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

January 18, 2022

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

RE: Notice of Exempt Modification // Site: STAMFORD / CATOONA (ATC: 88018)
168 Catoona Lane, Stamford, CT 06902
N 41.05282 // W 73.56304

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless currently maintains 12 antennas at the 92-ft level on the existing 300-foot SST tower, located at 168 Catoona Lane, Stamford, CT. The tower is owned by American Tower. The property owner is also American Tower Inc. Verizon Wireless now intends to remove 12 antennas and install 12 new ones for the LTE (3700 MHz) replacements for its 5G upgrade. Additionally, Verizon Wireless will remove 9 Remote Radio Heads (RRHs) and replace them with 9 new ones; 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 David Martin, Mayor of Stamford, James Lunney III, Chief Zoning Enforcement Officer, and American Tower, the tower owner and the property owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Enclosed to accommodate this filing are construction drawings dated July 29, 2021, by Dewberry Engineers, INC., a structural analysis dated July 2, 2021, by A. T. Engineering Service, PLLC., and a structural mount analysis by Maser Consulting Connecticut dated June 11, 2021, and radio frequency (RF) analysis table showing worst-case RF emission calculation by Verizon Wireless RF Design Engineering.

1. The proposed modifications will not result in an increase in the height of the existing structure.

2. The proposed modifications will not require the extension of the site boundary.

3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

4. The operation of the new antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. The existing structure and its foundation can support the proposed loading, as shown in the attached structural analysis by A. T. Engineering Service, PLLC., dated July 2,, 2021, and a structural mount analysis by Maser Consulting Connecticut, dated June 11, 2021, pursuant to certain conditions defined therein. Design and engineering are fully illustrated within final construction drawings, signed, and stamped dated July 29, 2021.

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

Sincerely,

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: David Martin, Mayor of Stamford - as chief elected official
James Lunney III, Chief Zoning Enforcement Officer - as P&Z official
American Tower Corporation – as the tower owner and the 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.

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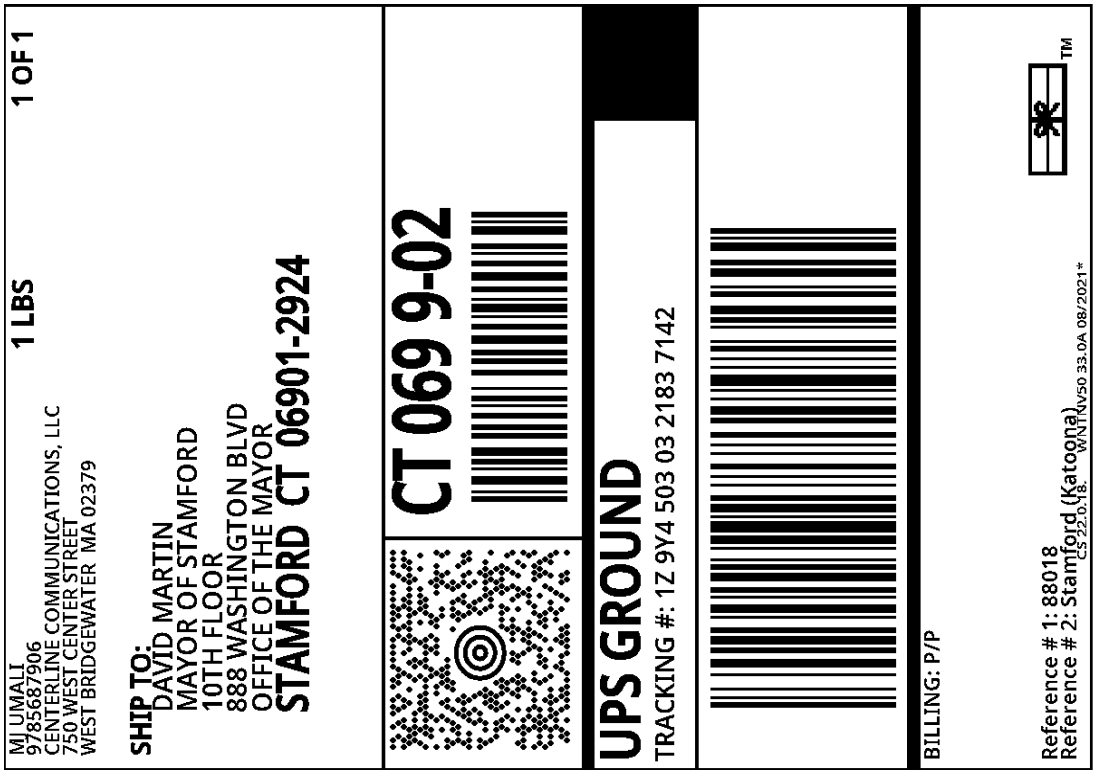
TOWN LINE GENERAL STORE
450 E CENTER ST
WEST BRIDGEWATER ,MA 02379

FOLD HERE



Proof of Delivery

Dear Customer,

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

Tracking Number
1Z9Y45030321837142

Weight
1.00 LBS

Service

UPS Ground

Shipped / Billed On
08/16/2021

Delivered On

11/03/2021 11:22 A.M.

Delivered To
STAMFORD, CT, US

Received By

GUTEIRREZ

Left At
Mail Room

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

Sincerely,

UPS

Tracking results provided by UPS: 01/18/2022 11:08 A.M. EST

UPS CampusShip: View/Print Label

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

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   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.
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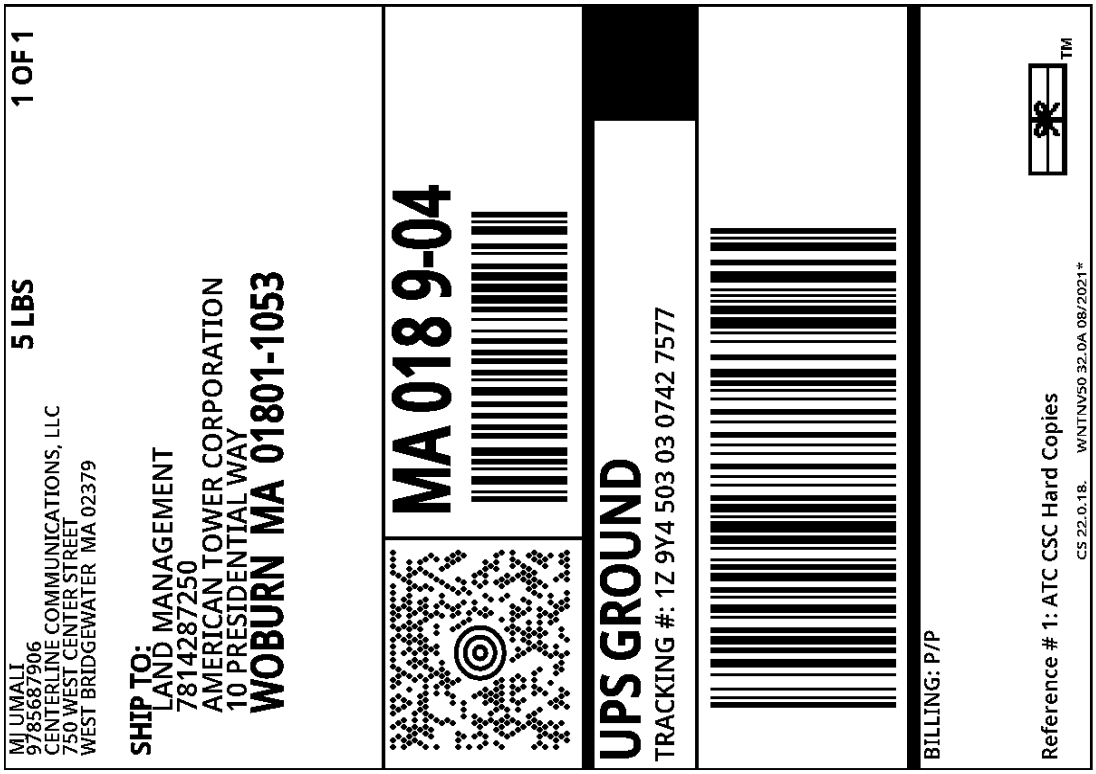


Proof of Delivery

Dear Customer,

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

Tracking Number
1Z9Y45030307427577

Weight
5.00 LBS

Service

UPS Ground

Shipped / Billed On
08/13/2021

Delivered On

10/14/2021 11:19 A.M.

Delivered To
WOBURN, MA, US

Received By

ANCRI

Left At
Front Desk

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

Sincerely,

UPS

Tracking results provided by UPS: 10/25/2021 1:43 P.M. EST

From:	Mathur, Vineeta
To:	John Coleman
Cc:	Judge, Mary
Subject:	Re: 88018 / STAMFORD (CATOONA) / 68 CATOONA LANE, STAMFORD, CT / VERIZON APPLICATION FOR CSC FILING REQUIREMENTS
Date:	Tuesday, December 7, 2021 12:14:42 PM
Attachments:	STAMFORD WEST III CT_16045710_FCD.pdf E-2002-1355.pdf

Hi John,

We do not have the original tower approval readily available in our electronic records system. The earliest digital record I have is that of antennas added in 2002 (see attached).

Thanks,
Vineeta

From: John Coleman <jcoleman@clinellc.com>
Sent: Wednesday, December 1, 2021 3:43 PM
To: Stamford Land Use <StamfordLandUse@StamfordCT.gov>
Subject: 88018 / STAMFORD (CATOONA) / 68 CATOONA LANE, STAMFORD, CT / VERIZON APPLICATION FOR CSC FILING REQUIREMENTS

Stamford Land Use,

Centerline Communications working on behalf of Verizon Wireless will be filing with the CSC to obtain their approval for a modification to an existing structure. I have accessed the CSC website and the original tower approval filing for this site is not available. A copy of the package to be submitted to your offices is pending the original approval. I have attached our drawings as reference to the location of the tower and information on what we will be doing there once we have obtained CSC approval and associated permits.

Per CSC requirements for filing I need to either obtain a copy of the original tower approval from your department or obtain a reply to this e-mail that the City of Hartford no longer has a copy of this approval.

I would greatly appreciate a copy of the original approval if you have one or a response to this e-mail so that we can submit this correction. If you have any questions, please feel free to reach out to me at any time.

Thank you and have a nice day.

John

John Coleman | Project Manager
750 W Center St, Suite 301 | West Bridgewater, MA 02379
Mobile: 240.615.7389
jcoleman@clinellc.com |
https://link.edgepilot.com/s/70705c8d/SHVy_b_WB0KarQBJ3e5XaQ?u=http://www.centerlinecommunications.com/

DISPLAY PERMIT IN A CONSPICUOUS PLACE ON THE PREMISES

City of Stamford

Building Department

888 Washington Boulevard, 7th Floor Stamford, CT 06901
Tel. (203) 977-5700

Permit No. **E-2002-135**

Parent PIN

ELECTRICAL PERMIT

Construction Cost: **$700**

Fee Paid: **$25.16**

Date Issued: **9/12/2002**

This certifies that **AMERICAN T & T CO**

has permission to erect, alter, or demolish a building on: **168 CATOONA LANE** No. of Units:

as follows: **INSTALL 2 DOUBLE DUPLEX RECEPTACLES FOR TELECOMMUNCATION EQUIP.**

provided that the person accepting this permit shall in every respect conform to the terms of the application therefore on file in this office, and to the provisions of regulations or ordinances relating to the Location, Inspection, Alteration and Construction of Buildings in the City of Stamford.

NOTE: The recipient of this permit accepts this permit on the condition that, as owner or as agent of the owner, he/she agrees to comply with all Building & Zoning Regulations of the City of Stamford & the State Statutes of the State of Connecticut regarding the use, occupancy & type of building or structure to be constructed, added to, demolished, or altered. The recipient also agrees that this building is to be located the proper distance from all street lines, all property yard lines & required distances from all other zones & is located in a zone in which the building & its use is allowed or has been approved.

Owner	AMERICAN T & T CO P O BOX 1329 MORRISTOWN, NJ 07962-1329	Applicant	Genovese, Thomas 35 MONAHAN LANE NAUGATUCK, CT 06770	Contractor	Genovese, Thomas 25 Monahan Lane NAUGATUCK, CT 06770 (203) 720-0587

Required Inspections:

Plan Review Departments: (The departments shown here are required to sign-off electronically prior to CO/COA)

9/12/2002

Robert DeMarco
Chief Building Official

All Other Work and MEPs Require Separate Permits

All permits approved are subject to inspections performed by a representative of this office. Requests for inspections must be made by the permit holder at least 48 hours in advance

This card must be displayed in a conspicuous place on the premise until sign-off and not torn down or removed.

AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure	:	**300 ft Self Supported Tower**
ATC Site Name	:	**Stamford (Katoona), CT**
ATC Asset Number	:	**88018**
Engineering Number	:	**13685619_C3_02**
Proposed Carrier	:	**Verizon Wireless**
Carrier Site Name	:	**Stamford West III CT**
Carrier Site Number	:	**468008**
Site Location	:	**168 Catoona Lane** **Stamford, CT 06902-4573** **41.052800,-73.563000**
County	:	**Fairfield**
Date	:	**July 2, 2021**
Max Usage	:	**87%**
Result	:	**Pass**

Prepared By:
Robert D. Barrett, E.I.
Structural Engineer II

Robert D. Barrett

Reviewed By:

COA: PEC.0001553

AMERICAN TOWER®
CORPORATION

Table of Contents

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 300 ft self supported tower to reflect the change in loading by Verizon Wireless.

Supporting Documents

Tower Drawings	CSEI Analysis, ATC Eng. #73123451, dated September 28, 2005
Foundation Drawing	Rose, Chulkoff, and Rose Job #C67229, dated August 9, 1967
Geotechnical Report	Rose, Chulkoff, and Rose Job #C67229, dated August 9, 1967
Modifications	ATC Eng. #42439132, dated September 26, 2008 ATC Eng. #44209632, dated December 2, 2009
Mount Analysis	Maser Consulting Connecticut Project #21777443A, dated June 11, 2021
Mount Modifications	Maser Consulting Connecticut Job #217777443A, dated June 11, 2021

Analysis

The tower was analyzed using Power Line Systems, Inc. tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	117 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1

Conclusion

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

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

Existing and Reserved Equipment

Elev.[1] (ft)	Qty	Antenna	Mount Type	Lines	Carrier
338.0	1	TX RX Systems 101-68-10-X-03N	Platform with Handrails	(1) 1 1/4" Coax	Marcus Communications LLC
324.0	1	Generic 15' Omni-Grid		(1) 1 5/8" Coax	
320.0	1	Generic 12' Omni		-	Other
311.0	1	Generic Radio/ODU		-	Marcus Communications LLC
307.0	1	Generic Radio/ODU		(1) 1/2" Coax	Other
	1	Generic 3' HP Dish			
303.0	-	-		(5) 7/8" Coax (3) 1/2" Coax	Clearwire Corporation
300.0	3	DragonWave Horizon Compact			
	3	DragonWave A-ANT-18G-2-C			
	1	Generic 4' Std. Dish		(1) 7/8" Coax	Marcus Communications LLC
292.0	1	Procom CXL 900-3LW	Side Arm	(1) 7/8" Coax	Sigfox S.A.
	1	Generic 5" x 3" x 2" Cavity Filter			
	1	Generic Low Noise Amplifier			
275.0	1	Rohde & Schwarz ADD090	Side Arm	(2) 7/8" Coax	US Dept of Homeland Security
270.0	1	Dielectric TLP-08M-2E	Side Arm	-	Other
268.0	2	Til-Tek TA-2350-DAB	Leg	(1) 1 5/8" Coax	XM Satellite Radio Inc.
265.0	3	RFS APXVAARR24_43-U-NA20	Sector Frames	(3) 1 1/4" Fiber (3) 1 5/8" Hybriflex	T-Mobile
	3	Ericsson Radio 4449 B71 B85A			
	3	Ericsson 4424 B25			
	3	Ericsson Air6449 B41			
	3	Ericsson Air 3246 B66			
260.0	-	-	-	(1) EW20	XM Satellite Radio Inc.
250.0	1	Sinclair SC281-L	Side Arm	(1) 7/8" Coax	US Dept of Homeland Security
245.0	1	Sinclair SC381-HL	Side Arm	(1) 7/8" Coax	

Existing and Reserved Equipment

Elev.[1] (ft)	Qty	Antenna	Mount Type	Lines	Carrier
235.0	2	Andrew SBNHH-1D65A	Sector Frames	(3) 0.39" Fiber Trunk (4) 0.74" 8 AWG 7 (2) 0.78" 8 AWG 6 (4) 0.96" Cable (10) 1 5/8" Coax	AT&T Mobility
	2	CCI OPA-65R-LCUU-H4			
	2	KMW EPBQ-654L8H6-L2			
	3	CCI BSA-M65R-BUU-H6 (101 lbs)			
	2	Ericsson RRUS E2 B29			
	2	Ericsson RRUS 11 B12			
	2	Ericsson RRUS 11 B5			
	2	Ericsson RRUS 32 B2			
	2	Ericsson RRUS 32 B30 (53 lbs)			
	1	Raycap DC6-48-60-18-8C			
	1	Ericsson RRUS 4449 B5, B12			
	3	Ericsson RRUS 4478 B14			
	2	Ericsson RRUS 4415 B30			
	2	Ericsson RRUS 4426 B66			
	2	Ericsson RRUS 8843 B2, B66A			
	3	Raycap DC6-48-60-18-8F ("Squid")			
	1	Raycap DC6-48-60-0-8C-EV			
	3	Powerwave Allgon TT19-08BP111-001			
	3	Powerwave Allgon 7770.00			
210.0	1	Sinclair SC281-L	Side Arm	(1) 7/8" Coax	US Dept of Homeland Security
200.0	2	TX RX Systems 101-68-10-X-03N	Side Arms	(2) 1 1/4" Coax	Marcus Communications LLC
193.0	2	Antel BCD-87010 ___	Side Arms	(3) 7/8" Coax	Spok Holdings, Inc.
	1	Generic 30" x 30" Reflector			
175.0	1	Generic 12" x 12" Junction Box	Leg	(2) 2" Conduit (6) 5/16" Coax	Clearwire Corporation
167.0	3	NextNet BTS-2500	T-Arms		
	3	Argus LLPX310R			
165.0	15	Generic RCU (Remote Control Unit)	Leg	(12) 1 5/8" Coax (1) 3/8" Coax	Metro PCS Inc
	6	Kathrein Scala 800 10504			
155.0	6	Alcatel-Lucent 1900MHz RRH	Sector Frames	(3) 1 1/4" Hybriflex Cable (3) 1" Hybrid (1) 1.7" Hybrid	Sprint Nextel
	3	Nokia 2.5G MAA - AAHC(64T64R)			
	3	RFS APXVSPP18-C-A20			
	3	Alcatel-Lucent 800 MHz RRH			
	3	Alcatel-Lucent ALU 800MHz External Notch Filter			
142.0	1	Antel BCD-87010 ___ 4°	Side Arm	(1) 7/8" Coax	Sensus USA Inc.
135.0	1	L-com HG908U-PRO	Stand-Off	(1) 1/2" Coax	Senet, Inc.
120.0	1	Channel Master Type 120	Stand-Off	(1) 1/2" Coax	Spok Holdings, Inc.
107.0	1	TX RX Systems 101-68-10-X-03N	Side Arm	(1) 1 1/4" Coax	Marcus Communications LLC
92.0	2	RFS DB-T1-6Z-8AB-0Z	Sector Frames	(2) 1 5/8" Hybriflex	Verizon Wireless
25.0	1	Til-Tek TA-2324-LHCP	Leg	(1) 7/8" Coax	XM Satellite Radio Inc.
6.0	1	Trimble Acutime 2000	Leg	(1) 1/2" Coax (1) 1/4" Coax	Spok Holdings, Inc.
	1	Channel Master Type 120			

Equipment to be Removed

Elev.[1] (ft)	Qty	Equipment	Mount Type	Lines	Carrier
92.0	3	Alcatel-Lucent RRH2X60-1900A-4R	-	-	Verizon Wireless
	12	Andrew SBNHH-1D65B			
	3	Alcatel-Lucent RRH4x45-B66 w/o Solar Shield			
	3	Alcatel-Lucent RRH2x60 700			

Proposed Equipment

Elev.[1] (ft)	Qty	Equipment	Mount Type	Lines	Carrier
92.0	3	Samsung Outdoor CBRS 20W RRH –Clip-on Antenna	Modified Sector Frames	(1) 1 5/8" Hybriflex	Verizon Wireless
	3	Samsung RT4401-48A			
	3	Samsung B5/B13 RRH-BR04C			
	3	Samsung B2/B66A RRH-BR049			
	3	Samsung MT6407-77A			
	1	RFS DB-T1-6Z-8AB-0Z			
	4	Quintel QS6656-5D			
	2	JMA Wireless MX06FRO660-03			

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

Install proposed lines stacked on top of existing Verizon Wireless coax.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Legs	71%	Pass
Diagonals	78%	Pass
Truss Diagonals	76%	Pass
Horizontals	57%	Pass
Truss Horizontals	87%	Pass
Anchor Bolts	47%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Uplift (Kips)	310.6	80%
Axial (Kips)	443.1	5%

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.

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

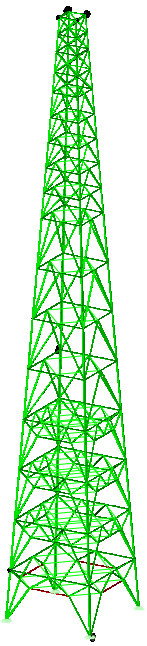
It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete.

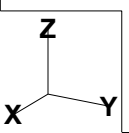
All assets of American Tower Corporation, its affiliates and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with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

American Tower Corp., Project: "2021.07.02 - Verizon Wireless - 13685619_C3_02"
Tower Version 16.01, 3:49:02 PM Friday, July 2, 2021
Undeformed geometry displayed





Project Name : 88018 - Stamford (Katoona), CT
Project Notes: 13685619_C3_02 - Verizon Wireless
Project File : C:\Users\robert.barrett\Desktop\2021.07.02 - Verizon Wireless - 13685619_C3_02\2021.07.02 - Verizon Wireless - 13685619_C3_02.tow
Date run   : 2:55:18 PM Friday, July 2, 2021
by   : Tower Version 16.01
Licensed to : American Tower Corp.

Successfully performed nonlinear analysis

Member check option: ANSI/TIA 222-G-1
Connection rupture check: Not Checked
Crossing diagonal check: Fixed
Included angle check: None
Climbing load check: None
Redundant members checked with: Actual Force
Loads from file: C:\Users\robert.barrett\Desktop\2021.07.02 - Verizon Wireless - 13685619_C3_02\2021.07.02 - Verizon Wireless - 13685619_C3_02.eia

*** Analysis Results:

Maximum element usage is 87.21% for Angle "LH 3X" in load case "W -45"

Foundation Design Forces For All Load Cases:

Note: loads are factored.

