5
42	MP2B	Mx	-.000402	5
43	MP2C	X	.654	5
44	MP2C	Z	-.378	5
45	MP2C	Mx	-.000168	5
46	MP2A	X	.63	5
47	MP2A	Z	-.364	5
48	MP2A	Mx	.000224	5
49	MP2B	X	.68	5
50	MP2B	Z	-.392	5
51	MP2B	Mx	-.000102	5
52	MP2C	X	.654	5
53	MP2C	Z	-.378	5
54	MP2C	Mx	-.000411	5
55	OVP	X	7.241	1
56	OVP	Z	-4.181	1
57	OVP	Mx	0	1
58	MP2A	X	3.254	2
59	MP2A	Z	-1.879	2
60	MP2A	Mx	.002	2
61	MP2B	X	3.738	2
62	MP2B	Z	-2.158	2
63	MP2B	Mx	-.001	2
64	MP2C	X	3.488	2
65	MP2C	Z	-2.014	2
66	MP2C	Mx	-.002	2
67	MP1A	X	3.059	2
68	MP1A	Z	-1.766	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP1A	Mx	.002	2
70	MP1B	X	3.63	2
71	MP1B	Z	-2.096	2
72	MP1B	Mx	-.001	2
73	MP1C	X	3.335	2
74	MP1C	Z	-1.926	2
75	MP1C	Mx	-.001	2
76	MP3A	X	2.559	2
77	MP3A	Z	-1.478	2
78	MP3A	Mx	.001	2
79	MP3B	X	3.355	2
80	MP3B	Z	-1.937	2
81	MP3B	Mx	-.001	2
82	MP3C	X	2.945	2
83	MP3C	Z	-1.7	2
84	MP3C	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	15.168	2
2	MP2B	Z	0	2
3	MP2B	Mx	.001	2
4	MP2B	X	15.168	6
5	MP2B	Z	0	6
6	MP2B	Mx	.001	6
7	MP2A	X	7.688	2
8	MP2A	Z	0	2
9	MP2A	Mx	-.004	2
10	MP2A	X	7.688	6
11	MP2A	Z	0	6
12	MP2A	Mx	-.004	6
13	MP2C	X	7.95	2
14	MP2C	Z	0	2
15	MP2C	Mx	.004	2
16	MP2C	X	7.95	6
17	MP2C	Z	0	6
18	MP2C	Mx	.004	6
19	MP3A	X	1.33	3.5
20	MP3A	Z	0	3.5
21	MP3A	Mx	-.000665	3.5
22	MP3A	X	1.33	4.5
23	MP3A	Z	0	4.5
24	MP3A	Mx	-.000665	4.5
25	MP3B	X	3.049	3.5
26	MP3B	Z	0	3.5
27	MP3B	Mx	.000265	3.5
28	MP3B	X	3.049	4.5
29	MP3B	Z	0	4.5
30	MP3B	Mx	.000265	4.5
31	MP3C	X	1.383	3.5
32	MP3C	Z	0	3.5
33	MP3C	Mx	.000681	3.5
34	MP3C	X	1.383	4.5
35	MP3C	Z	0	4.5
36	MP3C	Mx	.000681	4.5
37	MP2A	X	.684	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
38	MP2A	Z	0	5
39	MP2A	Mx	.000342	5
40	MP2B	X	.851	5
41	MP2B	Z	0	5
42	MP2B	Mx	-.000283	5
43	MP2C	X	.69	5
44	MP2C	Z	0	5
45	MP2C	Mx	-.00031	5
46	MP2A	X	.684	5
47	MP2A	Z	0	5
48	MP2A	Mx	.000342	5
49	MP2B	X	.851	5
50	MP2B	Z	0	5
51	MP2B	Mx	.000136	5
52	MP2C	X	.69	5
53	MP2C	Z	0	5
54	MP2C	Mx	-.00037	5
55	OVP	X	9.347	1
56	OVP	Z	0	1
57	OVP	Mx	0	1
58	MP2A	X	3.343	2
59	MP2A	Z	0	2
60	MP2A	Mx	.002	2
61	MP2B	X	4.951	2
62	MP2B	Z	0	2
63	MP2B	Mx	-.00043	2
64	MP2C	X	3.393	2
65	MP2C	Z	0	2
66	MP2C	Mx	-.002	2
67	MP1A	X	3.042	2
68	MP1A	Z	0	2
69	MP1A	Mx	.002	2
70	MP1B	X	4.942	2
71	MP1B	Z	0	2
72	MP1B	Mx	-.000429	2
73	MP1C	X	3.101	2
74	MP1C	Z	0	2
75	MP1C	Mx	-.002	2
76	MP3A	X	2.273	2
77	MP3A	Z	0	2
78	MP3A	Mx	.001	2
79	MP3B	X	4.919	2
80	MP3B	Z	0	2
81	MP3B	Mx	-.000427	2
82	MP3C	X	2.355	2
83	MP3C	Z	0	2
84	MP3C	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	12.515	2
2	MP2B	Z	7.226	2
3	MP2B	Mx	-.002	2
4	MP2B	X	12.515	6
5	MP2B	Z	7.226	6
6	MP2B	Mx	-.002	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP2A	X	8.537	2
8	MP2A	Z	4.929	2
9	MP2A	Mx	-.004	2
10	MP2A	X	8.537	6
11	MP2A	Z	4.929	6
12	MP2A	Mx	-.004	6
13	MP2C	X	7.538	2
14	MP2C	Z	4.352	2
15	MP2C	Mx	.004	2
16	MP2C	X	7.538	6
17	MP2C	Z	4.352	6
18	MP2C	Mx	.004	6
19	MP3A	X	1.535	3.5
20	MP3A	Z	.886	3.5
21	MP3A	Mx	-.000768	3.5
22	MP3A	X	1.535	4.5
23	MP3A	Z	.886	4.5
24	MP3A	Mx	-.000768	4.5
25	MP3B	X	2.507	3.5
26	MP3B	Z	1.447	3.5
27	MP3B	Mx	-.000495	3.5
28	MP3B	X	2.507	4.5
29	MP3B	Z	1.447	4.5
30	MP3B	Mx	-.000495	4.5
31	MP3C	X	1.331	3.5
32	MP3C	Z	.769	3.5
33	MP3C	Mx	.000722	3.5
34	MP3C	X	1.331	4.5
35	MP3C	Z	.769	4.5
36	MP3C	Mx	.000722	4.5
37	MP2A	X	.63	5
38	MP2A	Z	.364	5
39	MP2A	Mx	.000224	5
40	MP2B	X	.724	5
41	MP2B	Z	.418	5
42	MP2B	Mx	-5.3e-5	5
43	MP2C	X	.61	5
44	MP2C	Z	.352	5
45	MP2C	Mx	-.000391	5
46	MP2A	X	.63	5
47	MP2A	Z	.364	5
48	MP2A	Mx	.000406	5
49	MP2B	X	.724	5
50	MP2B	Z	.418	5
51	MP2B	Mx	.000339	5
52	MP2C	X	.61	5
53	MP2C	Z	.352	5
54	MP2C	Mx	-.000271	5
55	OVP	X	9.142	1
56	OVP	Z	5.278	1
57	OVP	Mx	0	1
58	MP2A	X	3.254	2
59	MP2A	Z	1.879	2
60	MP2A	Mx	.002	2
61	MP2B	X	4.163	2
62	MP2B	Z	2.403	2
63	MP2B	Mx	.000822	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
64	MP2C	X	3.063	2
65	MP2C	Z	1.768	2
66	MP2C	Mx	-.002	2
67	MP1A	X	3.059	2
68	MP1A	Z	1.766	2
69	MP1A	Mx	.002	2
70	MP1B	X	4.132	2
71	MP1B	Z	2.386	2
72	MP1B	Mx	.000816	2
73	MP1C	X	2.833	2
74	MP1C	Z	1.636	2
75	MP1C	Mx	-.002	2
76	MP3A	X	2.559	2
77	MP3A	Z	1.478	2
78	MP3A	Mx	.001	2
79	MP3B	X	4.055	2
80	MP3B	Z	2.341	2
81	MP3B	Mx	.000801	2
82	MP3C	X	2.245	2
83	MP3C	Z	1.296	2
84	MP3C	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	5.286	2
2	MP2B	Z	9.156	2
3	MP2B	Mx	-.004	2
4	MP2B	X	5.286	6
5	MP2B	Z	9.156	6
6	MP2B	Mx	-.004	6
7	MP2A	X	7.098	2
8	MP2A	Z	12.295	2
9	MP2A	Mx	-.004	2
10	MP2A	X	7.098	6
11	MP2A	Z	12.295	6
12	MP2A	Mx	-.004	6
13	MP2C	X	6.39	2
14	MP2C	Z	11.069	2
15	MP2C	Mx	.004	2
16	MP2C	X	6.39	6
17	MP2C	Z	11.069	6
18	MP2C	Mx	.004	6
19	MP3A	X	1.33	3.5
20	MP3A	Z	2.303	3.5
21	MP3A	Mx	-.000665	3.5
22	MP3A	X	1.33	4.5
23	MP3A	Z	2.303	4.5
24	MP3A	Mx	-.000665	4.5
25	MP3B	X	1.031	3.5
26	MP3B	Z	1.786	3.5
27	MP3B	Mx	-.00079	3.5
28	MP3B	X	1.031	4.5
29	MP3B	Z	1.786	4.5
30	MP3B	Mx	-.00079	4.5
31	MP3C	X	1.185	3.5
32	MP3C	Z	2.052	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP3C	Mx	.000762	3.5
34	MP3C	X	1.185	4.5
35	MP3C	Z	2.052	4.5
36	MP3C	Mx	.000762	4.5
37	MP2A	X	.406	5
38	MP2A	Z	.704	5
39	MP2A	Mx	2.7e-5	5
40	MP2B	X	.378	5
41	MP2B	Z	.654	5
42	MP2B	Mx	.000168	5
43	MP2C	X	.392	5
44	MP2C	Z	.68	5
45	MP2C	Mx	-.000402	5
46	MP2A	X	.406	5
47	MP2A	Z	.704	5
48	MP2A	Mx	.000379	5
49	MP2B	X	.378	5
50	MP2B	Z	.654	5
51	MP2B	Mx	.000411	5
52	MP2C	X	.392	5
53	MP2C	Z	.68	5
54	MP2C	Mx	-.000102	5
55	OVP	X	5.39	1
56	OVP	Z	9.336	1
57	OVP	Mx	0	1
58	MP2A	X	2.293	2
59	MP2A	Z	3.972	2
60	MP2A	Mx	.001	2
61	MP2B	X	2.014	2
62	MP2B	Z	3.488	2
63	MP2B	Mx	.002	2
64	MP2C	X	2.158	2
65	MP2C	Z	3.738	2
66	MP2C	Mx	-.001	2
67	MP1A	X	2.256	2
68	MP1A	Z	3.907	2
69	MP1A	Mx	.001	2
70	MP1B	X	1.926	2
71	MP1B	Z	3.335	2
72	MP1B	Mx	.001	2
73	MP1C	X	2.096	2
74	MP1C	Z	3.63	2
75	MP1C	Mx	-.001	2
76	MP3A	X	2.159	2
77	MP3A	Z	3.74	2
78	MP3A	Mx	.001	2
79	MP3B	X	1.7	2
80	MP3B	Z	2.945	2
81	MP3B	Mx	.001	2
82	MP3C	X	1.937	2
83	MP3C	Z	3.355	2
84	MP3C	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
2	MP2B	Z	7.41	2
3	MP2B	Mx	-.004	2
4	MP2B	X	0	6
5	MP2B	Z	7.41	6
6	MP2B	Mx	-.004	6
7	MP2A	X	0	2
8	MP2A	Z	16.366	2
9	MP2A	Mx	0	2
10	MP2A	X	0	6
11	MP2A	Z	16.366	6
12	MP2A	Mx	0	6
13	MP2C	X	0	2
14	MP2C	Z	16.105	2
15	MP2C	Mx	.001	2
16	MP2C	X	0	6
17	MP2C	Z	16.105	6
18	MP2C	Mx	.001	6
19	MP3A	X	0	3.5
20	MP3A	Z	3.102	3.5
21	MP3A	Mx	0	3.5
22	MP3A	X	0	4.5
23	MP3A	Z	3.102	4.5
24	MP3A	Mx	0	4.5
25	MP3B	X	0	3.5
26	MP3B	Z	1.383	3.5
27	MP3B	Mx	-.000681	3.5
28	MP3B	X	0	4.5
29	MP3B	Z	1.383	4.5
30	MP3B	Mx	-.000681	4.5
31	MP3C	X	0	3.5
32	MP3C	Z	3.049	3.5
33	MP3C	Mx	.000265	3.5
34	MP3C	X	0	4.5
35	MP3C	Z	3.049	4.5
36	MP3C	Mx	.000265	4.5
37	MP2A	X	0	5
38	MP2A	Z	.856	5
39	MP2A	Mx	-.000214	5
40	MP2B	X	0	5
41	MP2B	Z	.69	5
42	MP2B	Mx	.00031	5
43	MP2C	X	0	5
44	MP2C	Z	.851	5
45	MP2C	Mx	-.000283	5
46	MP2A	X	0	5
47	MP2A	Z	.856	5
48	MP2A	Mx	.000214	5
49	MP2B	X	0	5
50	MP2B	Z	.69	5
51	MP2B	Mx	.00037	5
52	MP2C	X	0	5
53	MP2C	Z	.851	5
54	MP2C	Mx	.000136	5
55	OVP	X	0	1
56	OVP	Z	9.794	1
57	OVP	Mx	0	1
58	MP2A	X	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
59	MP2A	Z	5.001	2
60	MP2A	Mx	0	2
61	MP2B	X	0	2
62	MP2B	Z	3.393	2
63	MP2B	Mx	.002	2
64	MP2C	X	0	2
65	MP2C	Z	4.951	2
66	MP2C	Mx	-.00043	2
67	MP1A	X	0	2
68	MP1A	Z	5.001	2
69	MP1A	Mx	0	2
70	MP1B	X	0	2
71	MP1B	Z	3.101	2
72	MP1B	Mx	.002	2
73	MP1C	X	0	2
74	MP1C	Z	4.942	2
75	MP1C	Mx	-.000429	2
76	MP3A	X	0	2
77	MP3A	Z	5.001	2
78	MP3A	Mx	0	2
79	MP3B	X	0	2
80	MP3B	Z	2.355	2
81	MP3B	Mx	.001	2
82	MP3C	X	0	2
83	MP3C	Z	4.919	2
84	MP3C	Mx	-.000427	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-4.063	2
2	MP2B	Z	7.038	2
3	MP2B	Mx	-.004	2
4	MP2B	X	-4.063	6
5	MP2B	Z	7.038	6
6	MP2B	Mx	-.004	6
7	MP2A	X	-7.098	2
8	MP2A	Z	12.295	2
9	MP2A	Mx	.004	2
10	MP2A	X	-7.098	6
11	MP2A	Z	12.295	6
12	MP2A	Mx	.004	6
13	MP2C	X	-7.676	2
14	MP2C	Z	13.295	2
15	MP2C	Mx	-.003	2
16	MP2C	X	-7.676	6
17	MP2C	Z	13.295	6
18	MP2C	Mx	-.003	6
19	MP3A	X	-1.33	3.5
20	MP3A	Z	2.303	3.5
21	MP3A	Mx	.000665	3.5
22	MP3A	X	-1.33	4.5
23	MP3A	Z	2.303	4.5
24	MP3A	Mx	.000665	4.5
25	MP3B	X	-.769	3.5
26	MP3B	Z	1.331	3.5
27	MP3B	Mx	-.000722	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP3B	X	-.769	4.5
29	MP3B	Z	1.331	4.5
30	MP3B	Mx	-.000722	4.5
31	MP3C	X	-1.447	3.5
32	MP3C	Z	2.507	3.5
33	MP3C	Mx	-.000495	3.5
34	MP3C	X	-1.447	4.5
35	MP3C	Z	2.507	4.5
36	MP3C	Mx	-.000495	4.5
37	MP2A	X	-.406	5
38	MP2A	Z	.704	5
39	MP2A	Mx	-.000379	5
40	MP2B	X	-.352	5
41	MP2B	Z	.61	5
42	MP2B	Mx	.000391	5
43	MP2C	X	-.418	5
44	MP2C	Z	.724	5
45	MP2C	Mx	-5.3e-5	5
46	MP2A	X	-.406	5
47	MP2A	Z	.704	5
48	MP2A	Mx	-2.7e-5	5
49	MP2B	X	-.352	5
50	MP2B	Z	.61	5
51	MP2B	Mx	.000271	5
52	MP2C	X	-.418	5
53	MP2C	Z	.724	5
54	MP2C	Mx	.000339	5
55	OVP	X	-4.292	1
56	OVP	Z	7.434	1
57	OVP	Mx	0	1
58	MP2A	X	-2.293	2
59	MP2A	Z	3.972	2
60	MP2A	Mx	-.001	2
61	MP2B	X	-1.768	2
62	MP2B	Z	3.063	2
63	MP2B	Mx	.002	2
64	MP2C	X	-2.403	2
65	MP2C	Z	4.163	2
66	MP2C	Mx	.000822	2
67	MP1A	X	-2.256	2
68	MP1A	Z	3.907	2
69	MP1A	Mx	-.001	2
70	MP1B	X	-1.636	2
71	MP1B	Z	2.833	2
72	MP1B	Mx	.002	2
73	MP1C	X	-2.386	2
74	MP1C	Z	4.132	2
75	MP1C	Mx	.000816	2
76	MP3A	X	-2.159	2
77	MP3A	Z	3.74	2
78	MP3A	Mx	-.001	2
79	MP3B	X	-1.296	2
80	MP3B	Z	2.245	2
81	MP3B	Mx	.001	2
82	MP3C	X	-2.341	2
83	MP3C	Z	4.055	2
84	MP3C	Mx	.000801	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-10.397	2
2	MP2B	Z	6.003	2
3	MP2B	Mx	-.004	2
4	MP2B	X	-10.397	6
5	MP2B	Z	6.003	6
6	MP2B	Mx	-.004	6
7	MP2A	X	-8.537	2
8	MP2A	Z	4.929	2
9	MP2A	Mx	.004	2
10	MP2A	X	-8.537	6
11	MP2A	Z	4.929	6
12	MP2A	Mx	.004	6
13	MP2C	X	-9.764	2
14	MP2C	Z	5.637	2
15	MP2C	Mx	-.004	2
16	MP2C	X	-9.764	6
17	MP2C	Z	5.637	6
18	MP2C	Mx	-.004	6
19	MP3A	X	-1.535	3.5
20	MP3A	Z	.886	3.5
21	MP3A	Mx	.000768	3.5
22	MP3A	X	-1.535	4.5
23	MP3A	Z	.886	4.5
24	MP3A	Mx	.000768	4.5
25	MP3B	X	-2.052	3.5
26	MP3B	Z	1.185	3.5
27	MP3B	Mx	-.000762	3.5
28	MP3B	X	-2.052	4.5
29	MP3B	Z	1.185	4.5
30	MP3B	Mx	-.000762	4.5
31	MP3C	X	-1.786	3.5
32	MP3C	Z	1.031	3.5
33	MP3C	Mx	-.00079	3.5
34	MP3C	X	-1.786	4.5
35	MP3C	Z	1.031	4.5
36	MP3C	Mx	-.00079	4.5
37	MP2A	X	-.63	5
38	MP2A	Z	.364	5
39	MP2A	Mx	-.000406	5
40	MP2B	X	-.68	5
41	MP2B	Z	.392	5
42	MP2B	Mx	.000402	5
43	MP2C	X	-.654	5
44	MP2C	Z	.378	5
45	MP2C	Mx	.000168	5
46	MP2A	X	-.63	5
47	MP2A	Z	.364	5
48	MP2A	Mx	-.000224	5
49	MP2B	X	-.68	5
50	MP2B	Z	.392	5
51	MP2B	Mx	.000102	5
52	MP2C	X	-.654	5
53	MP2C	Z	.378	5
54	MP2C	Mx	.000411	5
55	OVP	X	-7.241	1
56	OVP	Z	4.181	1
57	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2A	X	-3.254	2
59	MP2A	Z	1.879	2
60	MP2A	Mx	-.002	2
61	MP2B	X	-3.738	2
62	MP2B	Z	2.158	2
63	MP2B	Mx	.001	2
64	MP2C	X	-3.488	2
65	MP2C	Z	2.014	2
66	MP2C	Mx	.002	2
67	MP1A	X	-3.059	2
68	MP1A	Z	1.766	2
69	MP1A	Mx	-.002	2
70	MP1B	X	-3.63	2
71	MP1B	Z	2.096	2
72	MP1B	Mx	.001	2
73	MP1C	X	-3.335	2
74	MP1C	Z	1.926	2
75	MP1C	Mx	.001	2
76	MP3A	X	-2.559	2
77	MP3A	Z	1.478	2
78	MP3A	Mx	-.001	2
79	MP3B	X	-3.355	2
80	MP3B	Z	1.937	2
81	MP3B	Mx	.001	2
82	MP3C	X	-2.945	2
83	MP3C	Z	1.7	2
84	MP3C	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-15.168	2
2	MP2B	Z	0	2
3	MP2B	Mx	-.001	2
4	MP2B	X	-15.168	6
5	MP2B	Z	0	6
6	MP2B	Mx	-.001	6
7	MP2A	X	-7.688	2
8	MP2A	Z	0	2
9	MP2A	Mx	.004	2
10	MP2A	X	-7.688	6
11	MP2A	Z	0	6
12	MP2A	Mx	.004	6
13	MP2C	X	-7.95	2
14	MP2C	Z	0	2
15	MP2C	Mx	-.004	2
16	MP2C	X	-7.95	6
17	MP2C	Z	0	6
18	MP2C	Mx	-.004	6
19	MP3A	X	-1.33	3.5
20	MP3A	Z	0	3.5
21	MP3A	Mx	.000665	3.5
22	MP3A	X	-1.33	4.5
23	MP3A	Z	0	4.5
24	MP3A	Mx	.000665	4.5
25	MP3B	X	-3.049	3.5
26	MP3B	Z	0	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP3B	Mx	-.000265	3.5
28	MP3B	X	-3.049	4.5
29	MP3B	Z	0	4.5
30	MP3B	Mx	-.000265	4.5
31	MP3C	X	-1.383	3.5
32	MP3C	Z	0	3.5
33	MP3C	Mx	-.000681	3.5
34	MP3C	X	-1.383	4.5
35	MP3C	Z	0	4.5
36	MP3C	Mx	-.000681	4.5
37	MP2A	X	-.684	5
38	MP2A	Z	0	5
39	MP2A	Mx	-.000342	5
40	MP2B	X	-.851	5
41	MP2B	Z	0	5
42	MP2B	Mx	.000283	5
43	MP2C	X	-.69	5
44	MP2C	Z	0	5
45	MP2C	Mx	.00031	5
46	MP2A	X	-.684	5
47	MP2A	Z	0	5
48	MP2A	Mx	-.000342	5
49	MP2B	X	-.851	5
50	MP2B	Z	0	5
51	MP2B	Mx	-.000136	5
52	MP2C	X	-.69	5
53	MP2C	Z	0	5
54	MP2C	Mx	.00037	5
55	OVP	X	-9.347	1
56	OVP	Z	0	1
57	OVP	Mx	0	1
58	MP2A	X	-3.343	2
59	MP2A	Z	0	2
60	MP2A	Mx	-.002	2
61	MP2B	X	-4.951	2
62	MP2B	Z	0	2
63	MP2B	Mx	.00043	2
64	MP2C	X	-3.393	2
65	MP2C	Z	0	2
66	MP2C	Mx	.002	2
67	MP1A	X	-3.042	2
68	MP1A	Z	0	2
69	MP1A	Mx	-.002	2
70	MP1B	X	-4.942	2
71	MP1B	Z	0	2
72	MP1B	Mx	.000429	2
73	MP1C	X	-3.101	2
74	MP1C	Z	0	2
75	MP1C	Mx	.002	2
76	MP3A	X	-2.273	2
77	MP3A	Z	0	2
78	MP3A	Mx	-.001	2
79	MP3B	X	-4.919	2
80	MP3B	Z	0	2
81	MP3B	Mx	.000427	2
82	MP3C	X	-2.355	2
83	MP3C	Z	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
84	MP3C	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-12.515	2
2	MP2B	Z	-7.226	2
3	MP2B	Mx	.002	2
4	MP2B	X	-12.515	6
5	MP2B	Z	-7.226	6
6	MP2B	Mx	.002	6
7	MP2A	X	-8.537	2
8	MP2A	Z	-4.929	2
9	MP2A	Mx	.004	2
10	MP2A	X	-8.537	6
11	MP2A	Z	-4.929	6
12	MP2A	Mx	.004	6
13	MP2C	X	-7.538	2
14	MP2C	Z	-4.352	2
15	MP2C	Mx	-.004	2
16	MP2C	X	-7.538	6
17	MP2C	Z	-4.352	6
18	MP2C	Mx	-.004	6
19	MP3A	X	-1.535	3.5
20	MP3A	Z	-.886	3.5
21	MP3A	Mx	.000768	3.5
22	MP3A	X	-1.535	4.5
23	MP3A	Z	-.886	4.5
24	MP3A	Mx	.000768	4.5
25	MP3B	X	-2.507	3.5
26	MP3B	Z	-1.447	3.5
27	MP3B	Mx	.000495	3.5
28	MP3B	X	-2.507	4.5
29	MP3B	Z	-1.447	4.5
30	MP3B	Mx	.000495	4.5
31	MP3C	X	-1.331	3.5
32	MP3C	Z	-.769	3.5
33	MP3C	Mx	-.000722	3.5
34	MP3C	X	-1.331	4.5
35	MP3C	Z	-.769	4.5
36	MP3C	Mx	-.000722	4.5
37	MP2A	X	-.63	5
38	MP2A	Z	-.364	5
39	MP2A	Mx	-.000224	5
40	MP2B	X	-.724	5
41	MP2B	Z	-.418	5
42	MP2B	Mx	5.3e-5	5
43	MP2C	X	-.61	5
44	MP2C	Z	-.352	5
45	MP2C	Mx	.000391	5
46	MP2A	X	-.63	5
47	MP2A	Z	-.364	5
48	MP2A	Mx	-.000406	5
49	MP2B	X	-.724	5
50	MP2B	Z	-.418	5
51	MP2B	Mx	-.000339	5
52	MP2C	X	-.61	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP2C	Z	-.352	5
54	MP2C	Mx	.000271	5
55	OVP	X	-9.142	1
56	OVP	Z	-5.278	1
57	OVP	Mx	0	1
58	MP2A	X	-3.254	2
59	MP2A	Z	-1.879	2
60	MP2A	Mx	-.002	2
61	MP2B	X	-4.163	2
62	MP2B	Z	-2.403	2
63	MP2B	Mx	-.000822	2
64	MP2C	X	-3.063	2
65	MP2C	Z	-1.768	2
66	MP2C	Mx	.002	2
67	MP1A	X	-3.059	2
68	MP1A	Z	-1.766	2
69	MP1A	Mx	-.002	2
70	MP1B	X	-4.132	2
71	MP1B	Z	-2.386	2
72	MP1B	Mx	-.000816	2
73	MP1C	X	-2.833	2
74	MP1C	Z	-1.636	2
75	MP1C	Mx	.002	2
76	MP3A	X	-2.559	2
77	MP3A	Z	-1.478	2
78	MP3A	Mx	-.001	2
79	MP3B	X	-4.055	2
80	MP3B	Z	-2.341	2
81	MP3B	Mx	-.000801	2
82	MP3C	X	-2.245	2
83	MP3C	Z	-1.296	2
84	MP3C	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-5.286	2
2	MP2B	Z	-9.156	2
3	MP2B	Mx	.004	2
4	MP2B	X	-5.286	6
5	MP2B	Z	-9.156	6
6	MP2B	Mx	.004	6
7	MP2A	X	-7.098	2
8	MP2A	Z	-12.295	2
9	MP2A	Mx	.004	2
10	MP2A	X	-7.098	6
11	MP2A	Z	-12.295	6
12	MP2A	Mx	.004	6
13	MP2C	X	-6.39	2
14	MP2C	Z	-11.069	2
15	MP2C	Mx	-.004	2
16	MP2C	X	-6.39	6
17	MP2C	Z	-11.069	6
18	MP2C	Mx	-.004	6
19	MP3A	X	-1.33	3.5
20	MP3A	Z	-2.303	3.5
21	MP3A	Mx	.000665	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP3A	X	-1.33	4.5
23	MP3A	Z	-2.303	4.5
24	MP3A	Mx	.000665	4.5
25	MP3B	X	-1.031	3.5
26	MP3B	Z	-1.786	3.5
27	MP3B	Mx	.00079	3.5
28	MP3B	X	-1.031	4.5
29	MP3B	Z	-1.786	4.5
30	MP3B	Mx	.00079	4.5
31	MP3C	X	-1.185	3.5
32	MP3C	Z	-2.052	3.5
33	MP3C	Mx	-.000762	3.5
34	MP3C	X	-1.185	4.5
35	MP3C	Z	-2.052	4.5
36	MP3C	Mx	-.000762	4.5
37	MP2A	X	-.406	5
38	MP2A	Z	-.704	5
39	MP2A	Mx	-2.7e-5	5
40	MP2B	X	-.378	5
41	MP2B	Z	-.654	5
42	MP2B	Mx	-.000168	5
43	MP2C	X	-.392	5
44	MP2C	Z	-.68	5
45	MP2C	Mx	.000402	5
46	MP2A	X	-.406	5
47	MP2A	Z	-.704	5
48	MP2A	Mx	-.000379	5
49	MP2B	X	-.378	5
50	MP2B	Z	-.654	5
51	MP2B	Mx	-.000411	5
52	MP2C	X	-.392	5
53	MP2C	Z	-.68	5
54	MP2C	Mx	.000102	5
55	OVP	X	-5.39	1
56	OVP	Z	-9.336	1
57	OVP	Mx	0	1
58	MP2A	X	-2.293	2
59	MP2A	Z	-3.972	2
60	MP2A	Mx	-.001	2
61	MP2B	X	-2.014	2
62	MP2B	Z	-3.488	2
63	MP2B	Mx	-.002	2
64	MP2C	X	-2.158	2
65	MP2C	Z	-3.738	2
66	MP2C	Mx	.001	2
67	MP1A	X	-2.256	2
68	MP1A	Z	-3.907	2
69	MP1A	Mx	-.001	2
70	MP1B	X	-1.926	2
71	MP1B	Z	-3.335	2
72	MP1B	Mx	-.001	2
73	MP1C	X	-2.096	2
74	MP1C	Z	-3.63	2
75	MP1C	Mx	.001	2
76	MP3A	X	-2.159	2
77	MP3A	Z	-3.74	2
78	MP3A	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
79	MP3B	X	-1.7	2
80	MP3B	Z	-2.945	2
81	MP3B	Mx	-.001	2
82	MP3C	X	-1.937	2
83	MP3C	Z	-3.355	2
84	MP3C	Mx	.001	2

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%34.667

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%65

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

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

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	Y	-.901	2
2	MP2B	My	7.8e-5	2
3	MP2B	Mz	-.000444	2
4	MP2B	Y	-.901	6
5	MP2B	My	7.8e-5	6
6	MP2B	Mz	-.000444	6
7	MP2A	Y	-.92	2
8	MP2A	My	-.00046	2
9	MP2A	Mz	0	2
10	MP2A	Y	-.92	6
11	MP2A	My	-.00046	6
12	MP2A	Mz	0	6
13	MP2C	Y	-.92	2
14	MP2C	My	.000453	2
15	MP2C	Mz	8e-5	2
16	MP2C	Y	-.92	6
17	MP2C	My	.000453	6
18	MP2C	Mz	8e-5	6
19	MP3A	Y	-.241	3.5
20	MP3A	My	-.000121	3.5
21	MP3A	Mz	0	3.5
22	MP3A	Y	-.241	4.5
23	MP3A	My	-.000121	4.5
24	MP3A	Mz	0	4.5
25	MP3B	Y	-.241	3.5
26	MP3B	My	2.1e-5	3.5
27	MP3B	Mz	-.000119	3.5
28	MP3B	Y	-.241	4.5
29	MP3B	My	2.1e-5	4.5

Member Point Loads (BLC 81 : Antenna Ev) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP3B	Mz	-.000119	4.5
31	MP3C	Y	-.241	3.5
32	MP3C	My	.000119	3.5
33	MP3C	Mz	2.1e-5	3.5
34	MP3C	Y	-.241	4.5
35	MP3C	My	.000119	4.5
36	MP3C	Mz	2.1e-5	4.5
37	MP2A	Y	-.247	5
38	MP2A	My	.000123	5
39	MP2A	Mz	-6.2e-5	5
40	MP2B	Y	-.247	5
41	MP2B	My	-8.2e-5	5
42	MP2B	Mz	.000111	5
43	MP2C	Y	-.247	5
44	MP2C	My	-.000111	5
45	MP2C	Mz	-8.2e-5	5
46	MP2A	Y	-.247	5
47	MP2A	My	.000123	5
48	MP2A	Mz	6.2e-5	5
49	MP2B	Y	-.247	5
50	MP2B	My	3.9e-5	5
51	MP2B	Mz	.000132	5
52	MP2C	Y	-.247	5
53	MP2C	My	-.000132	5
54	MP2C	Mz	3.9e-5	5
55	MP2C	Y	-.718	1
56	MP2C	My	0	1
57	MP2C	Mz	0	1
58	MP2A	Y	-1.676	2
59	MP2A	My	.000838	2
60	MP2A	Mz	0	2
61	MP2B	Y	-1.676	2
62	MP2B	My	-.000146	2
63	MP2B	Mz	.000825	2
64	MP2C	Y	-1.676	2
65	MP2C	My	-.000825	2
66	MP2C	Mz	-.000146	2
67	MP1A	Y	-1.578	2
68	MP1A	My	.000789	2
69	MP1A	Mz	0	2
70	MP1B	Y	-1.578	2
71	MP1B	My	-.000137	2
72	MP1B	Mz	.000777	2
73	MP1C	Y	-1.578	2
74	MP1C	My	-.000777	2
75	MP1C	Mz	-.000137	2
76	MP3A	Y	-1.335	2
77	MP3A	My	.000668	2
78	MP3A	Mz	0	2
79	MP3B	Y	-1.335	2
80	MP3B	My	-.000116	2
81	MP3B	Mz	.000657	2
82	MP3C	Y	-1.335	2
83	MP3C	My	-.000657	2
84	MP3C	Mz	-.000116	2

Member Point Loads (BLC 82 : Antenna Eh (0 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	Z	-2.252	2
2	MP2B	Mx	.001	2
3	MP2B	Z	-2.252	6
4	MP2B	Mx	.001	6
5	MP2A	Z	-2.3	2
6	MP2A	Mx	0	2
7	MP2A	Z	-2.3	6
8	MP2A	Mx	0	6
9	MP2C	Z	-2.3	2
10	MP2C	Mx	-.0002	2
11	MP2C	Z	-2.3	6
12	MP2C	Mx	-.0002	6
13	MP3A	Z	-.603	3.5
14	MP3A	Mx	0	3.5
15	MP3A	Z	-.603	4.5
16	MP3A	Mx	0	4.5
17	MP3B	Z	-.603	3.5
18	MP3B	Mx	.000297	3.5
19	MP3B	Z	-.603	4.5
20	MP3B	Mx	.000297	4.5
21	MP3C	Z	-.603	3.5
22	MP3C	Mx	-5.2e-5	3.5
23	MP3C	Z	-.603	4.5
24	MP3C	Mx	-5.2e-5	4.5
25	MP2A	Z	-.617	5
26	MP2A	Mx	.000154	5
27	MP2B	Z	-.617	5
28	MP2B	Mx	-.000277	5
29	MP2C	Z	-.617	5
30	MP2C	Mx	.000206	5
31	MP2A	Z	-.617	5
32	MP2A	Mx	-.000154	5
33	MP2B	Z	-.617	5
34	MP2B	Mx	-.000331	5
35	MP2C	Z	-.617	5
36	MP2C	Mx	-9.8e-5	5
37	MP2C	Z	-1.795	1
38	MP2C	Mx	0	1
39	MP2A	Z	-4.191	2
40	MP2A	Mx	0	2
41	MP2B	Z	-4.191	2
42	MP2B	Mx	-.002	2
43	MP2C	Z	-4.191	2
44	MP2C	Mx	.000364	2
45	MP1A	Z	-3.944	2
46	MP1A	Mx	0	2
47	MP1B	Z	-3.944	2
48	MP1B	Mx	-.002	2
49	MP1C	Z	-3.944	2
50	MP1C	Mx	.000342	2
51	MP3A	Z	-3.338	2
52	MP3A	Mx	0	2
53	MP3B	Z	-3.338	2
54	MP3B	Mx	-.002	2
55	MP3C	Z	-3.338	2
56	MP3C	Mx	.00029	2