Load Case	Foundation Description	Axial Force (kips)	Shear Force (kips)	Bending Moment (ft-k)	Foundation Usage %
W 0	0P	320.91	47.23	4.97	0.00
W 0	0X	311.79	45.95	4.69	0.00
W 0	0XY	-189.31	34.18	5.22	0.00
W 0	0Y	-185.23	34.55	5.47	0.00
W 180	0P	-182.50	34.55	5.53	0.00
W 180	0X	-182.96	33.89	5.33	0.00
W 180	0XY	309.10	45.99	4.78	0.00
W 180	0Y	314.52	46.77	5.04	0.00
W 45	0P	443.10	62.26	4.48	0.00
W 45	0X	62.40	21.62	5.46	0.00
W 45	0XY	-310.64	50.86	5.78	0.00
W 45	0Y	63.29	21.57	5.43	0.00
W -45	0P	67.85	22.95	5.74	0.00
W -45	0X	435.74	61.45	4.52	0.00
W -45	0XY	61.11	20.79	5.22	0.00
W -45	0Y	-306.54	50.65	5.84	0.00
W 90	0P	321.29	47.51	5.02	0.00
W 90	0X	-185.74	34.74	5.51	0.00
W 90	0XY	-189.04	34.16	5.22	0.00
W 90	0Y	311.65	45.97	4.68	0.00
W -90	0P	-183.13	34.96	5.56	0.00
W -90	0X	315.80	46.94	5.07	0.00
W -90	0XY	308.98	45.94	4.75	0.00
W -90	0Y	-183.49	33.87	5.29	0.00
W 0 Ice	0P	169.31	21.21	1.46	0.00
W 0 Ice	0X	164.12	20.69	1.34	0.00
W 0 Ice	0XY	22.74	3.54	3.03	0.00
W 0 Ice	0Y	26.70	3.61	3.12	0.00
W 180 Ice	0P	31.08	3.81	3.18	0.00
W 180 Ice	0X	27.88	3.73	3.14	0.00
W 180 Ice	0XY	159.72	20.62	1.32	0.00
W 180 Ice	0Y	164.20	20.92	1.48	0.00
W 45 Ice	0P	203.60	26.21	0.53	0.00
W 45 Ice	0X	95.45	11.12	2.42	0.00
W 45 Ice	0XY	-11.21	6.24	3.39	0.00
W 45 Ice	0Y	95.03	11.12	2.40	0.00
W -45 Ice	0P	99.87	11.62	2.52	0.00
W -45 Ice	0X	198.79	25.84	0.51	0.00
W -45 Ice	0XY	91.42	11.03	2.33	0.00
W -45 Ice	0Y	-7.21	6.10	3.46	0.00
W 90 Ice	0P	169.42	21.27	1.48	0.00
W 90 Ice	0X	27.17	3.65	3.13	0.00
W 90 Ice	0XY	22.82	3.55	3.04	0.00
W 90 Ice	0Y	163.46	20.66	1.33	0.00
W -90 Ice	0P	30.92	3.86	3.18	0.00
W -90 Ice	0X	165.08	20.99	1.49	0.00
W -90 Ice	0XY	159.67	20.60	1.31	0.00
W -90 Ice	0Y	27.20	3.70	3.13	0.00

Summary of Joint Support Reactions For All Load Cases:

Load Case	Joint Label	Long. Force (kips)	Tran. Force (kips)	Vert. Force (kips)	Shear Force (kips)	Tran. Moment (ft-k)	Long. Moment (ft-k)	Bending Moment (ft-k)	Vert. Moment (ft-k)	Found. Usage %
W 0	0P	-42.44	-20.71	-320.91	47.23	-0.84	-4.89	4.97	-1.98	0.00
W 0	0X	-40.84	21.05	-311.79	45.95	0.55	-4.66	4.69	2.09	0.00
W 0	0XY	-31.43	-13.43	189.31	34.18	0.48	-5.20	5.22	1.93	0.00
W 0	0Y	-32.19	12.56	185.23	34.55	-0.35	-5.46	5.47	-1.90	0.00
W 180	0P	32.28	12.34	182.50	34.55	-0.34	5.52	5.53	1.80	0.00
W 180	0X	31.31	-12.98	182.96	33.89	0.49	5.30	5.33	-1.94	0.00
W 180	0XY	40.95	20.94	-309.10	45.99	0.54	4.75	4.78	-2.11	0.00
W 180	0Y	42.15	-20.27	-314.52	46.77	-0.85	4.96	5.04	2.10	0.00
W 45	0P	-43.93	-44.13	-443.10	62.26	3.20	-3.15	4.48	0.13	0.00
W 45	0X	-18.87	-10.54	-62.40	21.62	4.31	-3.36	5.46	2.93	0.00
W 45	0XY	-35.95	-35.97	310.64	50.86	4.09	-4.08	5.78	-0.00	0.00
W 45	0Y	-10.29	-18.96	-63.29	21.57	3.36	-4.26	5.43	-2.93	0.00
W -45	0P	-20.00	11.25	-67.85	22.95	-4.52	-3.55	5.74	-2.98	0.00
W -45	0X	-42.66	44.23	-435.74	61.45	-3.41	-2.97	4.52	0.01	0.00
W -45	0XY	-9.69	18.39	-61.11	20.79	-3.27	-4.07	5.22	2.95	0.00
W -45	0Y	-36.38	35.25	306.54	50.65	-3.99	-4.27	5.84	0.03	0.00
W 90	0P	-20.63	-42.80	-321.29	47.51	4.94	0.87	5.02	2.10	0.00
W 90	0X	12.54	-32.40	185.74	34.74	5.50	0.34	5.51	1.89	0.00
W 90	0XY	-13.46	-31.40	189.04	34.16	5.20	-0.50	5.22	-1.93	0.00
W 90	0Y	21.15	-40.81	-311.65	45.97	4.65	-0.53	4.68	-2.10	0.00
W -90	0P	12.31	32.73	183.13	34.96	-5.55	0.32	5.56	-1.91	0.00
W -90	0X	-20.23	42.36	-315.80	46.94	-5.00	0.88	5.07	-2.10	0.00
W -90	0XY	21.05	40.83	-308.98	45.94	-4.72	-0.51	4.75	2.11	0.00
W -90	0Y	-13.09	31.23	183.49	33.87	-5.27	-0.51	5.29	1.95	0.00
W 0 Ice	0P	-17.51	-11.97	-169.31	21.21	-1.46	0.00	1.46	-0.51	0.00
W 0 Ice	0X	-16.83	12.03	-164.12	20.69	1.34	0.08	1.34	0.52	0.00
W 0 Ice	0XY	-3.07	1.76	-22.74	3.54	1.40	-2.69	3.03	0.52	0.00
W 0 Ice	0Y	-3.05	-1.93	-26.70	3.61	-1.44	-2.76	3.12	-0.50	0.00
W 180 Ice	0P	3.04	-2.30	-31.08	3.81	-1.43	2.85	3.18	0.50	0.00
W 180 Ice	0X	3.08	2.10	-27.88	3.73	1.41	2.81	3.14	-0.54	0.00
W 180 Ice	0XY	16.89	11.81	-159.72	20.62	1.32	0.04	1.32	-0.54	0.00
W 180 Ice	0Y	17.40	-11.61	-164.20	20.92	-1.47	0.08	1.48	0.55	0.00
W 45 Ice	0P	-18.50	-18.57	-203.60	26.21	-0.37	0.39	0.53	0.02	0.00
W 45 Ice	0X	-10.63	3.28	-95.45	11.12	2.38	0.43	2.42	0.77	0.00
W 45 Ice	0XY	-4.41	-4.42	11.21	6.24	2.40	-2.39	3.39	-0.00	0.00
W 45 Ice	0Y	3.32	-10.61	-95.03	11.12	-0.43	-2.36	2.40	-0.77	0.00
W -45 Ice	0P	-11.18	-3.16	-99.87	11.62	-2.49	0.37	2.52	-0.79	0.00
W -45 Ice	0X	-17.97	18.57	-198.79	25.84	0.26	0.44	0.51	-0.01	0.00
W -45 Ice	0XY	3.33	10.51	-91.42	11.03	0.37	-2.30	2.33	0.78	0.00
W -45 Ice	0Y	-4.33	4.30	7.21	6.10	-2.45	-2.45	3.46	0.02	0.00
W 90 Ice	0P	-11.93	-17.61	-169.42	21.27	0.02	1.48	1.48	0.54	0.00
W 90 Ice	0X	-1.96	-3.08	-27.17	3.65	2.78	1.45	3.13	0.50	0.00
W 90 Ice	0XY	1.77	-3.08	-22.82	3.55	2.70	-1.40	3.04	-0.53	0.00
W 90 Ice	0Y	12.04	-16.79	-163.46	20.66	-0.07	-1.32	1.33	-0.52	0.00
W -90 Ice	0P	-2.29	3.11	-30.92	3.86	-2.85	1.43	3.18	-0.52	0.00
W -90 Ice	0X	-11.61	17.48	-165.08	20.99	-0.09	1.49	1.49	-0.55	0.00
W -90 Ice	0XY	11.86	16.84	-159.67	20.60	-0.02	-1.31	1.31	0.54	0.00
W -90 Ice	0Y	2.05	3.08	-27.20	3.70	-2.79	-1.41	3.13	0.54	0.00

Summary of Joint Support Reactions For All Load Cases in Direction of Leg:

Load Case	Support Joint	Origin Joint	Leg Member	Force In Leg Dir. (kips)	Residual Shear Perpendicular To Leg (kips)	Residual Shear Horizontal To Leg - Res. (kips)	Residual Shear Horizontal To Leg - Long. (kips)	Residual Shear Horizontal To Leg - Tran. (kips)	Total Long. Force (kips)	Total Tran. Force (kips)	Total Vert. Force (kips)
W 0	0P	1P	L 1P	323.576	22.625	22.671	22.653	0.920	-42.44	-20.71	-320.91
W 0	0X	1X	L 1X	314.411	21.642	21.690	21.613	-1.823	-40.84	21.05	-311.79
W 0	0XY	1XY	L 1XY	-191.352	19.791	19.835	19.757	1.753	-31.43	-13.43	189.31
W 0	0Y	1Y	L 1Y	-187.274	20.753	20.797	20.766	-1.139	-32.19	12.56	185.23
W 180	0P	1P	L 1P	-184.552	21.008	21.051	-21.024	-1.081	32.28	12.34	182.50
W 180	0X	1X	L 1X	-184.987	20.055	20.099	-20.028	1.694	31.31	-12.98	182.96
W 180	0XY	1XY	L 1XY	311.731	21.916	21.965	-21.884	-1.879	40.95	20.94	-309.10
W 180	0Y	1Y	L 1Y	317.166	22.721	22.768	-22.751	0.870	42.15	-20.27	-314.52
W 45	0P	1P	L 1P	446.838	23.531	23.620	16.602	16.802	-43.93	-44.13	-443.10
W 45	0X	1X	L 1X	62.678	20.801	20.801	15.024	14.387	-18.87	-10.54	-62.40
W 45	0XY	1XY	L 1XY	-313.879	23.675	23.765	16.794	16.815	-35.95	-35.97	310.64
W 45	0Y	1Y	L 1Y	63.582	20.690	20.690	14.195	15.053	-10.29	-18.96	-63.29
W -45	0P	1P	L 1P	68.128	22.100	22.101	15.815	-15.437	-20.00	11.25	-67.85
W -45	0X	1X	L 1X	439.431	23.378	23.466	15.789	-17.360	-42.66	44.23	-435.74
W -45	0XY	1XY	L 1XY	61.413	19.870	19.871	13.454	-14.623	-9.69	18.39	-61.11
W -45	0Y	1Y	L 1Y	-309.778	23.838	23.929	17.477	-16.344	-36.38	35.25	306.54
W 90	0P	1P	L 1P	323.967	22.955	23.001	0.813	22.987	-20.63	-42.80	-321.29
W 90	0X	1X	L 1X	-187.796	20.934	20.978	-1.084	20.950	12.54	-32.40	185.74
W 90	0XY	1XY	L 1XY	-191.083	19.777	19.821	1.807	19.739	-13.46	-31.40	189.04
W 90	0Y	1Y	L 1Y	314.282	21.633	21.681	-1.927	21.595	21.15	-40.81	-311.65
W -90	0P	1P	L 1P	-185.208	21.412	21.457	-1.015	-21.433	12.31	32.73	183.13
W -90	0X	1X	L 1X	318.455	22.851	22.897	0.754	-22.885	-20.23	42.36	-315.80
W -90	0XY	1XY	L 1XY	311.613	21.821	21.869	-1.996	-21.778	21.05	40.83	-308.98

W -90	0Y	1Y	L 1Y	-185.519	19.954	19.998	1.778	-19.919	-13.09	31.23	183.49
W 0 Ice	0P	1P	L 1P	170.485	7.212	7.231	7.067	1.531	-17.51	-11.97	-169.31
W 0 Ice	0X	1X	L 1X	165.268	6.956	6.976	6.709	-1.911	-16.83	12.03	-164.12
W 0 Ice	0XY	1XY	L 1XY	22.576	4.478	4.486	4.471	-0.358	-3.07	1.76	-22.74
W 0 Ice	0Y	1Y	L 1Y	26.530	4.701	4.709	4.701	0.280	-3.05	-1.93	-26.70
W 180 Ice	0P	1P	L 1P	30.914	4.961	4.969	-4.954	0.382	3.04	-2.30	-31.08
W 180 Ice	0X	1X	L 1X	27.717	4.807	4.814	-4.799	-0.380	3.08	2.10	-27.88
W 180 Ice	0XY	1XY	L 1XY	160.877	7.294	7.315	-7.046	-1.965	16.89	11.81	-159.72
W 180 Ice	0Y	1Y	L 1Y	165.357	7.408	7.428	-7.278	1.483	17.40	-11.61	-164.20
W 45 Ice	0P	1P	L 1P	205.103	8.423	8.455	5.944	6.013	-18.50	-18.57	-203.60
W 45 Ice	0X	1X	L 1X	95.945	5.409	5.410	4.743	2.604	-10.63	3.28	-95.45
W 45 Ice	0XY	1XY	L 1XY	-11.708	5.245	5.265	3.714	3.731	-4.41	-4.42	11.21
W 45 Ice	0Y	1Y	L 1Y	95.530	5.385	5.387	2.537	4.752	3.32	-10.61	-95.03
W -45 Ice	0P	1P	L 1P	100.369	5.843	5.844	5.019	-2.995	-11.18	-3.16	-99.87
W -45 Ice	0X	1X	L 1X	200.285	8.482	8.514	5.710	-6.315	-17.97	18.57	-198.79
W -45 Ice	0XY	1XY	L 1XY	91.929	5.395	5.397	2.313	-4.877	3.33	10.51	-91.42
W -45 Ice	0Y	1Y	L 1Y	-7.712	5.449	5.469	3.883	-3.852	-4.33	4.30	7.21
W 90 Ice	0P	1P	L 1P	170.591	7.296	7.315	1.484	7.163	-11.93	-17.61	-169.42
W 90 Ice	0X	1X	L 1X	26.597	4.759	4.767	0.283	4.759	-1.96	-3.08	-27.17
W 90 Ice	0XY	1XY	L 1XY	22.657	4.490	4.497	-0.364	4.482	1.77	-3.08	-22.82
W 90 Ice	0Y	1Y	L 1Y	164.618	6.971	6.991	-1.957	6.712	12.04	-16.79	-163.46
W -90 Ice	0P	1P	L 1P	30.755	5.021	5.029	0.379	-5.015	-2.29	3.11	-30.92
W -90 Ice	0X	1X	L 1X	166.243	7.421	7.440	1.435	-7.301	-11.61	17.48	-165.08
W -90 Ice	0XY	1XY	L 1XY	160.826	7.255	7.276	-2.014	-6.992	11.86	16.84	-159.67
W -90 Ice	0Y	1Y	L 1Y	27.037	4.764	4.772	-0.371	-4.757	2.05	3.08	-27.20

Overturning Moment Summary For All Load Cases:

Load Case	Transverse Moment (ft-k)	Longitudinal Moment (ft-k)	Torsional Moment (ft-k)	Resultant Moment (ft-k)	Transverse Force (kips)	Longitudinal Force (kips)	Vertical Force (kips)
W 0	303.802	-23166.408	82.020	23168.400	0.526	146.901	258.160
W 180	135.253	22748.797	-80.146	22749.199	-0.033	-146.680	258.160
W 45	17356.398	-17315.587	-7.875	24516.812	109.592	109.040	258.160
W -45	-16917.435	-17227.360	135.207	24145.010	-109.122	108.725	258.160
W 90	23177.523	-297.518	-102.125	23179.433	147.413	0.406	258.160
W -90	-22802.374	-165.154	106.370	22802.972	-147.151	-0.037	258.160
W 0 Ice	210.590	-6531.694	20.438	6535.088	0.106	40.461	382.873
W 180 Ice	176.468	6093.917	-20.047	6096.471	-0.007	-40.416	382.873
W 45 Ice	4930.878	-4950.096	-2.520	6986.917	30.321	30.210	382.873
W -45 Ice	-4543.890	-4932.165	33.600	6706.205	-30.222	30.148	382.873
W 90 Ice	6506.448	-236.841	-25.739	6510.757	40.561	0.082	382.873
W -90 Ice	-6132.300	-210.047	26.544	6135.896	-40.506	-0.008	382.873

EIA Sections Information:

Section Label	Top Z (ft)	Bottom Z (ft)	Joint Count	Member Count	Top Width (ft)	Bottom Width (ft)	Gross Area (ft^2)	Face Adjust Factor	Af Face Adjust Factor	Ar Face Adjust Factor	Dead Load Factor
291.4-300.0	300.000	291.417	8	20	9.00	10.06	81.79	1.1220	1.1220	1.1220	1.346
282.8-291.4	291.417	282.834	8	16	10.06	11.12	90.88	1.1210	1.1210	1.1210	1.458
272.7-282.8	282.834	272.667	8	16	11.12	12.37	119.40	1.1970	1.1970	1.1970	1.436
262.5-272.7	272.667	262.500	12	24	12.37	13.63	132.15	1.2030	1.2030	1.2030	1.444
250.0-262.5	262.500	250.000	16	24	13.63	15.17	179.95	1.2010	1.2010	1.2010	1.441
237.5-250.0	250.000	237.500	16	24	15.17	16.71	199.22	1.2070	1.2070	1.2070	1.449
225.0-237.5	237.500	225.000	16	24	16.71	18.25	218.49	1.2130	1.2130	1.2130	1.456
212.5-225.0	225.000	212.500	16	24	18.25	19.79	237.76	1.2190	1.2190	1.2190	1.463
200.0-212.5	212.500	200.000	16	24	19.79	21.33	257.03	1.2250	1.2250	1.2250	1.470
175.0-200.0	200.000	175.000	16	24	21.33	24.42	571.87	1.2320	1.2320	1.2320	1.479
150.0-175.0	175.000	150.000	16	24	24.42	27.50	648.96	1.2570	1.2570	1.2570	1.509
125.0-150.0	150.000	125.000	16	24	27.50	30.58	726.04	1.2660	1.2660	1.2660	1.519
100.0-125.0	125.000	100.000	20	32	30.58	33.67	803.13	1.2790	1.2790	1.2790	1.535
75.00-100.0	100.000	75.000	36	76	33.67	36.75	880.21	1.2760	1.2760	1.2760	1.531
50.00-75.00	75.000	50.000	36	76	36.75	39.83	957.29	1.2790	1.2790	1.2790	1.535
25.00-50.00	50.000	25.000	32	68	39.83	42.92	1034.38	1.2820	1.2820	1.2820	1.539
0.000-25.00	25.000	0.000	20	40	42.92	46.00	1111.46	1.3210	1.3210	1.3210	1.586

Printed capacities do not include the strength factor entered for each load case.
The Group Summary reports on the member and load case that resulted in maximum usage which may not necessarily be the same as that which produces maximum force.

Group Summary (Compression Portion):

Group Label	Group Desc.	Angle Type	Angle Size	Steel Strength (ksi)	Max Usage %	Usage Control	Max Use In Comp. %	Comp. Control Member	Comp. Force (kips)	Comp. Control Load Case	L/r Capacity (kips)	Comp. Connect. Shear Capacity (kips)	Comp. Connect. Bearing Capacity (kips)	RLX	RLY	RLZ	L/r	KL/r	Length Comp. Member (ft)	Curve No.	No. Of Bolts Comp.
Leg S1	L 8" x 8" x 1.125"	SAE	8X8X1.13	36.0	71.24	Comp	71.24	L 1P	-389.558	W 45	546.848	0.000	0.000	0.281	0.281	0.281	54.30	54.30	25.095	1	0
Leg S2	L 8" x 8" x 1.125"	SAE	8X8X1.13	36.0	60.63	Comp	60.63	L 2P	-331.573	W 45	546.848	0.000	0.000	0.281	0.281	0.281	54.30	54.30	25.095	1	0
Leg S3	L 8" x 8" x 1.125"	SAE	8X8X1.13	36.0	52.51	Comp	52.51	L 3P	-287.138	W 45	546.848	0.000	0.000	0.281	0.281	0.281	54.30	54.30	25.095	1	0
Leg S4	L 8" x 8" x 1"	SAE	8X8X1	36.0	49.16	Comp	49.16	L 4P	-241.064	W 45	490.403	0.000	0.000	0.281	0.281	0.281	54.30	54.30	25.095	1	0
Leg S5	L 8" x 8" x 0.875"	SAE	8X8X0.88	36.0	55.54	Comp	55.54	L 5P	-230.711	W 45	415.372	0.000	0.000	0.333	0.333	0.333	63.93	63.93	25.095	1	0
Leg S6	L 8" x 8" x 0.875"	SAE	8X8X0.88	36.0	46.22	Comp	46.22	L 6P	-191.984	W 45	415.372	0.000	0.000	0.333	0.333	0.333	63.93	63.93	25.095	1	0
Leg S7	L 8" x 8" x 0.75"	SAE	8X8X0.75	36.0	42.96	Comp	42.96	L 7P	-154.375	W 45	359.367	0.000	0.000	0.333	0.333	0.333	63.53	63.53	25.095	1	0
Leg S8	L 8" x 8" x 0.625"	SAE	8X8X0.63	36.0	39.59	Comp	39.59	L 8P	-119.684	W 45	302.314	0.000	0.000	0.333	0.333	0.333	63.53	63.53	25.095	1	0
Leg S9	L 6" x 6" x 0.75"	SAE	6X6X0.75	36.0	38.52	Comp	38.52	L 9P	-101.927	W 45	264.581	0.000	0.000	0.500	0.500	0.500	64.35	64.35	12.547	1	0
Leg S10	L 6" x 6" x 0.75"	SAE	6X6X0.75	36.0	31.61	Comp	31.61	L 10P	-83.632	W 45	264.581	0.000	0.000	0.500	0.500	0.500	64.35	64.35	12.547	1	0
Leg S11	L 6" x 6" x 0.5625"	SAE	6X6X0.56	36.0	33.48	Comp	33.48	L 11P	-67.671	W 45	202.144	0.000	0.000	0.500	0.500	0.500	63.80	63.80	12.547	1	0
Leg S12	L 6" x 6" x 0.5625"	SAE	6X6X0.56	36.0	25.55	Comp	25.55	L 12P	-51.650	W 45	202.144	0.000	0.000	0.500	0.500	0.500	63.80	63.80	12.547	1	0
Leg S13	L 6" x 6" x 0.4375"	SAE	6X6X0.44	36.0	22.80	Comp	22.80	L 13P	-36.308	W 45	159.219	0.000	0.000	0.500	0.500	0.500	63.26	63.26	12.547	1	0
Leg S14	L 5" x 5" x 0.4375"	SAE	5X5X0.44	36.0	20.93	Comp	20.93	L 14P	-27.717	W 45	132.418	0.000	0.000	0.500	0.500	0.500	62.10	62.10	10.206	1	0
Leg S15	L 5" x 5" x 0.4375"	SAE	5X5X0.44	36.0	13.78	Comp	13.78	L 15P	-18.241	W 45	132.418	0.000	0.000	0.500	0.500	0.500	62.10	62.10	10.206	1	0
Leg S16	L 5" x 5" x 0.3125"	SAE	5X5X0.31	36.0	9.85	Comp	9.85	L 16P	-9.522	W 45	96.705	0.000	0.000	0.500	0.500	0.500	52.01	52.01	8.616	1	0
Leg S17	L 5" x 5" x 0.3125"	SAE	5X5X0.31	36.0	4.95	Comp	4.95	L 17P	-4.790	W 45	96.705	0.000	0.000	0.500	0.500	0.500	52.01	52.01	8.616	1	0
Diag S1	B/B L3"x4"x0.3125"	DAS	4X3X0.31	36.0	56.05	Comp	56.05	D 2X	-44.288	W -90	79.015	0.000	0.000	0.310	0.920	0.310	124.62	122.84	21.786	6	0
Diag S2	B/B L3"x3.5"x0.25"	DAS	3.5X3X0.25	36.0	60.90	Comp	60.90	D 4X	-49.381	W -90	81.084	0.000	0.000	0.310	0.620	0.310	94.31	94.31	20.916	1	0
Diag S3	B/B L2.5"x3"x0.25"	DAS	3.5X2.5X0.25	36.0	77.38	Comp	77.38	D 6X	-48.692	W -90	62.929	0.000	0.000	0.333	0.667	0.333	111.82	111.82	20.550	1	0
Diag S4	B/B L2.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	36.0	78.26	Comp	78.26	D 8X	-48.866	W -90	62.438	0.000	0.000	0.333	0.667	0.333	109.94	109.94	20.204	1	0
Diag S5	B/B L3"x4"x0.25"	DAS	4X3X0.25	36.0	53.83	Comp	53.83	D 9X	-30.250	W -90	56.194	0.000	0.000	0.333	0.667	0.333	134.71	129.05	30.178	6	0
Diag S6	B/B L3"x4"x0.25"	DAS	4X3X0.25	36.0	50.35	Comp	50.35	D 11X	-29.558	W -90	58.704	0.000	0.000	0.333	0.667	0.333	131.00	126.76	29.346	6	0
Diag S7	B/B L3"x4"x0.25"	DAS	4X3X0.25	36.0	44.70	Comp	44.70	D 13X	-27.308	W -90	61.090	0.000	0.000	0.333	0.667	0.333	127.55	124.64	28.573	6	0
Diag S8	B/B L3.5"x3.5"x0.25"	DAE	3.5X3.5X0.25	36.0	48.69	Comp	48.69	D 15X	-25.685	W -90	52.748	0.000	0.000	0.333	0.667	0.333	140.20	132.43	27.864	6	0
Diag S9	B/B L3.5"x3.5"x0.25"	DAE	3.5X3.5X0.25	36.0	26.00	Comp	26.00	D 17X	-14.748	W -90	56.716	0.000	0.000	0.320	0.590	0.320	97.87	97.87	16.451	1	0
Diag S10	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	45.38	Comp	45.38	D 19P	-13.467	W 90	29.675	0.000	0.000	0.500	1.000	0.500	160.96	145.19	15.962	6	0
Diag S11	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	66.78	Comp	66.78	D 21P	-13.440	W 90	20.126	0.000	0.000	0.480	0.960	0.480	190.92	163.61	15.495	6	0
Diag S12	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	59.32	Comp	59.32	D 24P	-11.704	W 0	19.730	0.000	0.000	0.500	1.000	0.500	193.21	165.03	15.054	6	0
Diag S13	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	54.26	Comp	54.26	D 26P	-11.218	W 0	20.673	0.000	0.000	0.500	1.000	0.500	187.90	161.76	14.641	6	0
Diag S14 L	3.5" x 3.5" x 0.25"	SAE	3.5X3.5X0.25	36.0	25.95	Comp	25.95	D 28X	-6.239	W -90	24.047	0.000	0.000	0.520	0.520	0.520	148.48	141.74	16.514	5	0
Diag S15 L	3.5" x 3.5" x 0.25"	SAE	3.5X3.5X0.25	36.0	17.81	Comp	17.81	D 29Y	-4.713	W 180	26.469	0.000	0.000	0.520	0.520	0.520	139.78	135.11	15.546	5	0
Diag S16	L 3" x 3" x 0.25"	SAE	3X3X0.25	36.0	14.09	Comp	14.09	D 31P	-3.044	W 0	21.604	0.000	0.000	0.520	0.520	0.520	143.77	138.16	13.640	5	0
Diag S17	L 3" x 3" x 0.25"	SAE	3X3X0.25	36.0	10.20	Comp	10.20	D 33Y	-2.425	W 180	23.778	0.000	0.000	0.520	0.520	0.520	135.30	131.69	12.836	5	0
Horiz 1	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	57.16	Comp	57.16	H 1P	-35.141	W -90	61.473	0.000	0.000	0.480	0.480	0.480	113.39	113.39	21.458	1	0
Horiz 2	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	43.52	Tens	41.74	H 3P	-35.915	W -90	86.040	0.000	0.000	0.500	0.500	0.500	73.09	73.09	13.278	1	0
Horiz 3	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	40.88	Tens	37.26	H 5P	-33.024	W -90	88.638	0.000	0.000	0.500	0.500	0.500	67.43	67.43	12.250	1	0
Horiz 4	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	53.69	Comp	53.69	H 7P	-30.854	W -90	57.471	0.000	0.000	0.470	0.940	0.470	112.02	112.02	11.222	1	0
Horiz 5	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	53.64	Comp	53.64	H 9P	-14.702	W -90	27.408	0.000	0.000	1.000	1.000	1.000	194.18	165.62	15.292	6	0
Horiz 6	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	41.95	Comp	41.95	H 11P	-13.371	W -90	31.873	0.000	0.000	1.000	1.000	1.000	174.60	153.58	13.750	6	0
Horiz 7	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	44.74	Comp	44.74	H 13P	-11.408	W -90	25.495	0.000	0.000	1.000	1.000	1.000	190.51	163.36	12.208	6	0
Horiz 8	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	32.84	Comp	32.84	H 15P	-10.123	W -90	30.825	0.000	0.000	1.000	1.000	1.000	166.45	148.57	10.667	6	0
Horiz 9	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	26.24	Comp	26.24	H 17P	-8.959	W -90	34.139	0.000	0.000	1.000	1.000	1.000	154.42	141.17	9.896	6	0
Horiz 10	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	19.75	Comp	19.75	H 19X	-7.508	W 90	38.019	0.000	0.000	1.000	1.000	1.000	142.39	133.77	9.125	6	0
Horiz 11	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	17.26	Comp	17.26	H 22P	-7.353	W 180	42.599	0.000	0.000	1.000	1.000	1.000	130.36	126.37	8.354	6	0
Horiz 12	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	13.27	Comp	13.27	H 24P	-6.357	W 180	47.900	0.000	0.000	1.000	1.000	1.000	118.34	118.34	7.583	1	0
Horiz 13	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	9.19	Comp	9.19	H 26Y	-5.068	W 0	55.156	0.000	0.000	1.000	1.000	1.000	106.31	106.31	6.813	1	0
Horiz 14	L 3" x 2.5" x 0.25"	SAU	3X2.5X0.25	36.0	6.00	Tens	4.72	H 27Y	-0.553	W 0	11.737	0.000	0.000	0.500	1.000	0.500	197.15	178.83	12.371	5	0
Horiz 15	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	1.73	Tens	0.50	H 29Y	-0.265	W 0	53.374	0.000	0.000	0.500	1.000	0.500	118.06	118.06	11.117	1	0
Horiz 16	L 3" x 2.5" x 0.25"	SAU	3X2.5X0.25	36.0	2.36	Tens	0.00	H 32X	0.000		16.518	0.000	0.000	0.500	1.000	0.500	160.30	150.75	10.059	5	0
Horiz 17	C8x11.5	CHN	C8x11.5	36.0	1.00	Comp	1.00	H 33P	-0.296	W -90	29.726	0.000	0.000	1.000	1.000	1.000	172.80	160.27	9.000	5	0
LD 1	B/B L3"x2"x0.25"	DAL	3X2X0.25	36.0	48.74	Comp	48.74	LD 1X	-17.773	W -90	36.466	0.000	0.000	0.850	0.850	0.850	146.95	136.57	12.836	6	0
LD 2	B/B L4"x3"x0.25"	DAL	4X3X0.25	36.0	56.41	Comp	56.41	LD 3X	-46.696	W -90	82.773	0.000	0.000	0.820	0.820	0.820	98.68	98.68	12.836	1	0
LD 4	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	75.82	Comp	75.82	LD 7X	-23.391	W -45	30.849	0.000	0.000	0.870	0.870	0.870	153.35	140.51	11.516	6	0
LD 5	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	61.38	Comp	61.38	LD 9X	-32.168	W -90	52.407	0.000	0.000	0.800	0.800	0.800	100.25	100.25	8.187	1	0
LD 6	B/B L3"x3"x0.25"	DAE	3X3X0.25	36.0	51.20	LD	11P	-34.697	W -90	67.765	0.000	0.000	0.840	0.840	0.840	104.93	104.93	9.681	1	0
LD 7	B/B L3"x3"x0.25"	DAE	3X3X0.25	36.0	41.31	LD	13X	-23.002	W -45	55.681	0.000	0.000	0.865	0.865	0.865	122.12	121.30	10.941	6	0
LD 8	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	60.64	Comp	60.64	LD 15X	-31.573	W -90	52.069	0.000	0.000	0.820	0.820	0.820	100.96	100.96	8.044	1	0
LD 9	B/B L3"x2"x0.25"	DAL	3X2X0.25	36.0	59.28	Comp	59.28	LD 17P	-33.772	W -90	56.971	0.000	0.000	0.820	0.820	0.820	103.11	103.11	9.336	1	0
LD 10	B/B L3"x3"x0.25"	DAE	3X3X0.25	36.0	39.23	Comp	39.23	LD 19X	-23.681	W -45	60.370	0.000	0.000	0.860	0.860	0.860	115.26	115.26	10.387	1	0
LD 11	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	59.42	Comp	59.42	LD 21X	-31.427	W -90	52.887	0.000	0.000	0.820	0.820	0.820	99.26	99.26	7.909	1	0
LD 12	B/B L2.5"x2.5"x0.375"	DAE	2.5X2.5X0.38	36.0	48.82	Comp	48.82	LD 23P	-32.833	W -90	67.258	0.000	0.000	0.850	0.850	0.850	122.01	121.24	9.008	6	0
LH 1	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	10.81	Tens	0.00	LH 2X	0.000		0.002	0.000	0.000	100.000	100.000	100.000	34196.55	21077.08	21.458	6	0
LH 2	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	87.21	Comp	87.21	LH 3X	-26.825	W -45	30.760	0.000	0.000	1.000	2.000	1.000	178.89	156.22	10.808	6	0
LH 3	B/B L2.5"x3"x0.375"	DAS	3X2.5X0.38	36.0	49.83	Comp	49.83	LH 5X	-25.550	W -45	51.273	0.000	0.000	1.000	2.000	1.000	163.34	146.66	10.005	6	0
LH 4	B/B L3.5"x3.5"x0.25"	DAE	3.5X3.5X0.25	36.0	45.17	Comp	45.17	LH 7X	-25.253	W -45	55.901	0.000	0.000	0.998	1.995	0.998	138.55	131.41	9.202	6	0
DUM 1	Dummy Bracing Member	DUM	0.1X0.1X1	36.0	0.00		0.00	BR 11XY	-1.062	W 45	0.324	0.000	0.000	1.000	1.000	1.000	2.33	2.33	19.445	1	0