Member Point Loads (BLC 83 : Antenna Eh (90 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	2.252	2
2	MP2B	Mx	.000196	2
3	MP2B	X	2.252	6
4	MP2B	Mx	.000196	6
5	MP2A	X	2.3	2
6	MP2A	Mx	-.001	2
7	MP2A	X	2.3	6
8	MP2A	Mx	-.001	6
9	MP2C	X	2.3	2
10	MP2C	Mx	.001	2
11	MP2C	X	2.3	6
12	MP2C	Mx	.001	6
13	MP3A	X	.603	3.5
14	MP3A	Mx	-.000302	3.5
15	MP3A	X	.603	4.5
16	MP3A	Mx	-.000302	4.5
17	MP3B	X	.603	3.5
18	MP3B	Mx	5.2e-5	3.5
19	MP3B	X	.603	4.5
20	MP3B	Mx	5.2e-5	4.5
21	MP3C	X	.603	3.5
22	MP3C	Mx	.000297	3.5
23	MP3C	X	.603	4.5
24	MP3C	Mx	.000297	4.5
25	MP2A	X	.617	5
26	MP2A	Mx	.000309	5
27	MP2B	X	.617	5
28	MP2B	Mx	-.000206	5
29	MP2C	X	.617	5
30	MP2C	Mx	-.000277	5
31	MP2A	X	.617	5
32	MP2A	Mx	.000309	5
33	MP2B	X	.617	5
34	MP2B	Mx	9.8e-5	5
35	MP2C	X	.617	5
36	MP2C	Mx	-.000331	5
37	MP2C	X	1.795	1
38	MP2C	Mx	0	1
39	MP2A	X	4.191	2
40	MP2A	Mx	.002	2
41	MP2B	X	4.191	2
42	MP2B	Mx	-.000364	2
43	MP2C	X	4.191	2
44	MP2C	Mx	-.002	2
45	MP1A	X	3.944	2
46	MP1A	Mx	.002	2
47	MP1B	X	3.944	2
48	MP1B	Mx	-.000342	2
49	MP1C	X	3.944	2
50	MP1C	Mx	-.002	2
51	MP3A	X	3.338	2
52	MP3A	Mx	.002	2
53	MP3B	X	3.338	2
54	MP3B	Mx	-.00029	2
55	MP3C	X	3.338	2
56	MP3C	Mx	-.002	2

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	-6.667	-6.667	0	%100
2	M4	Y	-9.747	-9.747	0	%100
3	M10	Y	-9.747	-9.747	0	%100
4	MP3A	Y	-5.06	-5.06	0	%100
5	MP4A	Y	-5.06	-5.06	0	%100
6	MP2A	Y	-5.06	-5.06	0	%100
7	MP1A	Y	-5.06	-5.06	0	%100
8	M43	Y	-9.747	-9.747	0	%100
9	M46	Y	-10.266	-10.266	0	%100
10	M51B	Y	-5.708	-5.708	0	%100
11	M52B	Y	-5.708	-5.708	0	%100
12	M76	Y	-10.253	-10.253	0	%100
13	M77	Y	-10.253	-10.253	0	%100
14	M80	Y	-10.266	-10.266	0	%100
15	M84	Y	-10.253	-10.253	0	%100
16	M85	Y	-10.253	-10.253	0	%100
17	M91	Y	-10.266	-10.266	0	%100
18	M52A	Y	-9.747	-9.747	0	%100
19	M53	Y	-9.747	-9.747	0	%100
20	M54	Y	-9.747	-9.747	0	%100
21	M55	Y	-10.266	-10.266	0	%100
22	M58A	Y	-5.708	-5.708	0	%100
23	M59A	Y	-5.708	-5.708	0	%100
24	M63	Y	-10.253	-10.253	0	%100
25	M64	Y	-10.253	-10.253	0	%100
26	M66	Y	-10.266	-10.266	0	%100
27	M68	Y	-10.253	-10.253	0	%100
28	M69	Y	-10.253	-10.253	0	%100
29	M71	Y	-10.266	-10.266	0	%100
30	M76A	Y	-9.747	-9.747	0	%100
31	M77A	Y	-9.747	-9.747	0	%100
32	M78	Y	-9.747	-9.747	0	%100
33	M79A	Y	-10.266	-10.266	0	%100
34	M82	Y	-5.708	-5.708	0	%100
35	M83A	Y	-5.708	-5.708	0	%100
36	M87	Y	-10.253	-10.253	0	%100
37	M88A	Y	-10.253	-10.253	0	%100
38	M90	Y	-10.266	-10.266	0	%100
39	M92A	Y	-10.253	-10.253	0	%100
40	M93	Y	-10.253	-10.253	0	%100
41	M95	Y	-10.266	-10.266	0	%100
42	M82A	Y	-6.667	-6.667	0	%100
43	M91B	Y	-6.667	-6.667	0	%100
44	M100	Y	-9.344	-9.344	0	%100
45	M101	Y	-5.06	-5.06	0	%100
46	M108	Y	-9.344	-9.344	0	%100
47	M109	Y	-5.06	-5.06	0	%100
48	M116	Y	-9.344	-9.344	0	%100
49	M117	Y	-5.06	-5.06	0	%100
50	M124	Y	-6.718	-6.718	0	%100
51	M125	Y	-6.718	-6.718	0	%100
52	M126	Y	-6.718	-6.718	0	%100
53	MP3C	Y	-5.06	-5.06	0	%100
54	MP4C	Y	-5.06	-5.06	0	%100
55	MP2C	Y	-5.06	-5.06	0	%100
56	MP1C	Y	-5.06	-5.06	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,%]
57	MP3B	Y	-5.06	-5.06	0	%100
58	MP4B	Y	-5.06	-5.06	0	%100
59	MP2B	Y	-5.06	-5.06	0	%100
60	MP1B	Y	-5.06	-5.06	0	%100
61	OVP	Y	-5.06	-5.06	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-13.516	-13.516	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-11.616	-11.616	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-9.171	-9.171	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-9.171	-9.171	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-9.171	-9.171	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	-9.171	-9.171	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	-11.616	-11.616	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	-23.17	-23.17	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	-3.216	-3.216	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	-3.216	-3.216	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	-5.9	-5.9	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	-6.214	-6.214	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	-5.9	-5.9	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	-6.214	-6.214	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	-10.296	-10.296	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	-2.904	-2.904	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	-2.904	-2.904	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	-5.792	-5.792	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	-3.216	-3.216	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	-12.866	-12.866	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	-17.377	-17.377	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,%]
49	M64	X	0	0	0	%100
50	M64	Z	-5.9	-5.9	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	-6.214	-6.214	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	-17.377	-17.377	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	-23.599	-23.599	0	%100
57	M71	X	0	0	0	%100
58	M71	Z	-24.856	-24.856	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	-10.296	-10.296	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	-2.904	-2.904	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	-2.904	-2.904	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	-5.792	-5.792	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	-12.866	-12.866	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	-3.216	-3.216	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	-17.377	-17.377	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	-23.599	-23.599	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	-24.856	-24.856	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	-17.377	-17.377	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	-5.9	-5.9	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	-6.214	-6.214	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	-3.379	-3.379	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	-3.379	-3.379	0	%100
87	M100	X	0	0	0	%100
88	M100	Z	-6.952	-6.952	0	%100
89	M101	X	0	0	0	%100
90	M101	Z	-9.171	-9.171	0	%100
91	M108	X	0	0	0	%100
92	M108	Z	-13.486	-13.486	0	%100
93	M109	X	0	0	0	%100
94	M109	Z	-2.293	-2.293	0	%100
95	M116	X	0	0	0	%100
96	M116	Z	-13.486	-13.486	0	%100
97	M117	X	0	0	0	%100
98	M117	Z	-2.293	-2.293	0	%100
99	M124	X	0	0	0	%100
100	M124	Z	-2.752	-2.752	0	%100
101	M125	X	0	0	0	%100
102	M125	Z	-2.752	-2.752	0	%100
103	M126	X	0	0	0	%100
104	M126	Z	-11.006	-11.006	0	%100
105	MP3C	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,%]
106	MP3C	Z	-9.171	-9.171	0	%100
107	MP4C	X	0	0	0	%100
108	MP4C	Z	-9.171	-9.171	0	%100
109	MP2C	X	0	0	0	%100
110	MP2C	Z	-9.171	-9.171	0	%100
111	MP1C	X	0	0	0	%100
112	MP1C	Z	-9.171	-9.171	0	%100
113	MP3B	X	0	0	0	%100
114	MP3B	Z	-9.171	-9.171	0	%100
115	MP4B	X	0	0	0	%100
116	MP4B	Z	-9.171	-9.171	0	%100
117	MP2B	X	0	0	0	%100
118	MP2B	Z	-9.171	-9.171	0	%100
119	MP1B	X	0	0	0	%100
120	MP1B	Z	-9.171	-9.171	0	%100
121	OVP	X	0	0	0	%100
122	OVP	Z	-8.358	-8.358	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	5.068	5.068	0	%100
2	M1	Z	-8.779	-8.779	0	%100
3	M4	X	1.716	1.716	0	%100
4	M4	Z	-2.972	-2.972	0	%100
5	M10	X	4.356	4.356	0	%100
6	M10	Z	-7.545	-7.545	0	%100
7	MP3A	X	4.586	4.586	0	%100
8	MP3A	Z	-7.943	-7.943	0	%100
9	MP4A	X	4.586	4.586	0	%100
10	MP4A	Z	-7.943	-7.943	0	%100
11	MP2A	X	4.586	4.586	0	%100
12	MP2A	Z	-7.943	-7.943	0	%100
13	MP1A	X	4.586	4.586	0	%100
14	MP1A	Z	-7.943	-7.943	0	%100
15	M43	X	4.356	4.356	0	%100
16	M43	Z	-7.545	-7.545	0	%100
17	M46	X	8.689	8.689	0	%100
18	M46	Z	-15.049	-15.049	0	%100
19	M51B	X	4.825	4.825	0	%100
20	M51B	Z	-8.357	-8.357	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	2.896	2.896	0	%100
24	M76	Z	-5.016	-5.016	0	%100
25	M77	X	8.85	8.85	0	%100
26	M77	Z	-15.328	-15.328	0	%100
27	M80	X	9.321	9.321	0	%100
28	M80	Z	-16.144	-16.144	0	%100
29	M84	X	2.896	2.896	0	%100
30	M84	Z	-5.016	-5.016	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	1.716	1.716	0	%100
36	M52A	Z	-2.972	-2.972	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,%]
37	M53	X	4.356	4.356	0	%100
38	M53	Z	-7.545	-7.545	0	%100
39	M54	X	4.356	4.356	0	%100
40	M54	Z	-7.545	-7.545	0	%100
41	M55	X	8.689	8.689	0	%100
42	M55	Z	-15.049	-15.049	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	4.825	4.825	0	%100
46	M59A	Z	-8.357	-8.357	0	%100
47	M63	X	2.896	2.896	0	%100
48	M63	Z	-5.016	-5.016	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	2.896	2.896	0	%100
54	M68	Z	-5.016	-5.016	0	%100
55	M69	X	8.85	8.85	0	%100
56	M69	Z	-15.328	-15.328	0	%100
57	M71	X	9.321	9.321	0	%100
58	M71	Z	-16.144	-16.144	0	%100
59	M76A	X	6.864	6.864	0	%100
60	M76A	Z	-11.889	-11.889	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	4.825	4.825	0	%100
68	M82	Z	-8.357	-8.357	0	%100
69	M83A	X	4.825	4.825	0	%100
70	M83A	Z	-8.357	-8.357	0	%100
71	M87	X	11.585	11.585	0	%100
72	M87	Z	-20.066	-20.066	0	%100
73	M88A	X	8.85	8.85	0	%100
74	M88A	Z	-15.328	-15.328	0	%100
75	M90	X	9.321	9.321	0	%100
76	M90	Z	-16.144	-16.144	0	%100
77	M92A	X	11.585	11.585	0	%100
78	M92A	Z	-20.066	-20.066	0	%100
79	M93	X	8.85	8.85	0	%100
80	M93	Z	-15.328	-15.328	0	%100
81	M95	X	9.321	9.321	0	%100
82	M95	Z	-16.144	-16.144	0	%100
83	M82A	X	5.068	5.068	0	%100
84	M82A	Z	-8.779	-8.779	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	0	0	0	%100
87	M100	X	4.565	4.565	0	%100
88	M100	Z	-7.907	-7.907	0	%100
89	M101	X	3.439	3.439	0	%100
90	M101	Z	-5.957	-5.957	0	%100
91	M108	X	4.565	4.565	0	%100
92	M108	Z	-7.907	-7.907	0	%100
93	M109	X	3.439	3.439	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,%]
94	M109	Z	-5.957	-5.957	0	%100
95	M116	X	7.832	7.832	0	%100
96	M116	Z	-13.565	-13.565	0	%100
97	M117	X	0	0	0	%100
98	M117	Z	0	0	0	%100
99	M124	X	4.127	4.127	0	%100
100	M124	Z	-7.149	-7.149	0	%100
101	M125	X	0	0	0	%100
102	M125	Z	0	0	0	%100
103	M126	X	4.127	4.127	0	%100
104	M126	Z	-7.149	-7.149	0	%100
105	MP3C	X	4.586	4.586	0	%100
106	MP3C	Z	-7.943	-7.943	0	%100
107	MP4C	X	4.586	4.586	0	%100
108	MP4C	Z	-7.943	-7.943	0	%100
109	MP2C	X	4.586	4.586	0	%100
110	MP2C	Z	-7.943	-7.943	0	%100
111	MP1C	X	4.586	4.586	0	%100
112	MP1C	Z	-7.943	-7.943	0	%100
113	MP3B	X	4.586	4.586	0	%100
114	MP3B	Z	-7.943	-7.943	0	%100
115	MP4B	X	4.586	4.586	0	%100
116	MP4B	Z	-7.943	-7.943	0	%100
117	MP2B	X	4.586	4.586	0	%100
118	MP2B	Z	-7.943	-7.943	0	%100
119	MP1B	X	4.586	4.586	0	%100
120	MP1B	Z	-7.943	-7.943	0	%100
121	OVP	X	4.179	4.179	0	%100
122	OVP	Z	-7.238	-7.238	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.926	2.926	0	%100
2	M1	Z	-1.689	-1.689	0	%100
3	M4	X	8.917	8.917	0	%100
4	M4	Z	-5.148	-5.148	0	%100
5	M10	X	2.515	2.515	0	%100
6	M10	Z	-1.452	-1.452	0	%100
7	MP3A	X	7.943	7.943	0	%100
8	MP3A	Z	-4.586	-4.586	0	%100
9	MP4A	X	7.943	7.943	0	%100
10	MP4A	Z	-4.586	-4.586	0	%100
11	MP2A	X	7.943	7.943	0	%100
12	MP2A	Z	-4.586	-4.586	0	%100
13	MP1A	X	7.943	7.943	0	%100
14	MP1A	Z	-4.586	-4.586	0	%100
15	M43	X	2.515	2.515	0	%100
16	M43	Z	-1.452	-1.452	0	%100
17	M46	X	5.016	5.016	0	%100
18	M46	Z	-2.896	-2.896	0	%100
19	M51B	X	11.142	11.142	0	%100
20	M51B	Z	-6.433	-6.433	0	%100
21	M52B	X	2.786	2.786	0	%100
22	M52B	Z	-1.608	-1.608	0	%100
23	M76	X	15.049	15.049	0	%100
24	M76	Z	-8.689	-8.689	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,%]
25	M77	X	20.437	20.437	0	%100
26	M77	Z	-11.799	-11.799	0	%100
27	M80	X	21.526	21.526	0	%100
28	M80	Z	-12.428	-12.428	0	%100
29	M84	X	15.049	15.049	0	%100
30	M84	Z	-8.689	-8.689	0	%100
31	M85	X	5.109	5.109	0	%100
32	M85	Z	-2.95	-2.95	0	%100
33	M91	X	5.381	5.381	0	%100
34	M91	Z	-3.107	-3.107	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	10.06	10.06	0	%100
38	M53	Z	-5.808	-5.808	0	%100
39	M54	X	10.06	10.06	0	%100
40	M54	Z	-5.808	-5.808	0	%100
41	M55	X	20.066	20.066	0	%100
42	M55	Z	-11.585	-11.585	0	%100
43	M58A	X	2.786	2.786	0	%100
44	M58A	Z	-1.608	-1.608	0	%100
45	M59A	X	2.786	2.786	0	%100
46	M59A	Z	-1.608	-1.608	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	5.109	5.109	0	%100
50	M64	Z	-2.95	-2.95	0	%100
51	M66	X	5.381	5.381	0	%100
52	M66	Z	-3.107	-3.107	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	5.109	5.109	0	%100
56	M69	Z	-2.95	-2.95	0	%100
57	M71	X	5.381	5.381	0	%100
58	M71	Z	-3.107	-3.107	0	%100
59	M76A	X	8.917	8.917	0	%100
60	M76A	Z	-5.148	-5.148	0	%100
61	M77A	X	2.515	2.515	0	%100
62	M77A	Z	-1.452	-1.452	0	%100
63	M78	X	2.515	2.515	0	%100
64	M78	Z	-1.452	-1.452	0	%100
65	M79A	X	5.016	5.016	0	%100
66	M79A	Z	-2.896	-2.896	0	%100
67	M82	X	2.786	2.786	0	%100
68	M82	Z	-1.608	-1.608	0	%100
69	M83A	X	11.142	11.142	0	%100
70	M83A	Z	-6.433	-6.433	0	%100
71	M87	X	15.049	15.049	0	%100
72	M87	Z	-8.689	-8.689	0	%100
73	M88A	X	5.109	5.109	0	%100
74	M88A	Z	-2.95	-2.95	0	%100
75	M90	X	5.381	5.381	0	%100
76	M90	Z	-3.107	-3.107	0	%100
77	M92A	X	15.049	15.049	0	%100
78	M92A	Z	-8.689	-8.689	0	%100
79	M93	X	20.437	20.437	0	%100
80	M93	Z	-11.799	-11.799	0	%100
81	M95	X	21.526	21.526	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,%]
82	M95	Z	-12.428	-12.428	0	%100
83	M82A	X	11.705	11.705	0	%100
84	M82A	Z	-6.758	-6.758	0	%100
85	M91B	X	2.926	2.926	0	%100
86	M91B	Z	-1.689	-1.689	0	%100
87	M100	X	11.679	11.679	0	%100
88	M100	Z	-6.743	-6.743	0	%100
89	M101	X	1.986	1.986	0	%100
90	M101	Z	-1.146	-1.146	0	%100
91	M108	X	6.021	6.021	0	%100
92	M108	Z	-3.476	-3.476	0	%100
93	M109	X	7.943	7.943	0	%100
94	M109	Z	-4.586	-4.586	0	%100
95	M116	X	11.679	11.679	0	%100
96	M116	Z	-6.743	-6.743	0	%100
97	M117	X	1.986	1.986	0	%100
98	M117	Z	-1.146	-1.146	0	%100
99	M124	X	9.532	9.532	0	%100
100	M124	Z	-5.503	-5.503	0	%100
101	M125	X	2.383	2.383	0	%100
102	M125	Z	-1.376	-1.376	0	%100
103	M126	X	2.383	2.383	0	%100
104	M126	Z	-1.376	-1.376	0	%100
105	MP3C	X	7.943	7.943	0	%100
106	MP3C	Z	-4.586	-4.586	0	%100
107	MP4C	X	7.943	7.943	0	%100
108	MP4C	Z	-4.586	-4.586	0	%100
109	MP2C	X	7.943	7.943	0	%100
110	MP2C	Z	-4.586	-4.586	0	%100
111	MP1C	X	7.943	7.943	0	%100
112	MP1C	Z	-4.586	-4.586	0	%100
113	MP3B	X	7.943	7.943	0	%100
114	MP3B	Z	-4.586	-4.586	0	%100
115	MP4B	X	7.943	7.943	0	%100
116	MP4B	Z	-4.586	-4.586	0	%100
117	MP2B	X	7.943	7.943	0	%100
118	MP2B	Z	-4.586	-4.586	0	%100
119	MP1B	X	7.943	7.943	0	%100
120	MP1B	Z	-4.586	-4.586	0	%100
121	OVP	X	7.238	7.238	0	%100
122	OVP	Z	-4.179	-4.179	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	13.728	13.728	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	9.171	9.171	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	9.171	9.171	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	9.171	9.171	0	%100
12	MP2A	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,%]
13	MP1A	X	9.171	9.171	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	9.649	9.649	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	9.649	9.649	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	23.17	23.17	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	17.699	17.699	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	18.642	18.642	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	23.17	23.17	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	17.699	17.699	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	18.642	18.642	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	3.432	3.432	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	8.712	8.712	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	8.712	8.712	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	17.377	17.377	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	9.649	9.649	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	0	0	0	%100
47	M63	X	5.792	5.792	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	17.699	17.699	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	18.642	18.642	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	5.792	5.792	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	0	0	0	%100
57	M71	X	0	0	0	%100
58	M71	Z	0	0	0	%100
59	M76A	X	3.432	3.432	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	8.712	8.712	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	8.712	8.712	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	17.377	17.377	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	0	0	0	%100
69	M83A	X	9.649	9.649	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,%]
70	M83A	Z	0	0	0	%100
71	M87	X	5.792	5.792	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	0	0	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	0	0	0	%100
77	M92A	X	5.792	5.792	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	17.699	17.699	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	18.642	18.642	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	10.137	10.137	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	10.137	10.137	0	%100
86	M91B	Z	0	0	0	%100
87	M100	X	15.664	15.664	0	%100
88	M100	Z	0	0	0	%100
89	M101	X	0	0	0	%100
90	M101	Z	0	0	0	%100
91	M108	X	9.13	9.13	0	%100
92	M108	Z	0	0	0	%100
93	M109	X	6.879	6.879	0	%100
94	M109	Z	0	0	0	%100
95	M116	X	9.13	9.13	0	%100
96	M116	Z	0	0	0	%100
97	M117	X	6.879	6.879	0	%100
98	M117	Z	0	0	0	%100
99	M124	X	8.255	8.255	0	%100
100	M124	Z	0	0	0	%100
101	M125	X	8.255	8.255	0	%100
102	M125	Z	0	0	0	%100
103	M126	X	0	0	0	%100
104	M126	Z	0	0	0	%100
105	MP3C	X	9.171	9.171	0	%100
106	MP3C	Z	0	0	0	%100
107	MP4C	X	9.171	9.171	0	%100
108	MP4C	Z	0	0	0	%100
109	MP2C	X	9.171	9.171	0	%100
110	MP2C	Z	0	0	0	%100
111	MP1C	X	9.171	9.171	0	%100
112	MP1C	Z	0	0	0	%100
113	MP3B	X	9.171	9.171	0	%100
114	MP3B	Z	0	0	0	%100
115	MP4B	X	9.171	9.171	0	%100
116	MP4B	Z	0	0	0	%100
117	MP2B	X	9.171	9.171	0	%100
118	MP2B	Z	0	0	0	%100
119	MP1B	X	9.171	9.171	0	%100
120	MP1B	Z	0	0	0	%100
121	OVP	X	8.358	8.358	0	%100
122	OVP	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,%]