Group Summary (Tension Portion):

Group Label	Group Desc.	Angle Type	Angle Size	Steel Strength (ksi)	Max Usage %	Usage Control	Max Use In Tens. %	Tension Control Member	Tension Force (kips)	Tension Section Load Case	Net Capacity (kips)	Tension Connect. Shear Capacity (kips)	Tension Connect. Bearing Capacity (kips)	Tension Connect. Rupture Capacity (kips)	Length Tens. Member (ft)	No. Of Bolts	No. Of Holes	Hole Diameter (in)
Leg S1	L 8" x 8" x 1.125"	SAE	8X8X1.13	36.0	71.24	Comp	48.37	L 1XY	262.164	W 45	542.051	0.000	0.000	0.000	25.095	0	0.000	0
Leg S2	L 8" x 8" x 1.125"	SAE	8X8X1.13	36.0	60.63	Comp	42.18	L 2XY	228.645	W 45	542.051	0.000	0.000	0.000	25.095	0	0.000	0

Leg S3	L 8" x 8" x 1.125"	SAE	8X8X1.13	36.0	52.51	Comp	36.45	L 3XY	197.592	W 45	542.051	0.000	0.000	0.000	25.095	0	0.000	0
Leg S4	L 8" x 8" x 1"	SAE	8X8X1	36.0	49.16	Comp	34.31	L 4XY	166.728	W 45	485.999	0.000	0.000	0.000	25.095	0	0.000	0
Leg S5	L 8" x 8" x 0.875"	SAE	8X8X0.88	36.0	55.54	Comp	38.00	L 5XY	162.901	W 45	428.651	0.000	0.000	0.000	25.095	0	0.000	0
Leg S6	L 8" x 8" x 0.875"	SAE	8X8X0.88	36.0	46.22	Comp	31.26	L 6XY	133.985	W 45	428.651	0.000	0.000	0.000	25.095	0	0.000	0
Leg S7	L 8" x 8" x 0.75"	SAE	8X8X0.75	36.0	42.96	Comp	28.65	L 7XY	106.179	W 45	370.655	0.000	0.000	0.000	25.095	0	0.000	0
Leg S8	L 8" x 8" x 0.625"	SAE	8X8X0.63	36.0	39.59	Comp	25.32	L 8XY	78.839	W 45	311.364	0.000	0.000	0.000	25.095	0	0.000	0
Leg S9	L 6" x 6" x 0.75"	SAE	6X6X0.75	36.0	38.52	Comp	24.17	L 9XY	66.096	W 45	273.456	0.000	0.000	0.000	12.547	0	0.000	0
Leg S10	L 6" x 6" x 0.75"	SAE	6X6X0.75	36.0	31.61	Comp	19.47	L 10XY	53.254	W 45	273.456	0.000	0.000	0.000	12.547	0	0.000	0
Leg S11	L 6" x 6" x 0.5625"	SAE	6X6X0.56	36.0	33.48	Comp	19.43	L 11XY	40.484	W 45	208.332	0.000	0.000	0.000	12.547	0	0.000	0
Leg S12	L 6" x 6" x 0.5625"	SAE	6X6X0.56	36.0	25.55	Comp	13.76	L 12XY	28.658	W 45	208.332	0.000	0.000	0.000	12.547	0	0.000	0
Leg S13	L 6" x 6" x 0.4375"	SAE	6X6X0.44	36.0	22.80	Comp	10.47	L 13XY	17.166	W 45	163.944	0.000	0.000	0.000	12.547	0	0.000	0
Leg S14	L 5" x 5" x 0.4375"	SAE	5X5X0.44	36.0	20.93	Comp	9.67	L 14XY	13.098	W 45	135.432	0.000	0.000	0.000	10.206	0	0.000	0
Leg S15	L 5" x 5" x 0.4375"	SAE	5X5X0.44	36.0	13.78	Comp	4.45	L 15XY	6.033	W 45	135.432	0.000	0.000	0.000	10.206	0	0.000	0
Leg S16	L 5" x 5" x 0.3125"	SAE	5X5X0.31	36.0	9.85	Comp	2.46	L 16XY	2.410	W 45	98.172	0.000	0.000	0.000	8.616	0	0.000	0
Leg S17	L 5" x 5" x 0.3125"	SAE	5X5X0.31	36.0	4.95	Comp	0.00	L 17Y	0.000		98.172	0.000	0.000	0.000	8.616	0	0.000	0
Diag S1	B/B L3"x4"x0.3125"	DAS	4X3X0.31	36.0	56.05	Comp	28.72	D 2P	38.902	W -90	135.432	0.000	0.000	0.000	21.786	0	0.000	0
Diag S2	B/B L3"x3.5"x0.25"	DAS	3.5X3X0.25	36.0	60.90	Comp	40.98	D 4P	41.562	W -90	101.412	0.000	0.000	0.000	20.916	0	0.000	0
Diag S3	B/B L2.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	36.0	77.38	Comp	44.31	D 6P	41.351	W -90	93.312	0.000	0.000	0.000	20.550	0	0.000	0
Diag S4	B/B L2.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	36.0	78.26	Comp	43.47	D 8P	40.563	W -90	93.312	0.000	0.000	0.000	20.204	0	0.000	0
Diag S5	B/B L3"x4"x0.25"	DAS	4X3X0.25	36.0	53.83	Comp	25.36	D 9P	27.767	W -90	109.512	0.000	0.000	0.000	30.178	0	0.000	0
Diag S6	B/B L3"x4"x0.25"	DAS	4X3X0.25	36.0	50.35	Comp	24.71	D 11P	27.060	W -90	109.512	0.000	0.000	0.000	29.346	0	0.000	0
Diag S7	B/B L3"x4"x0.25"	DAS	4X3X0.25	36.0	44.70	Comp	23.00	D 13P	25.184	W -90	109.512	0.000	0.000	0.000	28.573	0	0.000	0
Diag S8	B/B L3.5"x3.5"x0.25"	DAE	3.5X3.5X0.25	36.0	48.69	Comp	22.16	D 15P	24.265	W -90	109.512	0.000	0.000	0.000	27.864	0	0.000	0
Diag S9	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	26.00	Comp	17.73	D 17P	13.675	W -90	77.112	0.000	0.000	0.000	16.451	0	0.000	0
Diag S10	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	45.38	Comp	16.25	D 19X	12.530	W 90	77.112	0.000	0.000	0.000	15.962	0	0.000	0
Diag S11	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	66.78	Comp	18.32	D 21X	12.644	W 90	69.012	0.000	0.000	0.000	15.495	0	0.000	0
Diag S12	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	59.32	Comp	15.95	D 24Y	11.004	W 0	69.012	0.000	0.000	0.000	15.054	0	0.000	0
Diag S13	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	54.26	Comp	15.29	D 26Y	10.555	W 0	69.012	0.000	0.000	0.000	14.641	0	0.000	0
Diag S14	L 3.5" x 3.5" x 0.25"	SAE	3.5X3.5X0.25	36.0	25.95	Comp	8.83	D 28X	4.834	W 90	54.756	0.000	0.000	0.000	16.514	0	0.000	0
Diag S15	L 3.5" x 3.5" x 0.25"	SAE	3.5X3.5X0.25	36.0	17.81	Comp	6.35	D 29Y	3.474	W 0	54.756	0.000	0.000	0.000	15.546	0	0.000	0
Diag S16	L 3" x 3" x 0.25"	SAE	3X3X0.25	36.0	14.09	Comp	4.70	D 31Y	2.193	W 0	46.656	0.000	0.000	0.000	13.640	0	0.000	0
Diag S17	L 3" x 3" x 0.25"	SAE	3X3X0.25	36.0	10.20	Comp	3.51	D 33Y	1.638	W 0	46.656	0.000	0.000	0.000	12.836	0	0.000	0
Horiz 1	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	57.16	Comp	41.13	H 1X	38.375	W -90	93.312	0.000	0.000	0.000	21.458	0	0.000	0
Horiz 2	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	43.52	Tens	43.52	H 3X	40.613	W -90	93.312	0.000	0.000	0.000	13.278	0	0.000	0
Horiz 3	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	40.88	Tens	40.88	H 5X	38.147	W -90	93.312	0.000	0.000	0.000	12.250	0	0.000	0
Horiz 4	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	53.69	Comp	40.04	H 7P	34.115	W 90	85.212	0.000	0.000	0.000	11.222	0	0.000	0
Horiz 5	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	53.64	Comp	18.07	H 9P	15.402	W 90	85.212	0.000	0.000	0.000	15.292	0	0.000	0
Horiz 6	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	41.95	Comp	16.11	H 11P	13.726	W 90	85.212	0.000	0.000	0.000	13.750	0	0.000	0
Horiz 7	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	44.74	Comp	14.98	H 13P	11.548	W 90	77.112	0.000	0.000	0.000	12.208	0	0.000	0
Horiz 8	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	32.84	Comp	13.56	H 15P	10.458	W 90	77.112	0.000	0.000	0.000	10.667	0	0.000	0
Horiz 9	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	26.24	Comp	11.75	H 17P	9.061	W 90	77.112	0.000	0.000	0.000	9.896	0	0.000	0
Horiz 10	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	19.75	Comp	10.13	H 19P	7.810	W 90	77.112	0.000	0.000	0.000	9.125	0	0.000	0
Horiz 11	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	17.26	Comp	9.61	H 22P	7.409	W 0	77.112	0.000	0.000	0.000	8.354	0	0.000	0
Horiz 12	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	13.27	Comp	8.43	H 24P	6.497	W 0	77.112	0.000	0.000	0.000	7.583	0	0.000	0
Horiz 13	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	9.19	Comp	7.58	H 25X	5.844	W -90	77.112	0.000	0.000	0.000	6.813	0	0.000	0
Horiz 14	L 3" x 2.5" x 0.25"	SAU	3X2.5X0.25	36.0	6.00	Tens	6.00	H 28P	2.546	W 45	42.444	0.000	0.000	0.000	12.371	0	0.000	0
Horiz 15	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	1.73	Tens	1.73	H 29P	1.471	W 0	85.212	0.000	0.000	0.000	11.117	0	0.000	0
Horiz 16	L 3" x 2.5" x 0.25"	SAU	3X2.5X0.25	36.0	2.36	Tens	2.36	H 31P	1.001	W 0	42.444	0.000	0.000	0.000	10.059	0	0.000	0
Horiz 17	C8x11.5	CHN	C8x11.5	36.0	1.00	Comp	0.48	H 33P	0.523	W 90	109.512	0.000	0.000	0.000	9.000	0	0.000	0
LD 1	B/B L3"x2"x0.25"	DAL	3X2X0.25	36.0	48.74	Comp	23.98	LD 2Y	18.489	W -45	77.112	0.000	0.000	0.000	12.836	0	0.000	0
LD 2	B/B L4"x3"x0.25"	DAL	4X3X0.25	36.0	56.41	Comp	39.19	LD 3P	42.914	W -90	109.512	0.000	0.000	0.000	12.836	0	0.000	0
LD 4	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	75.82	Comp	29.84	LD 7P	20.595	W -90	69.012	0.000	0.000	0.000	11.516	0	0.000	0
LD 5	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	61.38	Comp	40.08	LD 9P	27.658	W -90	69.012	0.000	0.000	0.000	8.187	0	0.000	0
LD 6	B/B L3"x3"x0.25"	DAE	3X3X0.25	36.0	51.20	Comp	38.37	LD 11X	35.806	W -90	93.312	0.000	0.000	0.000	9.681	0	0.000	0
LD 7	B/B L3"x3"x0.25"	DAE	3X3X0.25	36.0	41.31	Comp	21.64	LD 14Y	20.189	W -45	93.312	0.000	0.000	0.000	10.941	0	0.000	0
LD 8	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	60.64	Comp	39.99	LD 15P	27.596	W -90	69.012	0.000	0.000	0.000	8.044	0	0.000	0
LD 9	B/B L3"x2"x0.25"	DAL	3X2X0.25	36.0	59.28	Comp	45.02	LD 17X	34.720	W -90	77.112	0.000	0.000	0.000	9.336	0	0.000	0
LD 10	B/B L3"x3"x0.25"	DAE	3X3X0.25	36.0	39.23	Comp	21.49	LD 20Y	20.055	W -45	93.312	0.000	0.000	0.000	10.387	0	0.000	0
LD 11	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	59.42	Comp	39.21	LD 21P	27.061	W -90	69.012	0.000	0.000	0.000	7.909	0	0.000	0
LD 12	B/B L2.5"x2.5"x0.375"	DAE	2.5X2.5X0.38	36.0	48.82	Comp	29.96	LD 23X	33.688	W -90	112.428	0.000	0.000	0.000	9.008	0	0.000	0
LH 1	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	10.81	Tens	10.81	LH 1Y	9.211	W 0	85.212	0.000	0.000	0.000	21.458	0	0.000	0
LH 2	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	87.21	Comp	26.69	LH 3P	22.742	W -90	85.212	0.000	0.000	0.000	10.808	0	0.000	0
LH 3	B/B L2.5"x3"x0.375"	DAS	3X2.5X0.38	36.0	49.83	Comp	17.47	LH 6Y	21.733	W -45	124.416	0.000	0.000	0.000	10.005	0	0.000	0
LH 4	B/B L3.5"x3.5"x0.25"	DAE	3.5X3.5X0.25	36.0	45.17	Comp	18.95	LH 8Y	20.754	W -45	109.512	0.000	0.000	0.000	9.202	0	0.000	0
DUM 1	Dummy Bracing Member	DUM	0.1X0.1X1	36.0	0.00		0.00	BR 11X	0.869	W -45	0.324	0.000	0.000	0.000	19.445	0	0.000	0

*** Maximum Stress Summary for Each Load Case

Summary of Maximum Usages by Load Case:

Load Case	Maximum Usage %	Element Label	Element Type
W 0	84.35	LH 4P	Angle
W 180	84.73	LH 4Y	Angle
W 45	84.58	LH 3P	Angle
W -45	87.21	LH 3X	Angle
W 90	85.04	LH 3P	Angle
W -90	85.30	LH 3X	Angle
W 0 Ice	30.88	LH 4P	Angle
W 180 Ice	31.73	LH 4Y	Angle
W 45 Ice	33.48	L 1P	Angle
W -45 Ice	32.61	L 1X	Angle
W 90 Ice	31.17	LH 3P	Angle
W -90 Ice	31.85	LH 3X	Angle

*** Weight of structure (lbs):

Weight of Angles*Section DLF:	146562.4
Weight of Equipment:	1109.0
Total:	147671.4

*** End of Report

Site #:	88018	Engineer:	RDB	Windspeed:	No Ice:	117 mph	Ice:	50 mph	Taper:	-0.123333	
Name:	Stamford (Katoona), CT	Date:	07/02/21	Carrier	Verizon Wireless				FW @ Base:	46.00	ft

Taper Change:	300	ft
FW @ Top:	9	ft

Spreadsheet Version Last Updated: 11/12/2014

Joint Label	Symmetry Code	X Coord. (ft)	Y Coord. (ft)	Z Coord. (ft)	X Disp. Rest.	Y Disp. Rest.	Z Disp. Rest.	X Rot. Rest.	Y Rot. Rest.	Z Rot. Rest.	Drop Sub-Brace (Y or Blank)
0	XY-Symmetry	23	23	0	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	
1	XY-Symmetry	21.45833333	21.45833333	25	Free	Free	Free	Free	Free	Free	
2	XY-Symmetry	19.91666667	19.91666667	50	Free	Free	Free	Free	Free	Free	
3	XY-Symmetry	18.375	18.375	75	Free	Free	Free	Free	Free	Free	
4	XY-Symmetry	16.83333333	16.83333333	100	Free	Free	Free	Free	Free	Free	
5	XY-Symmetry	15.29166667	15.29166667	125	Free	Free	Free	Free	Free	Free	
6	XY-Symmetry	13.75	13.75	150	Free	Free	Free	Free	Free	Free	
7	XY-Symmetry	12.20833333	12.20833333	175	Free	Free	Free	Free	Free	Free	
8	XY-Symmetry	10.66666667	10.66666667	200	Free	Free	Free	Free	Free	Free	
9	XY-Symmetry	9.895833333	9.895833333	212.5	Free	Free	Free	Free	Free	Free	
10	XY-Symmetry	9.125	9.125	225	Free	Free	Free	Free	Free	Free	
11	XY-Symmetry	8.354166667	8.354166667	237.5	Free	Free	Free	Free	Free	Free	
12	XY-Symmetry	7.583333333	7.583333333	250	Free	Free	Free	Free	Free	Free	
13	XY-Symmetry	6.8125	6.8125	262.5	Free	Free	Free	Free	Free	Free	
14	XY-Symmetry	6.185535	6.185535	272.667	Free	Free	Free	Free	Free	Free	
15	XY-Symmetry	5.55857	5.55857	282.834	Free	Free	Free	Free	Free	Free	
16	XY-Symmetry	5.029285	5.029285	291.417	Free	Free	Free	Free	Free	Free	
17	XY-Symmetry	4.5	4.5	300	Free	Free	Free	Free	Free	Free	
A1	Y-Symmetry	21.45833333	0	25	Free	Free	Free	Free	Free	Free	
A2	X-Symmetry	0	21.45833333	25	Free	Free	Free	Free	Free	Free	
A3	XY-Symmetry	19.91666667	6.638888889	50	Free	Free	Free	Free	Free	Free	
A4	XY-Symmetry	6.638888889	19.91666667	50	Free	Free	Free	Free	Free	Free	
A5	XY-Symmetry	18.375	6.125	75	Free	Free	Free	Free	Free	Free	
A6	XY-Symmetry	6.125	18.375	75	Free	Free	Free	Free	Free	Free	
A7	XY-Symmetry	16.83333333	5.611111111	100	Free	Free	Free	Free	Free	Free	
A8	XY-Symmetry	5.611111111	16.83333333	100	Free	Free	Free	Free	Free	Free	
A9	Y-Symmetry	15.29166667	0	125	Free	Free	Free	Free	Free	Free	
A10	X-Symmetry	0	15.29166667	125	Free	Free	Free	Free	Free	Free	
A11	Y-Symmetry	13.75	0	150	Free	Free	Free	Free	Free	Free	
A12	X-Symmetry	0	13.75	150	Free	Free	Free	Free	Free	Free	
A13	Y-Symmetry	12.20833333	0	175	Free	Free	Free	Free	Free	Free	
A14	X-Symmetry	0	12.20833333	175	Free	Free	Free	Free	Free	Free	
A15	Y-Symmetry	10.66666667	0	200	Free	Free	Free	Free	Free	Free	
A16	X-Symmetry	0	10.66666667	200	Free	Free	Free	Free	Free	Free	
A17	Y-Symmetry	9.895833333	0	212.5	Free	Free	Free	Free	Free	Free	
A18	X-Symmetry	0	9.895833333	212.5	Free	Free	Free	Free	Free	Free	
A19	Y-Symmetry	9.125	0	225	Free	Free	Free	Free	Free	Free	
A20	X-Symmetry	0	9.125	225	Free	Free	Free	Free	Free	Free	
A21	Y-Symmetry	8.354166667	0	237.5	Free	Free	Free	Free	Free	Free	
A22	X-Symmetry	0	8.354166667	237.5	Free	Free	Free	Free	Free	Free	
A23	Y-Symmetry	7.583333333	0	250	Free	Free	Free	Free	Free	Free	
A24	X-Symmetry	0	7.583333333	250	Free	Free	Free	Free	Free	Free	
A25	Y-Symmetry	6.8125	0	262.5	Free	Free	Free	Free	Free	Free	
A26	X-Symmetry	0	6.8125	262.5	Free	Free	Free	Free	Free	Free	
H1	XY-Symmetry	21.892035	10.72916667	17.967	Free	Free	Free	Free	Free	Free	
H2	XY-Symmetry	10.72916667	21.892035	17.967	Free	Free	Free	Free	Free	Free	
H5	XY-Symmetry	20.35036833	10.807895	42.967	Free	Free	Free	Free	Free	Free	
H6	XY-Symmetry	10.807895	20.35036833	42.967	Free	Free	Free	Free	Free	Free	
H7	Y-Symmetry	20.35036833	0	42.967	Free	Free	Free	Free	Free	Free	
H8	X-Symmetry	0	20.35036833	42.967	Free	Free	Free	Free	Free	Free	
H9	XY-Symmetry	18.80870167	10.00487167	67.967	Free	Free	Free	Free	Free	Free	
H10	XY-Symmetry	10.00487167	18.80870167	67.967	Free	Free	Free	Free	Free	Free	
H11	Y-Symmetry	18.80870167	0	67.967	Free	Free	Free	Free	Free	Free	
H12	X-Symmetry	0	18.80870167	67.967	Free	Free	Free	Free	Free	Free	
H13	XY-Symmetry	17.267035	9.201848333	92.967	Free	Free	Free	Free	Free	Free	
H14	XY-Symmetry	9.201848333	17.267035	92.967	Free	Free	Free	Free	Free	Free	
H15	Y-Symmetry	17.267035	0	92.967	Free	Free	Free	Free	Free	Free	
H16	X-Symmetry	0	17.267035	92.967	Free	Free	Free	Free	Free	Free	