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,%]
1	M1	X	2.926	2.926	0	%100
2	M1	Z	1.689	1.689	0	%100
3	M4	X	8.917	8.917	0	%100
4	M4	Z	5.148	5.148	0	%100
5	M10	X	2.515	2.515	0	%100
6	M10	Z	1.452	1.452	0	%100
7	MP3A	X	7.943	7.943	0	%100
8	MP3A	Z	4.586	4.586	0	%100
9	MP4A	X	7.943	7.943	0	%100
10	MP4A	Z	4.586	4.586	0	%100
11	MP2A	X	7.943	7.943	0	%100
12	MP2A	Z	4.586	4.586	0	%100
13	MP1A	X	7.943	7.943	0	%100
14	MP1A	Z	4.586	4.586	0	%100
15	M43	X	2.515	2.515	0	%100
16	M43	Z	1.452	1.452	0	%100
17	M46	X	5.016	5.016	0	%100
18	M46	Z	2.896	2.896	0	%100
19	M51B	X	2.786	2.786	0	%100
20	M51B	Z	1.608	1.608	0	%100
21	M52B	X	11.142	11.142	0	%100
22	M52B	Z	6.433	6.433	0	%100
23	M76	X	15.049	15.049	0	%100
24	M76	Z	8.689	8.689	0	%100
25	M77	X	5.109	5.109	0	%100
26	M77	Z	2.95	2.95	0	%100
27	M80	X	5.381	5.381	0	%100
28	M80	Z	3.107	3.107	0	%100
29	M84	X	15.049	15.049	0	%100
30	M84	Z	8.689	8.689	0	%100
31	M85	X	20.437	20.437	0	%100
32	M85	Z	11.799	11.799	0	%100
33	M91	X	21.526	21.526	0	%100
34	M91	Z	12.428	12.428	0	%100
35	M52A	X	8.917	8.917	0	%100
36	M52A	Z	5.148	5.148	0	%100
37	M53	X	2.515	2.515	0	%100
38	M53	Z	1.452	1.452	0	%100
39	M54	X	2.515	2.515	0	%100
40	M54	Z	1.452	1.452	0	%100
41	M55	X	5.016	5.016	0	%100
42	M55	Z	2.896	2.896	0	%100
43	M58A	X	11.142	11.142	0	%100
44	M58A	Z	6.433	6.433	0	%100
45	M59A	X	2.786	2.786	0	%100
46	M59A	Z	1.608	1.608	0	%100
47	M63	X	15.049	15.049	0	%100
48	M63	Z	8.689	8.689	0	%100
49	M64	X	20.437	20.437	0	%100
50	M64	Z	11.799	11.799	0	%100
51	M66	X	21.526	21.526	0	%100
52	M66	Z	12.428	12.428	0	%100
53	M68	X	15.049	15.049	0	%100
54	M68	Z	8.689	8.689	0	%100
55	M69	X	5.109	5.109	0	%100
56	M69	Z	2.95	2.95	0	%100
57	M71	X	5.381	5.381	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	3.107	3.107	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	10.06	10.06	0	%100
62	M77A	Z	5.808	5.808	0	%100
63	M78	X	10.06	10.06	0	%100
64	M78	Z	5.808	5.808	0	%100
65	M79A	X	20.066	20.066	0	%100
66	M79A	Z	11.585	11.585	0	%100
67	M82	X	2.786	2.786	0	%100
68	M82	Z	1.608	1.608	0	%100
69	M83A	X	2.786	2.786	0	%100
70	M83A	Z	1.608	1.608	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	5.109	5.109	0	%100
74	M88A	Z	2.95	2.95	0	%100
75	M90	X	5.381	5.381	0	%100
76	M90	Z	3.107	3.107	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	5.109	5.109	0	%100
80	M93	Z	2.95	2.95	0	%100
81	M95	X	5.381	5.381	0	%100
82	M95	Z	3.107	3.107	0	%100
83	M82A	X	2.926	2.926	0	%100
84	M82A	Z	1.689	1.689	0	%100
85	M91B	X	11.705	11.705	0	%100
86	M91B	Z	6.758	6.758	0	%100
87	M100	X	11.679	11.679	0	%100
88	M100	Z	6.743	6.743	0	%100
89	M101	X	1.986	1.986	0	%100
90	M101	Z	1.146	1.146	0	%100
91	M108	X	11.679	11.679	0	%100
92	M108	Z	6.743	6.743	0	%100
93	M109	X	1.986	1.986	0	%100
94	M109	Z	1.146	1.146	0	%100
95	M116	X	6.021	6.021	0	%100
96	M116	Z	3.476	3.476	0	%100
97	M117	X	7.943	7.943	0	%100
98	M117	Z	4.586	4.586	0	%100
99	M124	X	2.383	2.383	0	%100
100	M124	Z	1.376	1.376	0	%100
101	M125	X	9.532	9.532	0	%100
102	M125	Z	5.503	5.503	0	%100
103	M126	X	2.383	2.383	0	%100
104	M126	Z	1.376	1.376	0	%100
105	MP3C	X	7.943	7.943	0	%100
106	MP3C	Z	4.586	4.586	0	%100
107	MP4C	X	7.943	7.943	0	%100
108	MP4C	Z	4.586	4.586	0	%100
109	MP2C	X	7.943	7.943	0	%100
110	MP2C	Z	4.586	4.586	0	%100
111	MP1C	X	7.943	7.943	0	%100
112	MP1C	Z	4.586	4.586	0	%100
113	MP3B	X	7.943	7.943	0	%100
114	MP3B	Z	4.586	4.586	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,%]
115	MP4B	X	7.943	7.943	0	%100
116	MP4B	Z	4.586	4.586	0	%100
117	MP2B	X	7.943	7.943	0	%100
118	MP2B	Z	4.586	4.586	0	%100
119	MP1B	X	7.943	7.943	0	%100
120	MP1B	Z	4.586	4.586	0	%100
121	OVP	X	7.238	7.238	0	%100
122	OVP	Z	4.179	4.179	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	5.068	5.068	0	%100
2	M1	Z	8.779	8.779	0	%100
3	M4	X	1.716	1.716	0	%100
4	M4	Z	2.972	2.972	0	%100
5	M10	X	4.356	4.356	0	%100
6	M10	Z	7.545	7.545	0	%100
7	MP3A	X	4.586	4.586	0	%100
8	MP3A	Z	7.943	7.943	0	%100
9	MP4A	X	4.586	4.586	0	%100
10	MP4A	Z	7.943	7.943	0	%100
11	MP2A	X	4.586	4.586	0	%100
12	MP2A	Z	7.943	7.943	0	%100
13	MP1A	X	4.586	4.586	0	%100
14	MP1A	Z	7.943	7.943	0	%100
15	M43	X	4.356	4.356	0	%100
16	M43	Z	7.545	7.545	0	%100
17	M46	X	8.689	8.689	0	%100
18	M46	Z	15.049	15.049	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	4.825	4.825	0	%100
22	M52B	Z	8.357	8.357	0	%100
23	M76	X	2.896	2.896	0	%100
24	M76	Z	5.016	5.016	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	2.896	2.896	0	%100
30	M84	Z	5.016	5.016	0	%100
31	M85	X	8.85	8.85	0	%100
32	M85	Z	15.328	15.328	0	%100
33	M91	X	9.321	9.321	0	%100
34	M91	Z	16.144	16.144	0	%100
35	M52A	X	6.864	6.864	0	%100
36	M52A	Z	11.889	11.889	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	4.825	4.825	0	%100
44	M58A	Z	8.357	8.357	0	%100
45	M59A	X	4.825	4.825	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,%]
46	M59A	Z	8.357	8.357	0	%100
47	M63	X	11.585	11.585	0	%100
48	M63	Z	20.066	20.066	0	%100
49	M64	X	8.85	8.85	0	%100
50	M64	Z	15.328	15.328	0	%100
51	M66	X	9.321	9.321	0	%100
52	M66	Z	16.144	16.144	0	%100
53	M68	X	11.585	11.585	0	%100
54	M68	Z	20.066	20.066	0	%100
55	M69	X	8.85	8.85	0	%100
56	M69	Z	15.328	15.328	0	%100
57	M71	X	9.321	9.321	0	%100
58	M71	Z	16.144	16.144	0	%100
59	M76A	X	1.716	1.716	0	%100
60	M76A	Z	2.972	2.972	0	%100
61	M77A	X	4.356	4.356	0	%100
62	M77A	Z	7.545	7.545	0	%100
63	M78	X	4.356	4.356	0	%100
64	M78	Z	7.545	7.545	0	%100
65	M79A	X	8.689	8.689	0	%100
66	M79A	Z	15.049	15.049	0	%100
67	M82	X	4.825	4.825	0	%100
68	M82	Z	8.357	8.357	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	2.896	2.896	0	%100
72	M87	Z	5.016	5.016	0	%100
73	M88A	X	8.85	8.85	0	%100
74	M88A	Z	15.328	15.328	0	%100
75	M90	X	9.321	9.321	0	%100
76	M90	Z	16.144	16.144	0	%100
77	M92A	X	2.896	2.896	0	%100
78	M92A	Z	5.016	5.016	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	5.068	5.068	0	%100
86	M91B	Z	8.779	8.779	0	%100
87	M100	X	4.565	4.565	0	%100
88	M100	Z	7.907	7.907	0	%100
89	M101	X	3.439	3.439	0	%100
90	M101	Z	5.957	5.957	0	%100
91	M108	X	7.832	7.832	0	%100
92	M108	Z	13.565	13.565	0	%100
93	M109	X	0	0	0	%100
94	M109	Z	0	0	0	%100
95	M116	X	4.565	4.565	0	%100
96	M116	Z	7.907	7.907	0	%100
97	M117	X	3.439	3.439	0	%100
98	M117	Z	5.957	5.957	0	%100
99	M124	X	0	0	0	%100
100	M124	Z	0	0	0	%100
101	M125	X	4.127	4.127	0	%100
102	M125	Z	7.149	7.149	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,%]
103	M126	X	4.127	4.127	0	%100
104	M126	Z	7.149	7.149	0	%100
105	MP3C	X	4.586	4.586	0	%100
106	MP3C	Z	7.943	7.943	0	%100
107	MP4C	X	4.586	4.586	0	%100
108	MP4C	Z	7.943	7.943	0	%100
109	MP2C	X	4.586	4.586	0	%100
110	MP2C	Z	7.943	7.943	0	%100
111	MP1C	X	4.586	4.586	0	%100
112	MP1C	Z	7.943	7.943	0	%100
113	MP3B	X	4.586	4.586	0	%100
114	MP3B	Z	7.943	7.943	0	%100
115	MP4B	X	4.586	4.586	0	%100
116	MP4B	Z	7.943	7.943	0	%100
117	MP2B	X	4.586	4.586	0	%100
118	MP2B	Z	7.943	7.943	0	%100
119	MP1B	X	4.586	4.586	0	%100
120	MP1B	Z	7.943	7.943	0	%100
121	OVP	X	4.179	4.179	0	%100
122	OVP	Z	7.238	7.238	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	13.516	13.516	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	11.616	11.616	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	9.171	9.171	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	9.171	9.171	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	9.171	9.171	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	9.171	9.171	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	11.616	11.616	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	23.17	23.17	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	3.216	3.216	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	3.216	3.216	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	5.9	5.9	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	6.214	6.214	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	5.9	5.9	0	%100
33	M91	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
34	M91	Z	6.214	6.214	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	10.296	10.296	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	2.904	2.904	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	2.904	2.904	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	5.792	5.792	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	3.216	3.216	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	12.866	12.866	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	17.377	17.377	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	5.9	5.9	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	6.214	6.214	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	17.377	17.377	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	23.599	23.599	0	%100
57	M71	X	0	0	0	%100
58	M71	Z	24.856	24.856	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	10.296	10.296	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	2.904	2.904	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	2.904	2.904	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	5.792	5.792	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	12.866	12.866	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	3.216	3.216	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	17.377	17.377	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	23.599	23.599	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	24.856	24.856	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	17.377	17.377	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	5.9	5.9	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	6.214	6.214	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	3.379	3.379	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	3.379	3.379	0	%100
87	M100	X	0	0	0	%100
88	M100	Z	6.952	6.952	0	%100
89	M101	X	0	0	0	%100
90	M101	Z	9.171	9.171	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,%]
91	M108	X	0	0	0	%100
92	M108	Z	13.486	13.486	0	%100
93	M109	X	0	0	0	%100
94	M109	Z	2.293	2.293	0	%100
95	M116	X	0	0	0	%100
96	M116	Z	13.486	13.486	0	%100
97	M117	X	0	0	0	%100
98	M117	Z	2.293	2.293	0	%100
99	M124	X	0	0	0	%100
100	M124	Z	2.752	2.752	0	%100
101	M125	X	0	0	0	%100
102	M125	Z	2.752	2.752	0	%100
103	M126	X	0	0	0	%100
104	M126	Z	11.006	11.006	0	%100
105	MP3C	X	0	0	0	%100
106	MP3C	Z	9.171	9.171	0	%100
107	MP4C	X	0	0	0	%100
108	MP4C	Z	9.171	9.171	0	%100
109	MP2C	X	0	0	0	%100
110	MP2C	Z	9.171	9.171	0	%100
111	MP1C	X	0	0	0	%100
112	MP1C	Z	9.171	9.171	0	%100
113	MP3B	X	0	0	0	%100
114	MP3B	Z	9.171	9.171	0	%100
115	MP4B	X	0	0	0	%100
116	MP4B	Z	9.171	9.171	0	%100
117	MP2B	X	0	0	0	%100
118	MP2B	Z	9.171	9.171	0	%100
119	MP1B	X	0	0	0	%100
120	MP1B	Z	9.171	9.171	0	%100
121	OVP	X	0	0	0	%100
122	OVP	Z	8.358	8.358	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-5.068	-5.068	0	%100
2	M1	Z	8.779	8.779	0	%100
3	M4	X	-1.716	-1.716	0	%100
4	M4	Z	2.972	2.972	0	%100
5	M10	X	-4.356	-4.356	0	%100
6	M10	Z	7.545	7.545	0	%100
7	MP3A	X	-4.586	-4.586	0	%100
8	MP3A	Z	7.943	7.943	0	%100
9	MP4A	X	-4.586	-4.586	0	%100
10	MP4A	Z	7.943	7.943	0	%100
11	MP2A	X	-4.586	-4.586	0	%100
12	MP2A	Z	7.943	7.943	0	%100
13	MP1A	X	-4.586	-4.586	0	%100
14	MP1A	Z	7.943	7.943	0	%100
15	M43	X	-4.356	-4.356	0	%100
16	M43	Z	7.545	7.545	0	%100
17	M46	X	-8.689	-8.689	0	%100
18	M46	Z	15.049	15.049	0	%100
19	M51B	X	-4.825	-4.825	0	%100
20	M51B	Z	8.357	8.357	0	%100
21	M52B	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,%]
22	M52B	Z	0	0	0	%100
23	M76	X	-2.896	-2.896	0	%100
24	M76	Z	5.016	5.016	0	%100
25	M77	X	-8.85	-8.85	0	%100
26	M77	Z	15.328	15.328	0	%100
27	M80	X	-9.321	-9.321	0	%100
28	M80	Z	16.144	16.144	0	%100
29	M84	X	-2.896	-2.896	0	%100
30	M84	Z	5.016	5.016	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	-1.716	-1.716	0	%100
36	M52A	Z	2.972	2.972	0	%100
37	M53	X	-4.356	-4.356	0	%100
38	M53	Z	7.545	7.545	0	%100
39	M54	X	-4.356	-4.356	0	%100
40	M54	Z	7.545	7.545	0	%100
41	M55	X	-8.689	-8.689	0	%100
42	M55	Z	15.049	15.049	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	-4.825	-4.825	0	%100
46	M59A	Z	8.357	8.357	0	%100
47	M63	X	-2.896	-2.896	0	%100
48	M63	Z	5.016	5.016	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	-2.896	-2.896	0	%100
54	M68	Z	5.016	5.016	0	%100
55	M69	X	-8.85	-8.85	0	%100
56	M69	Z	15.328	15.328	0	%100
57	M71	X	-9.321	-9.321	0	%100
58	M71	Z	16.144	16.144	0	%100
59	M76A	X	-6.864	-6.864	0	%100
60	M76A	Z	11.889	11.889	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	-4.825	-4.825	0	%100
68	M82	Z	8.357	8.357	0	%100
69	M83A	X	-4.825	-4.825	0	%100
70	M83A	Z	8.357	8.357	0	%100
71	M87	X	-11.585	-11.585	0	%100
72	M87	Z	20.066	20.066	0	%100
73	M88A	X	-8.85	-8.85	0	%100
74	M88A	Z	15.328	15.328	0	%100
75	M90	X	-9.321	-9.321	0	%100
76	M90	Z	16.144	16.144	0	%100
77	M92A	X	-11.585	-11.585	0	%100
78	M92A	Z	20.066	20.066	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,%]
79	M93	X	-8.85	-8.85	0	%100
80	M93	Z	15.328	15.328	0	%100
81	M95	X	-9.321	-9.321	0	%100
82	M95	Z	16.144	16.144	0	%100
83	M82A	X	-5.068	-5.068	0	%100
84	M82A	Z	8.779	8.779	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	0	0	0	%100
87	M100	X	-4.565	-4.565	0	%100
88	M100	Z	7.907	7.907	0	%100
89	M101	X	-3.439	-3.439	0	%100
90	M101	Z	5.957	5.957	0	%100
91	M108	X	-4.565	-4.565	0	%100
92	M108	Z	7.907	7.907	0	%100
93	M109	X	-3.439	-3.439	0	%100
94	M109	Z	5.957	5.957	0	%100
95	M116	X	-7.832	-7.832	0	%100
96	M116	Z	13.565	13.565	0	%100
97	M117	X	0	0	0	%100
98	M117	Z	0	0	0	%100
99	M124	X	-4.127	-4.127	0	%100
100	M124	Z	7.149	7.149	0	%100
101	M125	X	0	0	0	%100
102	M125	Z	0	0	0	%100
103	M126	X	-4.127	-4.127	0	%100
104	M126	Z	7.149	7.149	0	%100
105	MP3C	X	-4.586	-4.586	0	%100
106	MP3C	Z	7.943	7.943	0	%100
107	MP4C	X	-4.586	-4.586	0	%100
108	MP4C	Z	7.943	7.943	0	%100
109	MP2C	X	-4.586	-4.586	0	%100
110	MP2C	Z	7.943	7.943	0	%100
111	MP1C	X	-4.586	-4.586	0	%100
112	MP1C	Z	7.943	7.943	0	%100
113	MP3B	X	-4.586	-4.586	0	%100
114	MP3B	Z	7.943	7.943	0	%100
115	MP4B	X	-4.586	-4.586	0	%100
116	MP4B	Z	7.943	7.943	0	%100
117	MP2B	X	-4.586	-4.586	0	%100
118	MP2B	Z	7.943	7.943	0	%100
119	MP1B	X	-4.586	-4.586	0	%100
120	MP1B	Z	7.943	7.943	0	%100
121	OVP	X	-4.179	-4.179	0	%100
122	OVP	Z	7.238	7.238	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.926	-2.926	0	%100
2	M1	Z	1.689	1.689	0	%100
3	M4	X	-8.917	-8.917	0	%100
4	M4	Z	5.148	5.148	0	%100
5	M10	X	-2.515	-2.515	0	%100
6	M10	Z	1.452	1.452	0	%100
7	MP3A	X	-7.943	-7.943	0	%100
8	MP3A	Z	4.586	4.586	0	%100
9	MP4A	X	-7.943	-7.943	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,%]
10	MP4A	Z	4.586	4.586	0	%100
11	MP2A	X	-7.943	-7.943	0	%100
12	MP2A	Z	4.586	4.586	0	%100
13	MP1A	X	-7.943	-7.943	0	%100
14	MP1A	Z	4.586	4.586	0	%100
15	M43	X	-2.515	-2.515	0	%100
16	M43	Z	1.452	1.452	0	%100
17	M46	X	-5.016	-5.016	0	%100
18	M46	Z	2.896	2.896	0	%100
19	M51B	X	-11.142	-11.142	0	%100
20	M51B	Z	6.433	6.433	0	%100
21	M52B	X	-2.786	-2.786	0	%100
22	M52B	Z	1.608	1.608	0	%100
23	M76	X	-15.049	-15.049	0	%100
24	M76	Z	8.689	8.689	0	%100
25	M77	X	-20.437	-20.437	0	%100
26	M77	Z	11.799	11.799	0	%100
27	M80	X	-21.526	-21.526	0	%100
28	M80	Z	12.428	12.428	0	%100
29	M84	X	-15.049	-15.049	0	%100
30	M84	Z	8.689	8.689	0	%100
31	M85	X	-5.109	-5.109	0	%100
32	M85	Z	2.95	2.95	0	%100
33	M91	X	-5.381	-5.381	0	%100
34	M91	Z	3.107	3.107	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	-10.06	-10.06	0	%100
38	M53	Z	5.808	5.808	0	%100
39	M54	X	-10.06	-10.06	0	%100
40	M54	Z	5.808	5.808	0	%100
41	M55	X	-20.066	-20.066	0	%100
42	M55	Z	11.585	11.585	0	%100
43	M58A	X	-2.786	-2.786	0	%100
44	M58A	Z	1.608	1.608	0	%100
45	M59A	X	-2.786	-2.786	0	%100
46	M59A	Z	1.608	1.608	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	-5.109	-5.109	0	%100
50	M64	Z	2.95	2.95	0	%100
51	M66	X	-5.381	-5.381	0	%100
52	M66	Z	3.107	3.107	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	-5.109	-5.109	0	%100
56	M69	Z	2.95	2.95	0	%100
57	M71	X	-5.381	-5.381	0	%100
58	M71	Z	3.107	3.107	0	%100
59	M76A	X	-8.917	-8.917	0	%100
60	M76A	Z	5.148	5.148	0	%100
61	M77A	X	-2.515	-2.515	0	%100
62	M77A	Z	1.452	1.452	0	%100
63	M78	X	-2.515	-2.515	0	%100
64	M78	Z	1.452	1.452	0	%100
65	M79A	X	-5.016	-5.016	0	%100
66	M79A	Z	2.896	2.896	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,%]
67	M82	X	-2.786	-2.786	0	%100
68	M82	Z	1.608	1.608	0	%100
69	M83A	X	-11.142	-11.142	0	%100
70	M83A	Z	6.433	6.433	0	%100
71	M87	X	-15.049	-15.049	0	%100
72	M87	Z	8.689	8.689	0	%100
73	M88A	X	-5.109	-5.109	0	%100
74	M88A	Z	2.95	2.95	0	%100
75	M90	X	-5.381	-5.381	0	%100
76	M90	Z	3.107	3.107	0	%100
77	M92A	X	-15.049	-15.049	0	%100
78	M92A	Z	8.689	8.689	0	%100
79	M93	X	-20.437	-20.437	0	%100
80	M93	Z	11.799	11.799	0	%100
81	M95	X	-21.526	-21.526	0	%100
82	M95	Z	12.428	12.428	0	%100
83	M82A	X	-11.705	-11.705	0	%100
84	M82A	Z	6.758	6.758	0	%100
85	M91B	X	-2.926	-2.926	0	%100
86	M91B	Z	1.689	1.689	0	%100
87	M100	X	-11.679	-11.679	0	%100
88	M100	Z	6.743	6.743	0	%100
89	M101	X	-1.986	-1.986	0	%100
90	M101	Z	1.146	1.146	0	%100
91	M108	X	-6.021	-6.021	0	%100
92	M108	Z	3.476	3.476	0	%100
93	M109	X	-7.943	-7.943	0	%100
94	M109	Z	4.586	4.586	0	%100
95	M116	X	-11.679	-11.679	0	%100
96	M116	Z	6.743	6.743	0	%100
97	M117	X	-1.986	-1.986	0	%100
98	M117	Z	1.146	1.146	0	%100
99	M124	X	-9.532	-9.532	0	%100
100	M124	Z	5.503	5.503	0	%100
101	M125	X	-2.383	-2.383	0	%100
102	M125	Z	1.376	1.376	0	%100
103	M126	X	-2.383	-2.383	0	%100
104	M126	Z	1.376	1.376	0	%100
105	MP3C	X	-7.943	-7.943	0	%100
106	MP3C	Z	4.586	4.586	0	%100
107	MP4C	X	-7.943	-7.943	0	%100
108	MP4C	Z	4.586	4.586	0	%100
109	MP2C	X	-7.943	-7.943	0	%100
110	MP2C	Z	4.586	4.586	0	%100
111	MP1C	X	-7.943	-7.943	0	%100
112	MP1C	Z	4.586	4.586	0	%100
113	MP3B	X	-7.943	-7.943	0	%100
114	MP3B	Z	4.586	4.586	0	%100
115	MP4B	X	-7.943	-7.943	0	%100
116	MP4B	Z	4.586	4.586	0	%100
117	MP2B	X	-7.943	-7.943	0	%100
118	MP2B	Z	4.586	4.586	0	%100
119	MP1B	X	-7.943	-7.943	0	%100
120	MP1B	Z	4.586	4.586	0	%100
121	OVP	X	-7.238	-7.238	0	%100
122	OVP	Z	4.179	4.179	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-13.728	-13.728	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	-9.171	-9.171	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	-9.171	-9.171	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	-9.171	-9.171	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-9.171	-9.171	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	-9.649	-9.649	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-9.649	-9.649	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-23.17	-23.17	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	-17.699	-17.699	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	-18.642	-18.642	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-23.17	-23.17	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	-17.699	-17.699	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	-18.642	-18.642	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	-3.432	-3.432	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	-8.712	-8.712	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	-8.712	-8.712	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	-17.377	-17.377	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	-9.649	-9.649	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	0	0	0	%100
47	M63	X	-5.792	-5.792	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	-17.699	-17.699	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	-18.642	-18.642	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	-5.792	-5.792	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	0	0	0	%100
57	M71	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	M71	Z	0	0	0	%100
59	M76A	X	-3.432	-3.432	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	-8.712	-8.712	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	-8.712	-8.712	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	-17.377	-17.377	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	0	0	0	%100
69	M83A	X	-9.649	-9.649	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	-5.792	-5.792	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	0	0	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	0	0	0	%100
77	M92A	X	-5.792	-5.792	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	-17.699	-17.699	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	-18.642	-18.642	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	-10.137	-10.137	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	-10.137	-10.137	0	%100
86	M91B	Z	0	0	0	%100
87	M100	X	-15.664	-15.664	0	%100
88	M100	Z	0	0	0	%100
89	M101	X	0	0	0	%100
90	M101	Z	0	0	0	%100
91	M108	X	-9.13	-9.13	0	%100
92	M108	Z	0	0	0	%100
93	M109	X	-6.879	-6.879	0	%100
94	M109	Z	0	0	0	%100
95	M116	X	-9.13	-9.13	0	%100
96	M116	Z	0	0	0	%100
97	M117	X	-6.879	-6.879	0	%100
98	M117	Z	0	0	0	%100
99	M124	X	-8.255	-8.255	0	%100
100	M124	Z	0	0	0	%100
101	M125	X	-8.255	-8.255	0	%100
102	M125	Z	0	0	0	%100
103	M126	X	0	0	0	%100
104	M126	Z	0	0	0	%100
105	MP3C	X	-9.171	-9.171	0	%100
106	MP3C	Z	0	0	0	%100
107	MP4C	X	-9.171	-9.171	0	%100
108	MP4C	Z	0	0	0	%100
109	MP2C	X	-9.171	-9.171	0	%100
110	MP2C	Z	0	0	0	%100
111	MP1C	X	-9.171	-9.171	0	%100
112	MP1C	Z	0	0	0	%100
113	MP3B	X	-9.171	-9.171	0	%100
114	MP3B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
115	MP4B	X	-9.171	-9.171	0	%100
116	MP4B	Z	0	0	0	%100
117	MP2B	X	-9.171	-9.171	0	%100
118	MP2B	Z	0	0	0	%100
119	MP1B	X	-9.171	-9.171	0	%100
120	MP1B	Z	0	0	0	%100
121	OVP	X	-8.358	-8.358	0	%100
122	OVP	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.926	-2.926	0	%100
2	M1	Z	-1.689	-1.689	0	%100
3	M4	X	-8.917	-8.917	0	%100
4	M4	Z	-5.148	-5.148	0	%100
5	M10	X	-2.515	-2.515	0	%100
6	M10	Z	-1.452	-1.452	0	%100
7	MP3A	X	-7.943	-7.943	0	%100
8	MP3A	Z	-4.586	-4.586	0	%100
9	MP4A	X	-7.943	-7.943	0	%100
10	MP4A	Z	-4.586	-4.586	0	%100
11	MP2A	X	-7.943	-7.943	0	%100
12	MP2A	Z	-4.586	-4.586	0	%100
13	MP1A	X	-7.943	-7.943	0	%100
14	MP1A	Z	-4.586	-4.586	0	%100
15	M43	X	-2.515	-2.515	0	%100
16	M43	Z	-1.452	-1.452	0	%100
17	M46	X	-5.016	-5.016	0	%100
18	M46	Z	-2.896	-2.896	0	%100
19	M51B	X	-2.786	-2.786	0	%100
20	M51B	Z	-1.608	-1.608	0	%100
21	M52B	X	-11.142	-11.142	0	%100
22	M52B	Z	-6.433	-6.433	0	%100
23	M76	X	-15.049	-15.049	0	%100
24	M76	Z	-8.689	-8.689	0	%100
25	M77	X	-5.109	-5.109	0	%100
26	M77	Z	-2.95	-2.95	0	%100
27	M80	X	-5.381	-5.381	0	%100
28	M80	Z	-3.107	-3.107	0	%100
29	M84	X	-15.049	-15.049	0	%100
30	M84	Z	-8.689	-8.689	0	%100
31	M85	X	-20.437	-20.437	0	%100
32	M85	Z	-11.799	-11.799	0	%100
33	M91	X	-21.526	-21.526	0	%100
34	M91	Z	-12.428	-12.428	0	%100
35	M52A	X	-8.917	-8.917	0	%100
36	M52A	Z	-5.148	-5.148	0	%100
37	M53	X	-2.515	-2.515	0	%100
38	M53	Z	-1.452	-1.452	0	%100
39	M54	X	-2.515	-2.515	0	%100
40	M54	Z	-1.452	-1.452	0	%100
41	M55	X	-5.016	-5.016	0	%100
42	M55	Z	-2.896	-2.896	0	%100
43	M58A	X	-11.142	-11.142	0	%100
44	M58A	Z	-6.433	-6.433	0	%100
45	M59A	X	-2.786	-2.786	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,%]
46	M59A	Z	-1.608	-1.608	0	%100
47	M63	X	-15.049	-15.049	0	%100
48	M63	Z	-8.689	-8.689	0	%100
49	M64	X	-20.437	-20.437	0	%100
50	M64	Z	-11.799	-11.799	0	%100
51	M66	X	-21.526	-21.526	0	%100
52	M66	Z	-12.428	-12.428	0	%100
53	M68	X	-15.049	-15.049	0	%100
54	M68	Z	-8.689	-8.689	0	%100
55	M69	X	-5.109	-5.109	0	%100
56	M69	Z	-2.95	-2.95	0	%100
57	M71	X	-5.381	-5.381	0	%100
58	M71	Z	-3.107	-3.107	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	-10.06	-10.06	0	%100
62	M77A	Z	-5.808	-5.808	0	%100
63	M78	X	-10.06	-10.06	0	%100
64	M78	Z	-5.808	-5.808	0	%100
65	M79A	X	-20.066	-20.066	0	%100
66	M79A	Z	-11.585	-11.585	0	%100
67	M82	X	-2.786	-2.786	0	%100
68	M82	Z	-1.608	-1.608	0	%100
69	M83A	X	-2.786	-2.786	0	%100
70	M83A	Z	-1.608	-1.608	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	-5.109	-5.109	0	%100
74	M88A	Z	-2.95	-2.95	0	%100
75	M90	X	-5.381	-5.381	0	%100
76	M90	Z	-3.107	-3.107	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	-5.109	-5.109	0	%100
80	M93	Z	-2.95	-2.95	0	%100
81	M95	X	-5.381	-5.381	0	%100
82	M95	Z	-3.107	-3.107	0	%100
83	M82A	X	-2.926	-2.926	0	%100
84	M82A	Z	-1.689	-1.689	0	%100
85	M91B	X	-11.705	-11.705	0	%100
86	M91B	Z	-6.758	-6.758	0	%100
87	M100	X	-11.679	-11.679	0	%100
88	M100	Z	-6.743	-6.743	0	%100
89	M101	X	-1.986	-1.986	0	%100
90	M101	Z	-1.146	-1.146	0	%100
91	M108	X	-11.679	-11.679	0	%100
92	M108	Z	-6.743	-6.743	0	%100
93	M109	X	-1.986	-1.986	0	%100
94	M109	Z	-1.146	-1.146	0	%100
95	M116	X	-6.021	-6.021	0	%100
96	M116	Z	-3.476	-3.476	0	%100
97	M117	X	-7.943	-7.943	0	%100
98	M117	Z	-4.586	-4.586	0	%100
99	M124	X	-2.383	-2.383	0	%100
100	M124	Z	-1.376	-1.376	0	%100
101	M125	X	-9.532	-9.532	0	%100
102	M125	Z	-5.503	-5.503	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,%]
103	M126	X	-2.383	-2.383	0	%100
104	M126	Z	-1.376	-1.376	0	%100
105	MP3C	X	-7.943	-7.943	0	%100
106	MP3C	Z	-4.586	-4.586	0	%100
107	MP4C	X	-7.943	-7.943	0	%100
108	MP4C	Z	-4.586	-4.586	0	%100
109	MP2C	X	-7.943	-7.943	0	%100
110	MP2C	Z	-4.586	-4.586	0	%100
111	MP1C	X	-7.943	-7.943	0	%100
112	MP1C	Z	-4.586	-4.586	0	%100
113	MP3B	X	-7.943	-7.943	0	%100
114	MP3B	Z	-4.586	-4.586	0	%100
115	MP4B	X	-7.943	-7.943	0	%100
116	MP4B	Z	-4.586	-4.586	0	%100
117	MP2B	X	-7.943	-7.943	0	%100
118	MP2B	Z	-4.586	-4.586	0	%100
119	MP1B	X	-7.943	-7.943	0	%100
120	MP1B	Z	-4.586	-4.586	0	%100
121	OVP	X	-7.238	-7.238	0	%100
122	OVP	Z	-4.179	-4.179	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-5.068	-5.068	0	%100
2	M1	Z	-8.779	-8.779	0	%100
3	M4	X	-1.716	-1.716	0	%100
4	M4	Z	-2.972	-2.972	0	%100
5	M10	X	-4.356	-4.356	0	%100
6	M10	Z	-7.545	-7.545	0	%100
7	MP3A	X	-4.586	-4.586	0	%100
8	MP3A	Z	-7.943	-7.943	0	%100
9	MP4A	X	-4.586	-4.586	0	%100
10	MP4A	Z	-7.943	-7.943	0	%100
11	MP2A	X	-4.586	-4.586	0	%100
12	MP2A	Z	-7.943	-7.943	0	%100
13	MP1A	X	-4.586	-4.586	0	%100
14	MP1A	Z	-7.943	-7.943	0	%100
15	M43	X	-4.356	-4.356	0	%100
16	M43	Z	-7.545	-7.545	0	%100
17	M46	X	-8.689	-8.689	0	%100
18	M46	Z	-15.049	-15.049	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-4.825	-4.825	0	%100
22	M52B	Z	-8.357	-8.357	0	%100
23	M76	X	-2.896	-2.896	0	%100
24	M76	Z	-5.016	-5.016	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-2.896	-2.896	0	%100
30	M84	Z	-5.016	-5.016	0	%100
31	M85	X	-8.85	-8.85	0	%100
32	M85	Z	-15.328	-15.328	0	%100
33	M91	X	-9.321	-9.321	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,%]
34	M91	Z	-16.144	-16.144	0	%100
35	M52A	X	-6.864	-6.864	0	%100
36	M52A	Z	-11.889	-11.889	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	-4.825	-4.825	0	%100
44	M58A	Z	-8.357	-8.357	0	%100
45	M59A	X	-4.825	-4.825	0	%100
46	M59A	Z	-8.357	-8.357	0	%100
47	M63	X	-11.585	-11.585	0	%100
48	M63	Z	-20.066	-20.066	0	%100
49	M64	X	-8.85	-8.85	0	%100
50	M64	Z	-15.328	-15.328	0	%100
51	M66	X	-9.321	-9.321	0	%100
52	M66	Z	-16.144	-16.144	0	%100
53	M68	X	-11.585	-11.585	0	%100
54	M68	Z	-20.066	-20.066	0	%100
55	M69	X	-8.85	-8.85	0	%100
56	M69	Z	-15.328	-15.328	0	%100
57	M71	X	-9.321	-9.321	0	%100
58	M71	Z	-16.144	-16.144	0	%100
59	M76A	X	-1.716	-1.716	0	%100
60	M76A	Z	-2.972	-2.972	0	%100
61	M77A	X	-4.356	-4.356	0	%100
62	M77A	Z	-7.545	-7.545	0	%100
63	M78	X	-4.356	-4.356	0	%100
64	M78	Z	-7.545	-7.545	0	%100
65	M79A	X	-8.689	-8.689	0	%100
66	M79A	Z	-15.049	-15.049	0	%100
67	M82	X	-4.825	-4.825	0	%100
68	M82	Z	-8.357	-8.357	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	-2.896	-2.896	0	%100
72	M87	Z	-5.016	-5.016	0	%100
73	M88A	X	-8.85	-8.85	0	%100
74	M88A	Z	-15.328	-15.328	0	%100
75	M90	X	-9.321	-9.321	0	%100
76	M90	Z	-16.144	-16.144	0	%100
77	M92A	X	-2.896	-2.896	0	%100
78	M92A	Z	-5.016	-5.016	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	-5.068	-5.068	0	%100
86	M91B	Z	-8.779	-8.779	0	%100
87	M100	X	-4.565	-4.565	0	%100
88	M100	Z	-7.907	-7.907	0	%100
89	M101	X	-3.439	-3.439	0	%100
90	M101	Z	-5.957	-5.957	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,%]
91	M108	X	-7.832	-7.832	0	%100
92	M108	Z	-13.565	-13.565	0	%100
93	M109	X	0	0	0	%100
94	M109	Z	0	0	0	%100
95	M116	X	-4.565	-4.565	0	%100
96	M116	Z	-7.907	-7.907	0	%100
97	M117	X	-3.439	-3.439	0	%100
98	M117	Z	-5.957	-5.957	0	%100
99	M124	X	0	0	0	%100
100	M124	Z	0	0	0	%100
101	M125	X	-4.127	-4.127	0	%100
102	M125	Z	-7.149	-7.149	0	%100
103	M126	X	-4.127	-4.127	0	%100
104	M126	Z	-7.149	-7.149	0	%100
105	MP3C	X	-4.586	-4.586	0	%100
106	MP3C	Z	-7.943	-7.943	0	%100
107	MP4C	X	-4.586	-4.586	0	%100
108	MP4C	Z	-7.943	-7.943	0	%100
109	MP2C	X	-4.586	-4.586	0	%100
110	MP2C	Z	-7.943	-7.943	0	%100
111	MP1C	X	-4.586	-4.586	0	%100
112	MP1C	Z	-7.943	-7.943	0	%100
113	MP3B	X	-4.586	-4.586	0	%100
114	MP3B	Z	-7.943	-7.943	0	%100
115	MP4B	X	-4.586	-4.586	0	%100
116	MP4B	Z	-7.943	-7.943	0	%100
117	MP2B	X	-4.586	-4.586	0	%100
118	MP2B	Z	-7.943	-7.943	0	%100
119	MP1B	X	-4.586	-4.586	0	%100
120	MP1B	Z	-7.943	-7.943	0	%100
121	OVP	X	-4.179	-4.179	0	%100
122	OVP	Z	-7.238	-7.238	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	-2.775	-2.775	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-2.278	-2.278	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-2.24	-2.24	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-2.24	-2.24	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-2.24	-2.24	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	-2.24	-2.24	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	-2.278	-2.278	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	-3.558	-3.558	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	-.655	-.655	0	%100
21	M52B	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	M52B	Z	-.655	-.655	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	-.888	-.888	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	-.927	-.927	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	-.888	-.888	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	-.927	-.927	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	-2.101	-2.101	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	-.569	-.569	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	-.569	-.569	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	-.89	-.89	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	-.655	-.655	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	-2.62	-2.62	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	-2.626	-2.626	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	-.888	-.888	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	-.927	-.927	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	-2.626	-2.626	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	-3.554	-3.554	0	%100
57	M71	X	0	0	0	%100
58	M71	Z	-3.708	-3.708	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	-2.101	-2.101	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	-.569	-.569	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	-.569	-.569	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	-.89	-.89	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	-2.62	-2.62	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	-.655	-.655	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	-2.626	-2.626	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	-3.554	-3.554	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	-3.708	-3.708	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	-2.626	-2.626	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	M93	X	0	0	0	%100
80	M93	Z	-.888	-.888	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	-.927	-.927	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	-.694	-.694	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	-.694	-.694	0	%100
87	M100	X	0	0	0	%100
88	M100	Z	-1.148	-1.148	0	%100
89	M101	X	0	0	0	%100
90	M101	Z	-2.24	-2.24	0	%100
91	M108	X	0	0	0	%100
92	M108	Z	-2.567	-2.567	0	%100
93	M109	X	0	0	0	%100
94	M109	Z	-.56	-.56	0	%100
95	M116	X	0	0	0	%100
96	M116	Z	-2.567	-2.567	0	%100
97	M117	X	0	0	0	%100
98	M117	Z	-.56	-.56	0	%100
99	M124	X	0	0	0	%100
100	M124	Z	-.523	-.523	0	%100
101	M125	X	0	0	0	%100
102	M125	Z	-.523	-.523	0	%100
103	M126	X	0	0	0	%100
104	M126	Z	-2.09	-2.09	0	%100
105	MP3C	X	0	0	0	%100
106	MP3C	Z	-2.24	-2.24	0	%100
107	MP4C	X	0	0	0	%100
108	MP4C	Z	-2.24	-2.24	0	%100
109	MP2C	X	0	0	0	%100
110	MP2C	Z	-2.24	-2.24	0	%100
111	MP1C	X	0	0	0	%100
112	MP1C	Z	-2.24	-2.24	0	%100
113	MP3B	X	0	0	0	%100
114	MP3B	Z	-2.24	-2.24	0	%100
115	MP4B	X	0	0	0	%100
116	MP4B	Z	-2.24	-2.24	0	%100
117	MP2B	X	0	0	0	%100
118	MP2B	Z	-2.24	-2.24	0	%100
119	MP1B	X	0	0	0	%100
120	MP1B	Z	-2.24	-2.24	0	%100
121	OVP	X	0	0	0	%100
122	OVP	Z	-2.048	-2.048	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	1.041	1.041	0	%100
2	M1	Z	-1.803	-1.803	0	%100
3	M4	X	.35	.35	0	%100
4	M4	Z	-.607	-.607	0	%100
5	M10	X	.854	.854	0	%100
6	M10	Z	-1.48	-1.48	0	%100
7	MP3A	X	1.12	1.12	0	%100
8	MP3A	Z	-1.94	-1.94	0	%100
9	MP4A	X	1.12	1.12	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,%]
10	MP4A	Z	-1.94	-1.94	0	%100
11	MP2A	X	1.12	1.12	0	%100
12	MP2A	Z	-1.94	-1.94	0	%100
13	MP1A	X	1.12	1.12	0	%100
14	MP1A	Z	-1.94	-1.94	0	%100
15	M43	X	.854	.854	0	%100
16	M43	Z	-1.48	-1.48	0	%100
17	M46	X	1.334	1.334	0	%100
18	M46	Z	-2.311	-2.311	0	%100
19	M51B	X	.983	.983	0	%100
20	M51B	Z	-1.702	-1.702	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	.438	.438	0	%100
24	M76	Z	-.758	-.758	0	%100
25	M77	X	1.333	1.333	0	%100
26	M77	Z	-2.308	-2.308	0	%100
27	M80	X	1.391	1.391	0	%100
28	M80	Z	-2.409	-2.409	0	%100
29	M84	X	.438	.438	0	%100
30	M84	Z	-.758	-.758	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	.35	.35	0	%100
36	M52A	Z	-.607	-.607	0	%100
37	M53	X	.854	.854	0	%100
38	M53	Z	-1.48	-1.48	0	%100
39	M54	X	.854	.854	0	%100
40	M54	Z	-1.48	-1.48	0	%100
41	M55	X	1.334	1.334	0	%100
42	M55	Z	-2.311	-2.311	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	.983	.983	0	%100
46	M59A	Z	-1.702	-1.702	0	%100
47	M63	X	.438	.438	0	%100
48	M63	Z	-.758	-.758	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	.438	.438	0	%100
54	M68	Z	-.758	-.758	0	%100
55	M69	X	1.333	1.333	0	%100
56	M69	Z	-2.308	-2.308	0	%100
57	M71	X	1.391	1.391	0	%100
58	M71	Z	-2.409	-2.409	0	%100
59	M76A	X	1.401	1.401	0	%100
60	M76A	Z	-2.426	-2.426	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
67	M82	X	.983	.983	0	%100
68	M82	Z	-1.702	-1.702	0	%100
69	M83A	X	.983	.983	0	%100
70	M83A	Z	-1.702	-1.702	0	%100
71	M87	X	1.75	1.75	0	%100
72	M87	Z	-3.032	-3.032	0	%100
73	M88A	X	1.333	1.333	0	%100
74	M88A	Z	-2.308	-2.308	0	%100
75	M90	X	1.391	1.391	0	%100
76	M90	Z	-2.409	-2.409	0	%100
77	M92A	X	1.75	1.75	0	%100
78	M92A	Z	-3.032	-3.032	0	%100
79	M93	X	1.333	1.333	0	%100
80	M93	Z	-2.308	-2.308	0	%100
81	M95	X	1.391	1.391	0	%100
82	M95	Z	-2.409	-2.409	0	%100
83	M82A	X	1.041	1.041	0	%100
84	M82A	Z	-1.803	-1.803	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	0	0	0	%100
87	M100	X	.81	.81	0	%100
88	M100	Z	-1.404	-1.404	0	%100
89	M101	X	.84	.84	0	%100
90	M101	Z	-1.455	-1.455	0	%100
91	M108	X	.81	.81	0	%100
92	M108	Z	-1.404	-1.404	0	%100
93	M109	X	.84	.84	0	%100
94	M109	Z	-1.455	-1.455	0	%100
95	M116	X	1.52	1.52	0	%100
96	M116	Z	-2.633	-2.633	0	%100
97	M117	X	0	0	0	%100
98	M117	Z	0	0	0	%100
99	M124	X	.784	.784	0	%100
100	M124	Z	-1.358	-1.358	0	%100
101	M125	X	0	0	0	%100
102	M125	Z	0	0	0	%100
103	M126	X	.784	.784	0	%100
104	M126	Z	-1.358	-1.358	0	%100
105	MP3C	X	1.12	1.12	0	%100
106	MP3C	Z	-1.94	-1.94	0	%100
107	MP4C	X	1.12	1.12	0	%100
108	MP4C	Z	-1.94	-1.94	0	%100
109	MP2C	X	1.12	1.12	0	%100
110	MP2C	Z	-1.94	-1.94	0	%100
111	MP1C	X	1.12	1.12	0	%100
112	MP1C	Z	-1.94	-1.94	0	%100
113	MP3B	X	1.12	1.12	0	%100
114	MP3B	Z	-1.94	-1.94	0	%100
115	MP4B	X	1.12	1.12	0	%100
116	MP4B	Z	-1.94	-1.94	0	%100
117	MP2B	X	1.12	1.12	0	%100
118	MP2B	Z	-1.94	-1.94	0	%100
119	MP1B	X	1.12	1.12	0	%100
120	MP1B	Z	-1.94	-1.94	0	%100
121	OVP	X	1.024	1.024	0	%100
122	OVP	Z	-1.774	-1.774	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	.601	.601	0	%100
2	M1	Z	-.347	-.347	0	%100
3	M4	X	1.82	1.82	0	%100
4	M4	Z	-1.051	-1.051	0	%100
5	M10	X	.493	.493	0	%100
6	M10	Z	-.285	-.285	0	%100
7	MP3A	X	1.94	1.94	0	%100
8	MP3A	Z	-1.12	-1.12	0	%100
9	MP4A	X	1.94	1.94	0	%100
10	MP4A	Z	-1.12	-1.12	0	%100
11	MP2A	X	1.94	1.94	0	%100
12	MP2A	Z	-1.12	-1.12	0	%100
13	MP1A	X	1.94	1.94	0	%100
14	MP1A	Z	-1.12	-1.12	0	%100
15	M43	X	.493	.493	0	%100
16	M43	Z	-.285	-.285	0	%100
17	M46	X	.77	.77	0	%100
18	M46	Z	-.445	-.445	0	%100
19	M51B	X	2.269	2.269	0	%100
20	M51B	Z	-1.31	-1.31	0	%100
21	M52B	X	.567	.567	0	%100
22	M52B	Z	-.328	-.328	0	%100
23	M76	X	2.274	2.274	0	%100
24	M76	Z	-1.313	-1.313	0	%100
25	M77	X	3.078	3.078	0	%100
26	M77	Z	-1.777	-1.777	0	%100
27	M80	X	3.212	3.212	0	%100
28	M80	Z	-1.854	-1.854	0	%100
29	M84	X	2.274	2.274	0	%100
30	M84	Z	-1.313	-1.313	0	%100
31	M85	X	.769	.769	0	%100
32	M85	Z	-.444	-.444	0	%100
33	M91	X	.803	.803	0	%100
34	M91	Z	-.464	-.464	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	1.973	1.973	0	%100
38	M53	Z	-1.139	-1.139	0	%100
39	M54	X	1.973	1.973	0	%100
40	M54	Z	-1.139	-1.139	0	%100
41	M55	X	3.082	3.082	0	%100
42	M55	Z	-1.779	-1.779	0	%100
43	M58A	X	.567	.567	0	%100
44	M58A	Z	-.328	-.328	0	%100
45	M59A	X	.567	.567	0	%100
46	M59A	Z	-.328	-.328	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	.769	.769	0	%100
50	M64	Z	-.444	-.444	0	%100
51	M66	X	.803	.803	0	%100
52	M66	Z	-.464	-.464	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	.769	.769	0	%100
56	M69	Z	-.444	-.444	0	%100
57	M71	X	.803	.803	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	-.464	-.464	0	%100
59	M76A	X	1.82	1.82	0	%100
60	M76A	Z	-1.051	-1.051	0	%100
61	M77A	X	.493	.493	0	%100
62	M77A	Z	-.285	-.285	0	%100
63	M78	X	.493	.493	0	%100
64	M78	Z	-.285	-.285	0	%100
65	M79A	X	.77	.77	0	%100
66	M79A	Z	-.445	-.445	0	%100
67	M82	X	.567	.567	0	%100
68	M82	Z	-.328	-.328	0	%100
69	M83A	X	2.269	2.269	0	%100
70	M83A	Z	-1.31	-1.31	0	%100
71	M87	X	2.274	2.274	0	%100
72	M87	Z	-1.313	-1.313	0	%100
73	M88A	X	.769	.769	0	%100
74	M88A	Z	-.444	-.444	0	%100
75	M90	X	.803	.803	0	%100
76	M90	Z	-.464	-.464	0	%100
77	M92A	X	2.274	2.274	0	%100
78	M92A	Z	-1.313	-1.313	0	%100
79	M93	X	3.078	3.078	0	%100
80	M93	Z	-1.777	-1.777	0	%100
81	M95	X	3.212	3.212	0	%100
82	M95	Z	-1.854	-1.854	0	%100
83	M82A	X	2.403	2.403	0	%100
84	M82A	Z	-1.388	-1.388	0	%100
85	M91B	X	.601	.601	0	%100
86	M91B	Z	-.347	-.347	0	%100
87	M100	X	2.223	2.223	0	%100
88	M100	Z	-1.283	-1.283	0	%100
89	M101	X	.485	.485	0	%100
90	M101	Z	-.28	-.28	0	%100
91	M108	X	.994	.994	0	%100
92	M108	Z	-.574	-.574	0	%100
93	M109	X	1.94	1.94	0	%100
94	M109	Z	-1.12	-1.12	0	%100
95	M116	X	2.223	2.223	0	%100
96	M116	Z	-1.283	-1.283	0	%100
97	M117	X	.485	.485	0	%100
98	M117	Z	-.28	-.28	0	%100
99	M124	X	1.81	1.81	0	%100
100	M124	Z	-1.045	-1.045	0	%100
101	M125	X	.453	.453	0	%100
102	M125	Z	-.261	-.261	0	%100
103	M126	X	.453	.453	0	%100
104	M126	Z	-.261	-.261	0	%100
105	MP3C	X	1.94	1.94	0	%100
106	MP3C	Z	-1.12	-1.12	0	%100
107	MP4C	X	1.94	1.94	0	%100
108	MP4C	Z	-1.12	-1.12	0	%100
109	MP2C	X	1.94	1.94	0	%100
110	MP2C	Z	-1.12	-1.12	0	%100
111	MP1C	X	1.94	1.94	0	%100
112	MP1C	Z	-1.12	-1.12	0	%100
113	MP3B	X	1.94	1.94	0	%100
114	MP3B	Z	-1.12	-1.12	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,%]
115	MP4B	X	1.94	1.94	0	%100
116	MP4B	Z	-1.12	-1.12	0	%100
117	MP2B	X	1.94	1.94	0	%100
118	MP2B	Z	-1.12	-1.12	0	%100
119	MP1B	X	1.94	1.94	0	%100
120	MP1B	Z	-1.12	-1.12	0	%100
121	OVP	X	1.774	1.774	0	%100
122	OVP	Z	-1.024	-1.024	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	2.801	2.801	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	2.24	2.24	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	2.24	2.24	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	2.24	2.24	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	2.24	2.24	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	1.965	1.965	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	1.965	1.965	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	3.501	3.501	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	2.665	2.665	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	2.781	2.781	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	3.501	3.501	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	2.665	2.665	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	2.781	2.781	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	.7	.7	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	1.708	1.708	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	1.708	1.708	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	2.669	2.669	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	1.965	1.965	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	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,%]
46	M59A	Z	0	0	0	%100
47	M63	X	.875	.875	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	2.665	2.665	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	2.781	2.781	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	.875	.875	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	0	0	0	%100
57	M71	X	0	0	0	%100
58	M71	Z	0	0	0	%100
59	M76A	X	.7	.7	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	1.708	1.708	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	1.708	1.708	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	2.669	2.669	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	0	0	0	%100
69	M83A	X	1.965	1.965	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	.875	.875	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	0	0	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	0	0	0	%100
77	M92A	X	.875	.875	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	2.665	2.665	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	2.781	2.781	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	2.081	2.081	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	2.081	2.081	0	%100
86	M91B	Z	0	0	0	%100
87	M100	X	3.04	3.04	0	%100
88	M100	Z	0	0	0	%100
89	M101	X	0	0	0	%100
90	M101	Z	0	0	0	%100
91	M108	X	1.621	1.621	0	%100
92	M108	Z	0	0	0	%100
93	M109	X	1.68	1.68	0	%100
94	M109	Z	0	0	0	%100
95	M116	X	1.621	1.621	0	%100
96	M116	Z	0	0	0	%100
97	M117	X	1.68	1.68	0	%100
98	M117	Z	0	0	0	%100
99	M124	X	1.568	1.568	0	%100
100	M124	Z	0	0	0	%100
101	M125	X	1.568	1.568	0	%100
102	M125	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,%]
103	M126	X	0	0	0	%100
104	M126	Z	0	0	0	%100
105	MP3C	X	2.24	2.24	0	%100
106	MP3C	Z	0	0	0	%100
107	MP4C	X	2.24	2.24	0	%100
108	MP4C	Z	0	0	0	%100
109	MP2C	X	2.24	2.24	0	%100
110	MP2C	Z	0	0	0	%100
111	MP1C	X	2.24	2.24	0	%100
112	MP1C	Z	0	0	0	%100
113	MP3B	X	2.24	2.24	0	%100
114	MP3B	Z	0	0	0	%100
115	MP4B	X	2.24	2.24	0	%100
116	MP4B	Z	0	0	0	%100
117	MP2B	X	2.24	2.24	0	%100
118	MP2B	Z	0	0	0	%100
119	MP1B	X	2.24	2.24	0	%100
120	MP1B	Z	0	0	0	%100
121	OVP	X	2.048	2.048	0	%100
122	OVP	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	.601	.601	0	%100
2	M1	Z	.347	.347	0	%100
3	M4	X	1.82	1.82	0	%100
4	M4	Z	1.051	1.051	0	%100
5	M10	X	.493	.493	0	%100
6	M10	Z	.285	.285	0	%100
7	MP3A	X	1.94	1.94	0	%100
8	MP3A	Z	1.12	1.12	0	%100
9	MP4A	X	1.94	1.94	0	%100
10	MP4A	Z	1.12	1.12	0	%100
11	MP2A	X	1.94	1.94	0	%100
12	MP2A	Z	1.12	1.12	0	%100
13	MP1A	X	1.94	1.94	0	%100
14	MP1A	Z	1.12	1.12	0	%100
15	M43	X	.493	.493	0	%100
16	M43	Z	.285	.285	0	%100
17	M46	X	.77	.77	0	%100
18	M46	Z	.445	.445	0	%100
19	M51B	X	.567	.567	0	%100
20	M51B	Z	.328	.328	0	%100
21	M52B	X	2.269	2.269	0	%100
22	M52B	Z	1.31	1.31	0	%100
23	M76	X	2.274	2.274	0	%100
24	M76	Z	1.313	1.313	0	%100
25	M77	X	.769	.769	0	%100
26	M77	Z	.444	.444	0	%100
27	M80	X	.803	.803	0	%100
28	M80	Z	.464	.464	0	%100
29	M84	X	2.274	2.274	0	%100
30	M84	Z	1.313	1.313	0	%100
31	M85	X	3.078	3.078	0	%100
32	M85	Z	1.777	1.777	0	%100
33	M91	X	3.212	3.212	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,%]
34	M91	Z	1.854	1.854	0	%100
35	M52A	X	1.82	1.82	0	%100
36	M52A	Z	1.051	1.051	0	%100
37	M53	X	.493	.493	0	%100
38	M53	Z	.285	.285	0	%100
39	M54	X	.493	.493	0	%100
40	M54	Z	.285	.285	0	%100
41	M55	X	.77	.77	0	%100
42	M55	Z	.445	.445	0	%100
43	M58A	X	2.269	2.269	0	%100
44	M58A	Z	1.31	1.31	0	%100
45	M59A	X	.567	.567	0	%100
46	M59A	Z	.328	.328	0	%100
47	M63	X	2.274	2.274	0	%100
48	M63	Z	1.313	1.313	0	%100
49	M64	X	3.078	3.078	0	%100
50	M64	Z	1.777	1.777	0	%100
51	M66	X	3.212	3.212	0	%100
52	M66	Z	1.854	1.854	0	%100
53	M68	X	2.274	2.274	0	%100
54	M68	Z	1.313	1.313	0	%100
55	M69	X	.769	.769	0	%100
56	M69	Z	.444	.444	0	%100
57	M71	X	.803	.803	0	%100
58	M71	Z	.464	.464	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	1.973	1.973	0	%100
62	M77A	Z	1.139	1.139	0	%100
63	M78	X	1.973	1.973	0	%100
64	M78	Z	1.139	1.139	0	%100
65	M79A	X	3.082	3.082	0	%100
66	M79A	Z	1.779	1.779	0	%100
67	M82	X	.567	.567	0	%100
68	M82	Z	.328	.328	0	%100
69	M83A	X	.567	.567	0	%100
70	M83A	Z	.328	.328	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	.769	.769	0	%100
74	M88A	Z	.444	.444	0	%100
75	M90	X	.803	.803	0	%100
76	M90	Z	.464	.464	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	.769	.769	0	%100
80	M93	Z	.444	.444	0	%100
81	M95	X	.803	.803	0	%100
82	M95	Z	.464	.464	0	%100
83	M82A	X	.601	.601	0	%100
84	M82A	Z	.347	.347	0	%100
85	M91B	X	2.403	2.403	0	%100
86	M91B	Z	1.388	1.388	0	%100
87	M100	X	2.223	2.223	0	%100
88	M100	Z	1.283	1.283	0	%100
89	M101	X	.485	.485	0	%100
90	M101	Z	.28	.28	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,%]
91	M108	X	2.223	2.223	0	%100
92	M108	Z	1.283	1.283	0	%100
93	M109	X	.485	.485	0	%100
94	M109	Z	.28	.28	0	%100
95	M116	X	.994	.994	0	%100
96	M116	Z	.574	.574	0	%100
97	M117	X	1.94	1.94	0	%100
98	M117	Z	1.12	1.12	0	%100
99	M124	X	.453	.453	0	%100
100	M124	Z	.261	.261	0	%100
101	M125	X	1.81	1.81	0	%100
102	M125	Z	1.045	1.045	0	%100
103	M126	X	.453	.453	0	%100
104	M126	Z	.261	.261	0	%100
105	MP3C	X	1.94	1.94	0	%100
106	MP3C	Z	1.12	1.12	0	%100
107	MP4C	X	1.94	1.94	0	%100
108	MP4C	Z	1.12	1.12	0	%100
109	MP2C	X	1.94	1.94	0	%100
110	MP2C	Z	1.12	1.12	0	%100
111	MP1C	X	1.94	1.94	0	%100
112	MP1C	Z	1.12	1.12	0	%100
113	MP3B	X	1.94	1.94	0	%100
114	MP3B	Z	1.12	1.12	0	%100
115	MP4B	X	1.94	1.94	0	%100
116	MP4B	Z	1.12	1.12	0	%100
117	MP2B	X	1.94	1.94	0	%100
118	MP2B	Z	1.12	1.12	0	%100
119	MP1B	X	1.94	1.94	0	%100
120	MP1B	Z	1.12	1.12	0	%100
121	OVP	X	1.774	1.774	0	%100
122	OVP	Z	1.024	1.024	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	1.041	1.041	0	%100
2	M1	Z	1.803	1.803	0	%100
3	M4	X	.35	.35	0	%100
4	M4	Z	.607	.607	0	%100
5	M10	X	.854	.854	0	%100
6	M10	Z	1.48	1.48	0	%100
7	MP3A	X	1.12	1.12	0	%100
8	MP3A	Z	1.94	1.94	0	%100
9	MP4A	X	1.12	1.12	0	%100
10	MP4A	Z	1.94	1.94	0	%100
11	MP2A	X	1.12	1.12	0	%100
12	MP2A	Z	1.94	1.94	0	%100
13	MP1A	X	1.12	1.12	0	%100
14	MP1A	Z	1.94	1.94	0	%100
15	M43	X	.854	.854	0	%100
16	M43	Z	1.48	1.48	0	%100
17	M46	X	1.334	1.334	0	%100
18	M46	Z	2.311	2.311	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	.983	.983	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,%]
22	M52B	Z	1.702	1.702	0	%100
23	M76	X	.438	.438	0	%100
24	M76	Z	.758	.758	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	.438	.438	0	%100
30	M84	Z	.758	.758	0	%100
31	M85	X	1.333	1.333	0	%100
32	M85	Z	2.308	2.308	0	%100
33	M91	X	1.391	1.391	0	%100
34	M91	Z	2.409	2.409	0	%100
35	M52A	X	1.401	1.401	0	%100
36	M52A	Z	2.426	2.426	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	.983	.983	0	%100
44	M58A	Z	1.702	1.702	0	%100
45	M59A	X	.983	.983	0	%100
46	M59A	Z	1.702	1.702	0	%100
47	M63	X	1.75	1.75	0	%100
48	M63	Z	3.032	3.032	0	%100
49	M64	X	1.333	1.333	0	%100
50	M64	Z	2.308	2.308	0	%100
51	M66	X	1.391	1.391	0	%100
52	M66	Z	2.409	2.409	0	%100
53	M68	X	1.75	1.75	0	%100
54	M68	Z	3.032	3.032	0	%100
55	M69	X	1.333	1.333	0	%100
56	M69	Z	2.308	2.308	0	%100
57	M71	X	1.391	1.391	0	%100
58	M71	Z	2.409	2.409	0	%100
59	M76A	X	.35	.35	0	%100
60	M76A	Z	.607	.607	0	%100
61	M77A	X	.854	.854	0	%100
62	M77A	Z	1.48	1.48	0	%100
63	M78	X	.854	.854	0	%100
64	M78	Z	1.48	1.48	0	%100
65	M79A	X	1.334	1.334	0	%100
66	M79A	Z	2.311	2.311	0	%100
67	M82	X	.983	.983	0	%100
68	M82	Z	1.702	1.702	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	.438	.438	0	%100
72	M87	Z	.758	.758	0	%100
73	M88A	X	1.333	1.333	0	%100
74	M88A	Z	2.308	2.308	0	%100
75	M90	X	1.391	1.391	0	%100
76	M90	Z	2.409	2.409	0	%100
77	M92A	X	.438	.438	0	%100
78	M92A	Z	.758	.758	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,%]
79	M93	X	0	0	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	1.041	1.041	0	%100
86	M91B	Z	1.803	1.803	0	%100
87	M100	X	.81	.81	0	%100
88	M100	Z	1.404	1.404	0	%100
89	M101	X	.84	.84	0	%100
90	M101	Z	1.455	1.455	0	%100
91	M108	X	1.52	1.52	0	%100
92	M108	Z	2.633	2.633	0	%100
93	M109	X	0	0	0	%100
94	M109	Z	0	0	0	%100
95	M116	X	.81	.81	0	%100
96	M116	Z	1.404	1.404	0	%100
97	M117	X	.84	.84	0	%100
98	M117	Z	1.455	1.455	0	%100
99	M124	X	0	0	0	%100
100	M124	Z	0	0	0	%100
101	M125	X	.784	.784	0	%100
102	M125	Z	1.358	1.358	0	%100
103	M126	X	.784	.784	0	%100
104	M126	Z	1.358	1.358	0	%100
105	MP3C	X	1.12	1.12	0	%100
106	MP3C	Z	1.94	1.94	0	%100
107	MP4C	X	1.12	1.12	0	%100
108	MP4C	Z	1.94	1.94	0	%100
109	MP2C	X	1.12	1.12	0	%100
110	MP2C	Z	1.94	1.94	0	%100
111	MP1C	X	1.12	1.12	0	%100
112	MP1C	Z	1.94	1.94	0	%100
113	MP3B	X	1.12	1.12	0	%100
114	MP3B	Z	1.94	1.94	0	%100
115	MP4B	X	1.12	1.12	0	%100
116	MP4B	Z	1.94	1.94	0	%100
117	MP2B	X	1.12	1.12	0	%100
118	MP2B	Z	1.94	1.94	0	%100
119	MP1B	X	1.12	1.12	0	%100
120	MP1B	Z	1.94	1.94	0	%100
121	OVP	X	1.024	1.024	0	%100
122	OVP	Z	1.774	1.774	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	2.775	2.775	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	2.278	2.278	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	2.24	2.24	0	%100
9	MP4A	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,%]
10	MP4A	Z	2.24	2.24	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	2.24	2.24	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	2.24	2.24	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	2.278	2.278	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	3.558	3.558	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	.655	.655	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	.655	.655	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	.888	.888	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	.927	.927	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	.888	.888	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	.927	.927	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	2.101	2.101	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	.569	.569	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	.569	.569	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	.89	.89	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	.655	.655	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	2.62	2.62	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	2.626	2.626	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	.888	.888	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	.927	.927	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	2.626	2.626	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	3.554	3.554	0	%100
57	M71	X	0	0	0	%100
58	M71	Z	3.708	3.708	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	2.101	2.101	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	.569	.569	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	.569	.569	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	.89	.89	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,%]
67	M82	X	0	0	0	%100
68	M82	Z	2.62	2.62	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	.655	.655	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	2.626	2.626	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	3.554	3.554	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	3.708	3.708	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	2.626	2.626	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	.888	.888	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	.927	.927	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	.694	.694	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	.694	.694	0	%100
87	M100	X	0	0	0	%100
88	M100	Z	1.148	1.148	0	%100
89	M101	X	0	0	0	%100
90	M101	Z	2.24	2.24	0	%100
91	M108	X	0	0	0	%100
92	M108	Z	2.567	2.567	0	%100
93	M109	X	0	0	0	%100
94	M109	Z	.56	.56	0	%100
95	M116	X	0	0	0	%100
96	M116	Z	2.567	2.567	0	%100
97	M117	X	0	0	0	%100
98	M117	Z	.56	.56	0	%100
99	M124	X	0	0	0	%100
100	M124	Z	.523	.523	0	%100
101	M125	X	0	0	0	%100
102	M125	Z	.523	.523	0	%100
103	M126	X	0	0	0	%100
104	M126	Z	2.09	2.09	0	%100
105	MP3C	X	0	0	0	%100
106	MP3C	Z	2.24	2.24	0	%100
107	MP4C	X	0	0	0	%100
108	MP4C	Z	2.24	2.24	0	%100
109	MP2C	X	0	0	0	%100
110	MP2C	Z	2.24	2.24	0	%100
111	MP1C	X	0	0	0	%100
112	MP1C	Z	2.24	2.24	0	%100
113	MP3B	X	0	0	0	%100
114	MP3B	Z	2.24	2.24	0	%100
115	MP4B	X	0	0	0	%100
116	MP4B	Z	2.24	2.24	0	%100
117	MP2B	X	0	0	0	%100
118	MP2B	Z	2.24	2.24	0	%100
119	MP1B	X	0	0	0	%100
120	MP1B	Z	2.24	2.24	0	%100
121	OVP	X	0	0	0	%100
122	OVP	Z	2.048	2.048	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	-1.041	-1.041	0	%100
2	M1	Z	1.803	1.803	0	%100
3	M4	X	-.35	-.35	0	%100
4	M4	Z	.607	.607	0	%100
5	M10	X	-.854	-.854	0	%100
6	M10	Z	1.48	1.48	0	%100
7	MP3A	X	-1.12	-1.12	0	%100
8	MP3A	Z	1.94	1.94	0	%100
9	MP4A	X	-1.12	-1.12	0	%100
10	MP4A	Z	1.94	1.94	0	%100
11	MP2A	X	-1.12	-1.12	0	%100
12	MP2A	Z	1.94	1.94	0	%100
13	MP1A	X	-1.12	-1.12	0	%100
14	MP1A	Z	1.94	1.94	0	%100
15	M43	X	-.854	-.854	0	%100
16	M43	Z	1.48	1.48	0	%100
17	M46	X	-1.334	-1.334	0	%100
18	M46	Z	2.311	2.311	0	%100
19	M51B	X	-.983	-.983	0	%100
20	M51B	Z	1.702	1.702	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-.438	-.438	0	%100
24	M76	Z	.758	.758	0	%100
25	M77	X	-1.333	-1.333	0	%100
26	M77	Z	2.308	2.308	0	%100
27	M80	X	-1.391	-1.391	0	%100
28	M80	Z	2.409	2.409	0	%100
29	M84	X	-.438	-.438	0	%100
30	M84	Z	.758	.758	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	-.35	-.35	0	%100
36	M52A	Z	.607	.607	0	%100
37	M53	X	-.854	-.854	0	%100
38	M53	Z	1.48	1.48	0	%100
39	M54	X	-.854	-.854	0	%100
40	M54	Z	1.48	1.48	0	%100
41	M55	X	-1.334	-1.334	0	%100
42	M55	Z	2.311	2.311	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	-.983	-.983	0	%100
46	M59A	Z	1.702	1.702	0	%100
47	M63	X	-.438	-.438	0	%100
48	M63	Z	.758	.758	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	-.438	-.438	0	%100
54	M68	Z	.758	.758	0	%100
55	M69	X	-1.333	-1.333	0	%100
56	M69	Z	2.308	2.308	0	%100
57	M71	X	-1.391	-1.391	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	2.409	2.409	0	%100
59	M76A	X	-1.401	-1.401	0	%100
60	M76A	Z	2.426	2.426	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	-.983	-.983	0	%100
68	M82	Z	1.702	1.702	0	%100
69	M83A	X	-.983	-.983	0	%100
70	M83A	Z	1.702	1.702	0	%100
71	M87	X	-1.75	-1.75	0	%100
72	M87	Z	3.032	3.032	0	%100
73	M88A	X	-1.333	-1.333	0	%100
74	M88A	Z	2.308	2.308	0	%100
75	M90	X	-1.391	-1.391	0	%100
76	M90	Z	2.409	2.409	0	%100
77	M92A	X	-1.75	-1.75	0	%100
78	M92A	Z	3.032	3.032	0	%100
79	M93	X	-1.333	-1.333	0	%100
80	M93	Z	2.308	2.308	0	%100
81	M95	X	-1.391	-1.391	0	%100
82	M95	Z	2.409	2.409	0	%100
83	M82A	X	-1.041	-1.041	0	%100
84	M82A	Z	1.803	1.803	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	0	0	0	%100
87	M100	X	-.81	-.81	0	%100
88	M100	Z	1.404	1.404	0	%100
89	M101	X	-.84	-.84	0	%100
90	M101	Z	1.455	1.455	0	%100
91	M108	X	-.81	-.81	0	%100
92	M108	Z	1.404	1.404	0	%100
93	M109	X	-.84	-.84	0	%100
94	M109	Z	1.455	1.455	0	%100
95	M116	X	-1.52	-1.52	0	%100
96	M116	Z	2.633	2.633	0	%100
97	M117	X	0	0	0	%100
98	M117	Z	0	0	0	%100
99	M124	X	-.784	-.784	0	%100
100	M124	Z	1.358	1.358	0	%100
101	M125	X	0	0	0	%100
102	M125	Z	0	0	0	%100