# Vert	Drop (ft)	Height (ft)	Type	Count	Z-Elev. (ft)	FW (ft)	# Sub-Brace
3	7.033	25	1	1	0	46	3
2	7.033	25	2	2	25	42.91666667	3
2	7.033	25	2	3	50	39.83333333	3
2	7.033	25	2	4	75	36.75	3
		25	A	5	100	33.66666667	2
		25	A	6	125	30.58333333	2
		25	A	7	150	27.5	2
		25	A	8	175	24.41666667	2
		12.5	A	9	200	21.33333333	1
		12.5	A	10	212.5	19.79166667	1
		12.5	A	11	225	18.25	1
		12.5	A	12	237.5	16.70833333	1
		12.5	A	13	250	15.16666667	1
1		10.167	X	14	262.5	13.625	1
1		10.167	X	15	272.667	12.37107	1
1		8.583	X	16	282.834	11.11714	1
		8.583	X	17	291.417	10.05857	1
				18	300	9	

NOTES	
Types:	
1:	Built up Horizs. w/ A
2:	Built up Horizs. w/ M
A:	Typical A brace
X:	Typical X brace
Drop:	Use only for types 1 & 2
# Sections:	17

Legs

Site No.:	88018
Engineer:	RDB
Date:	07/02/2021
Carrier:	Verizon Wireless

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape	Diameter or Length (in)	Thickness [2] (in)	F_Y (ksi)
1	0.000-25.00	L	8	1.125	36
2	25.00-50.00	L	8	1.125	36
3	50.00-75.00	L	8	1.125	36
4	75.00-100.0	L	8	1	36
5	100.0-125.0	L	8	0.875	36
6	125.0-150.0	L	8	0.875	36
7	150.0-175.0	L	8	0.75	36
8	175.0-200.0	L	8	0.625	36
9	200.0-212.5	L	6	0.75	36
10	212.5-225.0	L	6	0.75	36
11	225.0-237.5	L	6	0.5625	36
12	237.5-250.0	L	6	0.5625	36
13	250.0-262.5	L	6	0.4375	36
14	262.5-272.7	L	5	0.4375	36
15	272.7-282.8	L	5	0.4375	36
16	282.8-291.4	L	5	0.3125	36
17	291.4-300.0	L	5	0.3125	36

Notes:

[1] Type of Leg Shape: **R** = Round or **P** = Bent Plate or **S** = Schifflerized Angle. **L** = Even Leg

[2] For Solid Round Leg Shapes Thickness Equals Zero.

[3] Adjust for Bent Plate Leg Shapes.

Diagonals

Site No.:	88018
Engineer:	RDB
Date:	07/02/2021
Carrier:	Verizon Wireless

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations *(ft)*	Type of Shape [1]	Diameter [2] *(in)*	Web Length [3] *(in)*	Flange Length [3] *(in)*	Thickness *(in)*	F_y *(ksi)*	Is Diag. Tension Only? *(Y/N)*
1	0.000-25.00	2L		3	4	0.3125	36	
2	25.00-50.00	2L		3	3.5	0.25	36	
3	50.00-75.00	2L		2.5	3.5	0.25	36	
4	75.00-100.0	2L		2.5	3.5	0.25	36	
5	100.0-125.0	2L		3	4	0.25	36	
6	125.0-150.0	2L		3	4	0.25	36	
7	150.0-175.0	2L		3	4	0.25	36	
8	175.0-200.0	2L		3.5	3.5	0.25	36	
9	200.0-212.5	2L		2.5	2.5	0.25	36	
10	212.5-225.0	2L		2.5	2.5	0.25	36	
11	225.0-237.5	2L		2.5	2	0.25	36	
12	237.5-250.0	2L		2.5	2	0.25	36	
13	250.0-262.5	2L		2.5	2	0.25	36	
14	262.5-272.7	L		3.5	3.5	0.25	36	
15	272.7-282.8	L		3.5	3.5	0.25	36	
16	282.8-291.4	L		3	3	0.25	36	
17	291.4-300.0	L		3	3	0.25	36	

Notes:

[1] Type of Diagonal Shape: **R** = Round, **L** = Single-Angle or **2L** = Double-Angle.

[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero

[3] Applies to Single-Angle and Double-Angle Shapes only.

[4] Applies to Double-Angle Shapes only.

[5] Applies to Single-Angle Shapes only.

Horizontals

Site No.:	88018
Engineer:	RDB
Date:	07/02/2021
Carrier:	Verizon Wireless

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations *(ft)*	Type of Shape [1]	Diameter [2] *(in)*	Web Length [3] *(in)*	Flange Length [3] *(in)*	Thickness *(in)*	F_y *(ksi)*	B/B Spacing (in.)
1	0.000-25.00	2L		3.5	2.5	0.25	36	
2	25.00-50.00	2L		3.5	2.5	0.25	36	
3	50.00-75.00	2L		3.5	2.5	0.25	36	
4	75.00-100.0	2L		3	2.5	0.25	36	
5	100.0-125.0	2L		3	2.5	0.25	36	
6	125.0-150.0	2L		3	2.5	0.25	36	
7	150.0-175.0	2L		2.5	2.5	0.25	36	
8	175.0-200.0	2L		2.5	2.5	0.25	36	
9	200.0-212.5	2L		2.5	2.5	0.25	36	
10	212.5-225.0	2L		2.5	2.5	0.25	36	
11	225.0-237.5	2L		2.5	2.5	0.25	36	
12	237.5-250.0	2L		2.5	2.5	0.25	36	
13	250.0-262.5	2L		2.5	2.5	0.25	36	
14	262.5-272.7	L		3	2.5	0.25	36	
15	272.7-282.8	2L		3	2.5	0.25	36	
16	282.8-291.4	L		3	2.5	0.25	36	
17	291.4-300.0	C		8	11.5		36	

Notes:

[1] Type of Horizontal Shape: **R** = Round, **L** = Single-Angle, **2L** = Double-Angle, **C** = Channel, **W** = W Shape

[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero

[3] Applies to Single-Angle and Double-Angle Shapes only.

[4] Applies to Double-Angle Shapes only.

[5] Applies to Single-Angle Shapes only.

Built-up Diagonals

Site No.:	88018
Engineer:	RDB
Date:	07/02/2021
Carrier:	Verizon Wireless

When inputting thickness values, include all decimal places.
Input diags. from left to center & from base section upward.

Tower Built-up Diag. #	Section Elevations *(ft)*	Type of Shape	Diameter [2] *(in)*	Web Length [3] *(in)*	Flange Length [3] *(in)*	Thickness *(in)*	F_y *(ksi)*
1	0.000-25.00	2L		3	2	0.25	36
2	0.000-25.00	2L		4	3	0.25	36
3	25.00-50.00	2L		2.5	2	0.25	36
4	25.00-50.00	2L		2.5	2	0.25	36
5	25.00-50.00	2L		3	3	0.25	36
6	50.00-75.00	2L		3	3	0.25	36
7	50.00-75.00	2L		2.5	2	0.25	36
8	50.00-75.00	2L		3	2	0.25	36
9	75.00-100.0	2L		3	3	0.25	36
10	75.00-100.0	2L		2.5	2	0.25	36
11	75.00-100.0	2L		2.5	2.5	0.375	36

Notes:

[1] Type of Diagonal Shape: **R** = Round, **L** = Single-Angle or **2L** = Double-Angle.

[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.

[3] Applies to Single-Angle and Double-Angle Shapes only.

[4] Applies to Double-Angle Shapes only.

[5] Applies to Single-Angle Shapes only.

Built-up Horizontals

Site No.:	88018
Engineer:	RDB
Date:	07/02/2021
Carrier:	Verizon Wireless

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations *(ft)*	Type of Shape	Diameter [2] *(in)*	Web Length [3] *(in)*	Flange Length [3] *(in)*	Thickness *(in)*	F_y *(ksi)*	Is Horiz. Tension Only? *(Y/N)*
1	0.000-25.00	2L		2.5	3	0.25	36	Y
2	25.00-50.00	2L		2.5	3	0.25	36	
3	50.00-75.00	2L		2.5	3	0.375	36	
4	75.00-100.0	2L		3.5	3.5	0.25	36	

Notes:

[1] Type of Horizontal Shape: **R** = Round, **L** = Single-Angle or **2L** = Double-Angle.

[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero

[3] Applies to Single-Angle and Double-Angle Shapes only.

[4] Applies to Double-Angle Shapes only.

[5] Applies to Single-Angle Shapes only.

Site #:	88018
Name:	Verizon Wireless

Engineer:	RDB
Date:	07/02/21

Member Label	Group Label	Section Label	Symmetry Code	Origin Joint	End Joint	Ecc. Code	Rest. Code	Ratio RLX	Ratio RLY	Ratio RLZ
L 1	Leg S1		XY-Symmetry	0P	1P	1	4	0.28132	0.28132	0.28132
L 2	Leg S2		XY-Symmetry	1P	2P	1	4	0.28132	0.28132	0.28132
L 3	Leg S3		XY-Symmetry	2P	3P	1	4	0.28132	0.28132	0.28132
L 4	Leg S4		XY-Symmetry	3P	4P	1	4	0.28132	0.28132	0.28132
L 5	Leg S5		XY-Symmetry	4P	5P	1	4	0.333333333	0.333333333	0.333333333
L 6	Leg S6		XY-Symmetry	5P	6P	1	4	0.333333333	0.333333333	0.333333333
L 7	Leg S7		XY-Symmetry	6P	7P	1	4	0.333333333	0.333333333	0.333333333
L 8	Leg S8		XY-Symmetry	7P	8P	1	4	0.333333333	0.333333333	0.333333333
L 9	Leg S9		XY-Symmetry	8P	9P	1	4	0.5	0.5	0.5
L 10	Leg S10		XY-Symmetry	9P	10P	1	4	0.5	0.5	0.5
L 11	Leg S11		XY-Symmetry	10P	11P	1	4	0.5	0.5	0.5
L 12	Leg S12		XY-Symmetry	11P	12P	1	4	0.5	0.5	0.5
L 13	Leg S13		XY-Symmetry	12P	13P	1	4	0.5	0.5	0.5
L 14	Leg S14		XY-Symmetry	13P	14P	1	4	0.5	0.5	0.5
L 15	Leg S15		XY-Symmetry	14P	15P	1	4	0.5	0.5	0.5
L 16	Leg S16		XY-Symmetry	15P	16P	1	4	0.5	0.5	0.5
L 17	Leg S17		XY-Symmetry	16P	17P	1	4	0.5	0.5	0.5
D 1	Diag S1		XY-Symmetry	0P	H2P	1	6	0.31	0.92	0.31
D 2	Diag S1		XY-Symmetry	0P	H1P	1	6	0.31	0.92	0.31
D 3	Diag S2		XY-Symmetry	1P	H6P	1	6	0.31	0.62	0.31
D 4	Diag S2		XY-Symmetry	1P	H5P	1	6	0.31	0.62	0.31
D 5	Diag S3		XY-Symmetry	2P	H10P	1	6	0.333333333	0.666666667	0.333333333
D 6	Diag S3		XY-Symmetry	2P	H9P	1	6	0.333333333	0.666666667	0.333333333
D 7	Diag S4		XY-Symmetry	3P	H14P	1	6	0.333333333	0.666666667	0.333333333
D 8	Diag S4		XY-Symmetry	3P	H13P	1	6	0.333333333	0.666666667	0.333333333
D 9	Diag S5		XY-Symmetry	4P	A9P	1	6	0.333333333	0.666666667	0.333333333
D 10	Diag S5		XY-Symmetry	4P	A10P	1	6	0.333333333	0.666666667	0.333333333
D 11	Diag S6		XY-Symmetry	5P	A11P	1	6	0.333333333	0.666666667	0.333333333
D 12	Diag S6		XY-Symmetry	5P	A12P	1	6	0.333333333	0.666666667	0.333333333
D 13	Diag S7		XY-Symmetry	6P	A13P	1	6	0.333333333	0.666666667	0.333333333
D 14	Diag S7		XY-Symmetry	6P	A14P	1	6	0.333333333	0.666666667	0.333333333
D 15	Diag S8		XY-Symmetry	7P	A15P	1	6	0.333333333	0.666666667	0.333333333
D 16	Diag S8		XY-Symmetry	7P	A16P	1	6	0.333333333	0.666666667	0.333333333
D 17	Diag S9		XY-Symmetry	8P	A17P	1	6	0.32	0.59	0.32
D 18	Diag S9		XY-Symmetry	8P	A18P	1	6	0.32	0.59	0.32
D 19	Diag S10		XY-Symmetry	9P	A19P	1	6	0.5	1	0.5
D 20	Diag S10		XY-Symmetry	9P	A20P	1	6	0.5	1	0.5
D 21	Diag S11		XY-Symmetry	10P	A21P	1	6	0.48	0.96	0.48
D 22	Diag S11		XY-Symmetry	10P	A22P	1	6	0.48	0.96	0.48
D 23	Diag S12		XY-Symmetry	11P	A23P	1	6	0.5	1	0.5
D 24	Diag S12		XY-Symmetry	11P	A24P	1	6	0.5	1	0.5
D 25	Diag S13		XY-Symmetry	12P	A25P	1	6	0.5	1	0.5
D 26	Diag S13		XY-Symmetry	12P	A26P	1	6	0.5	1	0.5
D 27	Diag S14		XY-Symmetry	13P	14Y	2	5	0.52	0.52	0.52
D 28	Diag S14		XY-Symmetry	13P	14X	2	5	0.52	0.52	0.52
D 29	Diag S15		XY-Symmetry	14P	15Y	2	5	0.52	0.52	0.52
D 30	Diag S15		XY-Symmetry	14P	15X	2	5	0.52	0.52	0.52
D 31	Diag S16		XY-Symmetry	15P	16Y	2	5	0.52	0.52	0.52
D 32	Diag S16		XY-Symmetry	15P	16X	2	5	0.52	0.52	0.52
D 33	Diag S17		XY-Symmetry	16P	17Y	2	5	0.52	0.52	0.52
D 34	Diag S17		XY-Symmetry	16P	17X	2	5	0.52	0.52	0.52
H 1	Horiz 1		XY-Symmetry	1P	A1P	1	6	0.48	0.48	0.48
H 2	Horiz 1		XY-Symmetry	1P	A2P	1	6	0.48	0.48	0.48
H 3	Horiz 2		XY-Symmetry	2P	A3P	1	6	0.5	0.5	0.5
H 4	Horiz 2		XY-Symmetry	2P	A4P	1	6	0.5	0.5	0.5
H 5	Horiz 3		XY-Symmetry	3P	A5P	1	6	0.5	0.5	0.5
H 6	Horiz 3		XY-Symmetry	3P	A6P	1	6	0.5	0.5	0.5
H 7	Horiz 4		XY-Symmetry	4P	A7P	1	6	0.47	0.94	0.47
H 8	Horiz 4		XY-Symmetry	4P	A8P	1	6	0.47	0.94	0.47
H 9	Horiz 5		XY-Symmetry	5P	A9P	1	6	1	1	1
H 10	Horiz 5		XY-Symmetry	5P	A10P	1	6	1	1	1
H 11	Horiz 6		XY-Symmetry	6P	A11P	1	6	1	1	1
H 12	Horiz 6		XY-Symmetry	6P	A12P	1	6	1	1	1
H 13	Horiz 7		XY-Symmetry	7P	A13P	1	6	1	1	1
H 14	Horiz 7		XY-Symmetry	7P	A14P	1	6	1	1	1
H 15	Horiz 8		XY-Symmetry	8P	A15P	1	6	1	1	1
H 16	Horiz 8		XY-Symmetry	8P	A16P	1	6	1	1	1
H 17	Horiz 9		XY-Symmetry	9P	A17P	1	6	1	1	1
H 18	Horiz 9		XY-Symmetry	9P	A18P	1	6	1	1	1
H 19	Horiz 10		XY-Symmetry	10P	A19P	1	6	1	1	1
H 20	Horiz 10		XY-Symmetry	10P	A20P	1	6	1	1	1
H 21	Horiz 11		XY-Symmetry	11P	A21P	1	6	1	1	1
H 22	Horiz 11		XY-Symmetry	11P	A22P	1	6	1	1	1

Member Label	Group Label	Section Label	Symmetry Code	Origin Joint	End Joint	Ecc. Code	Rest. Code	Ratio RLX	Ratio RLY	Ratio RLZ
H 23	Horiz 12		XY-Symmetry	12P	A23P	1	6	1	1	1
H 24	Horiz 12		XY-Symmetry	12P	A24P	1	6	1	1	1
H 25	Horiz 13		XY-Symmetry	13P	A25P	1	6	1	1	1
H 26	Horiz 13		XY-Symmetry	13P	A26P	1	6	1	1	1
H 27	Horiz 14		Y-Symmetry	14P	14X	3	5	0.5	1	0.5
H 28	Horiz 14		X-Symmetry	14P	14Y	3	5	0.5	1	0.5
H 29	Horiz 15		Y-Symmetry	15P	15X	1	6	0.5	1	0.5
H 30	Horiz 15		X-Symmetry	15P	15Y	1	6	0.5	1	0.5
H 31	Horiz 16		Y-Symmetry	16P	16X	3	5	0.5	1	0.5
H 32	Horiz 16		X-Symmetry	16P	16Y	3	5	0.5	1	0.5
H 33	Horiz 17		Y-Symmetry	17P	17X	3	5	1	1	1
H 34	Horiz 17		X-Symmetry	17P	17Y	3	5	1	1	1
H 37	Horiz 2		Y-Symmetry	A3P	A3X	1	6	0.5	1	0.5
H 38	Horiz 2		X-Symmetry	A4P	A4Y	1	6	0.5	1	0.5
H 39	Horiz 3		Y-Symmetry	A5P	A5X	1	6	0.5	1	0.5
H 40	Horiz 3		X-Symmetry	A6P	A6Y	1	6	0.5	1	0.5
H 41	Horiz 4		Y-Symmetry	A7P	A7X	1	6	0.5	1	0.5
H 42	Horiz 4		X-Symmetry	A8P	A8Y	1	6	0.5	1	0.5
LH 1	LH 1		Y-Symmetry	H1P	H1X	1	6	100	100	100
LH 2	LH 1		X-Symmetry	H2P	H2Y	1	6	100	100	100
LH 3	LH 2		XY-Symmetry	H5P	H7P	1	6	1	2	1
LH 4	LH 2		XY-Symmetry	H6P	H8P	1	6	1	2	1
LH 5	LH 3		XY-Symmetry	H9P	H11P	1	6	1	2	1
LH 6	LH 3		XY-Symmetry	H10P	H12P	1	6	1	2	1
LH 7	LH 4		XY-Symmetry	H13P	H15P	1	6	0.998	1.995	0.998
LH 8	LH 4		XY-Symmetry	H14P	H16P	1	6	0.998	1.995	0.998
LD 1	LD 1		XY-Symmetry	H1P	1P	1	6	0.85	0.85	0.85
LD 2	LD 1		XY-Symmetry	H2P	1P	1	6	0.85	0.85	0.85
LD 3	LD 2		XY-Symmetry	H1P	A1P	1	6	0.82	0.82	0.82
LD 4	LD 2		XY-Symmetry	H2P	A2P	1	6	0.82	0.82	0.82
LD 7	LD 4		XY-Symmetry	H5P	2P	1	6	0.87	0.87	0.87
LD 8	LD 4		XY-Symmetry	H6P	2P	1	6	0.87	0.87	0.87
LD 9	LD 5		XY-Symmetry	H5P	A3P	1	6	0.8	0.8	0.8
LD 10	LD 5		XY-Symmetry	H6P	A4P	1	6	0.8	0.8	0.8
LD 11	LD 6		XY-Symmetry	A3P	H7P	1	6	0.84	0.84	0.84
LD 12	LD 6		XY-Symmetry	A4P	H8P	1	6	0.84	0.84	0.84
LD 13	LD 7		XY-Symmetry	H9P	3P	1	6	0.865	0.865	0.865
LD 14	LD 7		XY-Symmetry	H10P	3P	1	6	0.865	0.865	0.865
LD 15	LD 8		XY-Symmetry	H9P	A5P	1	6	0.82	0.82	0.82
LD 16	LD 8		XY-Symmetry	H10P	A6P	1	6	0.82	0.82	0.82
LD 17	LD 9		XY-Symmetry	A5P	H11P	1	6	0.82	0.82	0.82
LD 18	LD 9		XY-Symmetry	A6P	H12P	1	6	0.82	0.82	0.82
LD 19	LD 10		XY-Symmetry	H13P	4P	1	6	0.86	0.86	0.86
LD 20	LD 10		XY-Symmetry	H14P	4P	1	6	0.86	0.86	0.86
LD 21	LD 11		XY-Symmetry	H13P	A7P	1	6	0.82	0.82	0.82
LD 22	LD 11		XY-Symmetry	H14P	A8P	1	6	0.82	0.82	0.82
LD 23	LD 12		XY-Symmetry	A7P	H15P	1	6	0.85	0.85	0.85
LD 24	LD 12		XY-Symmetry	A8P	H16P	1	6	0.85	0.85	0.85
BR 1	DUM 1		XY-Symmetry	A1P	A2P	1	4	1	1	1
BR 3	DUM 1		XY-Symmetry	A3P	A4P	1	4	1	1	1
BR 4	DUM 1		XY-Symmetry	A3P	A4XY	1	4	1	1	1
BR 5	DUM 1		XY-Symmetry	A5P	A6P	1	4	1	1	1
BR 6	DUM 1		XY-Symmetry	A5P	A6XY	1	4	1	1	1
BR 7	DUM 1		XY-Symmetry	A7P	A8P	1	4	1	1	1
BR 8	DUM 1		XY-Symmetry	A7P	A8XY	1	4	1	1	1
BR 9	DUM 1		XY-Symmetry	A9P	A10P	1	4	1	1	1
BR 11	DUM 1		XY-Symmetry	A11P	A12P	1	4	1	1	1
BR 13	DUM 1		XY-Symmetry	A13P	A14P	1	4	1	1	1
BR 15	DUM 1		XY-Symmetry	A15P	A16P	1	4	1	1	1
BR 17	DUM 1		XY-Symmetry	A17P	A18P	1	4	1	1	1
BR 19	DUM 1		XY-Symmetry	A19P	A20P	1	4	1	1	1
BR 21	DUM 1		XY-Symmetry	A21P	A22P	1	4	1	1	1
BR 23	DUM 1		XY-Symmetry	A23P	A24P	1	4	1	1	1

Member Label	Group Label	Section Label	Symmetry Code	Origin Joint	End Joint	Ecc. Code	Rest. Code	Ratio RLX	Ratio RLY	Ratio RLZ
BR 25	DUM 1		XY-Symmetry	A25P	A26P	1	4	1	1	1
BR 61	DUM 1		XY-Symmetry	H1P	H2P	1	4	1	1	1
BR 62	DUM 1		XY-Symmetry	H1P	H2XY	1	4	1	1	1
BR 64	DUM 1		XY-Symmetry	H5P	H6P	1	4	1	1	1
BR 65	DUM 1		XY-Symmetry	H5P	H6XY	1	4	1	1	1
BR 66	DUM 1		XY-Symmetry	H7P	H8P	1	4	1	1	1
BR 67	DUM 1		XY-Symmetry	H9P	H10P	1	4	1	1	1
BR 68	DUM 1		XY-Symmetry	H9P	H10XY	1	4	1	1	1
BR 69	DUM 1		XY-Symmetry	H11P	H12P	1	4	1	1	1
BR 70	DUM 1		XY-Symmetry	H13P	H14P	1	4	1	1	1
BR 71	DUM 1		XY-Symmetry	H13P	H14XY	1	4	1	1	1
BR 72	DUM 1		XY-Symmetry	H15P	H16P	1	4	1	1	1

Coax (p. 1 of 2)

Orig by MED, Improved by ABL. Last update 6/25/13 MED

Site No.:	88018
Engineer:	RDB
Date:	07/02/21
Carrier:	Verizon Wireless

Description	From (ft)	To (ft)	Quantity	Shape	Width or Diameter** (in)	Perimeter (in)	Unit Weight (lb/ft)	In Face Zone? (Yes/No)	Include in Wind Load (Yes/No)
1 Ladder	0	300	1	Flat	1.5	6.0	6	No	Yes
2 Short Ladder	8.3333	33.3333	2	Flat	1.5	6.0	6	Yes	Yes
3 Short Ladder	8.3333	33.3333	2	Flat	1.5	6.0	6	Yes	Yes
5 WG	5	300	1	Flat	1.5	6.0	6	Yes	Yes
6 WG	5	272	1	Flat	1.5	6.0	6	Yes	Yes
7 WG	5	235	1	Flat	1.5	6.0	6	Yes	Yes
8 WG	5	223	1	Flat	1.5	6.0	6	Yes	Yes
9 WG	5	160	1	Flat	1.5	6.0	6	Yes	Yes
10 Marcus Communications LLC	5	300	1	Round	1.55	4.9	0.63	No	Yes
11 Marcus Communications LLC	5	300	1	Round	1.98	6.2	0.82	No	Yes
12 Marcus Communications LLC	5	300	1	Round	1.09	3.4	0.33	No	Yes
13 Other	5	300	4	Round	0.63	2.0	0.15	No	Yes
14 Clearwire Corporation	5	300	5	Round	1.09	3.4	0.33	Yes	Yes
15 Sigfox S.A.	5	292	1	Round	1.09	3.4	0.33	Yes	Yes
16 US Dept Of Homeland Security	5	275	2	Round	1.09	3.4	0.33	Yes	Yes
17 XM Satellite Radio Inc.	5	268	1	Round	1.98	6.2	0.82	Yes	Yes
18 T-Mobile	5	265	3	Round	1.98	6.2	1.3	Yes	Yes
19 T-Mobile	5	265	1	Round	2.5	8.9	3.15	Yes	No
20 XM Satellite Radio Inc.	5	260	1	Round	5.02	15.8	1.85	Yes	No
21 US Dept Of Homeland Security	5	250	1	Round	1.09	3.4	0.33	Yes	Yes
22 US Dept Of Homeland Security	5	245	1	Round	1.09	3.4	0.33	Yes	Yes
23 AT&T Mobility	5	235	1	Flat	8.19	43.7	8.2	Yes	Yes
24 AT&T Mobility	5	235	1	Round	0.78	2.8	0.51	Yes	No
25 AT&T Mobility	5	235	2	Round	0.78	2.5	0.59	Yes	Yes
26 AT&T Mobility	5	235	1	Round	1.85	6.8	1.96	Yes	No
27 AT&T Mobility	5	235	1	Round	2.4	8.8	3.52	Yes	No
28 US Dept Of Homeland Security	5	210	1	Round	1.09	3.4	0.33	Yes	Yes
29 Marcus Communications LLC	5	200	2	Round	1.55	4.9	0.63	No	Yes
30 Spok Holdings, Inc.	5	193	2	Round	1.09	3.4	0.33	No	Yes
31 Spok Holdings, Inc.	5	193	1	Round	1.09	3.4	0.33	No	Yes
32 Clearwire Corporation	5	167	2	Round	2.38	7.5	3.65	Yes	Yes
33 Clearwire Corporation	5	167	6	Round	0.31	1.0	0.05	Yes	Yes
34 Metro PCS Inc	5	165	1	Flat	8.19	43.7	9.84	Yes	Yes
35 Metro PCS Inc	5	165	1	Round	0.38	1.2	0.23	Yes	Yes
36 Metro PCS Inc	5	165	1	Round	0.44	1.4	0.08	Yes	Yes
37 Sprint Nextel	5	155	3	Round	1	3.1	0.65	Yes	Yes
38 Sprint Nextel	5	155	3	Round	1.54	4.8	1	Yes	Yes
39 Sprint Nextel	5	155	1	Round	1.7	5.3	1.78	Yes	Yes
40 Sensus USA Inc.	5	142	1	Round	1.09	3.4	0.3	No	Yes
42 Senet, Inc.	5	135	1	Round	0.63	2.0	0.2	Yes	Yes
43 Spok Holdings, Inc.	5	120	1	Round	0.63	2.0	0.2	No	Yes
44 Marcus Communications LLC	5	107	1	Round	1.55	4.9	0.6	No	Yes
46 Verizon Wireless	5	92	3	Round	1.98	6.2	1.3	Yes	Yes
47 Sirius XM Radio Inc.	5	25	1	Round	1.09	3.4	0.3	Yes	Yes
48 Spok Holdings, Inc.	0	6	1	Round	0.63	2.0	0.2	No	Yes
49 Spok Holdings, Inc.	0	6	1	Round	0.34	1.1	0.1	No	Yes

**Note: *Actual block width multiplied by 0.75 (1.5 block drag factor actual divided by 2.0 flat*

Coax (p. 2 of 2)

Site No.:	880				
Engineer:	RD				
Date:	07/0				
Carrier:	Verizon				

Exposure: B
Tia Code: TIA-222-H Topo Cat: 1
f

Ke 0.998264
α 7 $k_{z\,max}$ 2.01
z_g 1200 $k_{z\,min}$ 0.7
K_c 0.9 K_t

Description	From (ft)	To (ft)	Quantity	Face # (1-4, A-D)	Coax Width (in)	Coax Shape (Block / Flat / Ind)	% Exposed	Spacing (in)	Shape (Round/Flat)	Block Width (# coax)	Block Depth (# coax)	Perimeter (in)	Unit Weight (lb/ft)	In Face Zone (Yes/No)	Include in Wind Load (Yes/No)
Ladder	0	300	1	B	1.50	Flat	100		Flat	1	1	6.0	6	No	Yes
Short Ladder	8.3333	33.3333	2	1	1.50	Flat	100		Flat	2	1	6.0	6	Yes	Yes
Short Ladder	8.3333	33.3333	2	3	1.50	Flat	100		Flat	2	1	6.0	6	Yes	Yes
														No	No
WG	5	300	1	2	1.50	Flat	100		Flat	1	1	6.0	6	Yes	Yes
WG	5	272	1	3	1.50	Flat	100		Flat	1	1	6.0	6	Yes	Yes
WG	5	235	1	1	1.50	Flat	100		Flat	1	1	6.0	6	Yes	Yes
WG	5	223	1	2	1.50	Flat	100		Flat	1	1	6.0	6	Yes	Yes
WG	5	160	1	1	1.50	Flat	100		Flat	1	1	6.0	6	Yes	Yes
Marcus Communications LLC	5	300	1	B	1.55	Ind	100		Round	1	1	4.9	0.63	No	Yes
Marcus Communications LLC	5	300	1	B	1.98	Ind	100		Round	1	1	6.2	0.82	No	Yes
Marcus Communications LLC	5	300	1	B	1.09	Ind	100		Round	1	1	3.4	0.33	No	Yes
Other	5	300	4	B	0.63	Ind	100		Round	4	1	2.0	0.15	No	Yes
Clearwire Corporation	5	300	5	2	1.09	Ind	100		Round	5	1	3.4	0.33	Yes	Yes
Sigfox S.A.	5	292	1	3	1.09	Ind	100		Round	1	1	3.4	0.33	Yes	Yes
US Dept Of Homeland Security	5	275	2	2	1.09	Ind	100		Round	2	1	3.4	0.33	Yes	Yes
XM Satellite Radio Inc.	5	268	1	4	1.98	Ind	100		Round	1	1	6.2	0.82	Yes	Yes
T-Mobile	5	265	3	4	1.98	Ind	100		Round	3	1	6.2	1.3	Yes	Yes
T-Mobile	5	265	3	4	1.25	Ind	0		Round	1	3	8.9	3.15	Yes	No
XM Satellite Radio Inc.	5	260	1	4	5.02	Ind	0		Round	1	1	15.8	1.85	Yes	No
US Dept Of Homeland Security	5	250	1	2	1.09	Ind	100		Round	1	1	3.4	0.33	Yes	Yes
US Dept Of Homeland Security	5	245	1	2	1.09	Ind	100		Round	1	1	3.4	0.33	Yes	Yes
AT&T Mobility	5	235	10	1	1.98	Block	60	1	Flat	6	2	43.7	8.2	Yes	Yes
AT&T Mobility	5	235	3	1	0.39	Ind	0		Round	1	3	2.8	0.51	Yes	No
AT&T Mobility	5	235	2	1	0.78	Ind	100		Round	2	1	2.5	0.59	Yes	Yes
AT&T Mobility	5	235	4	1	0.74	Ind	0		Round	1	4	6.8	1.96	Yes	No
AT&T Mobility	5	235	4	1	0.96	Ind	0		Round	1	4	8.8	3.52	Yes	No
US Dept Of Homeland Security	5	210	1	2	1.09	Ind	100		Round	1	1	3.4	0.33	Yes	Yes
Marcus Communications LLC	5	200	2	B	1.55	Ind	100		Round	2	1	4.9	0.63	No	Yes
Spok Holdings, Inc.	5	193	2	B	1.09	Ind	100		Round	2	1	3.4	0.33	No	Yes
Spok Holdings, Inc.	5	193	1	B	1.09	Ind	100		Round	1	1	3.4	0.33	No	Yes
Clearwire Corporation	5	167	2	2	2.38	Ind	100		Round	2	1	7.5	3.65	Yes	Yes
Clearwire Corporation	5	167	6	2	0.31	Ind	100		Round	6	1	1.0	0.05	Yes	Yes
Metro PCS Inc	5	165	12	1	1.98	Block	50	1	Flat	6	2	43.7	9.84	Yes	Yes
Metro PCS Inc	5	165	1	1	0.38	Ind	100		Round	1	1	1.2	0.23	Yes	Yes
Metro PCS Inc	5	165	1	1	0.44	Ind	100		Round	1	1	1.4	0.08	Yes	Yes
Sprint Nextel	5	155	3	2	1.00	Ind	100		Round	3	1	3.1	0.65	Yes	Yes
Sprint Nextel	5	155	3	2	1.54	Ind	100		Round	3	1	4.8	1	Yes	Yes
Sprint Nextel	5	155	1	2	1.70	Ind	100		Round	1	1	5.3	1.78	Yes	Yes
Sensus USA Inc.	5	142	1	B	1.09	Ind	100		Round	1	1	3.4	0.33	No	Yes
														No	No
Senet, Inc.	5	135	1	3	0.63	Ind	100		Round	1	1	2.0	0.15	Yes	Yes
Spok Holdings, Inc.	5	120	1	B	0.63	Ind	100		Round	1	1	2.0	0.15	No	Yes
Marcus Communications LLC	5	107	1	B	1.55	Ind	100		Round	1	1	4.9	0.63	No	Yes
														No	No
Verizon Wireless	5	92	3	4	1.98	Ind	100		Round	3	1	6.2	1.3	Yes	Yes
Sirius XM Radio Inc.	5	25	1	4	1.09	Ind	100		Round	1	1	3.4	0.33	Yes	Yes
Spok Holdings, Inc.	0	6	1	B	0.63	Ind	100		Round	1	1	2.0	0.15	No	Yes
Spok Holdings, Inc.	0	6	1	B	0.34	Ind	100		Round	1	1	1.1	0.06	No	Yes
														No	No
														No	No
														No	No
														No	No
														No	No
														No	No
														No	No
														No	No
														No	No

Dishes

Site No.:	88018
Engineer:	RDB
Date:	07/02/21
Carrier:	Verizon Wireless

Dish Types	
S	Standard
R	Standard w/ Radome
H	High Performance
G	Grid

Dish Number	Dish Elevation (ft)	Dish Dia. (ft)	Dish Angle (deg)	Dish Type	Joint Orientation	Equipment Staus
1	307	3	0	H	Y	
2	300	4	51.4	S	XY	
3	300	2	90	H	XY	
4	300	2	180	H	X	
5	300	2	270	H	P	
6	120	4	90	S	XY	
7	25	2	197	R	X	
8	6	4	270	S	P	
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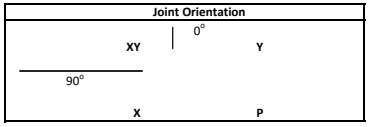
Equipment Label	Attach Label	Equipment Property Set	EIA Antenna Orientation Angle *(deg)*
3' HP 1 @ 307'	17Y	3 ft HP Dish	0
4' STD 2 @ 300'	17XY	4 ft STD Dish	51.4
2' HP 3 @ 300'	17XY	2 ft HP Dish	90
2' HP 4 @ 300'	17X	2 ft HP Dish	180
2' HP 5 @ 300'	17P	2 ft HP Dish	270
4' STD 6 @ 120'	5XY	4 ft STD Dish	90
2' RAD 7 @ 25'	1X	2 ft RAD Dish	197
4' STD 8 @ 6'	0P	4 ft STD Dish	270

Joint Orientation



Task:	Determine Point Loads	
Tower Height:	300	ft
Gh:	0.85	
Wind Speed:	117	mph,Vult
Ice Wind Speed:	50	
Ice Density:	56	
Tower Type:	S	

Ice Thick:	1	in
Topographic Category (1-4):	1	
Exposure Category (B-D):	B	
Risk Category (1-4):	2	
Height of Crest (H) if Topo Cat. >1:	0	ft
Load Factor; Wind:	1	
Load Factor; Dead:	1.2	

Rooftop Speed Up Factor (Ks)	1	
Ground Elevation (AMSL)	48	ft
Topographic Factor Procedure	Method 1	

Site No.:	
Engineer:	
Date:	
Carrier:	

No.	Carrier	Elevation (ft)	Quantity	# of Azimuths	Proposed?	Manufacturer	Model	Height (in)	Width (in)	Depth (in)	Weight (lbs/ea)	Flat/Round (F/R)	Reduction	C_AA_C (ft^2)	Weight (k)	Ka
1		300	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
		300	1	4			Platform w/ HR						1.000	80.00	9.00	1
2		283	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
		283	1	4			Catwalk						1.000	70.00	8.00	1
3		212.5	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
		212.5	1	3			Access Platform						1.000	45.00	5.00	1
4		100	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
		100	1	3			Access Platform						1.000	45.00	5.00	1
5																1
																1
6	Marcus Communications LLC	338	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Marcus Communications LLC	338	1	1		TX RX Systems	101-68-10-X-03N						1.000	5.53	0.07	1
7	Marcus Communications LLC	324	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Marcus Communications LLC	324	1	1			15' Omni-Grid						1.000	13.41	0.08	1
8	Other	320	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Other	320	1	1			12' Omni						1.000	3.60	0.04	1
9	Marcus Communications LLC	311	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Marcus Communications LLC	311	1	1			Radio/ODU						0.500	1.60	0.03	1
10	Other	307	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Other	307	1	1			Radio/ODU						0.500	1.60	0.03	1
11	Clearwire Corporation	300	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Clearwire Corporation	300	1	1		DragonWave	Horizon Compact						0.500	0.43	0.01	1
12	Sigfox S.A.	292	1	1		Procom	CXL 900-3LW	27.6	0.6	0.6	1.5	R	1.000			1
	Sigfox S.A.	292	1	1			5" x 3" x 2" Cavity Filter						1.000	0.17	0.00	1
13	Sigfox S.A.	292	1	1			Low Noise Amplifier	5	4	2	2	F	1.000			1
	Sigfox S.A.	292	1	1			Flat Side Arm						1.000	6.30	0.15	1
14	US Dept Of Homeland Security	275	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	US Dept Of Homeland Security	275	1	1			Round Side Arm						1.000	5.20	0.15	1
15	US Dept Of Homeland Security	275	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	US Dept Of Homeland Security	275	1	1		Rohde & Schwarz	ADD090						1.000	20.76	0.09	1
16	Other	270	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Other	270	1	1		Dielectric	TLP-08M-2E						1.000	22.75	0.13	1
17	Other	270	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Other	270	1	1			Round Side Arm						1.000	5.20	0.15	1
18	XM Satellite Radio Inc.	268	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	XM Satellite Radio Inc.	268	2	2		Til-Tek	TA-2350-DAB						1.000	1.34	0.02	1
19	XM Satellite Radio Inc.	268	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	XM Satellite Radio Inc.	268	2	2			Round Side Arm						0.900	5.20	0.15	0.9
20	T-Mobile	265	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	T-Mobile	265	1	1		Ericsson	Radio 4449 B71 B85A						0.500	1.65	0.08	0.8
21	T-Mobile	265	3	3		Ericsson	4424 B25	17.1	14.4	11.3	86	F	0.500			0.8
	T-Mobile	265	3	3		Ericsson	Air6449 B41						0.630	5.68	0.10	0.8
22	T-Mobile	265	3	3		Ericsson	Air 3246 B66	58.1	15.7	9.4	180	F	0.690			0.8
	T-Mobile	265	1	1			-						0.000	0.00	0.00	1
23	T-Mobile	265	3	3		RFS	APXVAARR24_43-U-NA20	95.9	24	8.7	127.9	F	0.630			0.8
	T-Mobile	265	3	3			Modified Flat Sector Frame						0.670	17.90	0.40	0.75
24	US Dept Of Homeland Security	250	1	1		Sinclair	SC281-L	251	5	5	79	R	1.000			1
	US Dept Of Homeland Security	250	1	1			Round Side Arm						1.000	5.20	0.15	1
25	US Dept Of Homeland Security	245	1	1		Sinclair	SC381-HL	148.3	4.5	4.5	47	R	1.000			1
	US Dept Of Homeland Security	245	1	1			Round Side Arm						1.000	5.20	0.15	1
26	AT&T Mobility	235	3	3		Powerwave Allgon	7770	55	11	5	35	F	0.650			0.8
	AT&T Mobility	235	2	2		Andrew	SBNHH-1D65A						0.690	5.80	0.04	0.8
27	AT&T Mobility	235	2	2		CCI	OPA-65R-LCUU-H4	48	14.8	7.4	57	F	0.660			0.8
	AT&T Mobility	235	1	3			(28) Diplexer/TTA/BOB/RET/RRU						0.500	55.30	1.29	0.8
28	AT&T Mobility	235	2	2		KMW	EPBQ-654LBH6-L2	73	21	6.3	72.8	F	0.610			0.8
	AT&T Mobility	235	3	3		CCI	BSA-M65R-BUU-H6 (101 lbs)						0.610	17.12	0.10	0.8
29	AT&T Mobility	235	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	AT&T Mobility	235	3	3			Sabre C10857278C Sector Frame						0.670	17.90	0.40	0.75
30	US Dept Of Homeland Security	210	1	1		Sinclair	SC281-L	251	5	5	79	R	1.000			1
	US Dept Of Homeland Security	210	1	1			Round Side Arm						1.000	5.20	0.15	1
31	Marcus Communications LLC	200	2	2		TX RX Systems	101-68-10-X-03N	189.6	3.5	3.5	70	R	1.000			1
	Marcus Communications LLC	200	2	2			Round Side Arm						0.900	5.20	0.15	0.9
32	Spok Holdings, Inc.	193	2	2		Antel	BCD-87010 ___	134	2.6	2.6	26.5	R	1.000			1
	Spok Holdings, Inc.	193	2	2			Round Side Arm						0.900	5.20	0.15	0.9
33	Spok Holdings, Inc.	193	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Spok Holdings, Inc.	193	1	1			30" x 30" Reflector						1.000	7.50	0.03	1
34	Clearwire Corporation	175	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Clearwire Corporation	175	1	1			12" x 12" Junction Box						1.000	1.20	0.01	1
35	Clearwire Corporation	167	3	3		NextNet	BTS-2500	19.3	11.3	5.1	35	F	0.500			0.8
	Clearwire Corporation	167	3	3		Argus	LLPX310R						0.630	4.29	0.03	0.8
36	Clearwire Corporation	167	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Clearwire Corporation	167	3	3			Flat T-Arm						0.670	12.90	0.25	0.75
37	Mtero PCS Inc	165	15	3		Generic	RCU (Remote Control Unit)	8	2	2	1	F	0.500			1
	Mtero PCS Inc	165	6	3		Kathrein Scala	800 10504						0.660	3.34	0.02	1
38	Sprint Nextel	155	3	3		Nokia	2.5G MAA - AAHC(64T64R)	25.6	19.7	9.6	103.6	F	0.640			0.8
	Sprint Nextel	155	1	3			(12) Filter/RRU						0.500	27.95	0.45	0.8
39	Sprint Nextel	155	3	3		RFS	APXVSPP18-C-A20	72	11.8	7	57	F	0.690			0.8
	Sprint Nextel	155	3	3			Flat Sector Frame						0.750	17.90	0.40	0.75
40	Sensus USA Inc.	142	1	1		Antel	BCD-87010 ___ 4°	134	2.6	2.6	26.5	R	1.000			1
	Sensus USA Inc.	142	1	1			Round Side Arm						1.000	5.20	0.15	1
41	Senet, Inc.	135	1	1		L-com	HG908U-PRO	63	1.5	1.5	3.8	R	1.000			1
	Senet, Inc.	135	1	1			Round Side Arm						1.000	5.20	0.15	1
42	Senet, Inc.	130	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Senet, Inc.	130	1	1			Stand-Off						1.000	2.50	0.08	1
43	Marcus Communications LLC	107	1	1		TX RX Systems	101-68-10-X-03N	189.6	3.5	3.5	70	R	1.000			1
	Marcus Communications LLC	107	1	1			Round Side Arm						1.000	5.20	0.15	1
44	Verizon Wireless	92	3	3		Samsung	Outdoor CBRS 20W RRH –Clip-on Antenna	12.3	8.7	1.4	4.4	F	0.500			0.8
	Verizon Wireless	92	1	3			(12) RRU/BOB						0.500	28.64	0.65	0.8
45	Verizon Wireless	92	4	3		Quintel	QS6656-5D	72	12	9.6	88	F	0.740			0.8
	Verizon Wireless	92	2	2		JMA Wireless	MX06FRO660-03						0.780	9.87	0.06	0.8
46	Verizon Wireless	92	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Verizon Wireless	92	3	3			Modified Sector Frame						0.670	17.90	0.40	0.75
47	-	42	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	-	42	4	4			Ice Shield						1.000	6.00	0.15	1
48	Spok Holdings, Inc.	6	1	1			-	0.0001	0.0001	0.0001	0.0001	F	0.000			1
	Spok Holdings, Inc.	6	1	1		Trimble	Acutime 2000						1.000	0.30	0.00	1
49																1
																1
50																1
																1