103	M126	X	-.784	-.784	0	%100
104	M126	Z	1.358	1.358	0	%100
105	MP3C	X	-1.12	-1.12	0	%100
106	MP3C	Z	1.94	1.94	0	%100
107	MP4C	X	-1.12	-1.12	0	%100
108	MP4C	Z	1.94	1.94	0	%100
109	MP2C	X	-1.12	-1.12	0	%100
110	MP2C	Z	1.94	1.94	0	%100
111	MP1C	X	-1.12	-1.12	0	%100
112	MP1C	Z	1.94	1.94	0	%100
113	MP3B	X	-1.12	-1.12	0	%100
114	MP3B	Z	1.94	1.94	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,%]
115	MP4B	X	-1.12	-1.12	0	%100
116	MP4B	Z	1.94	1.94	0	%100
117	MP2B	X	-1.12	-1.12	0	%100
118	MP2B	Z	1.94	1.94	0	%100
119	MP1B	X	-1.12	-1.12	0	%100
120	MP1B	Z	1.94	1.94	0	%100
121	OVP	X	-1.024	-1.024	0	%100
122	OVP	Z	1.774	1.774	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	-.601	-.601	0	%100
2	M1	Z	.347	.347	0	%100
3	M4	X	-1.82	-1.82	0	%100
4	M4	Z	1.051	1.051	0	%100
5	M10	X	-.493	-.493	0	%100
6	M10	Z	.285	.285	0	%100
7	MP3A	X	-1.94	-1.94	0	%100
8	MP3A	Z	1.12	1.12	0	%100
9	MP4A	X	-1.94	-1.94	0	%100
10	MP4A	Z	1.12	1.12	0	%100
11	MP2A	X	-1.94	-1.94	0	%100
12	MP2A	Z	1.12	1.12	0	%100
13	MP1A	X	-1.94	-1.94	0	%100
14	MP1A	Z	1.12	1.12	0	%100
15	M43	X	-.493	-.493	0	%100
16	M43	Z	.285	.285	0	%100
17	M46	X	-.77	-.77	0	%100
18	M46	Z	.445	.445	0	%100
19	M51B	X	-2.269	-2.269	0	%100
20	M51B	Z	1.31	1.31	0	%100
21	M52B	X	-.567	-.567	0	%100
22	M52B	Z	.328	.328	0	%100
23	M76	X	-2.274	-2.274	0	%100
24	M76	Z	1.313	1.313	0	%100
25	M77	X	-3.078	-3.078	0	%100
26	M77	Z	1.777	1.777	0	%100
27	M80	X	-3.212	-3.212	0	%100
28	M80	Z	1.854	1.854	0	%100
29	M84	X	-2.274	-2.274	0	%100
30	M84	Z	1.313	1.313	0	%100
31	M85	X	-.769	-.769	0	%100
32	M85	Z	.444	.444	0	%100
33	M91	X	-.803	-.803	0	%100
34	M91	Z	.464	.464	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	-1.973	-1.973	0	%100
38	M53	Z	1.139	1.139	0	%100
39	M54	X	-1.973	-1.973	0	%100
40	M54	Z	1.139	1.139	0	%100
41	M55	X	-3.082	-3.082	0	%100
42	M55	Z	1.779	1.779	0	%100
43	M58A	X	-.567	-.567	0	%100
44	M58A	Z	.328	.328	0	%100
45	M59A	X	-.567	-.567	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,%]
46	M59A	Z	.328	.328	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	-.769	-.769	0	%100
50	M64	Z	.444	.444	0	%100
51	M66	X	-.803	-.803	0	%100
52	M66	Z	.464	.464	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	-.769	-.769	0	%100
56	M69	Z	.444	.444	0	%100
57	M71	X	-.803	-.803	0	%100
58	M71	Z	.464	.464	0	%100
59	M76A	X	-1.82	-1.82	0	%100
60	M76A	Z	1.051	1.051	0	%100
61	M77A	X	-.493	-.493	0	%100
62	M77A	Z	.285	.285	0	%100
63	M78	X	-.493	-.493	0	%100
64	M78	Z	.285	.285	0	%100
65	M79A	X	-.77	-.77	0	%100
66	M79A	Z	.445	.445	0	%100
67	M82	X	-.567	-.567	0	%100
68	M82	Z	.328	.328	0	%100
69	M83A	X	-2.269	-2.269	0	%100
70	M83A	Z	1.31	1.31	0	%100
71	M87	X	-2.274	-2.274	0	%100
72	M87	Z	1.313	1.313	0	%100
73	M88A	X	-.769	-.769	0	%100
74	M88A	Z	.444	.444	0	%100
75	M90	X	-.803	-.803	0	%100
76	M90	Z	.464	.464	0	%100
77	M92A	X	-2.274	-2.274	0	%100
78	M92A	Z	1.313	1.313	0	%100
79	M93	X	-3.078	-3.078	0	%100
80	M93	Z	1.777	1.777	0	%100
81	M95	X	-3.212	-3.212	0	%100
82	M95	Z	1.854	1.854	0	%100
83	M82A	X	-2.403	-2.403	0	%100
84	M82A	Z	1.388	1.388	0	%100
85	M91B	X	-.601	-.601	0	%100
86	M91B	Z	.347	.347	0	%100
87	M100	X	-2.223	-2.223	0	%100
88	M100	Z	1.283	1.283	0	%100
89	M101	X	-.485	-.485	0	%100
90	M101	Z	.28	.28	0	%100
91	M108	X	-.994	-.994	0	%100
92	M108	Z	.574	.574	0	%100
93	M109	X	-1.94	-1.94	0	%100
94	M109	Z	1.12	1.12	0	%100
95	M116	X	-2.223	-2.223	0	%100
96	M116	Z	1.283	1.283	0	%100
97	M117	X	-.485	-.485	0	%100
98	M117	Z	.28	.28	0	%100
99	M124	X	-1.81	-1.81	0	%100
100	M124	Z	1.045	1.045	0	%100
101	M125	X	-.453	-.453	0	%100
102	M125	Z	.261	.261	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,%]
103	M126	X	-.453	-.453	0	%100
104	M126	Z	.261	.261	0	%100
105	MP3C	X	-1.94	-1.94	0	%100
106	MP3C	Z	1.12	1.12	0	%100
107	MP4C	X	-1.94	-1.94	0	%100
108	MP4C	Z	1.12	1.12	0	%100
109	MP2C	X	-1.94	-1.94	0	%100
110	MP2C	Z	1.12	1.12	0	%100
111	MP1C	X	-1.94	-1.94	0	%100
112	MP1C	Z	1.12	1.12	0	%100
113	MP3B	X	-1.94	-1.94	0	%100
114	MP3B	Z	1.12	1.12	0	%100
115	MP4B	X	-1.94	-1.94	0	%100
116	MP4B	Z	1.12	1.12	0	%100
117	MP2B	X	-1.94	-1.94	0	%100
118	MP2B	Z	1.12	1.12	0	%100
119	MP1B	X	-1.94	-1.94	0	%100
120	MP1B	Z	1.12	1.12	0	%100
121	OVP	X	-1.774	-1.774	0	%100
122	OVP	Z	1.024	1.024	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-2.801	-2.801	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	-2.24	-2.24	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	-2.24	-2.24	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	-2.24	-2.24	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-2.24	-2.24	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	-1.965	-1.965	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-1.965	-1.965	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-3.501	-3.501	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	-2.665	-2.665	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	-2.781	-2.781	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-3.501	-3.501	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	-2.665	-2.665	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	-2.781	-2.781	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,%]
34	M91	Z	0	0	0	%100
35	M52A	X	-.7	-.7	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	-1.708	-1.708	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	-1.708	-1.708	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	-2.669	-2.669	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	-1.965	-1.965	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	0	0	0	%100
47	M63	X	-.875	-.875	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	-2.665	-2.665	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	-2.781	-2.781	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	-.875	-.875	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	0	0	0	%100
57	M71	X	0	0	0	%100
58	M71	Z	0	0	0	%100
59	M76A	X	-.7	-.7	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	-1.708	-1.708	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	-1.708	-1.708	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	-2.669	-2.669	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	0	0	0	%100
69	M83A	X	-1.965	-1.965	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	-.875	-.875	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	0	0	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	0	0	0	%100
77	M92A	X	-.875	-.875	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	-2.665	-2.665	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	-2.781	-2.781	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	-2.081	-2.081	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	-2.081	-2.081	0	%100
86	M91B	Z	0	0	0	%100
87	M100	X	-3.04	-3.04	0	%100
88	M100	Z	0	0	0	%100
89	M101	X	0	0	0	%100
90	M101	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
91	M108	X	-1.621	-1.621	0	%100
92	M108	Z	0	0	0	%100
93	M109	X	-1.68	-1.68	0	%100
94	M109	Z	0	0	0	%100
95	M116	X	-1.621	-1.621	0	%100
96	M116	Z	0	0	0	%100
97	M117	X	-1.68	-1.68	0	%100
98	M117	Z	0	0	0	%100
99	M124	X	-1.568	-1.568	0	%100
100	M124	Z	0	0	0	%100
101	M125	X	-1.568	-1.568	0	%100
102	M125	Z	0	0	0	%100
103	M126	X	0	0	0	%100
104	M126	Z	0	0	0	%100
105	MP3C	X	-2.24	-2.24	0	%100
106	MP3C	Z	0	0	0	%100
107	MP4C	X	-2.24	-2.24	0	%100
108	MP4C	Z	0	0	0	%100
109	MP2C	X	-2.24	-2.24	0	%100
110	MP2C	Z	0	0	0	%100
111	MP1C	X	-2.24	-2.24	0	%100
112	MP1C	Z	0	0	0	%100
113	MP3B	X	-2.24	-2.24	0	%100
114	MP3B	Z	0	0	0	%100
115	MP4B	X	-2.24	-2.24	0	%100
116	MP4B	Z	0	0	0	%100
117	MP2B	X	-2.24	-2.24	0	%100
118	MP2B	Z	0	0	0	%100
119	MP1B	X	-2.24	-2.24	0	%100
120	MP1B	Z	0	0	0	%100
121	OVP	X	-2.048	-2.048	0	%100
122	OVP	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	-.601	-.601	0	%100
2	M1	Z	-.347	-.347	0	%100
3	M4	X	-1.82	-1.82	0	%100
4	M4	Z	-1.051	-1.051	0	%100
5	M10	X	-.493	-.493	0	%100
6	M10	Z	-.285	-.285	0	%100
7	MP3A	X	-1.94	-1.94	0	%100
8	MP3A	Z	-1.12	-1.12	0	%100
9	MP4A	X	-1.94	-1.94	0	%100
10	MP4A	Z	-1.12	-1.12	0	%100
11	MP2A	X	-1.94	-1.94	0	%100
12	MP2A	Z	-1.12	-1.12	0	%100
13	MP1A	X	-1.94	-1.94	0	%100
14	MP1A	Z	-1.12	-1.12	0	%100
15	M43	X	-.493	-.493	0	%100
16	M43	Z	-.285	-.285	0	%100
17	M46	X	-.77	-.77	0	%100
18	M46	Z	-.445	-.445	0	%100
19	M51B	X	-.567	-.567	0	%100
20	M51B	Z	-.328	-.328	0	%100
21	M52B	X	-2.269	-2.269	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,%]
22	M52B	Z	-1.31	-1.31	0	%100
23	M76	X	-2.274	-2.274	0	%100
24	M76	Z	-1.313	-1.313	0	%100
25	M77	X	-.769	-.769	0	%100
26	M77	Z	-.444	-.444	0	%100
27	M80	X	-.803	-.803	0	%100
28	M80	Z	-.464	-.464	0	%100
29	M84	X	-2.274	-2.274	0	%100
30	M84	Z	-1.313	-1.313	0	%100
31	M85	X	-3.078	-3.078	0	%100
32	M85	Z	-1.777	-1.777	0	%100
33	M91	X	-3.212	-3.212	0	%100
34	M91	Z	-1.854	-1.854	0	%100
35	M52A	X	-1.82	-1.82	0	%100
36	M52A	Z	-1.051	-1.051	0	%100
37	M53	X	-.493	-.493	0	%100
38	M53	Z	-.285	-.285	0	%100
39	M54	X	-.493	-.493	0	%100
40	M54	Z	-.285	-.285	0	%100
41	M55	X	-.77	-.77	0	%100
42	M55	Z	-.445	-.445	0	%100
43	M58A	X	-2.269	-2.269	0	%100
44	M58A	Z	-1.31	-1.31	0	%100
45	M59A	X	-.567	-.567	0	%100
46	M59A	Z	-.328	-.328	0	%100
47	M63	X	-2.274	-2.274	0	%100
48	M63	Z	-1.313	-1.313	0	%100
49	M64	X	-3.078	-3.078	0	%100
50	M64	Z	-1.777	-1.777	0	%100
51	M66	X	-3.212	-3.212	0	%100
52	M66	Z	-1.854	-1.854	0	%100
53	M68	X	-2.274	-2.274	0	%100
54	M68	Z	-1.313	-1.313	0	%100
55	M69	X	-.769	-.769	0	%100
56	M69	Z	-.444	-.444	0	%100
57	M71	X	-.803	-.803	0	%100
58	M71	Z	-.464	-.464	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	-1.973	-1.973	0	%100
62	M77A	Z	-1.139	-1.139	0	%100
63	M78	X	-1.973	-1.973	0	%100
64	M78	Z	-1.139	-1.139	0	%100
65	M79A	X	-3.082	-3.082	0	%100
66	M79A	Z	-1.779	-1.779	0	%100
67	M82	X	-.567	-.567	0	%100
68	M82	Z	-.328	-.328	0	%100
69	M83A	X	-.567	-.567	0	%100
70	M83A	Z	-.328	-.328	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	-.769	-.769	0	%100
74	M88A	Z	-.444	-.444	0	%100
75	M90	X	-.803	-.803	0	%100
76	M90	Z	-.464	-.464	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	0	0	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,%]
79	M93	X	-.769	-.769	0	%100
80	M93	Z	-.444	-.444	0	%100
81	M95	X	-.803	-.803	0	%100
82	M95	Z	-.464	-.464	0	%100
83	M82A	X	-.601	-.601	0	%100
84	M82A	Z	-.347	-.347	0	%100
85	M91B	X	-2.403	-2.403	0	%100
86	M91B	Z	-1.388	-1.388	0	%100
87	M100	X	-2.223	-2.223	0	%100
88	M100	Z	-1.283	-1.283	0	%100
89	M101	X	-.485	-.485	0	%100
90	M101	Z	-.28	-.28	0	%100
91	M108	X	-2.223	-2.223	0	%100
92	M108	Z	-1.283	-1.283	0	%100
93	M109	X	-.485	-.485	0	%100
94	M109	Z	-.28	-.28	0	%100
95	M116	X	-.994	-.994	0	%100
96	M116	Z	-.574	-.574	0	%100
97	M117	X	-1.94	-1.94	0	%100
98	M117	Z	-1.12	-1.12	0	%100
99	M124	X	-.453	-.453	0	%100
100	M124	Z	-.261	-.261	0	%100
101	M125	X	-1.81	-1.81	0	%100
102	M125	Z	-1.045	-1.045	0	%100
103	M126	X	-.453	-.453	0	%100
104	M126	Z	-.261	-.261	0	%100
105	MP3C	X	-1.94	-1.94	0	%100
106	MP3C	Z	-1.12	-1.12	0	%100
107	MP4C	X	-1.94	-1.94	0	%100
108	MP4C	Z	-1.12	-1.12	0	%100
109	MP2C	X	-1.94	-1.94	0	%100
110	MP2C	Z	-1.12	-1.12	0	%100
111	MP1C	X	-1.94	-1.94	0	%100
112	MP1C	Z	-1.12	-1.12	0	%100
113	MP3B	X	-1.94	-1.94	0	%100
114	MP3B	Z	-1.12	-1.12	0	%100
115	MP4B	X	-1.94	-1.94	0	%100
116	MP4B	Z	-1.12	-1.12	0	%100
117	MP2B	X	-1.94	-1.94	0	%100
118	MP2B	Z	-1.12	-1.12	0	%100
119	MP1B	X	-1.94	-1.94	0	%100
120	MP1B	Z	-1.12	-1.12	0	%100
121	OVP	X	-1.774	-1.774	0	%100
122	OVP	Z	-1.024	-1.024	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	-1.041	-1.041	0	%100
2	M1	Z	-1.803	-1.803	0	%100
3	M4	X	-.35	-.35	0	%100
4	M4	Z	-.607	-.607	0	%100
5	M10	X	-.854	-.854	0	%100
6	M10	Z	-1.48	-1.48	0	%100
7	MP3A	X	-1.12	-1.12	0	%100
8	MP3A	Z	-1.94	-1.94	0	%100
9	MP4A	X	-1.12	-1.12	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,%]
10	MP4A	Z	-1.94	-1.94	0	%100
11	MP2A	X	-1.12	-1.12	0	%100
12	MP2A	Z	-1.94	-1.94	0	%100
13	MP1A	X	-1.12	-1.12	0	%100
14	MP1A	Z	-1.94	-1.94	0	%100
15	M43	X	-.854	-.854	0	%100
16	M43	Z	-1.48	-1.48	0	%100
17	M46	X	-1.334	-1.334	0	%100
18	M46	Z	-2.311	-2.311	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-.983	-.983	0	%100
22	M52B	Z	-1.702	-1.702	0	%100
23	M76	X	-.438	-.438	0	%100
24	M76	Z	-.758	-.758	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-.438	-.438	0	%100
30	M84	Z	-.758	-.758	0	%100
31	M85	X	-1.333	-1.333	0	%100
32	M85	Z	-2.308	-2.308	0	%100
33	M91	X	-1.391	-1.391	0	%100
34	M91	Z	-2.409	-2.409	0	%100
35	M52A	X	-1.401	-1.401	0	%100
36	M52A	Z	-2.426	-2.426	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	-.983	-.983	0	%100
44	M58A	Z	-1.702	-1.702	0	%100
45	M59A	X	-.983	-.983	0	%100
46	M59A	Z	-1.702	-1.702	0	%100
47	M63	X	-1.75	-1.75	0	%100
48	M63	Z	-3.032	-3.032	0	%100
49	M64	X	-1.333	-1.333	0	%100
50	M64	Z	-2.308	-2.308	0	%100
51	M66	X	-1.391	-1.391	0	%100
52	M66	Z	-2.409	-2.409	0	%100
53	M68	X	-1.75	-1.75	0	%100
54	M68	Z	-3.032	-3.032	0	%100
55	M69	X	-1.333	-1.333	0	%100
56	M69	Z	-2.308	-2.308	0	%100
57	M71	X	-1.391	-1.391	0	%100
58	M71	Z	-2.409	-2.409	0	%100
59	M76A	X	-.35	-.35	0	%100
60	M76A	Z	-.607	-.607	0	%100
61	M77A	X	-.854	-.854	0	%100
62	M77A	Z	-1.48	-1.48	0	%100
63	M78	X	-.854	-.854	0	%100
64	M78	Z	-1.48	-1.48	0	%100
65	M79A	X	-1.334	-1.334	0	%100
66	M79A	Z	-2.311	-2.311	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,%]
67	M82	X	-.983	-.983	0	%100
68	M82	Z	-1.702	-1.702	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	-.438	-.438	0	%100
72	M87	Z	-.758	-.758	0	%100
73	M88A	X	-1.333	-1.333	0	%100
74	M88A	Z	-2.308	-2.308	0	%100
75	M90	X	-1.391	-1.391	0	%100
76	M90	Z	-2.409	-2.409	0	%100
77	M92A	X	-.438	-.438	0	%100
78	M92A	Z	-.758	-.758	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	-1.041	-1.041	0	%100
86	M91B	Z	-1.803	-1.803	0	%100
87	M100	X	-.81	-.81	0	%100
88	M100	Z	-1.404	-1.404	0	%100
89	M101	X	-.84	-.84	0	%100
90	M101	Z	-1.455	-1.455	0	%100
91	M108	X	-1.52	-1.52	0	%100
92	M108	Z	-2.633	-2.633	0	%100
93	M109	X	0	0	0	%100
94	M109	Z	0	0	0	%100
95	M116	X	-.81	-.81	0	%100
96	M116	Z	-1.404	-1.404	0	%100
97	M117	X	-.84	-.84	0	%100
98	M117	Z	-1.455	-1.455	0	%100
99	M124	X	0	0	0	%100
100	M124	Z	0	0	0	%100
101	M125	X	-.784	-.784	0	%100
102	M125	Z	-1.358	-1.358	0	%100
103	M126	X	-.784	-.784	0	%100
104	M126	Z	-1.358	-1.358	0	%100
105	MP3C	X	-1.12	-1.12	0	%100
106	MP3C	Z	-1.94	-1.94	0	%100
107	MP4C	X	-1.12	-1.12	0	%100
108	MP4C	Z	-1.94	-1.94	0	%100
109	MP2C	X	-1.12	-1.12	0	%100
110	MP2C	Z	-1.94	-1.94	0	%100
111	MP1C	X	-1.12	-1.12	0	%100
112	MP1C	Z	-1.94	-1.94	0	%100
113	MP3B	X	-1.12	-1.12	0	%100
114	MP3B	Z	-1.94	-1.94	0	%100
115	MP4B	X	-1.12	-1.12	0	%100
116	MP4B	Z	-1.94	-1.94	0	%100
117	MP2B	X	-1.12	-1.12	0	%100
118	MP2B	Z	-1.94	-1.94	0	%100
119	MP1B	X	-1.12	-1.12	0	%100
120	MP1B	Z	-1.94	-1.94	0	%100
121	OVP	X	-1.024	-1.024	0	%100
122	OVP	Z	-1.774	-1.774	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	-.936	-.936	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-.804	-.804	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-.635	-.635	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-.635	-.635	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-.635	-.635	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	-.635	-.635	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	-.804	-.804	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	-1.605	-1.605	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	-.223	-.223	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	-.223	-.223	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	-.409	-.409	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	-.43	-.43	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	-.409	-.409	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	-.43	-.43	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	-.713	-.713	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	-.201	-.201	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	-.201	-.201	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	-.401	-.401	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	-.223	-.223	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	-.891	-.891	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	-1.203	-1.203	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	-.409	-.409	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	-.43	-.43	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	-1.203	-1.203	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	-1.634	-1.634	0	%100
57	M71	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	-1.721	-1.721	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	-.713	-.713	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	-.201	-.201	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	-.201	-.201	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	-.401	-.401	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	-.891	-.891	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	-.223	-.223	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	-1.203	-1.203	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	-1.634	-1.634	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	-1.721	-1.721	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	-1.203	-1.203	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	-.409	-.409	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	-.43	-.43	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	-.234	-.234	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	-.234	-.234	0	%100
87	M100	X	0	0	0	%100
88	M100	Z	-.481	-.481	0	%100
89	M101	X	0	0	0	%100
90	M101	Z	-.635	-.635	0	%100
91	M108	X	0	0	0	%100
92	M108	Z	-.934	-.934	0	%100
93	M109	X	0	0	0	%100
94	M109	Z	-.159	-.159	0	%100
95	M116	X	0	0	0	%100
96	M116	Z	-.934	-.934	0	%100
97	M117	X	0	0	0	%100
98	M117	Z	-.159	-.159	0	%100
99	M124	X	0	0	0	%100
100	M124	Z	-.191	-.191	0	%100
101	M125	X	0	0	0	%100
102	M125	Z	-.191	-.191	0	%100
103	M126	X	0	0	0	%100
104	M126	Z	-.762	-.762	0	%100
105	MP3C	X	0	0	0	%100
106	MP3C	Z	-.635	-.635	0	%100
107	MP4C	X	0	0	0	%100
108	MP4C	Z	-.635	-.635	0	%100
109	MP2C	X	0	0	0	%100
110	MP2C	Z	-.635	-.635	0	%100
111	MP1C	X	0	0	0	%100
112	MP1C	Z	-.635	-.635	0	%100
113	MP3B	X	0	0	0	%100
114	MP3B	Z	-.635	-.635	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,%]
115	MP4B	X	0	0	0	%100
116	MP4B	Z	-.635	-.635	0	%100
117	MP2B	X	0	0	0	%100
118	MP2B	Z	-.635	-.635	0	%100
119	MP1B	X	0	0	0	%100
120	MP1B	Z	-.635	-.635	0	%100
121	OVP	X	0	0	0	%100
122	OVP	Z	-.579	-.579	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	.351	.351	0	%100
2	M1	Z	-.608	-.608	0	%100
3	M4	X	.119	.119	0	%100
4	M4	Z	-.206	-.206	0	%100
5	M10	X	.302	.302	0	%100
6	M10	Z	-.522	-.522	0	%100
7	MP3A	X	.318	.318	0	%100
8	MP3A	Z	-.55	-.55	0	%100
9	MP4A	X	.318	.318	0	%100
10	MP4A	Z	-.55	-.55	0	%100
11	MP2A	X	.318	.318	0	%100
12	MP2A	Z	-.55	-.55	0	%100
13	MP1A	X	.318	.318	0	%100
14	MP1A	Z	-.55	-.55	0	%100
15	M43	X	.302	.302	0	%100
16	M43	Z	-.522	-.522	0	%100
17	M46	X	.602	.602	0	%100
18	M46	Z	-1.042	-1.042	0	%100
19	M51B	X	.334	.334	0	%100
20	M51B	Z	-.579	-.579	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	.201	.201	0	%100
24	M76	Z	-.347	-.347	0	%100
25	M77	X	.613	.613	0	%100
26	M77	Z	-1.061	-1.061	0	%100
27	M80	X	.645	.645	0	%100
28	M80	Z	-1.118	-1.118	0	%100
29	M84	X	.201	.201	0	%100
30	M84	Z	-.347	-.347	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	.119	.119	0	%100
36	M52A	Z	-.206	-.206	0	%100
37	M53	X	.302	.302	0	%100
38	M53	Z	-.522	-.522	0	%100
39	M54	X	.302	.302	0	%100
40	M54	Z	-.522	-.522	0	%100
41	M55	X	.602	.602	0	%100
42	M55	Z	-1.042	-1.042	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	.334	.334	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,%]
46	M59A	Z	-.579	-.579	0	%100
47	M63	X	.201	.201	0	%100
48	M63	Z	-.347	-.347	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	.201	.201	0	%100
54	M68	Z	-.347	-.347	0	%100
55	M69	X	.613	.613	0	%100
56	M69	Z	-1.061	-1.061	0	%100
57	M71	X	.645	.645	0	%100
58	M71	Z	-1.118	-1.118	0	%100
59	M76A	X	.475	.475	0	%100
60	M76A	Z	-.823	-.823	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	.334	.334	0	%100
68	M82	Z	-.579	-.579	0	%100
69	M83A	X	.334	.334	0	%100
70	M83A	Z	-.579	-.579	0	%100
71	M87	X	.802	.802	0	%100
72	M87	Z	-1.39	-1.39	0	%100
73	M88A	X	.613	.613	0	%100
74	M88A	Z	-1.061	-1.061	0	%100
75	M90	X	.645	.645	0	%100
76	M90	Z	-1.118	-1.118	0	%100
77	M92A	X	.802	.802	0	%100
78	M92A	Z	-1.39	-1.39	0	%100
79	M93	X	.613	.613	0	%100
80	M93	Z	-1.061	-1.061	0	%100
81	M95	X	.645	.645	0	%100
82	M95	Z	-1.118	-1.118	0	%100
83	M82A	X	.351	.351	0	%100
84	M82A	Z	-.608	-.608	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	0	0	0	%100
87	M100	X	.316	.316	0	%100
88	M100	Z	-.548	-.548	0	%100
89	M101	X	.238	.238	0	%100
90	M101	Z	-.413	-.413	0	%100
91	M108	X	.316	.316	0	%100
92	M108	Z	-.548	-.548	0	%100
93	M109	X	.238	.238	0	%100
94	M109	Z	-.413	-.413	0	%100
95	M116	X	.542	.542	0	%100
96	M116	Z	-.939	-.939	0	%100
97	M117	X	0	0	0	%100
98	M117	Z	0	0	0	%100
99	M124	X	.286	.286	0	%100
100	M124	Z	-.495	-.495	0	%100
101	M125	X	0	0	0	%100
102	M125	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
103	M126	X	.286	.286	0	%100
104	M126	Z	-.495	-.495	0	%100
105	MP3C	X	.318	.318	0	%100
106	MP3C	Z	-.55	-.55	0	%100
107	MP4C	X	.318	.318	0	%100
108	MP4C	Z	-.55	-.55	0	%100
109	MP2C	X	.318	.318	0	%100
110	MP2C	Z	-.55	-.55	0	%100
111	MP1C	X	.318	.318	0	%100
112	MP1C	Z	-.55	-.55	0	%100
113	MP3B	X	.318	.318	0	%100
114	MP3B	Z	-.55	-.55	0	%100
115	MP4B	X	.318	.318	0	%100
116	MP4B	Z	-.55	-.55	0	%100
117	MP2B	X	.318	.318	0	%100
118	MP2B	Z	-.55	-.55	0	%100
119	MP1B	X	.318	.318	0	%100
120	MP1B	Z	-.55	-.55	0	%100
121	OVP	X	.289	.289	0	%100
122	OVP	Z	-.501	-.501	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	.203	.203	0	%100
2	M1	Z	-.117	-.117	0	%100
3	M4	X	.617	.617	0	%100
4	M4	Z	-.357	-.357	0	%100
5	M10	X	.174	.174	0	%100
6	M10	Z	-.101	-.101	0	%100
7	MP3A	X	.55	.55	0	%100
8	MP3A	Z	-.318	-.318	0	%100
9	MP4A	X	.55	.55	0	%100
10	MP4A	Z	-.318	-.318	0	%100
11	MP2A	X	.55	.55	0	%100
12	MP2A	Z	-.318	-.318	0	%100
13	MP1A	X	.55	.55	0	%100
14	MP1A	Z	-.318	-.318	0	%100
15	M43	X	.174	.174	0	%100
16	M43	Z	-.101	-.101	0	%100
17	M46	X	.347	.347	0	%100
18	M46	Z	-.201	-.201	0	%100
19	M51B	X	.772	.772	0	%100
20	M51B	Z	-.445	-.445	0	%100
21	M52B	X	.193	.193	0	%100
22	M52B	Z	-.111	-.111	0	%100
23	M76	X	1.042	1.042	0	%100
24	M76	Z	-.602	-.602	0	%100
25	M77	X	1.415	1.415	0	%100
26	M77	Z	-.817	-.817	0	%100
27	M80	X	1.491	1.491	0	%100
28	M80	Z	-.861	-.861	0	%100
29	M84	X	1.042	1.042	0	%100
30	M84	Z	-.602	-.602	0	%100
31	M85	X	.354	.354	0	%100
32	M85	Z	-.204	-.204	0	%100
33	M91	X	.373	.373	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,%]
34	M91	Z	-.215	-.215	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	.697	.697	0	%100
38	M53	Z	-.402	-.402	0	%100
39	M54	X	.697	.697	0	%100
40	M54	Z	-.402	-.402	0	%100
41	M55	X	1.39	1.39	0	%100
42	M55	Z	-.802	-.802	0	%100
43	M58A	X	.193	.193	0	%100
44	M58A	Z	-.111	-.111	0	%100
45	M59A	X	.193	.193	0	%100
46	M59A	Z	-.111	-.111	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	.354	.354	0	%100
50	M64	Z	-.204	-.204	0	%100
51	M66	X	.373	.373	0	%100
52	M66	Z	-.215	-.215	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	.354	.354	0	%100
56	M69	Z	-.204	-.204	0	%100
57	M71	X	.373	.373	0	%100
58	M71	Z	-.215	-.215	0	%100
59	M76A	X	.617	.617	0	%100
60	M76A	Z	-.357	-.357	0	%100
61	M77A	X	.174	.174	0	%100
62	M77A	Z	-.101	-.101	0	%100
63	M78	X	.174	.174	0	%100
64	M78	Z	-.101	-.101	0	%100
65	M79A	X	.347	.347	0	%100
66	M79A	Z	-.201	-.201	0	%100
67	M82	X	.193	.193	0	%100
68	M82	Z	-.111	-.111	0	%100
69	M83A	X	.772	.772	0	%100
70	M83A	Z	-.445	-.445	0	%100
71	M87	X	1.042	1.042	0	%100
72	M87	Z	-.602	-.602	0	%100
73	M88A	X	.354	.354	0	%100
74	M88A	Z	-.204	-.204	0	%100
75	M90	X	.373	.373	0	%100
76	M90	Z	-.215	-.215	0	%100
77	M92A	X	1.042	1.042	0	%100
78	M92A	Z	-.602	-.602	0	%100
79	M93	X	1.415	1.415	0	%100
80	M93	Z	-.817	-.817	0	%100
81	M95	X	1.491	1.491	0	%100
82	M95	Z	-.861	-.861	0	%100
83	M82A	X	.811	.811	0	%100
84	M82A	Z	-.468	-.468	0	%100
85	M91B	X	.203	.203	0	%100
86	M91B	Z	-.117	-.117	0	%100
87	M100	X	.809	.809	0	%100
88	M100	Z	-.467	-.467	0	%100
89	M101	X	.138	.138	0	%100
90	M101	Z	-.079	-.079	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,%]
91	M108	X	.417	.417	0	%100
92	M108	Z	-.241	-.241	0	%100
93	M109	X	.55	.55	0	%100
94	M109	Z	-.318	-.318	0	%100
95	M116	X	.809	.809	0	%100
96	M116	Z	-.467	-.467	0	%100
97	M117	X	.138	.138	0	%100
98	M117	Z	-.079	-.079	0	%100
99	M124	X	.66	.66	0	%100
100	M124	Z	-.381	-.381	0	%100
101	M125	X	.165	.165	0	%100
102	M125	Z	-.095	-.095	0	%100
103	M126	X	.165	.165	0	%100
104	M126	Z	-.095	-.095	0	%100
105	MP3C	X	.55	.55	0	%100
106	MP3C	Z	-.318	-.318	0	%100
107	MP4C	X	.55	.55	0	%100
108	MP4C	Z	-.318	-.318	0	%100
109	MP2C	X	.55	.55	0	%100
110	MP2C	Z	-.318	-.318	0	%100
111	MP1C	X	.55	.55	0	%100
112	MP1C	Z	-.318	-.318	0	%100
113	MP3B	X	.55	.55	0	%100
114	MP3B	Z	-.318	-.318	0	%100
115	MP4B	X	.55	.55	0	%100
116	MP4B	Z	-.318	-.318	0	%100
117	MP2B	X	.55	.55	0	%100
118	MP2B	Z	-.318	-.318	0	%100
119	MP1B	X	.55	.55	0	%100
120	MP1B	Z	-.318	-.318	0	%100
121	OVP	X	.501	.501	0	%100
122	OVP	Z	-.289	-.289	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	.951	.951	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	.635	.635	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	.635	.635	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	.635	.635	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	.635	.635	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	.668	.668	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	.668	.668	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,%]
22	M52B	Z	0	0	0	%100
23	M76	X	1.605	1.605	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	1.226	1.226	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	1.291	1.291	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	1.605	1.605	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	1.226	1.226	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	1.291	1.291	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	.238	.238	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	.603	.603	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	.603	.603	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	1.203	1.203	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	.668	.668	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	0	0	0	%100
47	M63	X	.401	.401	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	1.226	1.226	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	1.291	1.291	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	.401	.401	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	0	0	0	%100
57	M71	X	0	0	0	%100
58	M71	Z	0	0	0	%100
59	M76A	X	.238	.238	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	.603	.603	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	.603	.603	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	1.203	1.203	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	0	0	0	%100
69	M83A	X	.668	.668	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	.401	.401	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	0	0	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	0	0	0	%100
77	M92A	X	.401	.401	0	%100
78	M92A	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,%]
79	M93	X	1.226	1.226	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	1.291	1.291	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	.702	.702	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	.702	.702	0	%100
86	M91B	Z	0	0	0	%100
87	M100	X	1.085	1.085	0	%100
88	M100	Z	0	0	0	%100
89	M101	X	0	0	0	%100
90	M101	Z	0	0	0	%100
91	M108	X	.632	.632	0	%100
92	M108	Z	0	0	0	%100
93	M109	X	.476	.476	0	%100
94	M109	Z	0	0	0	%100
95	M116	X	.632	.632	0	%100
96	M116	Z	0	0	0	%100
97	M117	X	.476	.476	0	%100
98	M117	Z	0	0	0	%100
99	M124	X	.572	.572	0	%100
100	M124	Z	0	0	0	%100
101	M125	X	.572	.572	0	%100
102	M125	Z	0	0	0	%100
103	M126	X	0	0	0	%100
104	M126	Z	0	0	0	%100
105	MP3C	X	.635	.635	0	%100
106	MP3C	Z	0	0	0	%100
107	MP4C	X	.635	.635	0	%100
108	MP4C	Z	0	0	0	%100
109	MP2C	X	.635	.635	0	%100
110	MP2C	Z	0	0	0	%100
111	MP1C	X	.635	.635	0	%100
112	MP1C	Z	0	0	0	%100
113	MP3B	X	.635	.635	0	%100
114	MP3B	Z	0	0	0	%100
115	MP4B	X	.635	.635	0	%100
116	MP4B	Z	0	0	0	%100
117	MP2B	X	.635	.635	0	%100
118	MP2B	Z	0	0	0	%100
119	MP1B	X	.635	.635	0	%100
120	MP1B	Z	0	0	0	%100
121	OVP	X	.579	.579	0	%100
122	OVP	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	.203	.203	0	%100
2	M1	Z	.117	.117	0	%100
3	M4	X	.617	.617	0	%100
4	M4	Z	.357	.357	0	%100
5	M10	X	.174	.174	0	%100
6	M10	Z	.101	.101	0	%100
7	MP3A	X	.55	.55	0	%100
8	MP3A	Z	.318	.318	0	%100
9	MP4A	X	.55	.55	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,%]
10	MP4A	Z	.318	.318	0	%100
11	MP2A	X	.55	.55	0	%100
12	MP2A	Z	.318	.318	0	%100
13	MP1A	X	.55	.55	0	%100
14	MP1A	Z	.318	.318	0	%100
15	M43	X	.174	.174	0	%100
16	M43	Z	.101	.101	0	%100
17	M46	X	.347	.347	0	%100
18	M46	Z	.201	.201	0	%100
19	M51B	X	.193	.193	0	%100
20	M51B	Z	.111	.111	0	%100
21	M52B	X	.772	.772	0	%100
22	M52B	Z	.445	.445	0	%100
23	M76	X	1.042	1.042	0	%100
24	M76	Z	.602	.602	0	%100
25	M77	X	.354	.354	0	%100
26	M77	Z	.204	.204	0	%100
27	M80	X	.373	.373	0	%100
28	M80	Z	.215	.215	0	%100
29	M84	X	1.042	1.042	0	%100
30	M84	Z	.602	.602	0	%100
31	M85	X	1.415	1.415	0	%100
32	M85	Z	.817	.817	0	%100
33	M91	X	1.491	1.491	0	%100
34	M91	Z	.861	.861	0	%100
35	M52A	X	.617	.617	0	%100
36	M52A	Z	.357	.357	0	%100
37	M53	X	.174	.174	0	%100
38	M53	Z	.101	.101	0	%100
39	M54	X	.174	.174	0	%100
40	M54	Z	.101	.101	0	%100
41	M55	X	.347	.347	0	%100
42	M55	Z	.201	.201	0	%100
43	M58A	X	.772	.772	0	%100
44	M58A	Z	.445	.445	0	%100
45	M59A	X	.193	.193	0	%100
46	M59A	Z	.111	.111	0	%100
47	M63	X	1.042	1.042	0	%100
48	M63	Z	.602	.602	0	%100
49	M64	X	1.415	1.415	0	%100
50	M64	Z	.817	.817	0	%100
51	M66	X	1.491	1.491	0	%100
52	M66	Z	.861	.861	0	%100
53	M68	X	1.042	1.042	0	%100
54	M68	Z	.602	.602	0	%100
55	M69	X	.354	.354	0	%100
56	M69	Z	.204	.204	0	%100
57	M71	X	.373	.373	0	%100
58	M71	Z	.215	.215	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	.697	.697	0	%100
62	M77A	Z	.402	.402	0	%100
63	M78	X	.697	.697	0	%100
64	M78	Z	.402	.402	0	%100
65	M79A	X	1.39	1.39	0	%100
66	M79A	Z	.802	.802	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,%]
67	M82	X	.193	.193	0	%100
68	M82	Z	.111	.111	0	%100
69	M83A	X	.193	.193	0	%100
70	M83A	Z	.111	.111	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	.354	.354	0	%100
74	M88A	Z	.204	.204	0	%100
75	M90	X	.373	.373	0	%100
76	M90	Z	.215	.215	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	.354	.354	0	%100
80	M93	Z	.204	.204	0	%100
81	M95	X	.373	.373	0	%100
82	M95	Z	.215	.215	0	%100
83	M82A	X	.203	.203	0	%100
84	M82A	Z	.117	.117	0	%100
85	M91B	X	.811	.811	0	%100
86	M91B	Z	.468	.468	0	%100
87	M100	X	.809	.809	0	%100
88	M100	Z	.467	.467	0	%100
89	M101	X	.138	.138	0	%100
90	M101	Z	.079	.079	0	%100
91	M108	X	.809	.809	0	%100
92	M108	Z	.467	.467	0	%100
93	M109	X	.138	.138	0	%100
94	M109	Z	.079	.079	0	%100
95	M116	X	.417	.417	0	%100
96	M116	Z	.241	.241	0	%100
97	M117	X	.55	.55	0	%100
98	M117	Z	.318	.318	0	%100
99	M124	X	.165	.165	0	%100
100	M124	Z	.095	.095	0	%100
101	M125	X	.66	.66	0	%100
102	M125	Z	.381	.381	0	%100
103	M126	X	.165	.165	0	%100
104	M126	Z	.095	.095	0	%100
105	MP3C	X	.55	.55	0	%100
106	MP3C	Z	.318	.318	0	%100
107	MP4C	X	.55	.55	0	%100
108	MP4C	Z	.318	.318	0	%100
109	MP2C	X	.55	.55	0	%100
110	MP2C	Z	.318	.318	0	%100
111	MP1C	X	.55	.55	0	%100
112	MP1C	Z	.318	.318	0	%100
113	MP3B	X	.55	.55	0	%100
114	MP3B	Z	.318	.318	0	%100
115	MP4B	X	.55	.55	0	%100
116	MP4B	Z	.318	.318	0	%100
117	MP2B	X	.55	.55	0	%100
118	MP2B	Z	.318	.318	0	%100
119	MP1B	X	.55	.55	0	%100
120	MP1B	Z	.318	.318	0	%100
121	OVP	X	.501	.501	0	%100
122	OVP	Z	.289	.289	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	.351	.351	0	%100
2	M1	Z	.608	.608	0	%100
3	M4	X	.119	.119	0	%100
4	M4	Z	.206	.206	0	%100
5	M10	X	.302	.302	0	%100
6	M10	Z	.522	.522	0	%100
7	MP3A	X	.318	.318	0	%100
8	MP3A	Z	.55	.55	0	%100
9	MP4A	X	.318	.318	0	%100
10	MP4A	Z	.55	.55	0	%100
11	MP2A	X	.318	.318	0	%100
12	MP2A	Z	.55	.55	0	%100
13	MP1A	X	.318	.318	0	%100
14	MP1A	Z	.55	.55	0	%100
15	M43	X	.302	.302	0	%100
16	M43	Z	.522	.522	0	%100
17	M46	X	.602	.602	0	%100
18	M46	Z	1.042	1.042	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	.334	.334	0	%100
22	M52B	Z	.579	.579	0	%100
23	M76	X	.201	.201	0	%100
24	M76	Z	.347	.347	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	.201	.201	0	%100
30	M84	Z	.347	.347	0	%100
31	M85	X	.613	.613	0	%100
32	M85	Z	1.061	1.061	0	%100
33	M91	X	.645	.645	0	%100
34	M91	Z	1.118	1.118	0	%100
35	M52A	X	.475	.475	0	%100
36	M52A	Z	.823	.823	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	.334	.334	0	%100
44	M58A	Z	.579	.579	0	%100
45	M59A	X	.334	.334	0	%100
46	M59A	Z	.579	.579	0	%100
47	M63	X	.802	.802	0	%100
48	M63	Z	1.39	1.39	0	%100
49	M64	X	.613	.613	0	%100
50	M64	Z	1.061	1.061	0	%100
51	M66	X	.645	.645	0	%100
52	M66	Z	1.118	1.118	0	%100
53	M68	X	.802	.802	0	%100
54	M68	Z	1.39	1.39	0	%100
55	M69	X	.613	.613	0	%100
56	M69	Z	1.061	1.061	0	%100
57	M71	X	.645	.645	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	1.118	1.118	0	%100
59	M76A	X	.119	.119	0	%100
60	M76A	Z	.206	.206	0	%100
61	M77A	X	.302	.302	0	%100
62	M77A	Z	.522	.522	0	%100
63	M78	X	.302	.302	0	%100
64	M78	Z	.522	.522	0	%100
65	M79A	X	.602	.602	0	%100
66	M79A	Z	1.042	1.042	0	%100
67	M82	X	.334	.334	0	%100
68	M82	Z	.579	.579	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	.201	.201	0	%100
72	M87	Z	.347	.347	0	%100
73	M88A	X	.613	.613	0	%100
74	M88A	Z	1.061	1.061	0	%100
75	M90	X	.645	.645	0	%100
76	M90	Z	1.118	1.118	0	%100
77	M92A	X	.201	.201	0	%100
78	M92A	Z	.347	.347	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	.351	.351	0	%100
86	M91B	Z	.608	.608	0	%100
87	M100	X	.316	.316	0	%100
88	M100	Z	.548	.548	0	%100
89	M101	X	.238	.238	0	%100
90	M101	Z	.413	.413	0	%100
91	M108	X	.542	.542	0	%100
92	M108	Z	.939	.939	0	%100
93	M109	X	0	0	0	%100
94	M109	Z	0	0	0	%100
95	M116	X	.316	.316	0	%100
96	M116	Z	.548	.548	0	%100
97	M117	X	.238	.238	0	%100
98	M117	Z	.413	.413	0	%100
99	M124	X	0	0	0	%100
100	M124	Z	0	0	0	%100
101	M125	X	.286	.286	0	%100
102	M125	Z	.495	.495	0	%100
103	M126	X	.286	.286	0	%100
104	M126	Z	.495	.495	0	%100
105	MP3C	X	.318	.318	0	%100
106	MP3C	Z	.55	.55	0	%100
107	MP4C	X	.318	.318	0	%100
108	MP4C	Z	.55	.55	0	%100
109	MP2C	X	.318	.318	0	%100
110	MP2C	Z	.55	.55	0	%100
111	MP1C	X	.318	.318	0	%100
112	MP1C	Z	.55	.55	0	%100
113	MP3B	X	.318	.318	0	%100
114	MP3B	Z	.55	.55	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,%]
115	MP4B	X	.318	.318	0	%100
116	MP4B	Z	.55	.55	0	%100
117	MP2B	X	.318	.318	0	%100
118	MP2B	Z	.55	.55	0	%100
119	MP1B	X	.318	.318	0	%100
120	MP1B	Z	.55	.55	0	%100
121	OVP	X	.289	.289	0	%100
122	OVP	Z	.501	.501	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	.936	.936	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	.804	.804	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	.635	.635	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	.635	.635	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	.635	.635	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	.635	.635	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	.804	.804	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	1.605	1.605	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	.223	.223	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	.223	.223	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	.409	.409	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	.43	.43	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	.409	.409	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	.43	.43	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	.713	.713	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	.201	.201	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	.201	.201	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	.401	.401	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	.223	.223	0	%100
45	M59A	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,%]
46	M59A	Z	.891	.891	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	1.203	1.203	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	.409	.409	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	.43	.43	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	1.203	1.203	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	1.634	1.634	0	%100
57	M71	X	0	0	0	%100
58	M71	Z	1.721	1.721	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	.713	.713	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	.201	.201	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	.201	.201	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	.401	.401	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	.891	.891	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	.223	.223	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	1.203	1.203	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	1.634	1.634	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	1.721	1.721	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	1.203	1.203	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	.409	.409	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	.43	.43	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	.234	.234	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	.234	.234	0	%100
87	M100	X	0	0	0	%100
88	M100	Z	.481	.481	0	%100
89	M101	X	0	0	0	%100
90	M101	Z	.635	.635	0	%100
91	M108	X	0	0	0	%100
92	M108	Z	.934	.934	0	%100
93	M109	X	0	0	0	%100
94	M109	Z	.159	.159	0	%100
95	M116	X	0	0	0	%100
96	M116	Z	.934	.934	0	%100
97	M117	X	0	0	0	%100
98	M117	Z	.159	.159	0	%100
99	M124	X	0	0	0	%100
100	M124	Z	.191	.191	0	%100
101	M125	X	0	0	0	%100
102	M125	Z	.191	.191	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,%]
103	M126	X	0	0	0	%100
104	M126	Z	.762	.762	0	%100
105	MP3C	X	0	0	0	%100
106	MP3C	Z	.635	.635	0	%100
107	MP4C	X	0	0	0	%100
108	MP4C	Z	.635	.635	0	%100
109	MP2C	X	0	0	0	%100
110	MP2C	Z	.635	.635	0	%100
111	MP1C	X	0	0	0	%100
112	MP1C	Z	.635	.635	0	%100
113	MP3B	X	0	0	0	%100
114	MP3B	Z	.635	.635	0	%100
115	MP4B	X	0	0	0	%100
116	MP4B	Z	.635	.635	0	%100
117	MP2B	X	0	0	0	%100
118	MP2B	Z	.635	.635	0	%100
119	MP1B	X	0	0	0	%100
120	MP1B	Z	.635	.635	0	%100
121	OVP	X	0	0	0	%100
122	OVP	Z	.579	.579	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	-.351	-.351	0	%100
2	M1	Z	.608	.608	0	%100
3	M4	X	-.119	-.119	0	%100
4	M4	Z	.206	.206	0	%100
5	M10	X	-.302	-.302	0	%100
6	M10	Z	.522	.522	0	%100
7	MP3A	X	-.318	-.318	0	%100
8	MP3A	Z	.55	.55	0	%100
9	MP4A	X	-.318	-.318	0	%100
10	MP4A	Z	.55	.55	0	%100
11	MP2A	X	-.318	-.318	0	%100
12	MP2A	Z	.55	.55	0	%100
13	MP1A	X	-.318	-.318	0	%100
14	MP1A	Z	.55	.55	0	%100
15	M43	X	-.302	-.302	0	%100
16	M43	Z	.522	.522	0	%100
17	M46	X	-.602	-.602	0	%100
18	M46	Z	1.042	1.042	0	%100
19	M51B	X	-.334	-.334	0	%100
20	M51B	Z	.579	.579	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-.201	-.201	0	%100
24	M76	Z	.347	.347	0	%100
25	M77	X	-.613	-.613	0	%100
26	M77	Z	1.061	1.061	0	%100
27	M80	X	-.645	-.645	0	%100
28	M80	Z	1.118	1.118	0	%100
29	M84	X	-.201	-.201	0	%100
30	M84	Z	.347	.347	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	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,%]
34	M91	Z	0	0	0	%100
35	M52A	X	-.119	-.119	0	%100
36	M52A	Z	.206	.206	0	%100
37	M53	X	-.302	-.302	0	%100
38	M53	Z	.522	.522	0	%100
39	M54	X	-.302	-.302	0	%100
40	M54	Z	.522	.522	0	%100
41	M55	X	-.602	-.602	0	%100
42	M55	Z	1.042	1.042	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	-.334	-.334	0	%100
46	M59A	Z	.579	.579	0	%100
47	M63	X	-.201	-.201	0	%100
48	M63	Z	.347	.347	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	-.201	-.201	0	%100
54	M68	Z	.347	.347	0	%100
55	M69	X	-.613	-.613	0	%100
56	M69	Z	1.061	1.061	0	%100
57	M71	X	-.645	-.645	0	%100
58	M71	Z	1.118	1.118	0	%100
59	M76A	X	-.475	-.475	0	%100
60	M76A	Z	.823	.823	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	-.334	-.334	0	%100
68	M82	Z	.579	.579	0	%100
69	M83A	X	-.334	-.334	0	%100
70	M83A	Z	.579	.579	0	%100
71	M87	X	-.802	-.802	0	%100
72	M87	Z	1.39	1.39	0	%100
73	M88A	X	-.613	-.613	0	%100
74	M88A	Z	1.061	1.061	0	%100
75	M90	X	-.645	-.645	0	%100
76	M90	Z	1.118	1.118	0	%100
77	M92A	X	-.802	-.802	0	%100
78	M92A	Z	1.39	1.39	0	%100
79	M93	X	-.613	-.613	0	%100
80	M93	Z	1.061	1.061	0	%100
81	M95	X	-.645	-.645	0	%100
82	M95	Z	1.118	1.118	0	%100
83	M82A	X	-.351	-.351	0	%100
84	M82A	Z	.608	.608	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	0	0	0	%100
87	M100	X	-.316	-.316	0	%100
88	M100	Z	.548	.548	0	%100
89	M101	X	-.238	-.238	0	%100
90	M101	Z	.413	.413	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,%]
91	M108	X	-.316	-.316	0	%100
92	M108	Z	.548	.548	0	%100
93	M109	X	-.238	-.238	0	%100
94	M109	Z	.413	.413	0	%100
95	M116	X	-.542	-.542	0	%100
96	M116	Z	.939	.939	0	%100
97	M117	X	0	0	0	%100
98	M117	Z	0	0	0	%100
99	M124	X	-.286	-.286	0	%100
100	M124	Z	.495	.495	0	%100
101	M125	X	0	0	0	%100
102	M125	Z	0	0	0	%100
103	M126	X	-.286	-.286	0	%100
104	M126	Z	.495	.495	0	%100
105	MP3C	X	-.318	-.318	0	%100
106	MP3C	Z	.55	.55	0	%100
107	MP4C	X	-.318	-.318	0	%100
108	MP4C	Z	.55	.55	0	%100
109	MP2C	X	-.318	-.318	0	%100
110	MP2C	Z	.55	.55	0	%100
111	MP1C	X	-.318	-.318	0	%100
112	MP1C	Z	.55	.55	0	%100
113	MP3B	X	-.318	-.318	0	%100
114	MP3B	Z	.55	.55	0	%100
115	MP4B	X	-.318	-.318	0	%100
116	MP4B	Z	.55	.55	0	%100
117	MP2B	X	-.318	-.318	0	%100
118	MP2B	Z	.55	.55	0	%100
119	MP1B	X	-.318	-.318	0	%100
120	MP1B	Z	.55	.55	0	%100
121	OVP	X	-.289	-.289	0	%100
122	OVP	Z	.501	.501	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	-.203	-.203	0	%100
2	M1	Z	.117	.117	0	%100
3	M4	X	-.617	-.617	0	%100
4	M4	Z	.357	.357	0	%100
5	M10	X	-.174	-.174	0	%100
6	M10	Z	.101	.101	0	%100
7	MP3A	X	-.55	-.55	0	%100
8	MP3A	Z	.318	.318	0	%100
9	MP4A	X	-.55	-.55	0	%100
10	MP4A	Z	.318	.318	0	%100
11	MP2A	X	-.55	-.55	0	%100
12	MP2A	Z	.318	.318	0	%100
13	MP1A	X	-.55	-.55	0	%100
14	MP1A	Z	.318	.318	0	%100
15	M43	X	-.174	-.174	0	%100
16	M43	Z	.101	.101	0	%100
17	M46	X	-.347	-.347	0	%100
18	M46	Z	.201	.201	0	%100
19	M51B	X	-.772	-.772	0	%100
20	M51B	Z	.445	.445	0	%100
21	M52B	X	-.193	-.193	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,%]
22	M52B	Z	.111	.111	0	%100
23	M76	X	-1.042	-1.042	0	%100
24	M76	Z	.602	.602	0	%100
25	M77	X	-1.415	-1.415	0	%100
26	M77	Z	.817	.817	0	%100
27	M80	X	-1.491	-1.491	0	%100
28	M80	Z	.861	.861	0	%100
29	M84	X	-1.042	-1.042	0	%100
30	M84	Z	.602	.602	0	%100
31	M85	X	-.354	-.354	0	%100
32	M85	Z	.204	.204	0	%100
33	M91	X	-.373	-.373	0	%100
34	M91	Z	.215	.215	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	-.697	-.697	0	%100
38	M53	Z	.402	.402	0	%100
39	M54	X	-.697	-.697	0	%100
40	M54	Z	.402	.402	0	%100
41	M55	X	-1.39	-1.39	0	%100
42	M55	Z	.802	.802	0	%100
43	M58A	X	-.193	-.193	0	%100
44	M58A	Z	.111	.111	0	%100
45	M59A	X	-.193	-.193	0	%100
46	M59A	Z	.111	.111	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	-.354	-.354	0	%100
50	M64	Z	.204	.204	0	%100
51	M66	X	-.373	-.373	0	%100
52	M66	Z	.215	.215	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	-.354	-.354	0	%100
56	M69	Z	.204	.204	0	%100
57	M71	X	-.373	-.373	0	%100
58	M71	Z	.215	.215	0	%100
59	M76A	X	-.617	-.617	0	%100
60	M76A	Z	.357	.357	0	%100
61	M77A	X	-.174	-.174	0	%100
62	M77A	Z	.101	.101	0	%100
63	M78	X	-.174	-.174	0	%100
64	M78	Z	.101	.101	0	%100
65	M79A	X	-.347	-.347	0	%100
66	M79A	Z	.201	.201	0	%100
67	M82	X	-.193	-.193	0	%100
68	M82	Z	.111	.111	0	%100
69	M83A	X	-.772	-.772	0	%100
70	M83A	Z	.445	.445	0	%100
71	M87	X	-1.042	-1.042	0	%100
72	M87	Z	.602	.602	0	%100
73	M88A	X	-.354	-.354	0	%100
74	M88A	Z	.204	.204	0	%100
75	M90	X	-.373	-.373	0	%100
76	M90	Z	.215	.215	0	%100
77	M92A	X	-1.042	-1.042	0	%100
78	M92A	Z	.602	.602	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,%]
79	M93	X	-1.415	-1.415	0	%100
80	M93	Z	.817	.817	0	%100
81	M95	X	-1.491	-1.491	0	%100
82	M95	Z	.861	.861	0	%100
83	M82A	X	-.811	-.811	0	%100
84	M82A	Z	.468	.468	0	%100
85	M91B	X	-.203	-.203	0	%100
86	M91B	Z	.117	.117	0	%100
87	M100	X	-.809	-.809	0	%100
88	M100	Z	.467	.467	0	%100
89	M101	X	-.138	-.138	0	%100
90	M101	Z	.079	.079	0	%100
91	M108	X	-.417	-.417	0	%100
92	M108	Z	.241	.241	0	%100
93	M109	X	-.55	-.55	0	%100
94	M109	Z	.318	.318	0	%100
95	M116	X	-.809	-.809	0	%100
96	M116	Z	.467	.467	0	%100
97	M117	X	-.138	-.138	0	%100
98	M117	Z	.079	.079	0	%100
99	M124	X	-.66	-.66	0	%100
100	M124	Z	.381	.381	0	%100
101	M125	X	-.165	-.165	0	%100
102	M125	Z	.095	.095	0	%100
103	M126	X	-.165	-.165	0	%100
104	M126	Z	.095	.095	0	%100
105	MP3C	X	-.55	-.55	0	%100
106	MP3C	Z	.318	.318	0	%100
107	MP4C	X	-.55	-.55	0	%100
108	MP4C	Z	.318	.318	0	%100
109	MP2C	X	-.55	-.55	0	%100
110	MP2C	Z	.318	.318	0	%100
111	MP1C	X	-.55	-.55	0	%100
112	MP1C	Z	.318	.318	0	%100
113	MP3B	X	-.55	-.55	0	%100
114	MP3B	Z	.318	.318	0	%100
115	MP4B	X	-.55	-.55	0	%100
116	MP4B	Z	.318	.318	0	%100
117	MP2B	X	-.55	-.55	0	%100
118	MP2B	Z	.318	.318	0	%100
119	MP1B	X	-.55	-.55	0	%100
120	MP1B	Z	.318	.318	0	%100
121	OVP	X	-.501	-.501	0	%100
122	OVP	Z	.289	.289	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-.951	-.951	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	-.635	-.635	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	-.635	-.635	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,%]
10	MP4A	Z	0	0	0	%100
11	MP2A	X	-.635	-.635	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-.635	-.635	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	-.668	-.668	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-.668	-.668	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-1.605	-1.605	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	-1.226	-1.226	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	-1.291	-1.291	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-1.605	-1.605	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	-1.226	-1.226	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	-1.291	-1.291	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	-.238	-.238	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	-.603	-.603	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	-.603	-.603	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	-1.203	-1.203	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	-.668	-.668	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	0	0	0	%100
47	M63	X	-.401	-.401	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	-1.226	-1.226	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	-1.291	-1.291	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	-.401	-.401	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	0	0	0	%100
57	M71	X	0	0	0	%100
58	M71	Z	0	0	0	%100
59	M76A	X	-.238	-.238	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	-.603	-.603	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	-.603	-.603	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	-1.203	-1.203	0	%100
66	M79A	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,%]
67	M82	X	0	0	0	%100
68	M82	Z	0	0	0	%100
69	M83A	X	-.668	-.668	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	-.401	-.401	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	0	0	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	0	0	0	%100
77	M92A	X	-.401	-.401	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	-1.226	-1.226	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	-1.291	-1.291	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	-.702	-.702	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	-.702	-.702	0	%100
86	M91B	Z	0	0	0	%100
87	M100	X	-1.085	-1.085	0	%100
88	M100	Z	0	0	0	%100
89	M101	X	0	0	0	%100
90	M101	Z	0	0	0	%100
91	M108	X	-.632	-.632	0	%100
92	M108	Z	0	0	0	%100
93	M109	X	-.476	-.476	0	%100
94	M109	Z	0	0	0	%100
95	M116	X	-.632	-.632	0	%100
96	M116	Z	0	0	0	%100
97	M117	X	-.476	-.476	0	%100
98	M117	Z	0	0	0	%100
99	M124	X	-.572	-.572	0	%100
100	M124	Z	0	0	0	%100
101	M125	X	-.572	-.572	0	%100
102	M125	Z	0	0	0	%100
103	M126	X	0	0	0	%100
104	M126	Z	0	0	0	%100
105	MP3C	X	-.635	-.635	0	%100
106	MP3C	Z	0	0	0	%100
107	MP4C	X	-.635	-.635	0	%100
108	MP4C	Z	0	0	0	%100
109	MP2C	X	-.635	-.635	0	%100
110	MP2C	Z	0	0	0	%100
111	MP1C	X	-.635	-.635	0	%100
112	MP1C	Z	0	0	0	%100
113	MP3B	X	-.635	-.635	0	%100
114	MP3B	Z	0	0	0	%100
115	MP4B	X	-.635	-.635	0	%100
116	MP4B	Z	0	0	0	%100
117	MP2B	X	-.635	-.635	0	%100
118	MP2B	Z	0	0	0	%100
119	MP1B	X	-.635	-.635	0	%100
120	MP1B	Z	0	0	0	%100
121	OVP	X	-.579	-.579	0	%100
122	OVP	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	-.203	-.203	0	%100
2	M1	Z	-.117	-.117	0	%100
3	M4	X	-.617	-.617	0	%100
4	M4	Z	-.357	-.357	0	%100
5	M10	X	-.174	-.174	0	%100
6	M10	Z	-.101	-.101	0	%100
7	MP3A	X	-.55	-.55	0	%100
8	MP3A	Z	-.318	-.318	0	%100
9	MP4A	X	-.55	-.55	0	%100
10	MP4A	Z	-.318	-.318	0	%100
11	MP2A	X	-.55	-.55	0	%100
12	MP2A	Z	-.318	-.318	0	%100
13	MP1A	X	-.55	-.55	0	%100
14	MP1A	Z	-.318	-.318	0	%100
15	M43	X	-.174	-.174	0	%100
16	M43	Z	-.101	-.101	0	%100
17	M46	X	-.347	-.347	0	%100
18	M46	Z	-.201	-.201	0	%100
19	M51B	X	-.193	-.193	0	%100
20	M51B	Z	-.111	-.111	0	%100
21	M52B	X	-.772	-.772	0	%100
22	M52B	Z	-.445	-.445	0	%100
23	M76	X	-1.042	-1.042	0	%100
24	M76	Z	-.602	-.602	0	%100
25	M77	X	-.354	-.354	0	%100
26	M77	Z	-.204	-.204	0	%100
27	M80	X	-.373	-.373	0	%100
28	M80	Z	-.215	-.215	0	%100
29	M84	X	-1.042	-1.042	0	%100
30	M84	Z	-.602	-.602	0	%100
31	M85	X	-1.415	-1.415	0	%100
32	M85	Z	-.817	-.817	0	%100
33	M91	X	-1.491	-1.491	0	%100
34	M91	Z	-.861	-.861	0	%100
35	M52A	X	-.617	-.617	0	%100
36	M52A	Z	-.357	-.357	0	%100
37	M53	X	-.174	-.174	0	%100
38	M53	Z	-.101	-.101	0	%100
39	M54	X	-.174	-.174	0	%100
40	M54	Z	-.101	-.101	0	%100
41	M55	X	-.347	-.347	0	%100
42	M55	Z	-.201	-.201	0	%100
43	M58A	X	-.772	-.772	0	%100
44	M58A	Z	-.445	-.445	0	%100
45	M59A	X	-.193	-.193	0	%100
46	M59A	Z	-.111	-.111	0	%100
47	M63	X	-1.042	-1.042	0	%100
48	M63	Z	-.602	-.602	0	%100
49	M64	X	-1.415	-1.415	0	%100
50	M64	Z	-.817	-.817	0	%100
51	M66	X	-1.491	-1.491	0	%100
52	M66	Z	-.861	-.861	0	%100
53	M68	X	-1.042	-1.042	0	%100
54	M68	Z	-.602	-.602	0	%100
55	M69	X	-.354	-.354	0	%100
56	M69	Z	-.204	-.204	0	%100
57	M71	X	-.373	-.373	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	-.215	-.215	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	-.697	-.697	0	%100
62	M77A	Z	-.402	-.402	0	%100
63	M78	X	-.697	-.697	0	%100
64	M78	Z	-.402	-.402	0	%100
65	M79A	X	-1.39	-1.39	0	%100
66	M79A	Z	-.802	-.802	0	%100
67	M82	X	-.193	-.193	0	%100
68	M82	Z	-.111	-.111	0	%100
69	M83A	X	-.193	-.193	0	%100
70	M83A	Z	-.111	-.111	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	-.354	-.354	0	%100
74	M88A	Z	-.204	-.204	0	%100
75	M90	X	-.373	-.373	0	%100
76	M90	Z	-.215	-.215	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	-.354	-.354	0	%100
80	M93	Z	-.204	-.204	0	%100
81	M95	X	-.373	-.373	0	%100
82	M95	Z	-.215	-.215	0	%100
83	M82A	X	-.203	-.203	0	%100
84	M82A	Z	-.117	-.117	0	%100
85	M91B	X	-.811	-.811	0	%100
86	M91B	Z	-.468	-.468	0	%100
87	M100	X	-.809	-.809	0	%100
88	M100	Z	-.467	-.467	0	%100
89	M101	X	-.138	-.138	0	%100
90	M101	Z	-.079	-.079	0	%100
91	M108	X	-.809	-.809	0	%100
92	M108	Z	-.467	-.467	0	%100
93	M109	X	-.138	-.138	0	%100
94	M109	Z	-.079	-.079	0	%100
95	M116	X	-.417	-.417	0	%100
96	M116	Z	-.241	-.241	0	%100
97	M117	X	-.55	-.55	0	%100
98	M117	Z	-.318	-.318	0	%100
99	M124	X	-.165	-.165	0	%100
100	M124	Z	-.095	-.095	0	%100
101	M125	X	-.66	-.66	0	%100
102	M125	Z	-.381	-.381	0	%100
103	M126	X	-.165	-.165	0	%100
104	M126	Z	-.095	-.095	0	%100
105	MP3C	X	-.55	-.55	0	%100
106	MP3C	Z	-.318	-.318	0	%100
107	MP4C	X	-.55	-.55	0	%100
108	MP4C	Z	-.318	-.318	0	%100
109	MP2C	X	-.55	-.55	0	%100
110	MP2C	Z	-.318	-.318	0	%100
111	MP1C	X	-.55	-.55	0	%100
112	MP1C	Z	-.318	-.318	0	%100
113	MP3B	X	-.55	-.55	0	%100
114	MP3B	Z	-.318	-.318	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,%]
115	MP4B	X	-.55	-.55	0	%100
116	MP4B	Z	-.318	-.318	0	%100
117	MP2B	X	-.55	-.55	0	%100
118	MP2B	Z	-.318	-.318	0	%100
119	MP1B	X	-.55	-.55	0	%100
120	MP1B	Z	-.318	-.318	0	%100
121	OVP	X	-.501	-.501	0	%100
122	OVP	Z	-.289	-.289	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	-.351	-.351	0	%100
2	M1	Z	-.608	-.608	0	%100
3	M4	X	-.119	-.119	0	%100
4	M4	Z	-.206	-.206	0	%100
5	M10	X	-.302	-.302	0	%100
6	M10	Z	-.522	-.522	0	%100
7	MP3A	X	-.318	-.318	0	%100
8	MP3A	Z	-.55	-.55	0	%100
9	MP4A	X	-.318	-.318	0	%100
10	MP4A	Z	-.55	-.55	0	%100
11	MP2A	X	-.318	-.318	0	%100
12	MP2A	Z	-.55	-.55	0	%100
13	MP1A	X	-.318	-.318	0	%100
14	MP1A	Z	-.55	-.55	0	%100
15	M43	X	-.302	-.302	0	%100
16	M43	Z	-.522	-.522	0	%100
17	M46	X	-.602	-.602	0	%100
18	M46	Z	-1.042	-1.042	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-.334	-.334	0	%100
22	M52B	Z	-.579	-.579	0	%100
23	M76	X	-.201	-.201	0	%100
24	M76	Z	-.347	-.347	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-.201	-.201	0	%100
30	M84	Z	-.347	-.347	0	%100
31	M85	X	-.613	-.613	0	%100
32	M85	Z	-1.061	-1.061	0	%100
33	M91	X	-.645	-.645	0	%100
34	M91	Z	-1.118	-1.118	0	%100
35	M52A	X	-.475	-.475	0	%100
36	M52A	Z	-.823	-.823	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	-.334	-.334	0	%100
44	M58A	Z	-.579	-.579	0	%100
45	M59A	X	-.334	-.334	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,%]
46	M59A	Z	-.579	-.579	0	%100
47	M63	X	-.802	-.802	0	%100
48	M63	Z	-1.39	-1.39	0	%100
49	M64	X	-.613	-.613	0	%100
50	M64	Z	-1.061	-1.061	0	%100
51	M66	X	-.645	-.645	0	%100
52	M66	Z	-1.118	-1.118	0	%100
53	M68	X	-.802	-.802	0	%100
54	M68	Z	-1.39	-1.39	0	%100
55	M69	X	-.613	-.613	0	%100
56	M69	Z	-1.061	-1.061	0	%100
57	M71	X	-.645	-.645	0	%100
58	M71	Z	-1.118	-1.118	0	%100
59	M76A	X	-.119	-.119	0	%100
60	M76A	Z	-.206	-.206	0	%100
61	M77A	X	-.302	-.302	0	%100
62	M77A	Z	-.522	-.522	0	%100
63	M78	X	-.302	-.302	0	%100
64	M78	Z	-.522	-.522	0	%100
65	M79A	X	-.602	-.602	0	%100
66	M79A	Z	-1.042	-1.042	0	%100
67	M82	X	-.334	-.334	0	%100
68	M82	Z	-.579	-.579	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	-.201	-.201	0	%100
72	M87	Z	-.347	-.347	0	%100
73	M88A	X	-.613	-.613	0	%100
74	M88A	Z	-1.061	-1.061	0	%100
75	M90	X	-.645	-.645	0	%100
76	M90	Z	-1.118	-1.118	0	%100
77	M92A	X	-.201	-.201	0	%100
78	M92A	Z	-.347	-.347	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	-.351	-.351	0	%100
86	M91B	Z	-.608	-.608	0	%100
87	M100	X	-.316	-.316	0	%100
88	M100	Z	-.548	-.548	0	%100
89	M101	X	-.238	-.238	0	%100
90	M101	Z	-.413	-.413	0	%100
91	M108	X	-.542	-.542	0	%100
92	M108	Z	-.939	-.939	0	%100
93	M109	X	0	0	0	%100
94	M109	Z	0	0	0	%100
95	M116	X	-.316	-.316	0	%100
96	M116	Z	-.548	-.548	0	%100
97	M117	X	-.238	-.238	0	%100
98	M117	Z	-.413	-.413	0	%100
99	M124	X	0	0	0	%100
100	M124	Z	0	0	0	%100
101	M125	X	-.286	-.286	0	%100
102	M125	Z	-.495	-.495	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,%]
103	M126	X	-.286	-.286	0	%100
104	M126	Z	-.495	-.495	0	%100
105	MP3C	X	-.318	-.318	0	%100
106	MP3C	Z	-.55	-.55	0	%100
107	MP4C	X	-.318	-.318	0	%100
108	MP4C	Z	-.55	-.55	0	%100
109	MP2C	X	-.318	-.318	0	%100
110	MP2C	Z	-.55	-.55	0	%100
111	MP1C	X	-.318	-.318	0	%100
112	MP1C	Z	-.55	-.55	0	%100
113	MP3B	X	-.318	-.318	0	%100
114	MP3B	Z	-.55	-.55	0	%100
115	MP4B	X	-.318	-.318	0	%100
116	MP4B	Z	-.55	-.55	0	%100
117	MP2B	X	-.318	-.318	0	%100
118	MP2B	Z	-.55	-.55	0	%100
119	MP1B	X	-.318	-.318	0	%100
120	MP1B	Z	-.55	-.55	0	%100
121	OVP	X	-.289	-.289	0	%100
122	OVP	Z	-.501	-.501	0	%100