No.	Elevation (ft)	C_AA_C (ft^2)	C_AA_C (Ice) (ft^2)	Force (lb)	Force (Ice) (lb)	Weight (lb)	Weight (Ice) (lb)	60 Azi Mult.	Force mean	F (Ice) mean	Height Flag	Sum of Forces (No I 60 Azi.	180 Azi.
1	300	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00			
	300	80.00	108.00	2735.041	674.320	10800	14040	1.00	1504.27	370.88	1.5033333	2735.040831	
2	283	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5033343		
	283	70.00	94.50	2353.604	580.277	9600	12480	1.00	1294.48	319.15	1.5035336	2353.60375	
3	212.5	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5035346		
	212.5	45.00	60.75	1394.110	343.716	6000	7800	1.00	766.76	189.04	1.5047059	1394.110206	
4	100	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5047069		
	100	45.00	60.75	1123.999	277.120	6000	7800	1.00	618.20	152.42	1.5100000	1123.999149	
5					#VALUE!			1.00	#VALUE!	#VALUE!	1.5100010		
								1.00	#VALUE!	#VALUE!	#DIV/0!	#VALUE!	
6	338	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	#DIV/0!		
	338	5.53	7.47	195.613	48.228	84	109	1.00	107.59	26.53	1.5029586	195.6129746	
7	324	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5029596		
	324	13.41	18.10	468.654	115.546	90	117	1.00	257.76	63.55	1.5030864	468.6539151	
8	320	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5030874		
	320	3.60	4.86	125.367	30.909	48	62	1.00	68.95	17.00	1.5031250	125.3673756	
9	311	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5031260		
	311	0.80	1.08	27.633	6.813	36	47	1.00	15.20	3.75	1.5032154	27.63326095	
10	307	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5032164		
	307	0.80	1.08	27.531	6.788	36	47	1.00	15.14	3.73	1.5032573	27.53124484	
11	300	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5032583		
	300	0.22	0.29	7.350	1.812	13	17	1.00	4.04	1.00	1.5033333	7.350422232	
12	292	0.14	0.48	4.682	2.972	2	11	1.00	2.57	1.63	1.5033343		
	292	0.17	0.23	5.767	1.422	2	2	1.00	3.17	0.78	1.5033343	10.4489034	
13	292	0.17	0.41	5.654	2.530	2	7	1.00	3.11	1.39	1.5033353		
	292	6.30	8.51	213.728	52.694	180	234	1.00	117.55	28.98	1.5034247	229.8306415	
14	275	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5034257		
	275	5.20	7.02	173.413	42.755	180	234	1.00	95.38	23.52	1.5036364	173.4125159	
15	275	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5036374		
	275	20.76	28.03	692.316	170.689	106	138	1.00	380.77	93.88	1.5036364	865.7286371	
16	270	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5036374		
	270	22.75	30.71	754.713	186.073	156	203	1.00	415.09	102.34	1.5037037	754.7127022	
17	270	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5037047		
	270	5.20	7.02	172.506	42.531	180	234	1.00	94.88	23.39	1.5037037	927.2184627	
18	268	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5037047		
	268	2.68	3.62	88.718	21.873	36	47	1.00	48.79	12.03	1.5037313	88.71815255	
19	268	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5037323		
	268	8.42	11.37	250.980	61.879	360	468	1.00	138.04	34.03	1.5037313	339.6978337	
20	265	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5037323		
	265	0.66	0.89	17.423	4.296	90	117	1.00	9.58	2.36	1.5037736	17.42267293	
21	265	2.46	3.65	81.253	22.023	310	422	1.00	44.69	12.11	1.5037746		
	265	8.59	11.59	226.710	55.895	374	487	1.00	124.69	30.74	1.5037736	325.3858396	
22	265	13.15	17.13	433.841	103.210	648	948	1.00	238.61	56.77	1.5037746		
	265	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5037736	759.2271329	
23	265	30.61	37.42	1009.948	225.488	460	939	1.00	555.47	124.02	1.5037746		
	265	26.98	36.43	667.809	164.647	1440	1872	1.00	367.30	90.56	1.5037736	2436.984081	
24	250	10.46	14.76	339.401	87.469	95	425	1.00	186.67	48.11	1.5037746		
	250	5.20	7.02	168.754	41.606	180	234	1.00	92.81	22.88	1.5040000	508.1549355	
25	245	5.56	7.86	179.439	46.306	56	236	1.00	98.69	25.47	1.5040010		
	245	5.20	7.02	167.783	41.367	180	234	1.00	92.28	22.75	1.5040816	347.2214124	
26	235	8.59	11.24	273.987	65.441	126	260	1.00	150.69	35.99	1.5040826		
	235	6.40	8.64	163.328	40.268	98	128	1.00	89.83	22.15	1.5042553	437.3146487	
27	235	6.42	8.62	204.810	50.217	137	291	1.00	112.65	27.62	1.5042563		
	235	22.12	29.86	564.240	139.112	1552	2018	1.00	310.33	76.51	1.5042553	1206.364766	
28	235	12.92	16.37	411.916	95.312	175	461	1.00	226.55	52.42	1.5042563		
	235	25.06	33.84	639.304	157.619	364	473	1.00	351.62	86.69	1.5042553	2257.584898	
29	235	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5042563		
	235	26.98	36.43	645.274	159.091	1440	1872	1.00	354.90	87.50	1.5042553	2902.859353	
30	210	10.46	14.76	322.908	83.219	95	419	1.00	177.60	45.77	1.5042563		
	210	5.20	7.02	160.553	39.584	180	234	1.00	88.30	21.77	1.5047619	483.4612364	
31	200	11.06	17.56	336.757	97.665	168	372	1.00	185.22	53.72	1.5047629		
	200	8.42	11.37	230.846	56.915	360	468	1.00	126.97	31.30	1.5050000	567.6037078	
32	193	5.81	10.43	175.012	57.392	64	171	1.00	96.26	31.57	1.5050010		
	193	8.42	11.37	228.508	56.338	360	468	1.00	125.68	30.99	1.5051813	403.5205207	
33	193	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5051823		
	193	7.50	10.13	226.049	55.732	36	47	1.00	124.33	30.65	1.5051813	629.5694918	
34	175	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5051823		
	175	1.20	1.62	35.170	8.671	12	16	1.00	19.34	4.77	1.5057143	35.17014487	
35	167	2.18	3.31	63.070	17.456	126	189	1.00	34.69	9.60	1.5057153		
	167	6.49	8.76	150.067	36.999	103	134	1.00	82.54	20.35	1.5059880	213.1371646	
36	167	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5059890		
	167	19.45	26.25	421.789	103.991	900	1170	1.00	231.98	57.20	1.5059880	634.9259618	
37	165	1.17	2.92	33.623	15.351	18	26	1.00	18.49	8.44	1.5059890		
	165	13.23	17.86	381.183	93.980	127	165	1.00	209.65	51.69	1.5060606	414.8060437	
38	155	6.46	8.94	182.747	46.241	373	532	1.00	100.51	25.43	1.5060616		
	155	11.18	15.09	253.210	62.429	539	701	1.00	139.27	34.34	1.5064516	435.9571908	
39	155	13.29	16.44	376.192	85.004	205	399	1.00	206.91	46.75	1.5064526		
	155	30.21	40.78	641.345	158.123	1440	1872	1.00	352.74	86.97	1.5064516	1453.494403	
40	142	2.90	5.21	80.161	26.287	32	130	1.00	44.09	14.46	1.5064526		
	142	5.20	7.02	143.571	35.397	180	234	1.00	78.96	19.47	1.5070423	223.7320121	
41	135	0.79	1.67	21.431	8.301	5	34	1.00	11.79	4.57	1.5070433		
	135	5.20	7.02	141.513	34.890	180	234	1.00	77.83	19.19	1.5074074	162.9435653	
42	130	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5074084		
	130	2.50	3.38	67.305	16.594	96	125	1.00	37.02	9.13	1.5076923	67.30521577	
43	107	5.53	8.78	140.823	40.841	84	259	1.00	77.45	22.46	1.5076933		
	107	5.20	7.02	132.420	32.648	180	234	1.00	72.83	17.96	1.5093458	273.2426922	
44	92	1.07	1.79	26.099	7.951	16	36	1.00	14.35	4.37	1.5093468		
	92	11.46	15.46	223.511	55.106	782	1017	1.00	122.93	30.31	1.5108696	249.6109192	
45	92	19.26	23.85	469.740	106.239	422	667	1.00	258.36	58.43	1.5108706		
	92	12.32	16.63	240.342	59.256	144	187	1.00	132.19	32.59	1.5108696	959.6923182	
46	92	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5108706		
	92	26.98	36.43	493.604	121.697	1440	1872	1.00	271.48	66.93	1.5108696	1453.296407	
47	42	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5108706		
	42	24.00	32.40	467.866	115.352	720	936	1.00	257.33	63.44	1.5238095	467.8661772	
48	6	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5238105		
	6	0.30	0.41	5.308	1.309			1.00	2.92	0.72	1.6666667	5.307795781	
49					#VALUE!			1.00	#VALUE!	#VALUE!	1.6666677		
								1.00	#VALUE!	#VALUE!	1.6666677	#VALUE!	
50					#VALUE!			1.00	#VALUE!	#VALUE!	1.6666687		
								1.00	#VALUE!	#VALUE!	1.6666687	#VALUE!	

Foundation

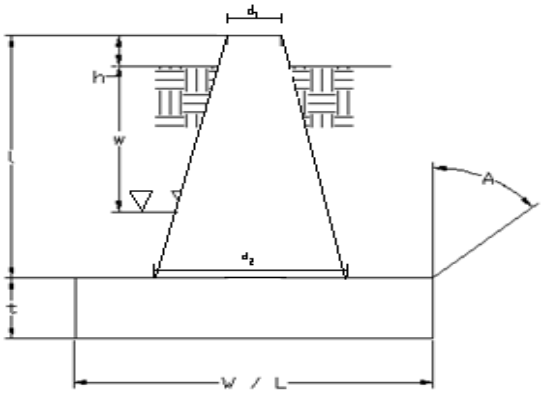
Site No.:	88018
Engineer:	RDB
Date:	07/02/21
Carrier:	Verizon Wireless

Design Loads (Factored)

Compression/Leg:	443.10	k
Uplift/Leg:	310.64	k
Shear/Leg	62.26	k

Face Width @ Top of Pier (d_1):	4.00	ft
Face Width @ Bottom of Pier (d_2):	8.00	ft
Total Length of Pier (l):	8.00	ft
Height of Pedestal Above Ground (h):	0.50	ft
Width of Pad (W):	18.00	ft
Length of Pad (L):	18.00	ft
Thickness of Pad (t):	3.00	ft
Water Table Depth (w):	99.00	ft
Unit Weight of Concrete:	150.0	pcf
Unit Weight of Soil (Above Water Table):	100.0	pcf
Unit Weight of Soil (Below Water Table):	37.6	pcf
Friction Angle of Uplift (A):	20	°
Ultimate Compressive Bearing Pressure:	40000	psf
Ultimate Skin Friction:	197	psf

Volume Pier (Total):	298.67	ft³
Volume Pad (Total):	972.00	ft³
Volume Soil (Total):	2935.41	ft³
Volume Pier (Buoyant):	0.00	ft³
Volume Pad (Buoyant):	0.00	ft³
Volume Soil (Buoyant):	0.00	ft³
Weight Pier:	44.80	k
Weight Pad:	145.80	k
Weight Soil:	293.54	k
Uplift Skin Friction:	31.91	k



Uplift Check

ϕs Uplift Resistance (k)	Ratio	Result
387.04	0.80	**OK**

Axial Check

ϕs Axial Resistance (k)	Ratio	Result
9720.00	0.05	**OK**

Anchor Bolt Check

Bolt Diameter (in)	2.25
# of Bolts	6
Steel Grade	A36
Steel Fy	36
Steel Fu	58
Detail Type	C

Usage Ratio	Result
0.47	**OK**

Maser Consulting Connecticut
2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
856.797.0412
Peter.Albano@ColliersEngineering.com

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10069537
Maser Consulting Connecticut Project #: 21777443A

June 11, 2021

Site Information	*Site ID:*	*468008-VZW / STAMFORD WEST 3 CT - ATC-Catoona Ln*
	Site Name:	*STAMFORD WEST 3 CT - ATC - Catoona Ln*
	Carrier Name:	*Verizon Wireless*
	Address:	*168 Catoonah Lane Stamford, Connecticut 06902, Fairfield County*
	Latitude:	*41.05283333°*
	Longitude:	*-73.56305555°*
Structure Information	*Tower Type:*	*91-Ft Self Support*
	Mount Type:	*12.50-Ft Sector Frame*

FUZE ID # 16045710

Analysis Results

Sector Frame : **64.9% Pass**

******Contractor PMI Requirements*:**
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
Contractor - Please Review Specific Site PMI Requirements Upon Award
Requirements also Noted on Mount Modification Drawings
Requirements may also be Noted on A & E drawings

Report Prepared By: Frank Centone

Digitally signed by Derek Hartzell
Date: 2021.06.11 11:42:39-07'00'

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	*Verizon RFDS Site ID: 2637138, dated March 17, 2021*
Mount Mapping Report	*RKS Design & Engineering LLC., Site ID: ATC:88018, dated March 19, 2021*
Previous Mount Analysis Report	*Maser Consulting Connecticut, Project #: 21777443A dated May 7, 2021*
Mount Modification Drawings	*Maser Consulting Connecticut, Project #: 21777443A dated June 11, 2021*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	117 mph
	Ice Wind Speed (3-sec. Gust):	50 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:	0.998
Seismic Parameters:	S_S:	0.265
	S_1:	0.059
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 mounts:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
91.00	92.00	3	Samsung	XXDWMM-12.5-65-8T-CBRS	Added
		2	JMA Wireless	MX06FRO660-03	
		4	Quintel	QS6656-5D	
		3	Samsung	MT6407-77A	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		3	Raycap	RRFDC-3315-PF-48	Retained

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

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

Standard Conditions:

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

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

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

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

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

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

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

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

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

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

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

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontal	49.0%	Pass
Mount Pipe	45.2%	Pass
Standoff Plate	63.3%	Pass
Standoff Horizontal	64.9%	Pass
MOD Tieback	16.7%	Pass
Standoff Vertical	5.5%	Pass
Tieback	5.8%	Pass
Connection Check	32.4%	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**64.9%**

Recommendation:

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

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

Attachments:

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


03/19/2021

V3.0 Updated on 8-31-2020

Antenna Mount Mapping Form (PATENT PENDING)

FCC # 1043497

Tower Owner:	ATC	**Mapping Date:**	3/19/2021
Site Name:	ATC:STAMFORD(KATOONA),VZW:STAMFORD	**Tower Type:**	Self Support
Site Number or ID:	ATC:88018	**Tower Height (Ft.):**	UNKNOWN
Mapping Contractor:	RKS Design & Engineering LLC.	**Mount Elevation (Ft.):**	91

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

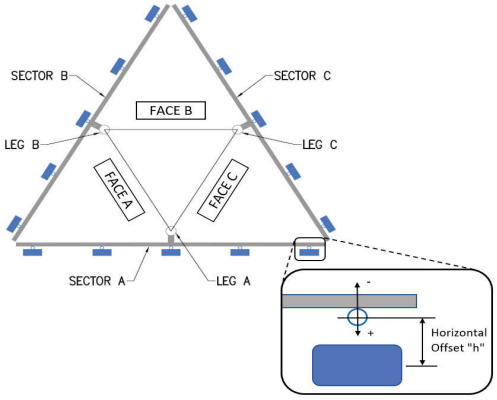
Mount Pipe Configuration and Geometries [Unit = Inches]

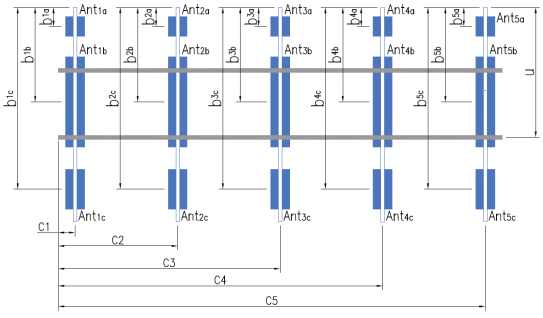
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	PIPE 2.375"Ø x 0.15" x 96.5" LON	67.50	3.50	C1	PIPE 2.375"Ø x 0.15" x 96.5" LONG	67.75	3.50
A2	PIPE 2.375"Ø x 0.15" x 96.5" LON	68.00	53.50	C2	PIPE 2.375"Ø x 0.15" x 96.5" LONG	68.00	53.50
A3	PIPE 2.375"Ø x 0.15" x 96.5" LON	67.75	96.20	C3	PIPE 2.375"Ø x 0.15" x 96.5" LONG	67.75	96.20
A4	PIPE 2.375"Ø x 0.15" x 96.5" LON	67.75	146.20	C4	PIPE 2.375"Ø x 0.15" x 96.5" LONG	67.75	146.20
A5				C5			
A6				C6			
B1	PIPE 2.375"Ø x 0.15" x 96.5" LON	67.50	3.50	D1			
B2	PIPE 2.375"Ø x 0.15" x 96.5" LON	68.00	53.50	D2			
B3	PIPE 2.375"Ø x 0.15" x 96.5" LON	67.75	96.20	D3			
B4	PIPE 2.375"Ø x 0.15" x 96.5" LON	67.75	146.20	D4			
B5				D5			
B6				D6			

Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :	15.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	

Please enter additional infomation or comments below.

Tower Face Width at Mount Elev. (ft.):	34.2	Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	



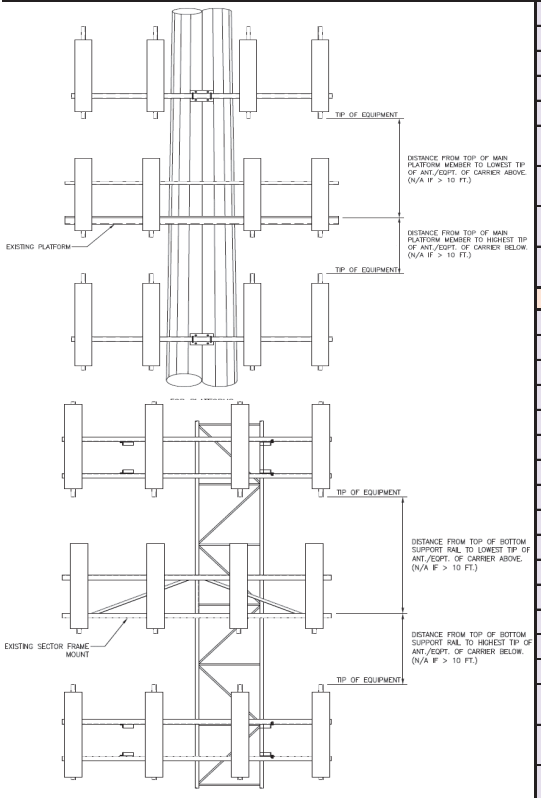


Antenna Layout (Looking Out From Tower)

Ants. Items	Enter antenna model. If not labeled, enter "Unknown". Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Mounting Locations [Units are inches and degrees] Vertical Distances"b_{1a}, b_{2a}, b_{3a}, b_{1b}...." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photos of antennas Photo Numbers
Sector A										
Ant_{1a}										
Ant_{1b}	WWX063X19G00	12.10	7.00	75.00		91.5417	46.00	8.50	60.00	9,281
Ant_{1c}										
Ant_{2a}										
Ant_{2b}	X7C-FRO-660-VR0	14.60	8.00	72.00		91.9167	42.00	11.00	60.00	9,281
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	WWX063X19G00	12.10	7.00	75.00		91.7708	43.50	9.00	60.00	9,281
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	X7C-FRO-660-VR0	14.60	8.00	72.00		91.8958	42.00	11.00	60.00	9,281
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff	B66a RRH 4x45	11.80	7.20	25.80			21.00	5.00		281
Ant on Standoff	B13 RRH4x30	11.80	7.50	20.90			21.00	5.00		281
Ant on Tower	RRFDC-3315-PF-48	15.73	10.25	25.66			5.00	6.00		281
Ant on Tower	B25 RRH 4x30	12.00	7.20	21.20			22.00	5.00		281

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector	
Sector A:	60.00	Deg	Leg A:	80.00	Deg
Sector B:	180.00	Deg	Leg B:	170.00	Deg
Sector C:	300.00	Deg	Leg C:	260.00	Deg
Sector D:		Deg	Leg D:	350.00	Deg

Climbing Facility Information			
Location:		Deg	
Climbing Facility	Corrosion Type:		N/A
	Access:		Climbing path was unobstructed.
	Condition:		Good condition.



Sector B										
Ant_{1a}										
Ant_{1b}	WWX063X19G00	12.10	7.00	75.00		91.5417	46.00	8.50	180.00	16,293
Ant_{1c}										
Ant_{2a}										
Ant_{2b}	X7C-FRO-640-VR4	18.80	9.10	72.00		91.9167	42.00	11.00	180.00	16,293
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	WWX063X19G00	12.10	7.00	75.00		91.7708	43.50	9.00	180.00	16,294
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	X7C-FRO-640-VR4	18.80	9.10	72.00		91.8958	42.00	11.00	180.00	16,294
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff	B66a RRH 4x45	11.80	7.20	25.80			21.00	5.00		293
Ant on Standoff	B13 RRH4x30	11.80	7.50	20.90			21.00	5.00		293
Ant on Tower	RRFDC-3315-PF-48	15.73	10.25	25.66			5.00	6.00		294
Ant on Tower	B25 RRH 4x30	12.00	7.20	21.20			22.00	5.00		294
Sector C										
Ant_{1a}										
Ant_{1b}	WWX063X19G00	12.10	7.00	75.00		91.5625	46.00	8.50	300.00	23,296
Ant_{1c}										
Ant_{2a}										
Ant_{2b}	X7C-FRO-660-VR0	14.60	8.00	72.00		91.9167	42.00	11.00	300.00	23,296
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	WWX063X19G00	12.10	7.00	75.00		91.7708	43.50	9.00	300.00	23,296
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	X7C-FRO-660-VR0	14.60	8.00	72.00		91.8958	42.00	11.00	300.00	23,296
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff	B66a RRH 4x45	11.80	7.20	25.80			21.00	5.00		296
Ant on Standoff	B13 RRH4x30	11.80	7.50	20.90			21.00	5.00		296
Ant on Tower	RRFDC-3315-PF-48	15.73	10.25	25.66			5.00	6.00		296
Ant on Tower	B25 RRH 4x30	12.00	7.20	21.20			22.00	5.00		296
Sector D										
Ant_{1a}										
Ant_{1b}										
Ant_{1c}										
Ant_{2a}										
Ant_{2b}										
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

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

1	COAX TOTAL (3): (3) 1.55"Ø HYBRID	
2		
3		
4		
5		
6		
7		
8		

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

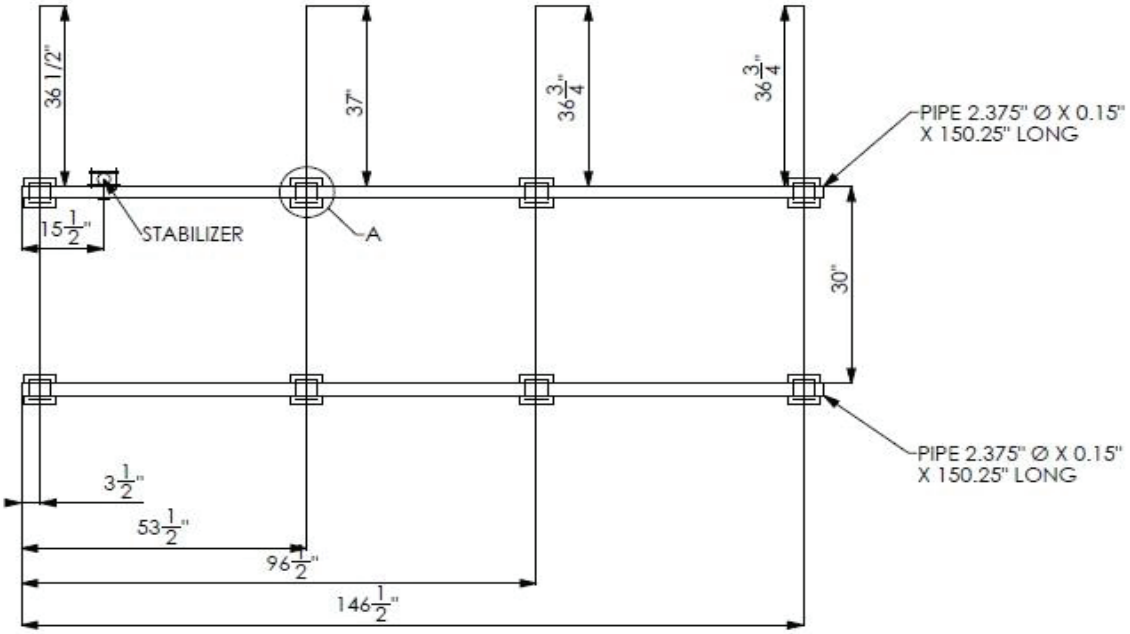
Standard Conditions
1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.

Antenna Mount Mapping Form (PATENT PENDING)

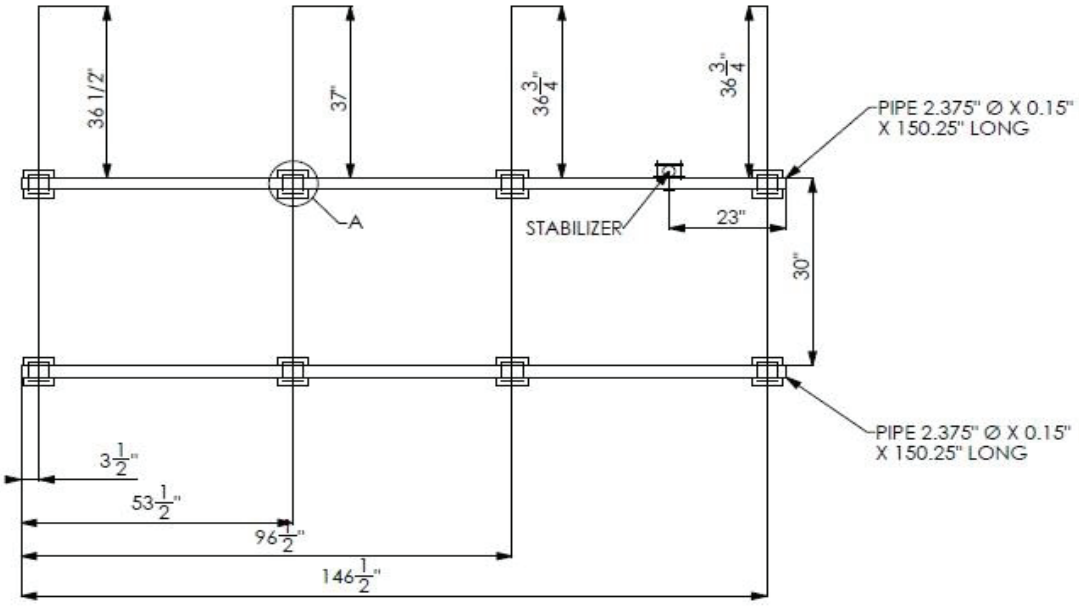
FCC # 1043497

Tower Owner:	ATC	**Mapping Date:**	3/19/2021
Site Name:	ATC:STAMFORD(KATOONA),VZW:STAMFORD	**Tower Type:**	Self Support
Site Number or ID:	ATC:88018	**Tower Height (Ft.):**	UNKNOWN
Mapping Contractor:	RKS Design & Engineering LLC.	**Mount Elevation (Ft.):**	91

Please Insert Sketches of the Antenna Mount

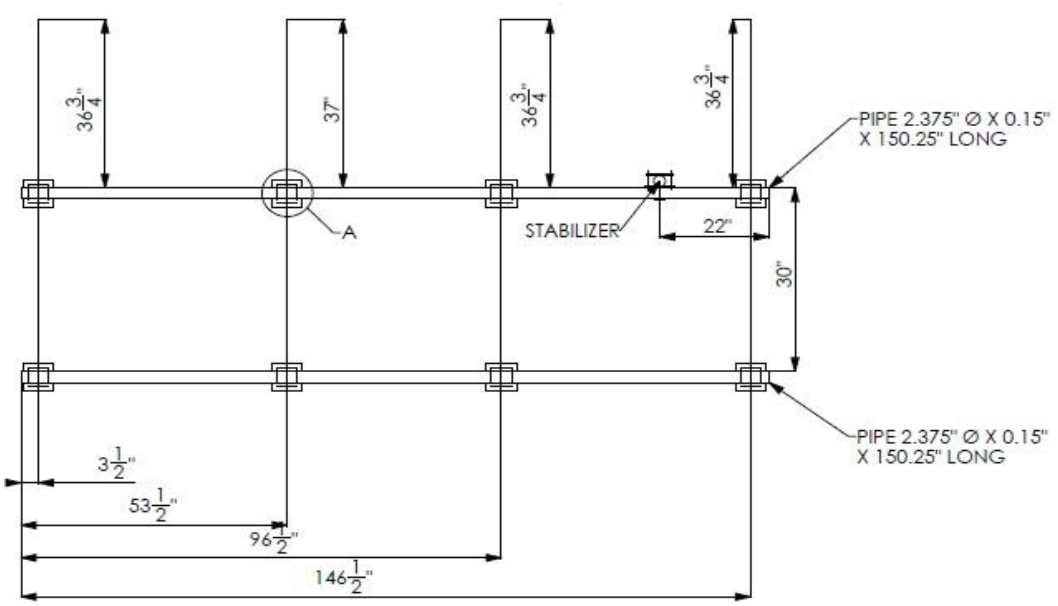


SECTOR A

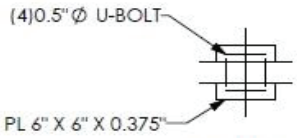


SECTOR B

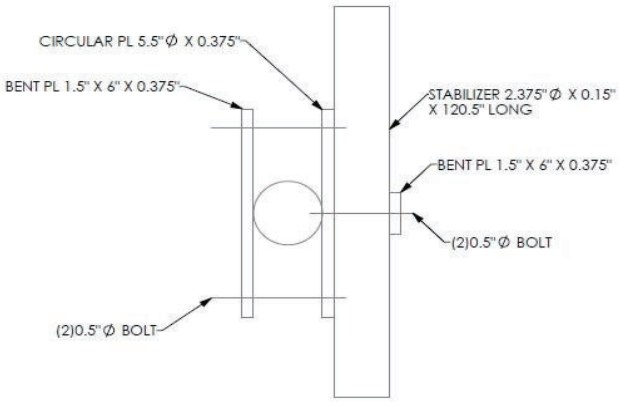
Please Insert Sketches of the Antenna Mount, cont'd



SECTOR C

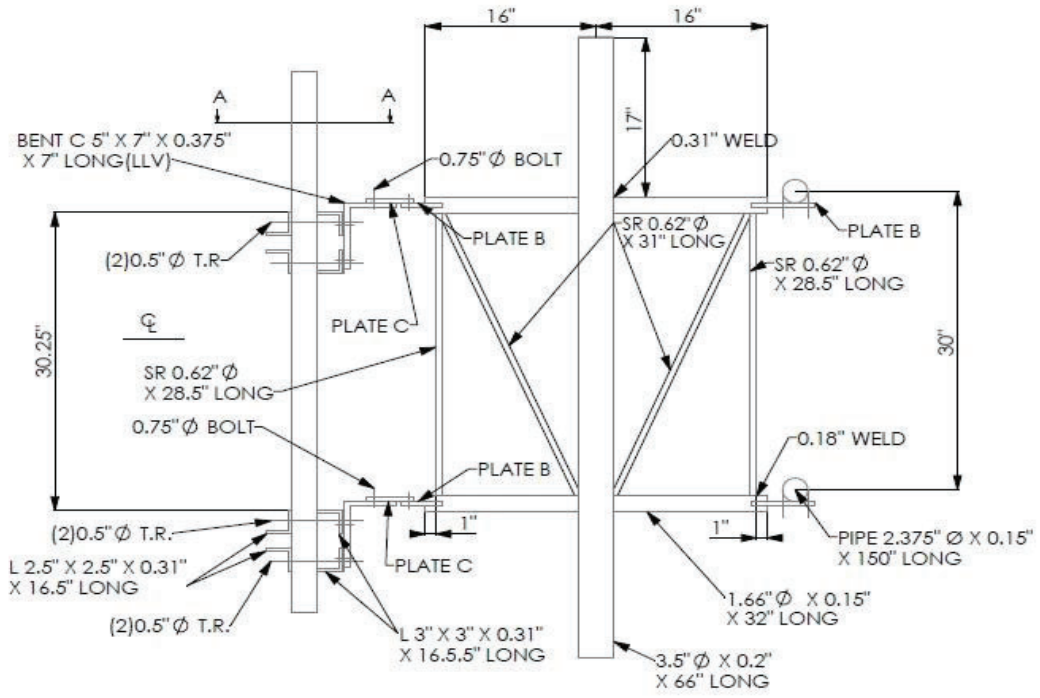


DETAIL A

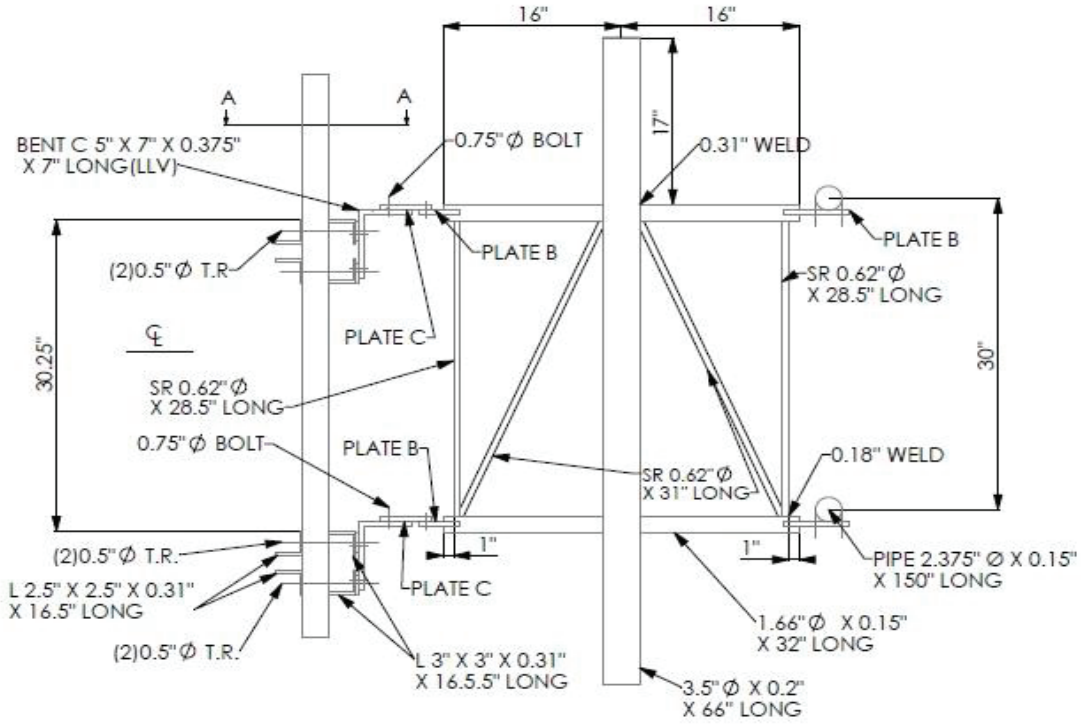


STABILIZER CONNECTION AT TOWER & MOUNT

Please Insert Sketches of the Antenna Mount, cont'd

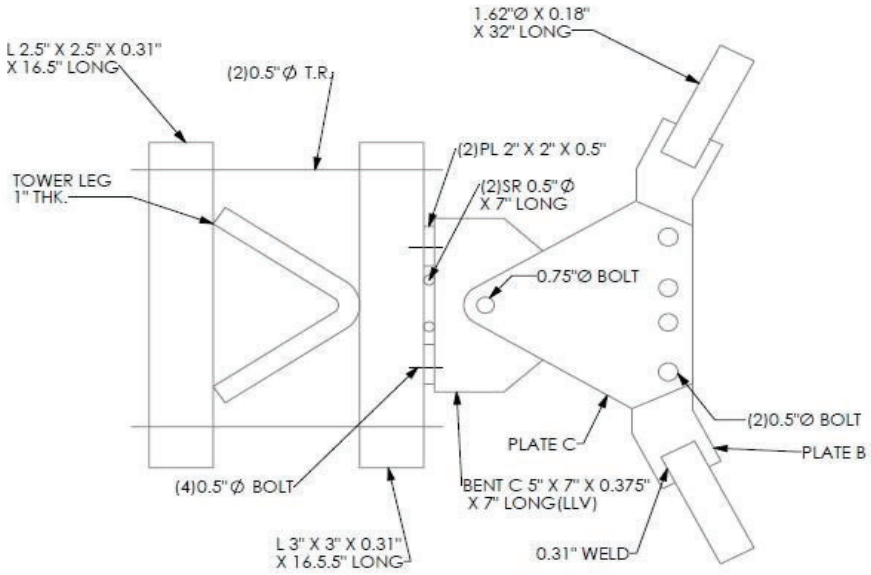


STAND OFF VIEW 1



STAND OFF VIEW 2

Please Insert Sketches of the Antenna Mount, cont'd



SECTION A-A

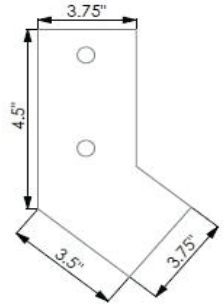


PLATE B DETAIL VIEW
(0.5" THK)

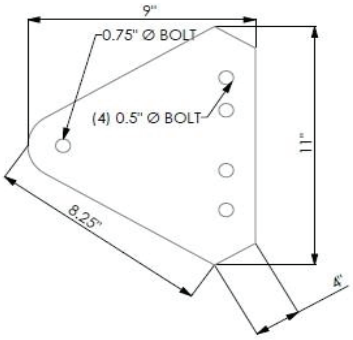
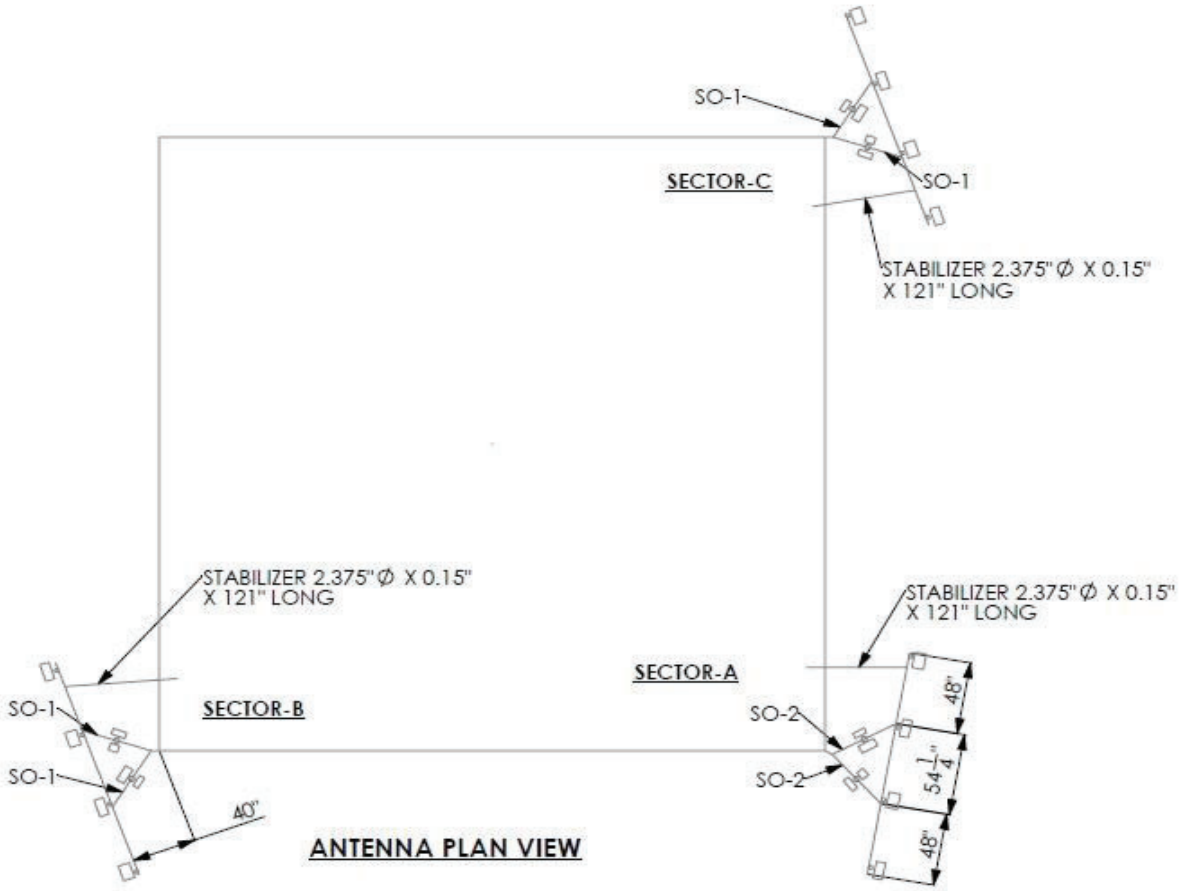
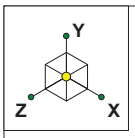
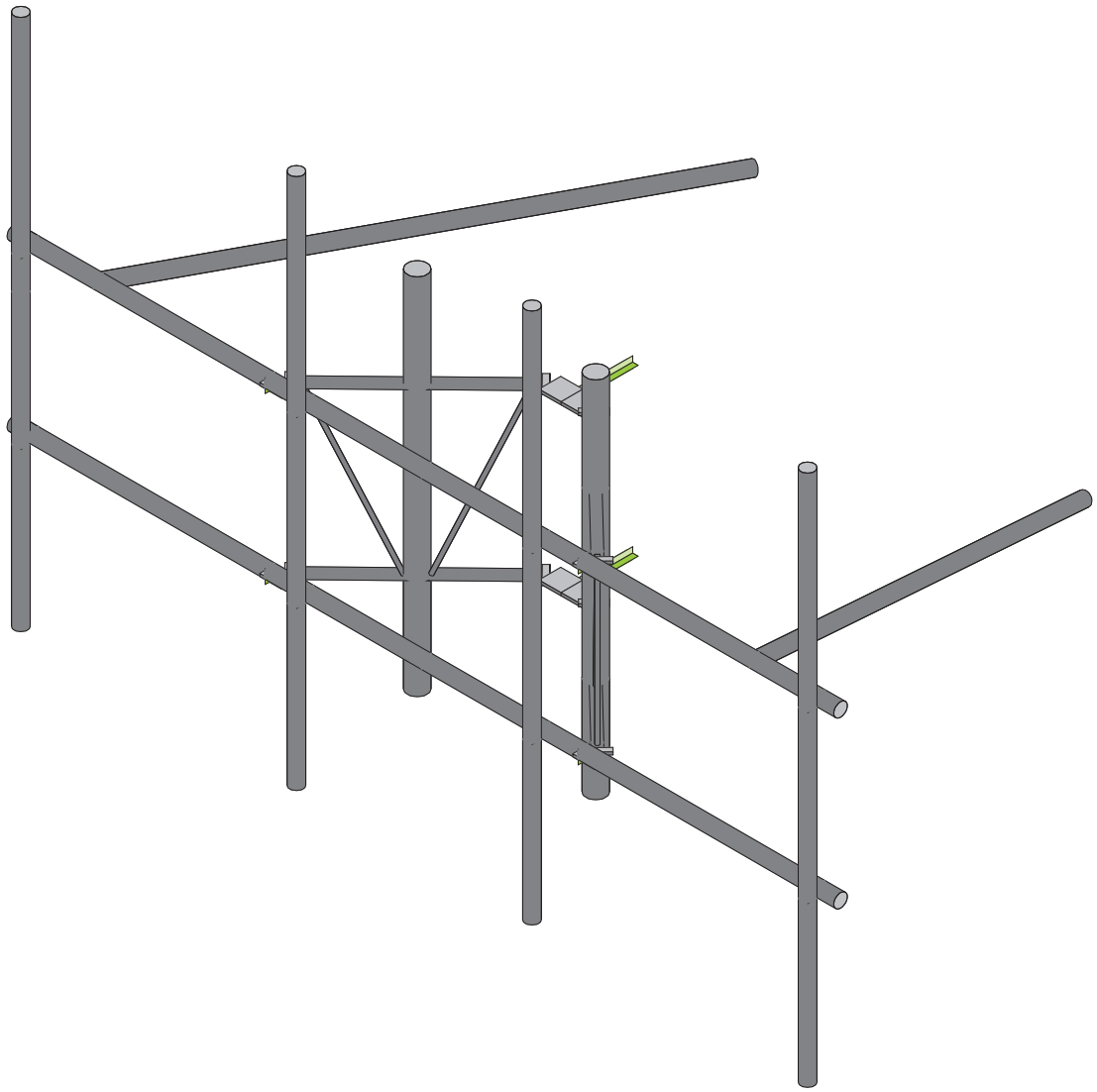


PLATE C DETAIL VIEW
(0.5" THK)

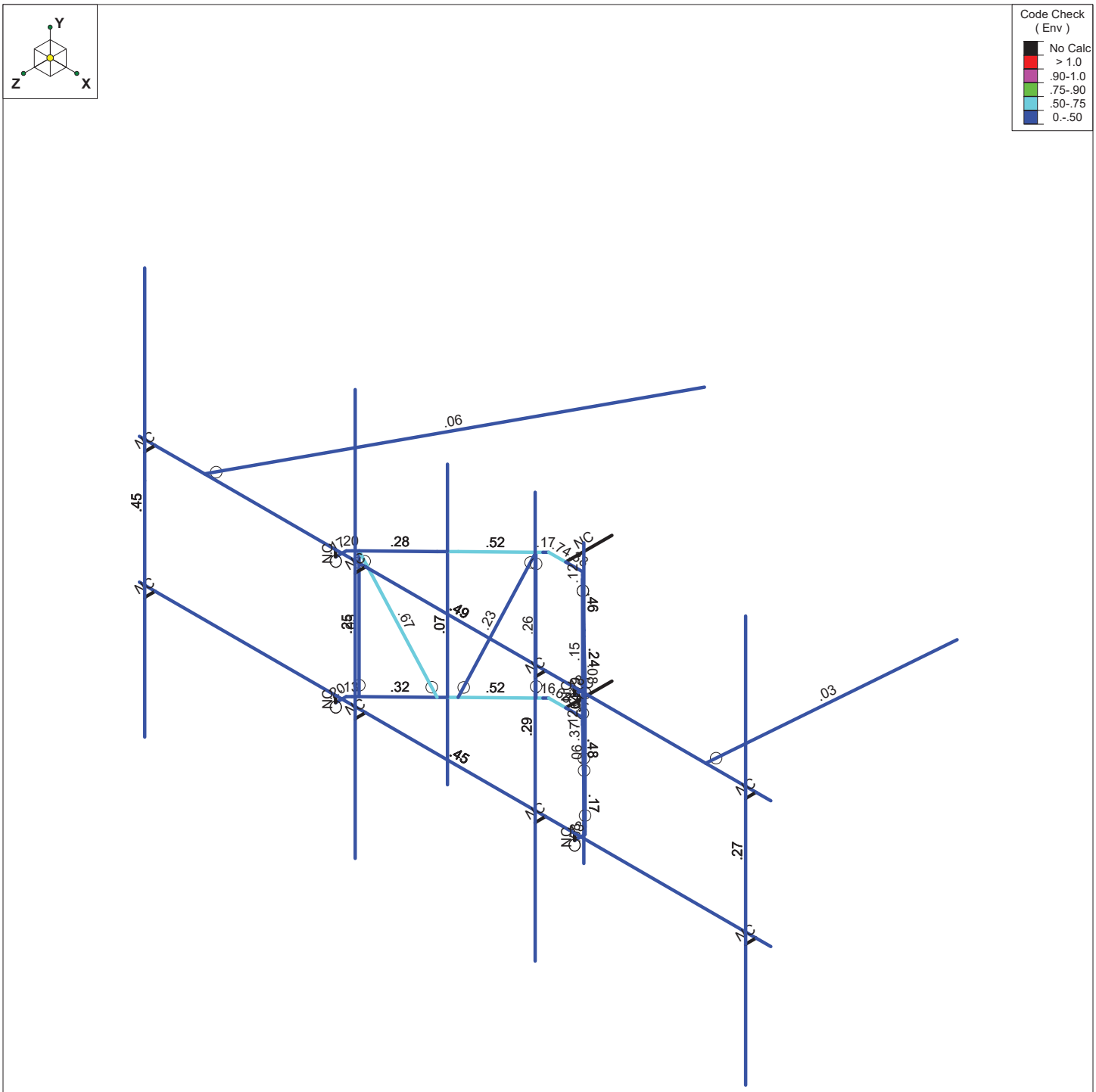
Please Insert Sketches of the Antenna Mount, cont'd





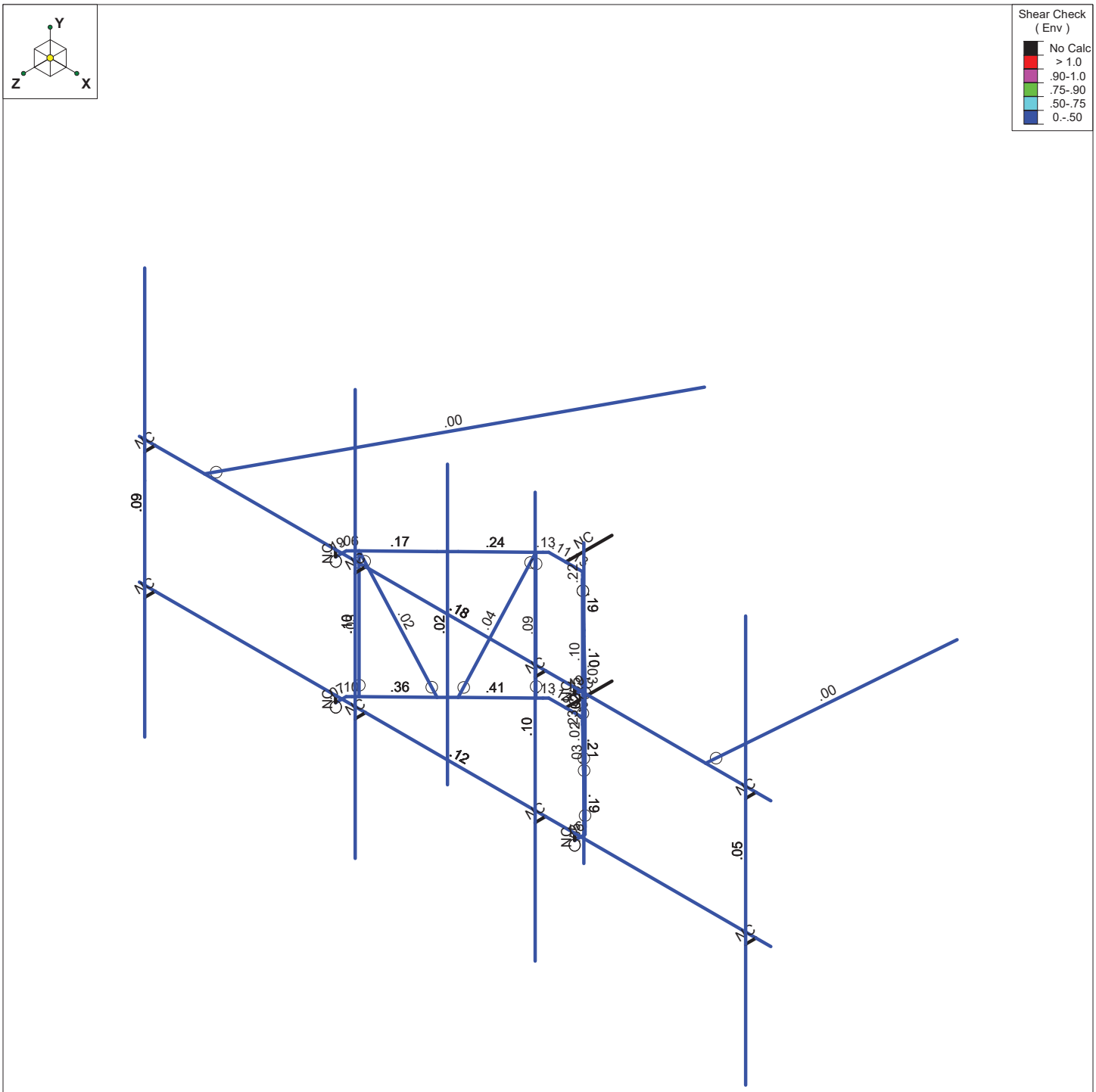


Maser Consulting	468008-VZW	SK - 4
FAC		June 7, 2021 at 7:53 PM
Project No. 10069537		Loaded - 468008-VZW_MT_LOT_...



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

Maser Consulting	468008-VZW	SK - 5
FAC		June 7, 2021 at 7:54 PM
Project No. 10069537		Loaded - 468008-VZW_MT_LOT_...



Maser Consulting	468008-VZW	SK - 6
FAC		June 7, 2021 at 7:54 PM
Project No. 10069537		Loaded - 468008-VZW_MT_LOT_...