Member Distributed Loads (BLC 87 : BLC 39 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M51B	Y	-1.601	-4.064	0	.832
2	M51B	Y	-4.064	-6.635	.832	1.665
3	M51B	Y	-6.635	-7.874	1.665	2.497
4	M51B	Y	-7.874	-6.292	2.497	3.329
5	M51B	Y	-6.292	-3.33	3.329	4.162
6	M52B	Y	-3.336	-6.325	0	.832
7	M52B	Y	-6.325	-7.938	.832	1.665
8	M52B	Y	-7.938	-6.771	1.665	2.497
9	M52B	Y	-6.771	-4.259	2.497	3.329
10	M52B	Y	-4.259	-1.808	3.329	4.162
11	M82	Y	-1.807	-4.258	0	.832
12	M82	Y	-4.258	-6.771	.832	1.665
13	M82	Y	-6.771	-7.939	1.665	2.497
14	M82	Y	-7.939	-6.325	2.497	3.329
15	M82	Y	-6.325	-3.336	3.329	4.162
16	M83A	Y	-3.33	-6.293	0	.832
17	M83A	Y	-6.293	-7.874	.832	1.665
18	M83A	Y	-7.874	-6.634	1.665	2.497
19	M83A	Y	-6.634	-4.064	2.497	3.329
20	M83A	Y	-4.064	-1.601	3.329	4.162
21	M58A	Y	-1.601	-4.064	0	.832
22	M58A	Y	-4.064	-6.634	.832	1.665
23	M58A	Y	-6.634	-7.874	1.665	2.497
24	M58A	Y	-7.874	-6.293	2.497	3.329
25	M58A	Y	-6.293	-3.33	3.329	4.162
26	M59A	Y	-3.336	-6.325	0	.832
27	M59A	Y	-6.325	-7.939	.832	1.665
28	M59A	Y	-7.939	-6.771	1.665	2.497
29	M59A	Y	-6.771	-4.258	2.497	3.329
30	M59A	Y	-4.258	-1.807	3.329	4.162

Member Distributed Loads (BLC 88 : BLC 40 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]

Member Distributed Loads (BLC 88 : BLC 40 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M51B	Y	-3.523	-8.94	0	.832
2	M51B	Y	-8.94	-14.598	.832	1.665
3	M51B	Y	-14.598	-17.324	1.665	2.497
4	M51B	Y	-17.324	-13.842	2.497	3.329
5	M51B	Y	-13.842	-7.325	3.329	4.162
6	M52B	Y	-7.339	-13.914	0	.832
7	M52B	Y	-13.914	-17.464	.832	1.665
8	M52B	Y	-17.464	-14.895	1.665	2.497
9	M52B	Y	-14.895	-9.37	2.497	3.329
10	M52B	Y	-9.37	-3.979	3.329	4.162
11	M82	Y	-3.976	-9.367	0	.832
12	M82	Y	-9.367	-14.896	.832	1.665
13	M82	Y	-14.896	-17.465	1.665	2.497
14	M82	Y	-17.465	-13.915	2.497	3.329
15	M82	Y	-13.915	-7.34	3.329	4.162
16	M83A	Y	-7.325	-13.844	0	.832
17	M83A	Y	-13.844	-17.322	.832	1.665
18	M83A	Y	-17.322	-14.596	1.665	2.497
19	M83A	Y	-14.596	-8.941	2.497	3.329
20	M83A	Y	-8.941	-3.523	3.329	4.162
21	M58A	Y	-3.523	-8.941	0	.832
22	M58A	Y	-8.941	-14.596	.832	1.665
23	M58A	Y	-14.596	-17.322	1.665	2.497
24	M58A	Y	-17.322	-13.844	2.497	3.329
25	M58A	Y	-13.844	-7.325	3.329	4.162
26	M59A	Y	-7.34	-13.915	0	.832
27	M59A	Y	-13.915	-17.465	.832	1.665
28	M59A	Y	-17.465	-14.896	1.665	2.497
29	M59A	Y	-14.896	-9.367	2.497	3.329
30	M59A	Y	-9.367	-3.976	3.329	4.162

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N87C	N87B	N7	N6	Y	Two Way	-.005
2	N118	N141	N139	N117	Y	Two Way	-.005
3	N89	N111	N113	N90	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N87C	N87B	N7	N6	Y	Two Way	-.011
2	N118	N141	N139	N117	Y	Two Way	-.011
3	N89	N111	N113	N90	Y	Two Way	-.011

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N3	max	943.506	10	765.075	20	3374.191	1	.796	20	1.174	4	.171	13
2		min	-926.922	4	228.799	38	-1250.331	7	.247	38	-1.189	10	.003	30
3	N87D	max	2729.02	10	604.737	15	456.106	2	-.024	8	.974	12	-.239	10
4		min	-970.245	4	215.525	73	-1484.949	8	-.85	38	-.976	6	-.674	16
5	N115	max	740.69	11	614.52	24	954.716	1	-.163	69	1.331	8	.564	24
6		min	-2539.977	5	170.303	49	-2010.916	7	-.949	25	-1.291	2	.117	49
7	N141A	max	37.53	10	1424.68	13	-709.794	7	0	75	0	4	0	10
8		min	-37.505	4	431.55	7	-2316.195	13	0	1	0	10	0	4

Envelope Joint Reactions (Continued)

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
9	N160	max	-613.341	3	1405.105	21	1141.72	21	0	6	0	48	0	48
10		min	-1977.449	21	430.588	3	354.029	3	0	48	0	6	0	6
11	N179	max	1996.259	17	1418.05	17	1152.535	17	0	8	0	8	0	8
12		min	622.351	11	436.842	11	359.388	11	0	26	0	26	0	26
13	Totals:	max	3669.656	10	6047.887	21	4085.964	1						
14		min	-3669.652	4	2188.38	68	-4085.965	7						

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

	Member	Shape	Code ...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [...	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	MP2A	PIPE_2.0	.316	4	1	.064	4		6	14916.096	32130	1.872	1.872	1...	H1-1b
2	MP2C	PIPE_2.0	.308	4	1	.063	4		1	14916.096	32130	1.872	1.872	1...	H1-1b
3	MP2B	PIPE_2.0	.295	4	10	.059	4		4	14916.096	32130	1.872	1.872	1...	H1-1b
4	M77	PL3/8x6	.208	.167	8	.135	0	y	24	71601.728	72900	.57	9.113	2...	H1-1b
5	M64	PL3/8x6	.204	.167	4	.134	0	y	21	71601.728	72900	.57	9.113	2...	H1-1b
6	M88A	PL3/8x6	.201	.167	12	.187	0	y	27	71601.728	72900	.57	9.113	2...	H1-1b
7	MP3C	PIPE_2.0	.197	4	7	.040	4		3	14916.096	32130	1.872	1.872	1...	H1-1b
8	MP3B	PIPE_2.0	.183	4	3	.047	4		11	14916.096	32130	1.872	1.872	1...	H1-1b
9	M69	PL3/8x6	.177	.167	2	.187	0	y	42	71601.728	72900	.57	9.113	1...	H1-1b
10	MP3A	PIPE_2.0	.175	4	12	.050	4		1	14916.096	32130	1.872	1.872	1...	H1-1b
11	M87	PL3/8x6	.173	0	8	.100	0	y	31	70677.939	72900	.57	9.113	1...	H1-1b
12	M85	PL3/8x6	.169	.167	6	.132	0	y	22	71601.728	72900	.57	9.113	1...	H1-1b
13	M93	PL3/8x6	.155	.167	10	.134	0	y	13	71601.728	72900	.57	9.113	1...	H1-1b
14	M92A	PL3/8x6	.149	0	1	.128	0	y	36	70677.939	72900	.57	9.113	1...	H1-1b
15	MP1C	PIPE_2.0	.135	4	12	.043	4		9	14916.096	32130	1.872	1.872	1...	H1-1b
16	M82	L2x2x3	.133	0	7	.009	4.162	y	21	9823.122	23392.8	.558	1.069	1...	H2-1
17	M51B	L2x2x3	.127	4.162	2	.009	4.162	y	17	9823.122	23392.8	.558	1.092	1...	H2-1
18	M58A	L2x2x3	.126	4.162	10	.009	4.162	y	13	9823.122	23392.8	.558	1.092	1...	H2-1
19	M68	PL3/8x6	.124	0	2	.113	0	y	27	70677.939	72900	.57	9.113	1...	H1-1b
20	MP1B	PIPE_2.0	.120	4	8	.043	4		12	14916.096	32130	1.872	1.872	1...	H1-1b
21	MP1A	PIPE_2.0	.119	4	3	.044	4		2	14916.096	32130	1.872	1.872	1...	H1-1b
22	M126	L2.5x2.5x4	.119	1.309	2	.017	0	z	10	36459.909	38556	1.114	2.537	2...	H2-1
23	M124	L2.5x2.5x4	.116	1.309	11	.018	0	z	6	36459.909	38556	1.114	2.537	2...	H2-1
24	M76	PL3/8x6	.116	0	4	.047	0	y	2	70677.939	72900	.57	9.113	1...	H1-1b
25	M52B	L2x2x3	.115	4.162	12	.010	4.162	y	20	9823.122	23392.8	.558	1.09	1...	H2-1
26	M55	PL1/2x6	.115	.516	8	.069	.516	y	18	66009.234	97200	1.012	12.15	1...	H1-1b
27	M63	PL3/8x6	.114	0	12	.090	0	y	41	70677.939	72900	.57	9.113	1...	H1-1b
28	M46	PL1/2x6	.112	.516	12	.072	.516	y	22	66009.234	97200	1.012	12.15	1...	H1-1b
29	M59A	L2x2x3	.110	4.162	8	.010	4.162	y	17	9823.122	23392.8	.558	1.09	1...	H2-1
30	M84	PL3/8x6	.109	0	10	.089	0	y	19	70677.939	72900	.57	9.113	1...	H1-1b
31	MP4C	PIPE_2.0	.107	4	6	.039	4		2	14916.096	32130	1.872	1.872	1...	H1-1b
32	M76A	HSS4X4X4	.107	0	2	.066	0	y	26	124657.7...	139518	16.181	16.181	2...	H1-1b
33	M125	L2.5x2.5x4	.104	1.309	7	.021	0	z	2	36459.909	38556	1.114	2.537	2...	H2-1
34	M83A	L2x2x3	.103	4.162	3	.010	4.162	y	13	9823.122	23392.8	.558	1.07	1...	H2-1
35	M79A	PL1/2x6	.103	.516	4	.090	.516	y	49	66009.234	97200	1.012	12.15	1...	H1-1b
36	M4	HSS4X4X4	.102	0	10	.032	4.215	y	23	124657.7...	139518	16.181	16.181	2...	H1-1b
37	MP4B	PIPE_2.0	.100	4	2	.037	4		4	14916.096	32130	1.872	1.872	1...	H1-1b
38	M1	PIPE_3.0	.096	4.297	36	.048	4.818		1	28250.554	65205	5.749	5.749	2...	H1-1b
39	MP4A	PIPE_2.0	.095	4	10	.040	4		12	14916.096	32130	1.872	1.872	1...	H1-1b
40	M117	PIPE_2.0	.089	11.198	2	.041	1.172		10	6295.422	32130	1.872	1.872	3...	H1-1b
41	M52A	HSS4X4X4	.087	0	6	.057	0	y	38	124657.7...	139518	16.181	16.181	2...	H1-1b
42	M54	HSS4X4X4	.084	0	44	.036	0	y	38	136263.03	139518	16.181	16.181	1...	H1-1b
43	M77A	HSS4X4X4	.082	2.375	30	.039	2.375	y	25	136263.03	139518	16.181	16.181	1...	H1-1b
44	M109	PIPE_2.0	.080	4.297	2	.047	1.172		2	6295.422	32130	1.872	1.872	3...	H1-1b
45	M78	HSS4X4X4	.078	0	16	.024	0	y	22	136263.03	139518	16.181	16.181	1...	H1-1b
46	M43	HSS4X4X4	.078	0	24	.024	2.152	z	12	136263.03	139518	16.181	16.181	1...	H1-1b

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

	Member	Shape	Code ...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [...	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn
47	M10	HSS4X4X4	.077	2.375	14	.032	.223	z	2	136263.03	139518	16.181	16.181	1....	H1-1b
48	M53	HSS4X4X4	.077	2.375	22	.031	.223	z	10	136263.03	139518	16.181	16.181	1....	H1-1b
49	M101	PIPE_2.0	.076	4.297	7	.042	11.328		1	6295.422	32130	1.872	1.872	2....	H1-1b
50	M100	LL2.5x2.5x3x3	.063	4.877	13	.003	0	z	10	43061.057	58320	3.954	2.549	1	H1-1b*
51	M116	LL2.5x2.5x3x3	.063	4.877	17	.004	4.877	z	2	43061.057	58320	3.954	2.549	1	H1-1b*
52	M108	LL2.5x2.5x3x3	.062	4.877	21	.003	4.877	z	6	43061.057	58320	3.954	2.549	1	H1-1b*
53	M82A	PIPE_3.0	.058	4.297	6	.050	4.818		8	28250.554	65205	5.749	5.749	2....	H1-1b
54	M91B	PIPE_3.0	.056	4.297	2	.050	4.818		4	28250.554	65205	5.749	5.749	2....	H1-1b
55	M95	PL1/2x6	.031	.112	12	.057	0	y	18	96757.507	97200	1.012	12.15	1....	H1-1b
56	M80	PL1/2x6	.030	.112	12	.108	0	y	24	96757.507	97200	1.012	12.15	2....	H1-1b
57	M90	PL1/2x6	.030	.112	8	.156	0	y	49	96757.507	97200	1.012	12.15	1....	H1-1b
58	M71	PL1/2x6	.030	0	8	.082	0	y	46	96757.507	97200	1.012	12.15	1....	H1-1b
59	M91	PL1/2x6	.030	.112	1	.056	0	y	14	96757.507	97200	1.012	12.15	1....	H1-1b
60	M66	PL1/2x6	.026	0	3	.106	0	y	20	96757.507	97200	1.012	12.15	1.4	H1-1b
61	OVP	PIPE_2.0	.020	1	2	.003	1		3	26521.424	32130	1.872	1.872	1....	H1-1b

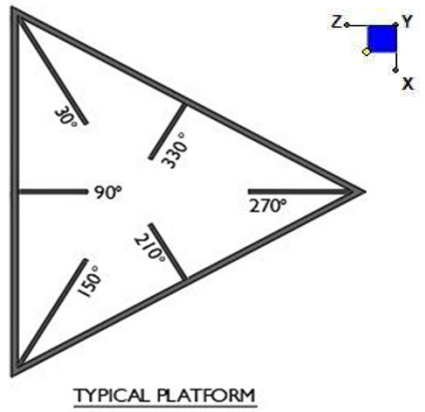
Client:	Verizon Wireless	Date:	10/19/2021
Site Name:	WASHINGTON NORTH CT		
Project No.	21777479A		
Title:	Mount Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

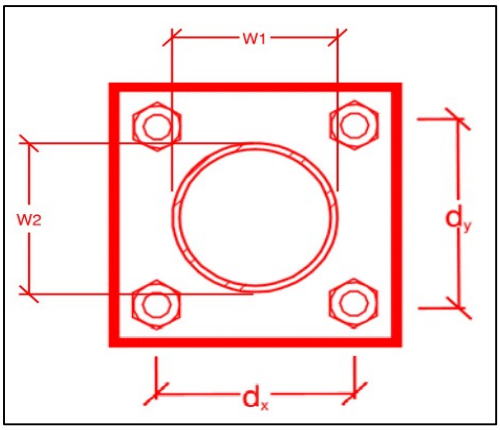
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N3	270
N87D	30
N115	150



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:	yes
Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)* :	6
d_y (in) *(Delta Y of typ. bolt config. sketch)* :	6
Bolt Type:	A325N
Bolt Diameter (in):	0.625
Required Tensile Strength (kips):	7.1
Required Shear Strength (kips):	3.4
Tensile Strength / bolt (kips):	20.7
Shear Strength / bolt (kips):	12.4
Tensile Capacity Overall:	**8.5%***
Shear Capacity Overall:	**6.7%**



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

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:	Rect
Plate Width (in):	8
Plate Height (in):	8
W1 (in):	4
W2 (in):	4
Fy (ksi, plate):	36
t_{Plate} (in):	0.75
Weld Size (1/16 in):	6
Phi*Rn (kip/in):	8.35
Required Weld Strength (kip/in):	0.85
Plate Bending Capacity:	**10.9%**
Weld Capacity:	**10.1%**

Max Plate Bending Strengths

Mu_{xx} *(kip-in)* :	0.7
$Phi*Mn_{xx}$ *(kip-in)* :	36.5
Mu_{yy} *(kip-in)* :	3.3
$Phi*Mn_{yy}$ *(kip-in)* :	36.5

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – New Mount Passing MA

Electronic pdf version of this can be downloaded at https://pmi.vzwsmart.com
For additional questions and support, please reach out to pmisupport@colliersengineering.com

---

Purpose – to provide SMART Tool structural vendor 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 installation was completed in accordance with this Passing Mount Analysis.
- Contractor shall relay any data that can impact the performance of the mount, this includes safety issues.

Base Requirements:

- If installation will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide "as built mount drawings" showing contractor's name, contact information, preparer's signature, and date. Any deviations from the drawings (Proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo should be time and date stamped.
- Photos should be high resolution.
- 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. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: ***https://pmi.vzwsmart.com***

Photo Requirements:

- *Photos taken at ground level*
  - Photo of Gate Signs showing the tower owner, site name, and number.
  - Overall tower structure after installation.
  - Photos of the mount after installation; if the mounts are at different rad elevations, pictures must be provided for all elevations that equipment was installed.
- *Photos taken at Mount Elevation*
  - Photos showing the safety climb wire rope above and below the mount prior to installation.
  - Photos showing the climbing facility and safety climb if present.
  - Photos showing each individual sector after installation of mounts. Each entire sector shall be in one photo to show the interconnection of members.

        - These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
    - Photos that show the model number of each antenna and piece of equipment installed per sector.
    - Photos of each installed mount; pictures shall also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
    - Photos showing the installed mount elevation.

Antenna & equipment placement and Geometry Confirmation:

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.

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

Issue:

Contractor is to remove existing mounts and replace with a new platform mount (Site Pro 1, Part #: RMQP-496-HK) installed per manufacturer specifications. Specifications that must be followed include: 46" spacing between mount pipes, mount pipes centered vertically on bottom face horizontal, kicker collar installed 30" below mount collar (measured center to center), and support rail installed 42" above bottom face horizontal (measured center to center). Contractor is to install a new OVP pipe (Part #: VZWSMART-P40-238-048) on the standoff arm between Beta and Gamma with a back to back crossover plate (Part #: VZWSMART-MSK6). OVP pipe tip is to be installed 36" above connection point. Contractor shall inspect climbing facilities and ensure that the safety climb is in good condition. Contractor shall install safety climb wire rope guide (Part #: VZWSMART-MSK10 or EOR approved equal) in locations where the wire rope is rubbing against mount to tower attachments. Contractor shall provide photos of safety climb wire rope guide installation.

Response:

Contractor certifies that the climbing facility / safety climb was not damaged or obstructed prior to starting work:

☐ Yes ☐ No

Contractor certifies no new damage/obstructions created during the current installation:

☐ Yes ☐ No

Contractor to certify the condition of the safety climb and verify no obstructions when leaving the site:

☐ Safety climb in good condition with no obstructions ☐ Safety Climb Damaged
☐ Safety Climb Obstructed

Comments:

New Mount Certification:

☐ The contractor certifies that the New Mount installed is as specified in the Passing Mount Analysis.
☐ The contractor notes that the New Mount installed is not as specified and engineering approval was received for the New Mount installed.

Antenna & equipment placement and Geometry Confirmation:

☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.

OR

☐ The contractor notes that the equipment on the mount is not in accordance with the sketch and has noted the differences below and provided photo documentation of any alterations.

Special Instruction Confirmation:

☐ The contractor has read and acknowledges the above special instructions.

Certifying Individual:

Company:	
Employee Name:	
Contact Phone:	
Email:	
Date:	

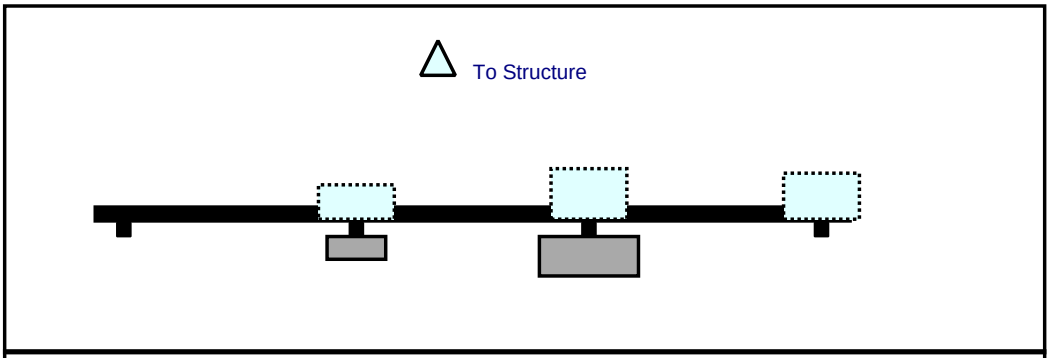
Structure: 467858-VZW - WASHINGTON NORTH CT

Sector: **A** 10/19/2021

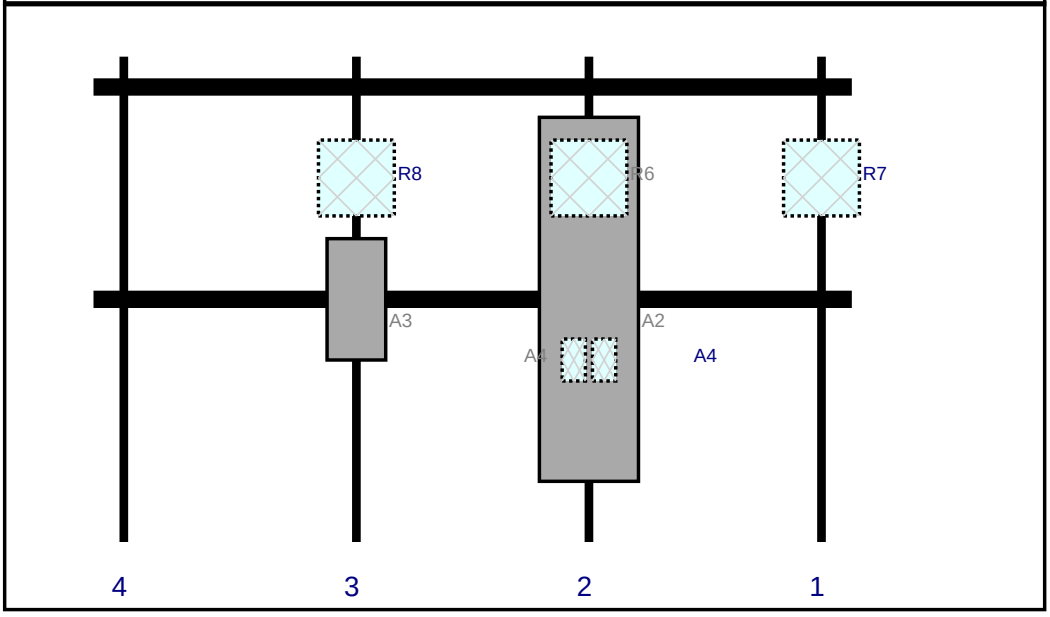
Structure Type: Self Support 10050465

Mount Elev: 157.00 Page: 1

Plan View



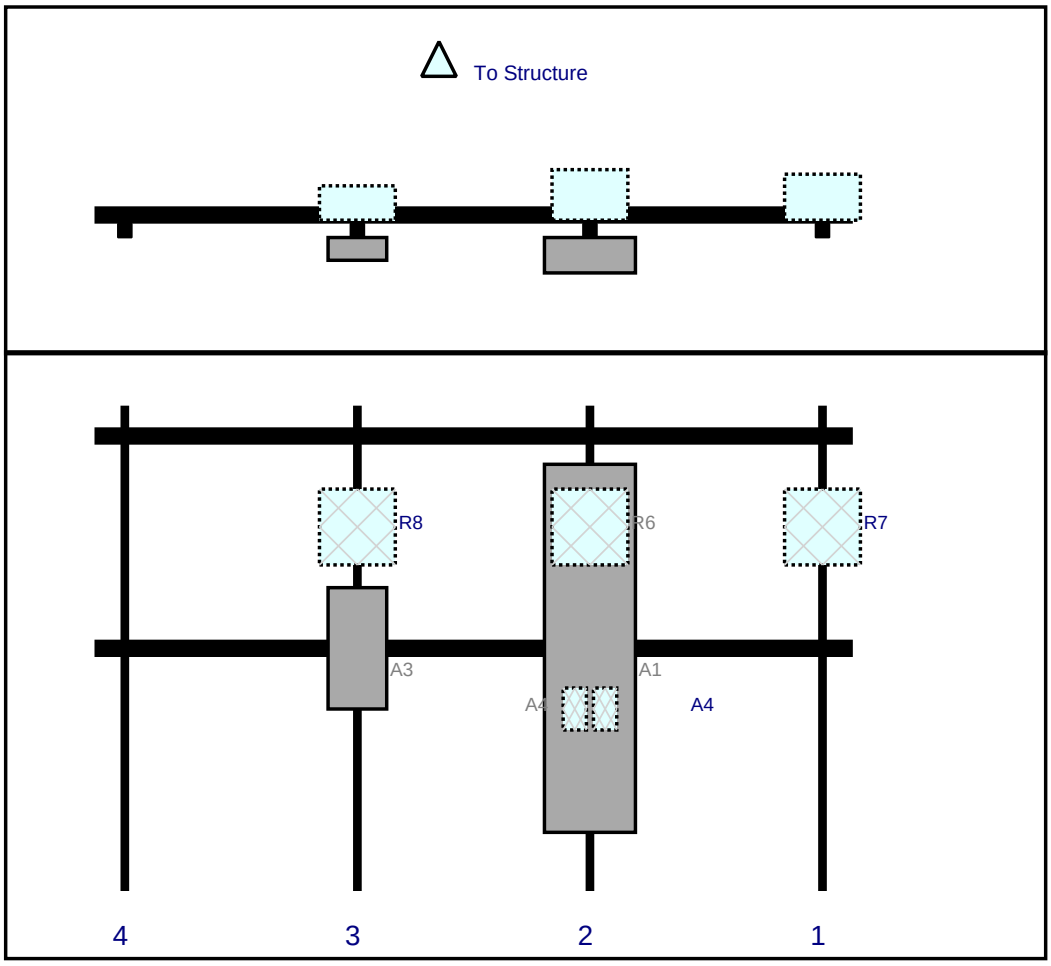
Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R7	RF4440d-13A	15	15	144	1	a	Behind	24	0	Added	
A2	NNH4-65B-R6H4	72	19.6	98	2	a	Front	48	0	Added	
A4	CBC61923T-DS-43	8.3	4.6	98	2	a	Behind	60	-3	Added	
A4	CBC61923T-DS-43	8.3	4.6	98	2	b	Behind	60	3	Added	
R6	RF4439d-25A	15	15	98	2	a	Behind	24	0	Added	
A3	MX08FIT265-01	24	11.6	52	3	a	Front	48	0	Added	
R8	RT-8808-77A	15	15	52	3	a	Behind	24	0	Added	

Plan View

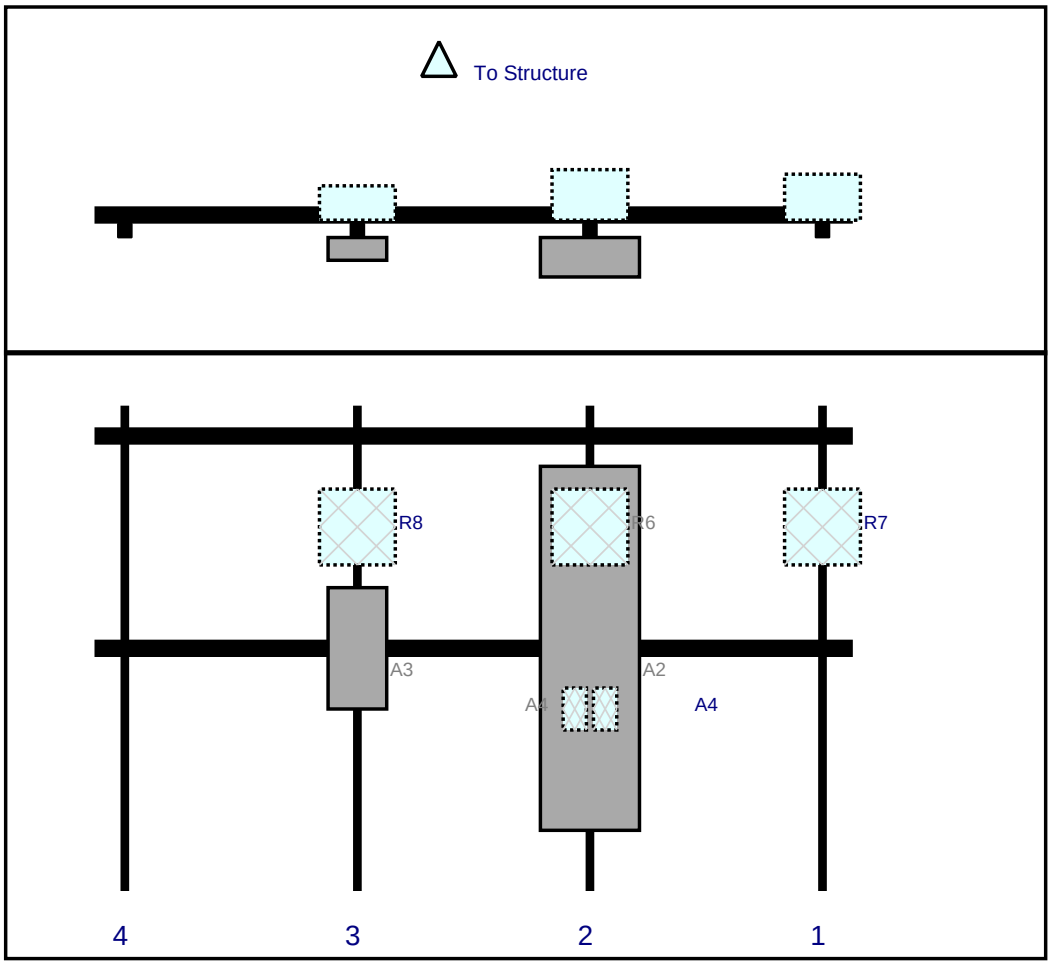
Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R7	RF4440d-13A	15	15	144	1	a	Behind	24	0	Added	
A1	NNH4-45B-R6-V1	72.8	18	98	2	a	Front	48	0	Added	
A4	CBC61923T-DS-43	8.3	4.6	98	2	a	Behind	60	3	Added	
A4	CBC61923T-DS-43	8.3	4.6	98	2	b	Behind	60	-3	Added	
R6	RF4439d-25A	15	15	98	2	a	Behind	24	0	Added	
A3	MX08FIT265-01	24	11.6	52	3	a	Front	48	0	Added	
R8	RT-8808-77A	15	15	52	3	a	Behind	24	0	Added	

Plan View

Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R7	RF4440d-13A	15	15	144	1	a	Behind	24	0	Added	
A2	NNH4-65B-R6H4	72	19.6	98	2	a	Front	48	0	Added	
A4	CBC61923T-DS-43	8.3	4.6	98	2	a	Behind	60	3	Added	
A4	CBC61923T-DS-43	8.3	4.6	98	2	b	Behind	60	-3	Added	
R6	RF4439d-25A	15	15	98	2	a	Behind	24	0	Added	
A3	MX08FIT265-01	24	11.6	52	3	a	Front	48	0	Added	
R8	RT-8808-77A	15	15	52	3	a	Behind	24	0	Added	

Maser Consulting Connecticut

Subject	*TIA-222-H Usage*	
Site Information	*Site ID:*	*467858-VZW / WASHINGTON NORTH CT*
	Site Name:	*WASHINGTON NORTH CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*16 Mountain Rd.* *New Preston Marble Dale, Connecticut 06777* *Litchfield County*
	Latitude:	*41.669147°*
	Longitude:	*-73.365281°*
Structure Information	*Tower Type:*	*Monopole*
	Mount Type:	*12.50-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. 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

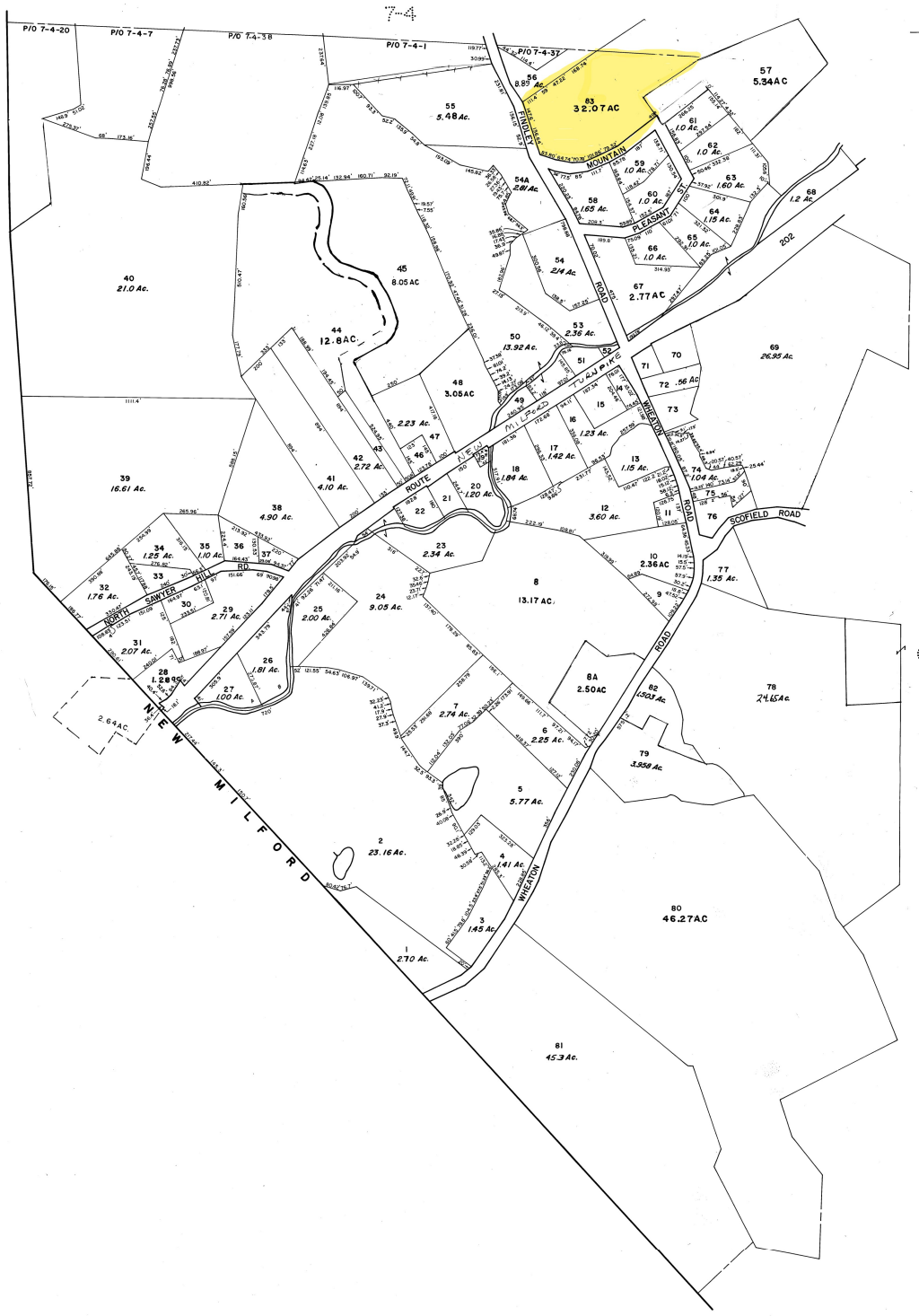
Site Name: ***WASHINGTON NORTH CT***
Cumulative Power Density

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	420	1678	157	0.0024	0.5007	0.49%
VZW CDMA	876.03	2	499	998	157	0.0015	0.5840	0.25%
VZW Cellular	874	4	507	2027	157	0.0030	0.5827	0.51%
VZW PCS	1980	4	1828	7312	157	0.0107	1.0000	1.07%
VZW AWS	2120	4	1920	7680	157	0.0112	1.0000	1.12%
VZW CBRS	3625	4	0	0	157	0.0000	1.0000	0.00%
VZW CBAND	3730.08	2	13335	26670	147	0.0444	1.0000	4.44%
Total Percentage of Maximum Permissible Exposure								7.87%

*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.



LEGEND

PARCEL NUMBERS 2
ADJACENT MAPS 7
MATCH LINE . . . . . —— ——

For Assessment Purposes
Not to be used for Conveyances

ASSESSORS MAP
TOWN OF WASHINGTON
LITCHFIELD COUNTY, CONNECTICUT
PREPARED BY
JAMES W. SEWALL COMPANY, OLD TOWN, MAINE
SCALE: 1 INCH = 200 ± FEET

7-2

The Assessor's office is responsible for the maintenance of records on the ownership of properties. Assessments are computed at 70% of the estimated market value of real property at the time of the last revaluation which was 2018.

Information on the Property Records for the Municipality of Washington was last updated on 3/8/2022.

Parcel Information

Location:	6 MOUNTAIN RD	Property Use:	Residential	Primary Use:	Residential
Unique ID:	2228	Map Block Lot:	07-02-83	Acres:	32.08
490 Acres:	29.08	Zone:	R-1	Volume / Page:	0240/1114
Developers Map / Lot:	1305/B/1075 (SubLot)	Census:			

Value Information

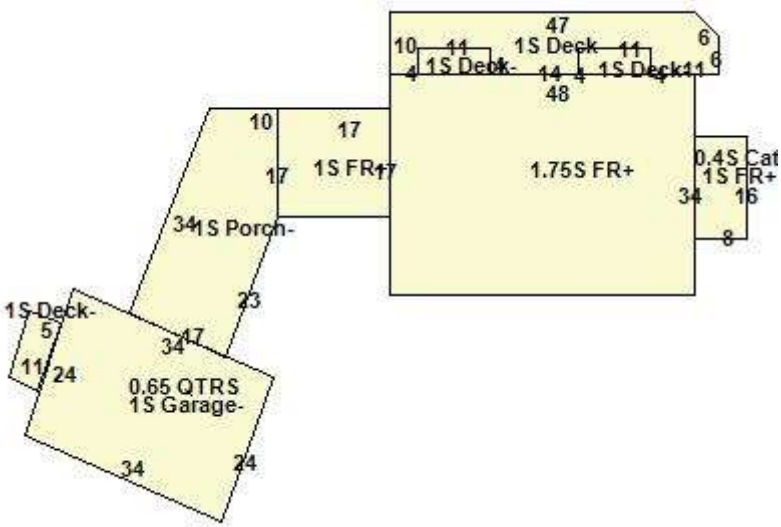
	Appraised Value	Assessed Value
Land	720,690	204,870
Buildings	568,480	397,940
Detached Outbuildings	16,961	11,870

	Appraised Value	Assessed Value
Total	1,306,131	614,680

Owner's Information

Owner's Data
UNDERWOOD H RAY + CAROL A TTES CAROL A UNDERWOOD REVOCABLE TRUST AGR... PO BOX 2427 NEW PRESTON, CT 06777

Building 1



Building Use:	Single Family	Style:	Cape	Living Area:	3,808
Stories:	1.75	Construction:	Wood Frame	Year Built:	1992
Total Rooms:	11	Bedrooms:	5	Full Baths:	4
Half Baths:	0	Fireplaces:	0	Heating:	FHA
Fuel:	Oil	Cooling Percent:	100%	Basement Area:	2,054
Basement Finished Area:	0	Basement Garages:	0	Roof Material:	Arch Shingles
Siding:	Clapboards	Units:	One with Accessory Apt.		

Special Features

Attached Components

Type:	Year Built:	Area:
Cathedral Ceiling	1992	51
Wood Deck	2000	411
Wood Deck	2000	44
Wood Deck	2000	45
Wood Deck	1992	59
Frame Garage	2000	810
Open Porch	2000	557

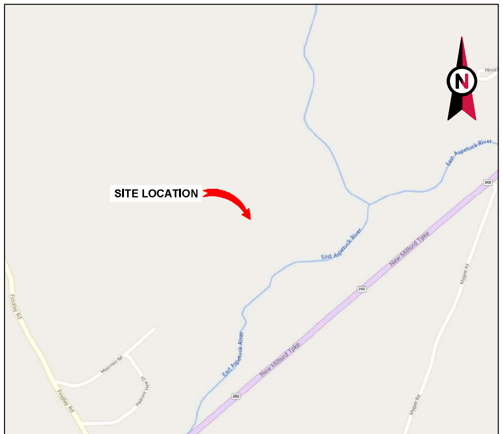
Detached Outbuildings

Type:	Year Built:	Area:
Fencing	2007	200
Generator	2007	1

Type:	Year Built:	Area:
Towers	2007	1
Utility Building	2007	240
Utility Building	2007	240

Owner History - Sales

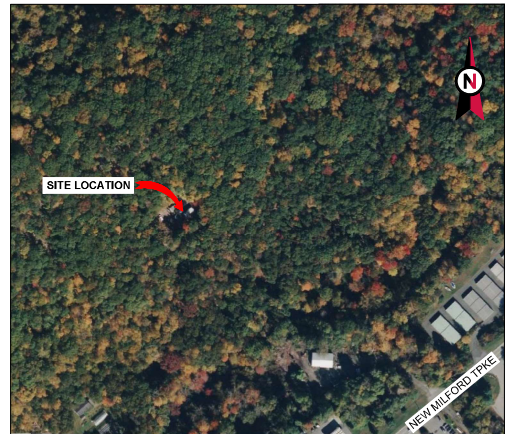
Owner Name	Volume	Page	Sale Date	Deed Type	Sale Price
UNDERWOOD H RAY + CAROL A TTES	0240	1114	06/06/2018	Quit Claim	$0
UNDERWOOD H RAY + CAROL A TTES	0240	1112	06/06/2018	Quit Claim	$0
UNDERWOOD H RAY + CAROL A	0000	0000	06/28/2017		$0



VICINITY MAP

AMERICAN TOWER®

ATC SITE NAME: WASHINGTON NORTH CT
ATC SITE NUMBER: 413782
VERIZON SITE NAME: WASHINGTON NORTH CT
VERIZON SITE NUMBER:467858
SITE ADDRESS: 6 MOUNTAIN ROAD
NEW PRESTON,CT 06777



LOCATION MAP

VERIZON
AMENDMENT DRAWINGS

COMPLIANCE CODE

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

1. CT STATE BUILDING CODE, INCORPORATING THE 2018 INTERNATIONAL BUILDING CODE
2. 2017 NATIONAL ELECTRIC CODE (NEC)
3. LOCAL BUILDING CODE
4. CITY/COUNTY ORDINANCES

UTILITY COMPANIES

POWER COMPANY: UNKNOWN
PHONE: N/A

TELEPHONE COMPANY: UNKNOWN
PHONE: N/A

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

CONTRACTOR PMI REQUIREMENTS

PMI LOCATION:	HTTPS://PMI.VZWSMART.COM
SMART TOOL VENDOR PROJECT #:	10050465
VZW LOCATION CODE (PSLC):	467858
ANALYSIS DATE:	01/06/22

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

HARDWARE UPGRADES REQUIRED	YES

VZW APPROVED SMART KIT VENDORS

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

PROJECT SUMMARY

SITE ADDRESS:

6 MOUNTAIN ROAD
NEW PRESTON,CT 06777
COUNTY: LITCHFIELD

GEOGRAPHIC COORDINATES:

LATITUDE: 41.66915484
LONGITUDE: -73.36530798
GROUND ELEVATION: 693' AMSL

PROJECT TEAM

TOWER OWNER:

AMERICAN TOWER
10 PRESIDENTIAL WAY
WOBURN, MA 01801

APPLICANT:

VERIZON WIRELESS

ENGINEER:

COLLIERS ENGINEERING
& DESIGN CT, P.C.
1055 WASHINGTON BLVD
STAMFORD, CT 06901

PROJECT #:
22904060A

PROPERTY OWNER:

CAROL A UNDERWOOD
6 MOUNTAIN ROAD
NEW PRESTON,CT 06777-1518

PROJECT DESCRIPTION

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

REMOVE (6) ANTENNA(s)

INSTALL (1) MOUNT MODIFICATION, (6) ANTENNA(s), (9) RRH(s), (3) DIPLEXER(s), (1) OVP(s) AND (1) HYBRID CABLE(s)

EXISTING (18) COAX CABLE(s) TO REMAIN

PROJECT NOTES

1. THE FACILITY IS UNMANNED.
2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.
3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.
4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.
5. HANDICAP ACCESS IS NOT REQUIRED.
6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).

PROJECT LOCATION DIRECTIONS

HEAD EAST ON I-84 E, USE THE LEFT LANE TO TAKE EXIT 7 FOR US 7 N/US 202 E TOWARD BROOKFIELD/NEW MILFORD, CONTINUE ONTO US-202 E/US-7 N CONTINUE TO FOLLOW US-7 N, CONTINUE ONTO US-202 E, TAKE GROVE ST TO EAST ST, TURN RIGHT ONTO STILL RIVER DR, STILL RIVER DR TURNS SLIGHTLY LEFT AND BECOMES GROVE ST/LOWER GROVE ST, CONTINUE TO FOLLOW GROVE ST, TAKE US-202 E TO FINDLAY RD IN WASHINGTON, CONTINUE ONTO EAST ST, CONTINUE ONTO POPLAR ST, CONTINUE ONTO US-202 E/PARK LANE RD, CONTINUE TO FOLLOW US-202 E, CONTINUE ON FINDLAY RD. DRIVE TO MOUNTAIN RD, TURN LEFT ONTO FINDLAY RD, TURN RIGHT ONTO MOUNTAIN RD

SHEET INDEX

AMERICAN TOWER®

Colliers Engineering & Design
www.colliersengineering.com
Doing Business as MASER CONSULTING
STAMFORD
1055 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JLK	01/27/22
0	FOR CONSTRUCTION	AMN	02/24/22

ATC SITE NUMBER:
413782

ATC SITE NAME:
WASHINGTON NORTH CT

VERIZON SITE NAME:
WASHINGTON NORTH CT

SITE ADDRESS:
6 MOUNTAIN ROAD
NEW PRESTON,CT 06777

SEAL:

STATE OF CONNECTICUT
31965
LICENSED PROFESSIONAL ENGINEER

Digitally signed by Justin Peter Linette
Date: 2022.02.28 12:43:23-04'00'

verizon

DATE DRAWN:	01/27/22
ATC JOB NO:	13734077_D1
CUSTOMER ID:	WASHINGTON NORTH CT
CUSTOMER #:	467858

TITLE SHEET

SHEET NUMBER:	REVISION:
G-001	0

GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, VERIZON "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
   - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
   - B. AC/TELCO INTERFACE BOX (PPC)
   - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
   - D. TOWERS, MONOPOLES
   - E. TOWER LIGHTING
   - F. GENERATORS & LIQUID PROPANE TANK
   - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
   - H. ANTENNAS (INSTALLED BY OTHERS)
   - I. TRANSMISSION LINE
   - J. TRANSMISSION LINE JUMPERS
   - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
   - L. TRANSMISSION LINE GROUND KITS
   - M. HANGERS
   - N. HOISTING GRIPS
   - O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF VERIZON TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE VERIZON REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH VERIZON AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.
22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
27. CONTRACTOR SHALL NOTIFY VERIZON REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
29. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE VERIZON REP. ANY WORK FOUND BY THE VERIZON REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
32. VERIZON FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE VERIZON WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
33. VERIZON OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO VERIZON OR THEIR ARCHITECT/ENGINEER.

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

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

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

AMERICAN TOWER®

Colliers Engineering & Design
www.colliersengineering.com
Doing Business as MASER CONSULTING
STAMFORD
1055 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JLK	01/27/22
0	FOR CONSTRUCTION	AMN	02/24/22

ATC SITE NUMBER:
413782

ATC SITE NAME:
WASHINGTON NORTH CT

VERIZON SITE NAME:
WASHINGTON NORTH CT

SITE ADDRESS:
6 MOUNTAIN ROAD
NEW PRESTON,CT 06777

SEAL:

Digitally signed by Justin Peter Linette
Date: 2022.02.28 12:43:27-04'00'

verizon✓

DATE DRAWN:	01/27/22
ATC JOB NO:	13734077_D1
CUSTOMER ID:	WASHINGTON NORTH CT
CUSTOMER #:	467858

GENERAL NOTES

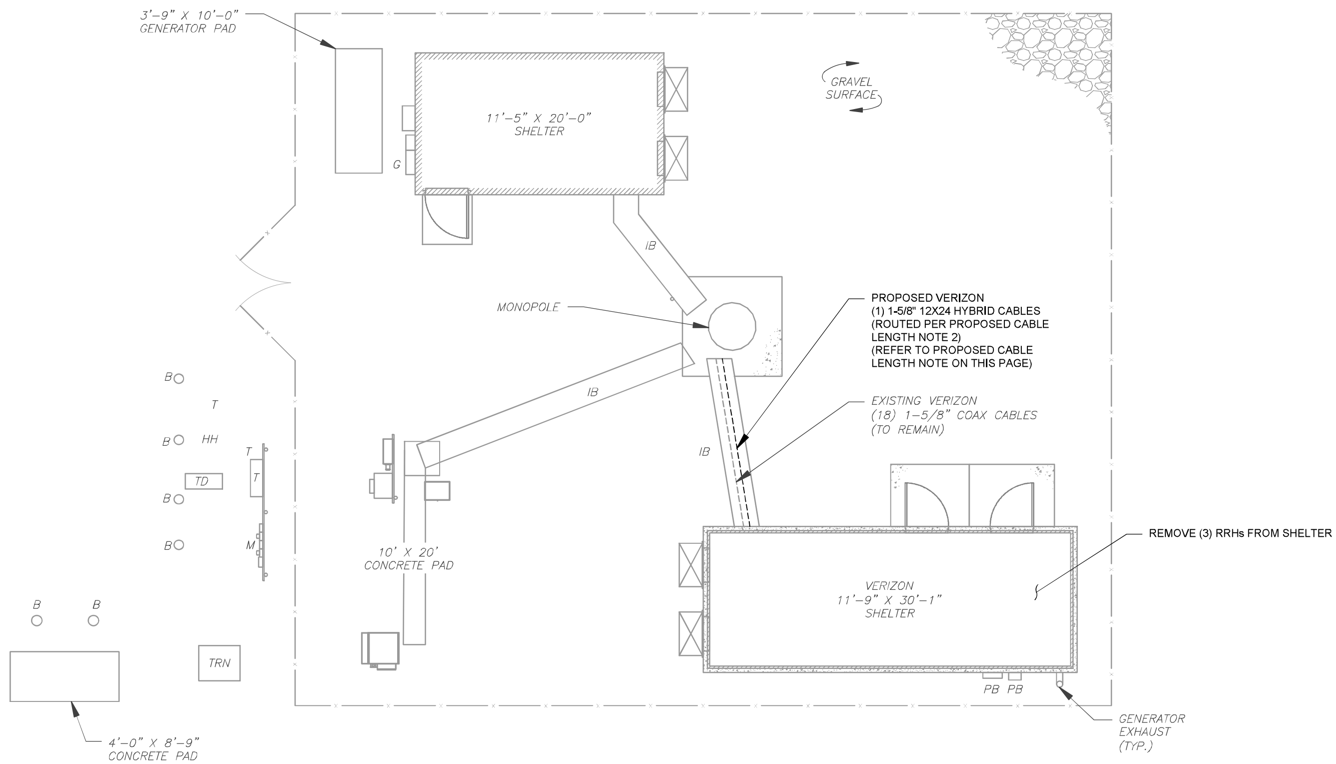
SHEET NUMBER:	REVISION:
G-002	0

SITE PLAN NOTES:

1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
3. THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.

LEGEND

⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACLE
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
— · —	CHAINLINK FENCE



PROPOSED CABLE LENGTH:

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **200'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.

1 DETAILED SITE PLAN

GRAPHIC SCALE

10 0 5 10

(IN FEET)
1 UNIT = 10 FEET

AMERICAN TOWER®

Colliers Engineering & Design

www.colliersengineering.com
Doing Business as MASER CONSULTING

STAMFORD
1055 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800

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

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JLK	01/27/22
0	FOR CONSTRUCTION	AMN	02/24/22

ATC SITE NUMBER:
413782

ATC SITE NAME:
WASHINGTON NORTH CT

VERIZON SITE NAME:
WASHINGTON NORTH CT

SITE ADDRESS:
6 MOUNTAIN ROAD
NEW PRESTON,CT 06777

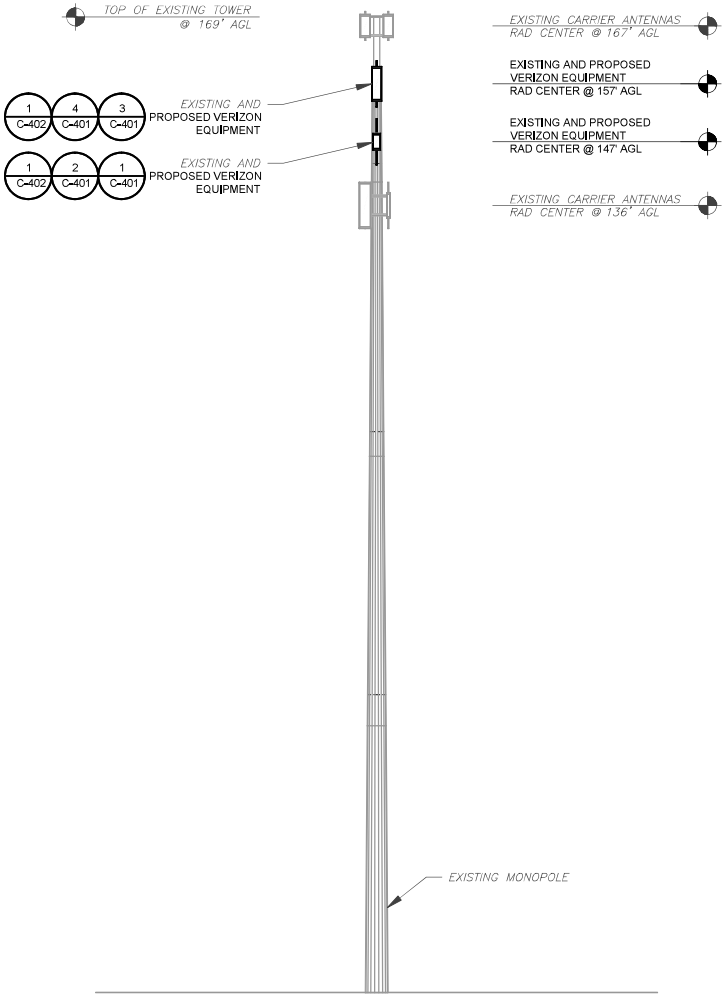
SEAL:

verizon

DATE DRAWN:	01/27/22
ATC JOB NO:	13734077_D1
CUSTOMER ID:	WASHINGTON NORTH CT
CUSTOMER #:	467858

DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0



1 TOWER ELEVATION
SCALE: N.T.S.

NOTES:
1. PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING CONNECTICUT, DATED 01/06/22, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.
2. POST MODIFICATION (PMI) REQUIRED ON ALL SITES. REFER TO MOUNT ANALYSIS REFERENCED IN STRUCTURAL NOTE 1 FOR ADDITIONAL DETAILS.

TOWER NOTE:
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
2. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
3. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
4. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)
5. TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.

AMERICAN TOWER®

Colliers Engineering & Design
www.colliersengineering.com
Doing Business as MASER
STAMFORD
1055 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JLK	01/27/22
B	FOR CONSTRUCTION	AMN	02/24/22
C			
D			
E			

ATC SITE NUMBER:
413782

ATC SITE NAME:
WASHINGTON NORTH CT

VERIZON SITE NAME:
WASHINGTON NORTH CT

SITE ADDRESS:
6 MOUNTAIN ROAD
NEW PRESTON,CT 06777

SEAL:

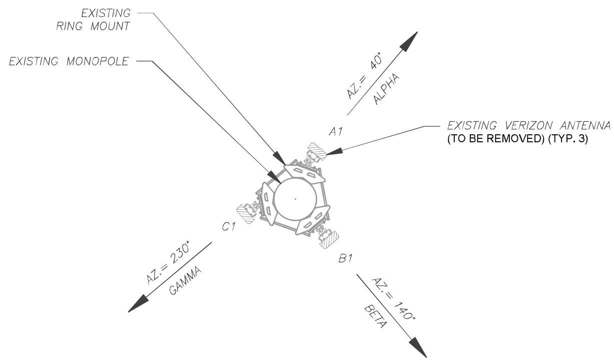
Digitally signed by Justin Peter Linette
Date: 2022.02.28 12:43:27-04'00'

verizon

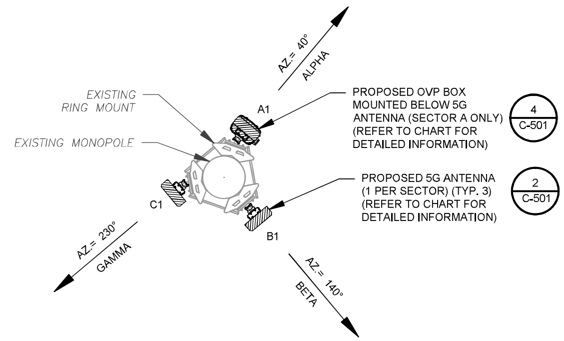
DATE DRAWN:	01/27/22
ATC JOB NO:	13734077_D1
CUSTOMER ID:	WASHINGTON NORTH CT
CUSTOMER #:	467858

TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	0

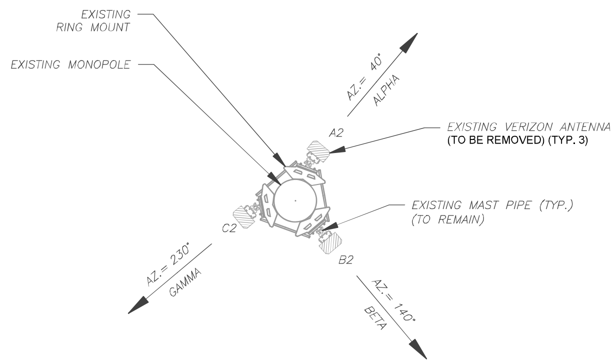


1 EXISTING ANTENNA PLAN - 147'
SCALE: N.T.S.

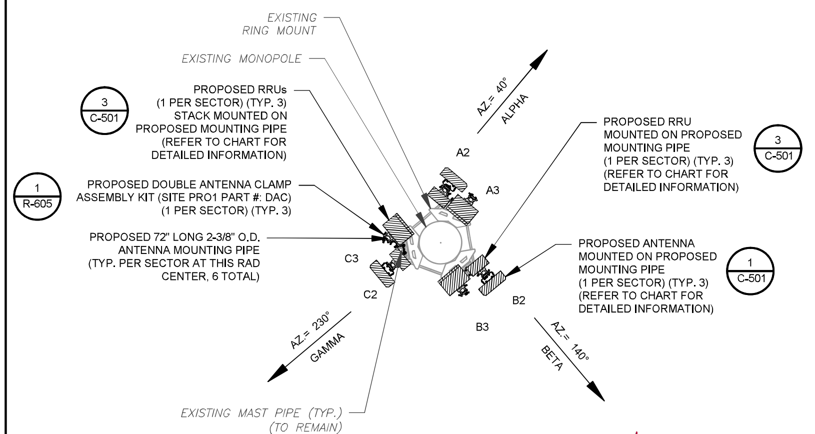


2 FINAL ANTENNA PLAN - 147'
SCALE: N.T.S.

NOTES:
1. PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING CONNECTICUT, DATED 01/06/22, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.
2. POST MODIFICATION (PMI) REQUIRED ON ALL SITES. REFER TO MOUNT ANALYSIS REFERENCED IN STRUCTURAL NOTE 1 FOR ADDITIONAL DETAILS.



3 EXISTING ANTENNA PLAN - 157'
SCALE: N.T.S.



4 FINAL ANTENNA PLAN - 157'
SCALE: N.T.S.

AMERICAN TOWER®

Colliers Engineering & Design
www.colliersengineering.com
Doing Business as MASER
STAMFORD
1055 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JLK	01/27/22
0	FOR CONSTRUCTION	AMN	02/24/22

ATC SITE NUMBER:
413782

ATC SITE NAME:
WASHINGTON NORTH CT

VERIZON SITE NAME:
WASHINGTON NORTH CT

SITE ADDRESS:
6 MOUNTAIN ROAD
NEW PRESTON,CT 06777

SEAL:

Digitally signed by Justin Peter Linette
Date: 2022.02.28 12:43:27-04'00'

verizon

DATE DRAWN:	01/27/22
ATC JOB NO:	13734077_D1
CUSTOMER ID:	WASHINGTON NORTH CT
CUSTOMER #:	467858

ANTENNA LAYOUTS

SHEET NUMBER: C-401
REVISION: 0

EXISTING ANTENNA SCHEDULE									
LOCATION			ANTENNA SUMMARY					NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	147' 157'	40°	A1	BXA-70063/6CF __ 2°	LTE 700	0/2	RMV	–	–
			A2	DBXNH-6565A-VTM	CDMA 850	0/4	RMV	–	–
BETA	147' 157'	140°	B1	BXA-70063/6CF __ 2°	LTE 700	0/2	RMV	–	–
			B2	DBXNH-6565A-VTM	CDMA 850	0/4	RMV	–	–
GAMMA	147' 157'	230°	C1	BXA-70063/6CF __ 2°	LTE 700	0/2	RMV	–	–
			C2	DBXNH-6565A-VTM	CDMA 850	0/4	RMV	–	–

NOTES

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

STATUS ABBREVIATIONS

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

CABLE LENGTHS FOR JUMPERS

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

FINAL ANTENNA SCHEDULE									
LOCATION			ANTENNA SUMMARY					NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	147' 157' 157'	40°	A1	MT6407-77A	5 L-SUB6	0/6	ADD	-	-
			A2	NNH4-65B-R6H4	LTE 700/1900/AWS 5G/LTE/CDMA 850	0/2	ADD	TD-850AB-L78-43	ADD
			A3	-	-	-	-	RF4440D-13A RF4439D-25A	ADD ADD
BETA	147' 157' 157'	140°	B1	MT6407-77A	5 L-SUB6	0/6	ADD	-	-
			B2	NNH4-45B-R6-V1	LTE 700/1900/AWS 5G/LTE/CDMA 850	0/2	ADD	TD-850AB-L78-43	ADD
			B3	-	-	-	-	RF4440D-13A RF4439D-25A	ADD ADD
GAMMA	147' 157' 157'	230°	C1	MT6407-77A	5 L-SUB6	0/6	ADD	-	-
			C2	NNH4-65B-R6H4	LTE 700/1900/AWS 5G/LTE/CDMA 850	0/2	ADD	TD-850AB-L78-43	ADD
			C3	-	-	-	-	RF4440D-13A RF4439D-25A	ADD ADD

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
–	–	(18) 1-5/8"	----	RMN

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

1 EQUIPMENT SCHEDULES

AMERICAN TOWER®

Colliers Engineering & Design
www.colliersengineering.com
Doing Business as MASER CONSULTING
STAMFORD
1055 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JLK	01/27/22
0	FOR CONSTRUCTION	AMN	02/24/22

ATC SITE NUMBER:
413782

ATC SITE NAME:
WASHINGTON NORTH CT

VERIZON SITE NAME:
WASHINGTON NORTH CT

SITE ADDRESS:
6 MOUNTAIN ROAD
NEW PRESTON,CT 06777

SEAL:

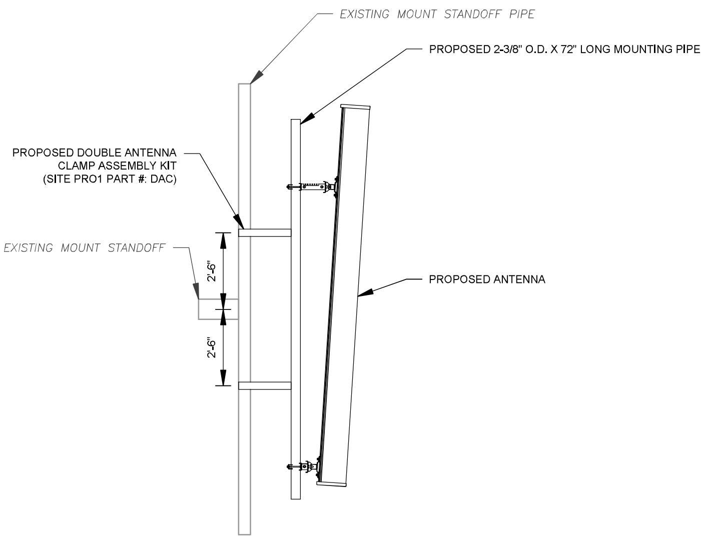
Digitally signed by Justin Peter Linette
Date: 2022.02.28 12:43:28-04'00'

verizon

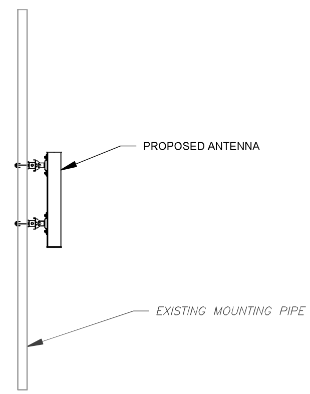
DATE DRAWN:	01/27/22
ATC JOB NO:	13734077_D1
CUSTOMER ID:	WASHINGTON NORTH CT
CUSTOMER #:	467858

ANTENNA SCHEDULE

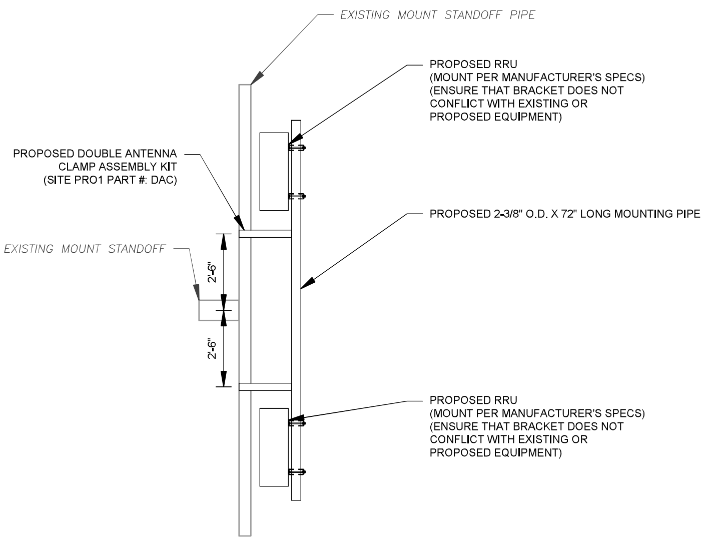
SHEET NUMBER:	REVISION:
C-402	0



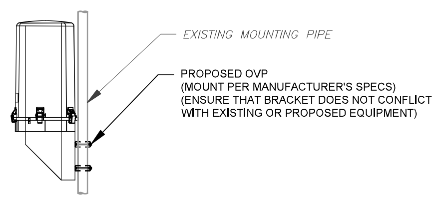
1 PROPOSED ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



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



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



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

AMERICAN TOWER®

Colliers Engineering & Design
www.colliersengineering.com
Doing Business as MASER CONSULTING
STAMFORD
1055 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JLK	01/27/22
0	FOR CONSTRUCTION	AMN	02/24/22

ATC SITE NUMBER:
413782

ATC SITE NAME:
WASHINGTON NORTH CT

VERIZON SITE NAME:
WASHINGTON NORTH CT

SITE ADDRESS:
6 MOUNTAIN ROAD
NEW PRESTON,CT 06777

SEAL:

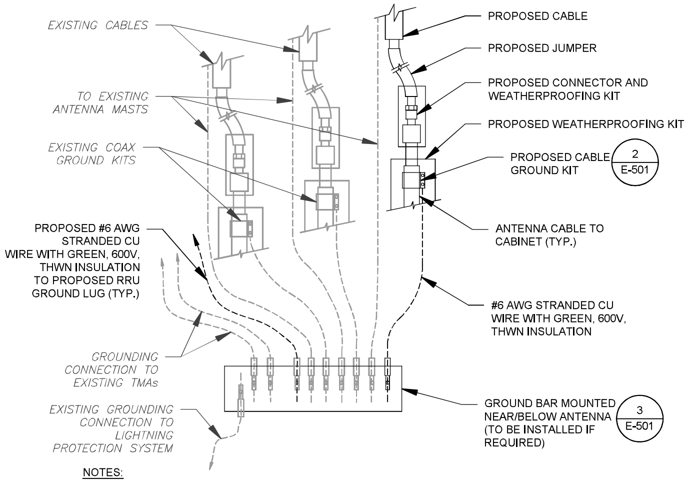
Digitally signed by Justin Peter Linette
Date: 2022.02.28 12:43:28-04'00'

verizon

DATE DRAWN:	01/27/22
ATC JOB NO:	13734077_D1
CUSTOMER ID:	WASHINGTON NORTH CT
CUSTOMER #:	467858

CONSTRUCTION DETAILS

SHEET NUMBER:	REVISION:
C-501	0

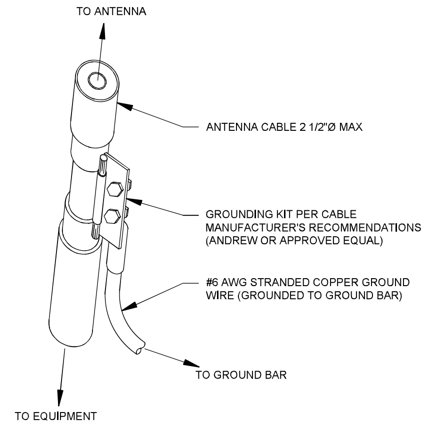


NOTES:

1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH VERIZON GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

1 TYPICAL ANTENNA GROUNDING DIAGRAM

SCALE: N.T.S.

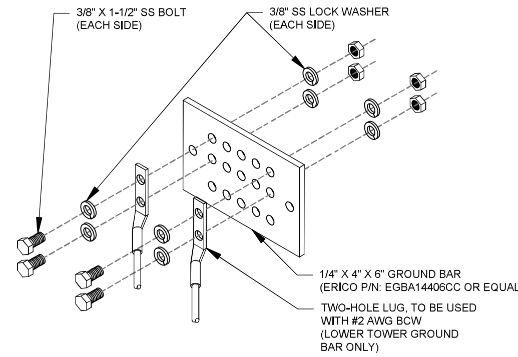


GROUND KIT NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

2 CABLE GROUND KIT CONNECTION DETAIL

SCALE: N.T.S.



GROUND BAR NOTES:

1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

3 TOWER GROUND BAR DETAIL

SCALE: N.T.S.

AMERICAN TOWER®

Colliers Engineering & Design
www.colliersengineering.com
Doing Business as MASER
STAMFORD
1055 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JLK	01/27/22
0	FOR CONSTRUCTION	AMN	02/24/22

ATC SITE NUMBER:
413782

ATC SITE NAME:
WASHINGTON NORTH CT

VERIZON SITE NAME:
WASHINGTON NORTH CT

SITE ADDRESS:
6 MOUNTAIN ROAD
NEW PRESTON,CT 06777

SEAL:

verizon✓

DATE DRAWN:	01/27/22
ATC JOB NO:	13734077_D1
CUSTOMER ID:	WASHINGTON NORTH CT
CUSTOMER #:	467858

GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0

Antenna Summary

Added

700	850	1900	AWS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
LTE	CDMA LTE 5G	LTE	LTE		COMMSCOPE	NNH4-45B-R6-V1	157	160	140(0014) 140(02) 140(D2)	false	false	PHYSICAL	1	NNH4-45B-R6-V1
LTE	CDMA LTE 5G	LTE	LTE		COMMSCOPE	NNH4-65B-R6H4	157	160	40(0013) 40(01) 40(D1) 230(0015) 230(03) 230(D3)	false	false	PHYSICAL	2	
				5G	Samsung	MT6407-77A	147	148.5	40(0013) 140(0014) 230(0015)	false	false	PHYSICAL	3	

Removed

700	850	1900	AWS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
LTE					AMPHENOL	BXA 70063 6CF	147	150	40(01) 140(02) 230(03)	false	false	PHYSICAL	3	
	CDMA				ANDREW	DBXNH-6565A-VTM	157	159.1	40(D1) 140(D2) 230(D3)	false	false	PHYSICAL	3	

Retained

700	850	1900	AWS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID

No data available.

Added: 6 | Removed: 6 | Retained: 0

Equipment Summary

Added

Equipment Type	Location	700	850	1900	AWS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
Combiner	Tower						Commscope	TD-850AB-L78-43			PHYSICAL	3	
OVP Box	Tower						RFS	12 OVP			PHYSICAL	1	
Hybrid Cable	Tower						RFS	12x24 Hybriflex			PHYSICAL	1	
RRU	Tower			LTE	LTE		Samsung	B2/B66A RRH ORAN (RF4439d-25A)			PHYSICAL	3	
RRU	Tower	LTE	LTE 5G				Samsung	B5/B13 RRH ORAN (RF4440d-13A)			PHYSICAL	6	
RRU	Tower					5G	Samsung	MT6407-77A			PHYSICAL	3	

Removed

Equipment Type	Location	700	850	1900	AWS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
RRU	Shelter	LTE					Nokia	UHBA B13 RRH 4x30			PHYSICAL	3	

Retained

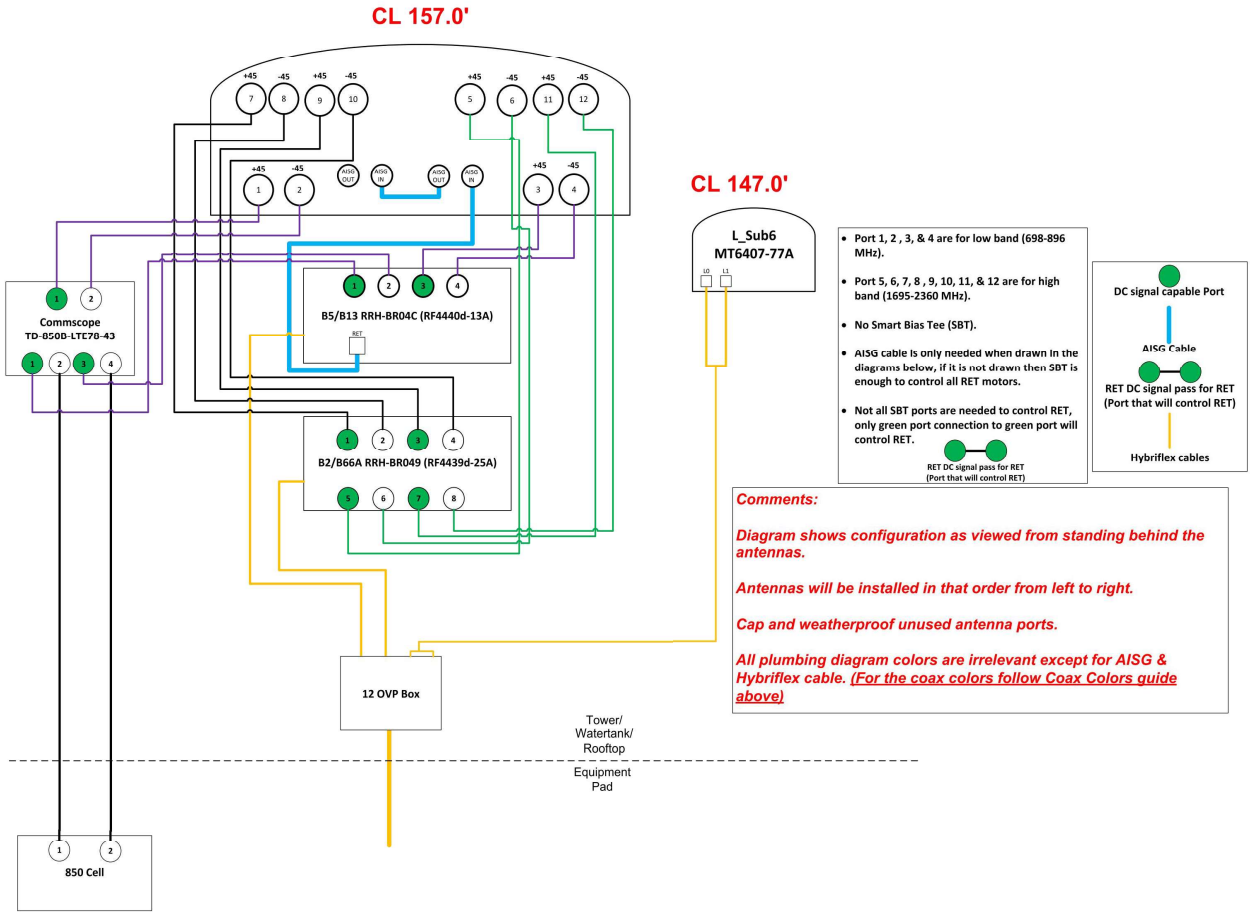
Equipment Type	Location	700	850	1900	AWS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
Coaxial Cables	Tower						N/A	1-5/8" Coax			PHYSICAL	6	

SUPPLEMENTAL

SHEET NUMBER: R-601

REVISION: -

NNH4-65B/45B-R6H4-V1



- Port 1, 2 , 3, & 4 are for low band (698-896 MHz).
- Port 5, 6, 7, 8 , 9, 10, 11, & 12 are for high band (1695-2360 MHz).
- No Smart Bias Tee (SBT).
- AISG cable is only needed when drawn in the diagrams below, if it is not drawn then SBT is enough to control all RET motors.
- Not all SBT ports are needed to control RET, only green port connection to green port will control RET.

RET DC signal pass for RET
(Port that will control RET)

DC signal capable Port

AISG Cable

RET DC signal pass for RET
(Port that will control RET)

Hybriflex cables

Comments:

Diagram shows configuration as viewed from standing behind the antennas.

Antennas will be installed in that order from left to right.

Cap and weatherproof unused antenna ports.

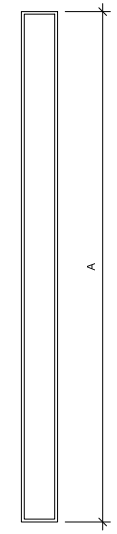
All plumbing diagram colors are irrelevant except for AISG & Hybriflex cable. (For the coax colors follow Coax Colors guide above)

1 ANTENNA CONFIGURATION

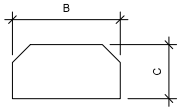
NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-602	-



FRONT VIEW

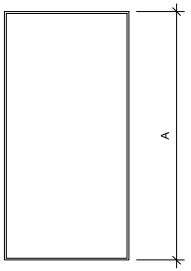


TOP VIEW

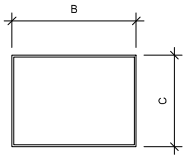
1 ANTENNA SPECIFICATIONS

FOR ILLUSTRATIVE PURPOSES ONLY - N.T.S.

ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
NNH4-45B-R6-V1	72.8"	18.0"	7.0"	80.2
NNH4-65B-R6H4	72.0"	19.6"	7.8"	83.3
MT6407-77A	35.1"	16.1"	5.5"	81.6



FRONT VIEW



TOP VIEW

2 RRU SPECIFICATIONS

FOR ILLUSTRATIVE PURPOSES ONLY - N.T.S.

RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
RF4439D-25A	20.0"	15.0"	10.4"	74.7
RF4440D-13A	15.0"	15.0"	9.1"	70.3

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-603	-

verizon

MASER CONSULTING — CONNECTICUT —

Maser Consulting Connecticut
2000 Midlantic Drive, Suite 100
Mt. Laurel NJ 08054
866.767.0412
peter.albano@colliersengineering.com

Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements

Mount Analysis

SMART Tool Project #: 19050466
Maser Consulting Connecticut Project # 21777479A

January 6, 2022

Site Information	*Site ID:*	*467858-VZW / WASHINGTON NORTH CT*
	Site Name:	*WASHINGTON NORTH CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*16 Mountain Road* *New Preston Marble Dale, Connecticut 06777* *Litchfield County*
	Latitude:	*41.66914°*
	Longitude:	*-73.365231°*
Structure Information	*Tower Type:*	*Monopole*
	Mount Type:	*(6) 8.5-Ft Pipe Mounts*

FUZE ID # 16272058

Analysis Results

Pipe Mount: 77.6% **Pass w/ Hardware Upgrades***

*** Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.**

******Contractor PMI Requirements:***
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Jared Adkins

STATE OF CONNECTICUT — PETER T. ALBANO — No. 31965 — LICENSED PROFESSIONAL ENGINEER

Digitally signed by Justin Livello
Date: 2022.01.06 14:35:25-05'00'

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
157.00	157.00	1	Commscope	NNH4-45B-R6-V1	Added
		2	Commscope	NNH4-65B-R6H4	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4440d-13A	
		3	Commscope	TD-85OB-LTE78-43	
147.00	147.00	3	Samsung	MT6407-77A	
		1	Raycap	RVZDC-6627-PF-48	

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

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

Standard Conditions:

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

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

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, 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.

Requirements:

The existing mounts will be **SUFFICIENT** for the final loading configuration shown in attachment 2 upon the completion of the requirements listed below.

Contractor is to install (1) antenna clamp assembly (Site Pre 1 Part #: DAC) per sector at the 157' mounting level. Dual antenna clamps are to be installed 30" above and below the existing mount standoff. Contractor is to install (2) 72" Long P2 STD mount pipes in each sector with a tip height of 6" above the top DAC connection.

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

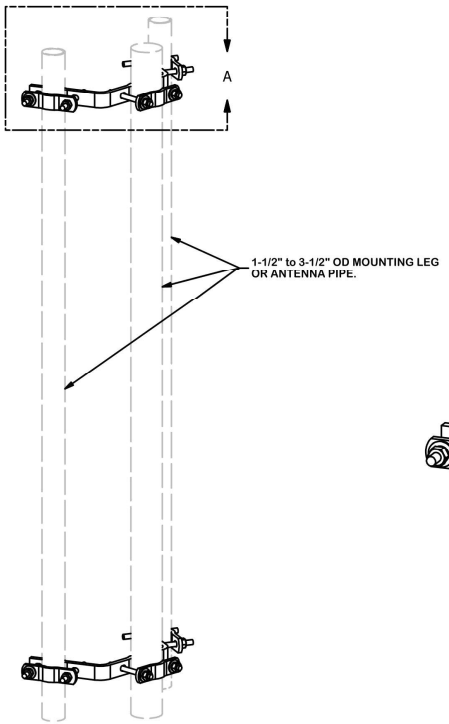
NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERIFY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

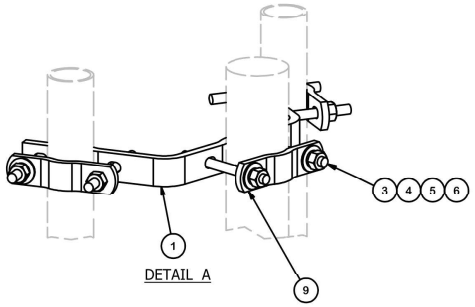
1 MOUNT ANALYSIS

SUPPLEMENTAL

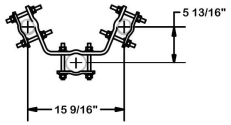
SHEET NUMBER:	REVISION:
R-604	-

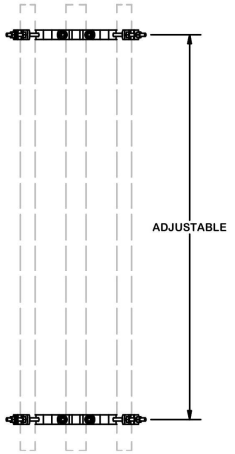
PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	X-DAC	DOUBLE ANTENNA MOUNT		5.36	10.72
3	12	G12R-6	1/2" x 6" GALV. THREADED ROD		0.33	4.01
4	24	G12FW	1/2" HDG USS FLATWASHER		0.03	0.82
5	24	G12LW	1/2" HDG LOCKWASHER		0.01	0.33
6	24	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	1.72
9	6	X-100064	CLAMP (S) (4" V-CLAMP) GALVANIZED		0.91	5.48
					TOTAL WT. #	24.75





DETAIL A





REVISION HISTORY				
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	REVISED X-DAC DESIGN	4725	RH18	9/23/2010

TOLERANCE NOTES

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")*

DESCRIPTION: DOUBLE ANTENNA CLAMP ASSEMBLY

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
4725	RH18 4/1/2010		DAC

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	01	CUSTOMER	BMC 8/15/2013	DAC

PAGE 1 OF 1

SITE PRO 1
A valmont COMPANY
Engineering Support Team: 1-888-703-7446
Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-605	-