Basic Load Cases

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

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						84		
58	Structure Wi (150 De...	None						84		
59	Structure Wi (180 De...	None						84		
60	Structure Wi (210 De...	None						84		
61	Structure Wi (240 De...	None						84		
62	Structure Wi (270 De...	None						84		
63	Structure Wi (300 De...	None						84		
64	Structure Wi (330 De...	None						84		
65	Structure Wm (0 Deg)	None						84		
66	Structure Wm (30 De...	None						84		
67	Structure Wm (60 De...	None						84		
68	Structure Wm (90 De...	None						84		
69	Structure Wm (120 D...	None						84		
70	Structure Wm (150 D...	None						84		
71	Structure Wm (180 D...	None						84		
72	Structure Wm (210 D...	None						84		
73	Structure Wm (240 D...	None						84		
74	Structure Wm (270 D...	None						84		
75	Structure Wm (300 D...	None						84		
76	Structure Wm (330 D...	None						84		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			

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								
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										

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

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	0	-0.041667	0	0	
2	N2	6.25	-0.041667	0	0	
3	N3	-6.25	-0.041667	0	0	
4	N4	0	2.458333	0	0	
5	N5	6.25	2.458333	0	0	
6	N6	-6.25	2.458333	0	0	
7	N7	5.958333	-0.041667	0	0	
8	N8	5.958333	2.458333	0	0	
9	N9	1.791667	-0.041667	0	0	
10	N10	1.791667	2.458333	0	0	
11	N11	-1.770833	-0.041667	0	0	
12	N12	-1.770833	2.458333	0	0	
13	N13	-5.9375	-0.041667	0	0	
14	N14	-5.9375	2.458333	0	0	
15	N15	5.958333	-0.041667	0.208333	0	
16	N16	5.958333	2.458333	0.208333	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
17	N17	1.791667	-0.041667	0.208333	0	
18	N18	1.791667	2.458333	0.208333	0	
19	N19	-1.770833	-0.041667	0.208333	0	
20	N20	-1.770833	2.458333	0.208333	0	
21	N21	-5.9375	-0.041667	0.208333	0	
22	N22	-5.9375	2.458333	0.208333	0	
23	N23	5.958333	5.583333	0.208333	0	
24	N24	1.791667	5.625	0.208333	0	
25	N25	-1.770833	5.604167	0.208333	0	
26	N26	-5.9375	5.604167	0.208333	0	
27	N27	5.958333	-2.458333	0.208333	0	
28	N28	1.791667	-2.416667	0.208333	0	
29	N29	-1.770833	-2.4375	0.208333	0	
30	N30	-5.9375	-2.4375	0.208333	0	
31	N32	0	2.333333	-3.105	0	
32	N34	2.364583	2.458333	0	0	
33	N36	-2.364583	2.458333	0	0	
34	N38	2.364583	2.333333	0	0	
35	N40	-2.364583	2.333333	0	0	
36	N37	2.364583	2.333333	-0.208333	0	
37	N38A	-2.364583	2.333333	-0.208333	0	
38	N40B	0	2.333333	-2.188333	0	
39	N41	0.333333	2.333333	-2.188333	0	
40	N42	-0.333333	2.333333	-2.188333	0	
41	N41A	-0.393007	2.333333	-2.130165	0	
42	N42A	0.393007	2.333333	-2.130165	0	
43	N43	-2.304888	2.333333	-0.266522	0	
44	N44	2.304888	2.333333	-0.266522	0	
45	N45	-1.348948	2.333333	-1.198344	0	
46	N46	1.348948	2.333333	-1.198344	0	
47	N47	-2.234727	2.333333	-0.334913	0	
48	N48	2.234727	2.333333	-0.334913	0	
49	N49	-0.462004	2.333333	-2.062909	0	
50	N50	0.462004	2.333333	-2.062909	0	
51	N51	-1.243355	2.333333	-1.301272	0	
52	N52	1.243355	2.333333	-1.301272	0	
53	N53	-1.453376	2.333333	-1.09655	0	
54	N54	1.453376	2.333333	-1.09655	0	
55	N66	0	-0.166667	-3.105	0	
56	N67	2.364583	-0.041667	0	0	
57	N68	-2.364583	-0.041667	0	0	
58	N69	2.364583	-0.166667	0	0	
59	N70	-2.364583	-0.166667	0	0	
60	N71	2.364583	-0.166667	-0.208333	0	
61	N72	-2.364583	-0.166667	-0.208333	0	
62	N73	0	-0.166667	-2.188333	0	
63	N74	0.333333	-0.166667	-2.188333	0	
64	N75	-0.333333	-0.166667	-2.188333	0	
65	N76	-0.393007	-0.166667	-2.130165	0	
66	N77	0.393007	-0.166667	-2.130165	0	
67	N78	-2.304888	-0.166667	-0.266522	0	
68	N79	2.304888	-0.166667	-0.266522	0	
69	N80	-1.348948	-0.166667	-1.198344	0	
70	N81	1.348948	-0.166667	-1.198344	0	
71	N82	-2.234727	-0.166667	-0.334913	0	
72	N83	2.234727	-0.166667	-0.334913	0	
73	N84	-0.462004	-0.166667	-2.062909	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
74	N85	0.462004	-0.166667	-2.062909	0	
75	N86	-1.243355	-0.166667	-1.301272	0	
76	N87	1.243355	-0.166667	-1.301272	0	
77	N88	-1.453376	-0.166667	-1.09655	0	
78	N89	1.453376	-0.166667	-1.09655	0	
79	N79A	-1.348948	3.833333	-1.198344	0	
80	N80A	1.348948	3.833333	-1.198344	0	
81	N81A	-1.348948	-1.666667	-1.198344	0	
82	N82A	1.348948	-1.666667	-1.198344	0	
83	N83A	-4.958333	2.458333	0	0	
84	N85A	-2.5	1.458333	-7.435127	0	
85	N85B	-5.9375	1.958333	0.208333	0	
86	N86A	4.330127	1.458333	-5.605	0	
87	N87A	4.958333	2.458333	0	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Pipe	PIPE_2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Face Horizontal	PIPE_2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
3	Tieback	PIPE_2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
4	Standoff Plate	PL1/2X4	Beam	Pipe	A36 Gr.36	Typical	2	.042	2.667	.154
5	TES Plate	PL1/2X4	Beam	Pipe	A36 Gr.36	Typical	2	.042	2.667	.154
6	Mast Pipe	PIPE_2.5	Beam	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
7	Standoff Horizontal	PIPE_1.25	Beam	Pipe	A53 Gr. B	Typical	.625	.184	.184	.368
8	Standoff Vertical	PIPE_3.0	Beam	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
9	Standoff Bracing	SR_0.625	Beam	BAR	A36 Gr.36	Typical	.307	.007	.007	.015

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N3	N2			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
2	M2	N6	N5			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
3	M3	N16	N8			RIGID	None	None	RIGID	Typical
4	M4	N15	N7			RIGID	None	None	RIGID	Typical
5	M5	N18	N10			RIGID	None	None	RIGID	Typical
6	M6	N17	N9			RIGID	None	None	RIGID	Typical
7	M7	N20	N12			RIGID	None	None	RIGID	Typical
8	M8	N19	N11			RIGID	None	None	RIGID	Typical
9	M9	N22	N14			RIGID	None	None	RIGID	Typical
10	M10	N21	N13			RIGID	None	None	RIGID	Typical
11	MP4A	N26	N30			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
12	MP3A	N25	N29			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
13	MP2A	N24	N28			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
14	MP1A	N23	N27			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
15	M15	N36	N40			RIGID	None	None	RIGID	Typical
16	M16	N34	N38			RIGID	None	None	RIGID	Typical
17	M17	N40	N38A		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
18	M18	N38	N37		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
19	M21A	N40B	N42		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
20	M22A	N40B	N41		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
21	M21	N40B	N32			RIGID	None	None	RIGID	Typical
22	M22	N42	N41A		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
23	M23	N41	N42A		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
24	M24	N43	N38A		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
25	M25	N44	N37		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
26	M26	N41A	N45			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
27	M27	N42A	N46			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
28	M28	N45	N43			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
29	M29	N46	N44			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
30	M35	N68	N70			RIGID	None	None	RIGID	Typical
31	M36	N67	N69			RIGID	None	None	RIGID	Typical
32	M37	N70	N72		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
33	M38	N69	N71		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
34	M39	N73	N75		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
35	M40	N73	N74		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
36	M41	N73	N66			RIGID	None	None	RIGID	Typical
37	M42	N75	N76		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
38	M43	N74	N77		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
39	M44	N78	N72		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
40	M45	N79	N71		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
41	M46	N76	N80			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
42	M47	N77	N81			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
43	M48	N80	N78			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
44	M49	N81	N79			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
45	M45A	N47	N82			Standoff Braci...	Beam	BAR	A36 Gr.36	Typical
46	M46A	N88	N47			Standoff Braci...	Beam	BAR	A36 Gr.36	Typical
47	M47A	N49	N86			Standoff Braci...	Beam	BAR	A36 Gr.36	Typical
48	M48A	N84	N49			Standoff Braci...	Beam	BAR	A36 Gr.36	Typical
49	M49A	N50	N85			Standoff Braci...	Beam	BAR	A36 Gr.36	Typical
50	M50	N87	N50			Standoff Braci...	Beam	BAR	A36 Gr.36	Typical
51	M51	N48	N89			Standoff Braci...	Beam	BAR	A36 Gr.36	Typical
52	M52	N83	N48			Standoff Braci...	Beam	BAR	A36 Gr.36	Typical
53	M53	N79A	N81A			Standoff Vertical	Beam	Pipe	A53 Gr. B	Typical
54	M54	N80A	N82A			Standoff Vertical	Beam	Pipe	A53 Gr. B	Typical
55	M55	N85A	N83A			Tieback	Beam	Pipe	A53 Gr. B	Typical
56	M56	N86A	N87A			Tieback	Beam	Pipe	A53 Gr. B	Typical

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
1	M1	Face Horizo...	12.5	4.7	4.7	Lbyy						Lateral
2	M2	Face Horizo...	12.5	4.7	4.7	Lbyy						Lateral
3	MP4A	Mount Pipe	8.042			Lbyy						Lateral
4	MP3A	Mount Pipe	8.042			Lbyy						Lateral
5	MP2A	Mount Pipe	8.042			Lbyy						Lateral
6	MP1A	Mount Pipe	8.042			Lbyy						Lateral
7	M17	Standoff Pla...	.208			Lbyy						Lateral
8	M18	Standoff Pla...	.208			Lbyy						Lateral
9	M21A	Standoff Pla...	.333			Lbyy						Lateral
10	M22A	Standoff Pla...	.333			Lbyy						Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
11	M22	Standoff Pla...	.083			Lbyy						Lateral
12	M23	Standoff Pla...	.083			Lbyy						Lateral
13	M24	Standoff Pla...	.083			Lbyy						Lateral
14	M25	Standoff Pla...	.083			Lbyy						Lateral
15	M26	Standoff Ho...	1.335			Lbyy						Lateral
16	M27	Standoff Ho...	1.335			Lbyy						Lateral
17	M28	Standoff Ho...	1.335			Lbyy						Lateral
18	M29	Standoff Ho...	1.335			Lbyy						Lateral
19	M37	Standoff Pla...	.208			Lbyy						Lateral
20	M38	Standoff Pla...	.208			Lbyy						Lateral
21	M39	Standoff Pla...	.333			Lbyy						Lateral
22	M40	Standoff Pla...	.333			Lbyy						Lateral
23	M42	Standoff Pla...	.083			Lbyy						Lateral
24	M43	Standoff Pla...	.083			Lbyy						Lateral
25	M44	Standoff Pla...	.083			Lbyy						Lateral
26	M45	Standoff Pla...	.083			Lbyy						Lateral
27	M46	Standoff Ho...	1.335			Lbyy						Lateral
28	M47	Standoff Ho...	1.335			Lbyy						Lateral
29	M48	Standoff Ho...	1.335			Lbyy						Lateral
30	M49	Standoff Ho...	1.335			Lbyy						Lateral
31	M45A	Standoff Br...	2.5			Lbyy			.7	.7		Lateral
32	M46A	Standoff Br...	2.728			Lbyy			.7	.7		Lateral
33	M47A	Standoff Br...	2.728			Lbyy			.7	.7		Lateral
34	M48A	Standoff Br...	2.5			Lbyy			.7	.7		Lateral
35	M49A	Standoff Br...	2.5			Lbyy			.7	.7		Lateral
36	M50	Standoff Br...	2.728			Lbyy			.7	.7		Lateral
37	M51	Standoff Br...	2.728			Lbyy			.7	.7		Lateral
38	M52	Standoff Br...	2.5			Lbyy			.7	.7		Lateral
39	M53	Standoff Ve...	5.5			Lbyy						Lateral
40	M54	Standoff Ve...	5.5			Lbyy						Lateral
41	M55	Tieback	7.895			Lbyy						Lateral
42	M56	Tieback	5.728			Lbyy						Lateral

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-23.2	2.5
2	MP1A	My	-.015	2.5
3	MP1A	Mz	0	2.5
4	MP2A	Y	-23	1
5	MP2A	My	-.015	1
6	MP2A	Mz	0	1
7	MP2A	Y	-23	6
8	MP2A	My	-.015	6
9	MP2A	Mz	0	6
10	MP3A	Y	-23	1
11	MP3A	My	-.015	1
12	MP3A	Mz	0	1
13	MP3A	Y	-23	6
14	MP3A	My	-.015	6
15	MP3A	Mz	0	6
16	MP4A	Y	-43.55	2
17	MP4A	My	-.029	2
18	MP4A	Mz	0	2
19	MP4A	Y	-43.55	4
20	MP4A	My	-.029	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP4A	Mz	0	4
22	M53	Y	-84.4	2.5
23	M53	My	.019	2.5
24	M53	Mz	.053	2.5
25	M54	Y	-70.3	2.5
26	M54	My	.016	2.5
27	M54	Mz	.044	2.5
28	M53	Y	-26.9	1
29	M53	My	.006	1
30	M53	Mz	.017	1

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-28.449	2.5
2	MP1A	My	-.019	2.5
3	MP1A	Mz	0	2.5
4	MP2A	Y	-78.822	1
5	MP2A	My	-.053	1
6	MP2A	Mz	0	1
7	MP2A	Y	-78.822	6
8	MP2A	My	-.053	6
9	MP2A	Mz	0	6
10	MP3A	Y	-78.822	1
11	MP3A	My	-.053	1
12	MP3A	Mz	0	1
13	MP3A	Y	-78.822	6
14	MP3A	My	-.053	6
15	MP3A	Mz	0	6
16	MP4A	Y	-33.997	2
17	MP4A	My	-.023	2
18	MP4A	Mz	0	2
19	MP4A	Y	-33.997	4
20	MP4A	My	-.023	4
21	MP4A	Mz	0	4
22	M53	Y	-42.833	2.5
23	M53	My	.01	2.5
24	M53	Mz	.027	2.5
25	M54	Y	-38.507	2.5
26	M54	My	.009	2.5
27	M54	Mz	.024	2.5
28	M53	Y	-52.77	1
29	M53	My	.012	1
30	M53	Mz	.033	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2.5
2	MP1A	Z	-56.778	2.5
3	MP1A	Mx	0	2.5
4	MP2A	X	0	1
5	MP2A	Z	-183.137	1
6	MP2A	Mx	0	1
7	MP2A	X	0	6
8	MP2A	Z	-183.137	6
9	MP2A	Mx	0	6
10	MP3A	X	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP3A	Z	-183.137	1
12	MP3A	Mx	0	1
13	MP3A	X	0	6
14	MP3A	Z	-183.137	6
15	MP3A	Mx	0	6
16	MP4A	X	0	2
17	MP4A	Z	-87.208	2
18	MP4A	Mx	0	2
19	MP4A	X	0	4
20	MP4A	Z	-87.208	4
21	MP4A	Mx	0	4
22	M53	X	0	2.5
23	M53	Z	-49.079	2.5
24	M53	Mx	-.031	2.5
25	M54	X	0	2.5
26	M54	Z	-41.296	2.5
27	M54	Mx	-.026	2.5
28	M53	X	0	1
29	M53	Z	-64.053	1
30	M53	Mx	-.04	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	24.793	2.5
2	MP1A	Z	-42.942	2.5
3	MP1A	Mx	-.017	2.5
4	MP2A	X	85.696	1
5	MP2A	Z	-148.43	1
6	MP2A	Mx	-.057	1
7	MP2A	X	85.696	6
8	MP2A	Z	-148.43	6
9	MP2A	Mx	-.057	6
10	MP3A	X	85.696	1
11	MP3A	Z	-148.43	1
12	MP3A	Mx	-.057	1
13	MP3A	X	85.696	6
14	MP3A	Z	-148.43	6
15	MP3A	Mx	-.057	6
16	MP4A	X	36.971	2
17	MP4A	Z	-64.035	2
18	MP4A	Mx	-.025	2
19	MP4A	X	36.971	4
20	MP4A	Z	-64.035	4
21	MP4A	Mx	-.025	4
22	M53	X	29.945	2.5
23	M53	Z	-51.865	2.5
24	M53	Mx	-.026	2.5
25	M54	X	28.124	2.5
26	M54	Z	-48.712	2.5
27	M54	Mx	-.024	2.5
28	M53	X	39.668	1
29	M53	Z	-68.706	1
30	M53	Mx	-.034	1

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	30.485	2.5
2	MP1A	Z	-17.601	2.5
3	MP1A	Mx	-.02	2.5
4	MP2A	X	128.086	1
5	MP2A	Z	-73.95	1
6	MP2A	Mx	-.085	1
7	MP2A	X	128.086	6
8	MP2A	Z	-73.95	6
9	MP2A	Mx	-.085	6
10	MP3A	X	128.086	1
11	MP3A	Z	-73.95	1
12	MP3A	Mx	-.085	1
13	MP3A	X	128.086	6
14	MP3A	Z	-73.95	6
15	MP3A	Mx	-.085	6
16	MP4A	X	41.057	2
17	MP4A	Z	-23.704	2
18	MP4A	Mx	-.027	2
19	MP4A	X	41.057	4
20	MP4A	Z	-23.704	4
21	MP4A	Mx	-.027	4
22	M53	X	59.497	2.5
23	M53	Z	-34.351	2.5
24	M53	Mx	-.008	2.5
25	M54	X	59.267	2.5
26	M54	Z	-34.218	2.5
27	M54	Mx	-.008	2.5
28	M53	X	79.496	1
29	M53	Z	-45.897	1
30	M53	Mx	-.011	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	28.009	2.5
2	MP1A	Z	0	2.5
3	MP1A	Mx	-.019	2.5
4	MP2A	X	136.155	1
5	MP2A	Z	0	1
6	MP2A	Mx	-.091	1
7	MP2A	X	136.155	6
8	MP2A	Z	0	6
9	MP2A	Mx	-.091	6
10	MP3A	X	136.155	1
11	MP3A	Z	0	1
12	MP3A	Mx	-.091	1
13	MP3A	X	136.155	6
14	MP3A	Z	0	6
15	MP3A	Mx	-.091	6
16	MP4A	X	34.142	2
17	MP4A	Z	0	2
18	MP4A	Mx	-.023	2
19	MP4A	X	34.142	4
20	MP4A	Z	0	4
21	MP4A	Mx	-.023	4
22	M53	X	66.704	2.5
23	M53	Z	0	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
24	M53	Mx	.015	2.5
25	M54	X	65.673	2.5
26	M54	Z	0	2.5
27	M54	Mx	.015	2.5
28	M53	X	88.97	1
29	M53	Z	0	1
30	M53	Mx	.02	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	30.485	2.5
2	MP1A	Z	17.601	2.5
3	MP1A	Mx	-.02	2.5
4	MP2A	X	128.086	1
5	MP2A	Z	73.95	1
6	MP2A	Mx	-.085	1
7	MP2A	X	128.086	6
8	MP2A	Z	73.95	6
9	MP2A	Mx	-.085	6
10	MP3A	X	128.086	1
11	MP3A	Z	73.95	1
12	MP3A	Mx	-.085	1
13	MP3A	X	128.086	6
14	MP3A	Z	73.95	6
15	MP3A	Mx	-.085	6
16	MP4A	X	41.057	2
17	MP4A	Z	23.704	2
18	MP4A	Mx	-.027	2
19	MP4A	X	41.057	4
20	MP4A	Z	23.704	4
21	MP4A	Mx	-.027	4
22	M53	X	48.405	2.5
23	M53	Z	27.947	2.5
24	M53	Mx	.029	2.5
25	M54	X	43.926	2.5
26	M54	Z	25.361	2.5
27	M54	Mx	.026	2.5
28	M53	X	63.815	1
29	M53	Z	36.844	1
30	M53	Mx	.038	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	24.793	2.5
2	MP1A	Z	42.942	2.5
3	MP1A	Mx	-.017	2.5
4	MP2A	X	85.696	1
5	MP2A	Z	148.43	1
6	MP2A	Mx	-.057	1
7	MP2A	X	85.696	6
8	MP2A	Z	148.43	6
9	MP2A	Mx	-.057	6
10	MP3A	X	85.696	1
11	MP3A	Z	148.43	1
12	MP3A	Mx	-.057	1
13	MP3A	X	85.696	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
14	MP3A	Z	148.43	6
15	MP3A	Mx	-.057	6
16	MP4A	X	36.971	2
17	MP4A	Z	64.035	2
18	MP4A	Mx	-.025	2
19	MP4A	X	36.971	4
20	MP4A	Z	64.035	4
21	MP4A	Mx	-.025	4
22	M53	X	23.541	2.5
23	M53	Z	40.773	2.5
24	M53	Mx	.031	2.5
25	M54	X	19.267	2.5
26	M54	Z	33.371	2.5
27	M54	Mx	.025	2.5
28	M53	X	30.614	1
29	M53	Z	53.026	1
30	M53	Mx	.04	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2.5
2	MP1A	Z	56.778	2.5
3	MP1A	Mx	0	2.5
4	MP2A	X	0	1
5	MP2A	Z	183.137	1
6	MP2A	Mx	0	1
7	MP2A	X	0	6
8	MP2A	Z	183.137	6
9	MP2A	Mx	0	6
10	MP3A	X	0	1
11	MP3A	Z	183.137	1
12	MP3A	Mx	0	1
13	MP3A	X	0	6
14	MP3A	Z	183.137	6
15	MP3A	Mx	0	6
16	MP4A	X	0	2
17	MP4A	Z	87.208	2
18	MP4A	Mx	0	2
19	MP4A	X	0	4
20	MP4A	Z	87.208	4
21	MP4A	Mx	0	4
22	M53	X	0	2.5
23	M53	Z	49.079	2.5
24	M53	Mx	.031	2.5
25	M54	X	0	2.5
26	M54	Z	41.296	2.5
27	M54	Mx	.026	2.5
28	M53	X	0	1
29	M53	Z	64.053	1
30	M53	Mx	.04	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-24.793	2.5
2	MP1A	Z	42.942	2.5
3	MP1A	Mx	.017	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP2A	X	-85.696	1
5	MP2A	Z	148.43	1
6	MP2A	Mx	.057	1
7	MP2A	X	-85.696	6
8	MP2A	Z	148.43	6
9	MP2A	Mx	.057	6
10	MP3A	X	-85.696	1
11	MP3A	Z	148.43	1
12	MP3A	Mx	.057	1
13	MP3A	X	-85.696	6
14	MP3A	Z	148.43	6
15	MP3A	Mx	.057	6
16	MP4A	X	-36.971	2
17	MP4A	Z	64.035	2
18	MP4A	Mx	.025	2
19	MP4A	X	-36.971	4
20	MP4A	Z	64.035	4
21	MP4A	Mx	.025	4
22	M53	X	-29.945	2.5
23	M53	Z	51.865	2.5
24	M53	Mx	.026	2.5
25	M54	X	-28.124	2.5
26	M54	Z	48.712	2.5
27	M54	Mx	.024	2.5
28	M53	X	-39.668	1
29	M53	Z	68.706	1
30	M53	Mx	.034	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-30.485	2.5
2	MP1A	Z	17.601	2.5
3	MP1A	Mx	.02	2.5
4	MP2A	X	-128.086	1
5	MP2A	Z	73.95	1
6	MP2A	Mx	.085	1
7	MP2A	X	-128.086	6
8	MP2A	Z	73.95	6
9	MP2A	Mx	.085	6
10	MP3A	X	-128.086	1
11	MP3A	Z	73.95	1
12	MP3A	Mx	.085	1
13	MP3A	X	-128.086	6
14	MP3A	Z	73.95	6
15	MP3A	Mx	.085	6
16	MP4A	X	-41.057	2
17	MP4A	Z	23.704	2
18	MP4A	Mx	.027	2
19	MP4A	X	-41.057	4
20	MP4A	Z	23.704	4
21	MP4A	Mx	.027	4
22	M53	X	-59.497	2.5
23	M53	Z	34.351	2.5
24	M53	Mx	.008	2.5
25	M54	X	-59.267	2.5
26	M54	Z	34.218	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	M54	Mx	.008	2.5
28	M53	X	-79.496	1
29	M53	Z	45.897	1
30	M53	Mx	.011	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-28.009	2.5
2	MP1A	Z	0	2.5
3	MP1A	Mx	.019	2.5
4	MP2A	X	-136.155	1
5	MP2A	Z	0	1
6	MP2A	Mx	.091	1
7	MP2A	X	-136.155	6
8	MP2A	Z	0	6
9	MP2A	Mx	.091	6
10	MP3A	X	-136.155	1
11	MP3A	Z	0	1
12	MP3A	Mx	.091	1
13	MP3A	X	-136.155	6
14	MP3A	Z	0	6
15	MP3A	Mx	.091	6
16	MP4A	X	-34.142	2
17	MP4A	Z	0	2
18	MP4A	Mx	.023	2
19	MP4A	X	-34.142	4
20	MP4A	Z	0	4
21	MP4A	Mx	.023	4
22	M53	X	-66.704	2.5
23	M53	Z	0	2.5
24	M53	Mx	-.015	2.5
25	M54	X	-65.673	2.5
26	M54	Z	0	2.5
27	M54	Mx	-.015	2.5
28	M53	X	-88.97	1
29	M53	Z	0	1
30	M53	Mx	-.02	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-30.485	2.5
2	MP1A	Z	-17.601	2.5
3	MP1A	Mx	.02	2.5
4	MP2A	X	-128.086	1
5	MP2A	Z	-73.95	1
6	MP2A	Mx	.085	1
7	MP2A	X	-128.086	6
8	MP2A	Z	-73.95	6
9	MP2A	Mx	.085	6
10	MP3A	X	-128.086	1
11	MP3A	Z	-73.95	1
12	MP3A	Mx	.085	1
13	MP3A	X	-128.086	6
14	MP3A	Z	-73.95	6
15	MP3A	Mx	.085	6
16	MP4A	X	-41.057	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP4A	Z	-23.704	2
18	MP4A	Mx	.027	2
19	MP4A	X	-41.057	4
20	MP4A	Z	-23.704	4
21	MP4A	Mx	.027	4
22	M53	X	-48.405	2.5
23	M53	Z	-27.947	2.5
24	M53	Mx	-.029	2.5
25	M54	X	-43.926	2.5
26	M54	Z	-25.361	2.5
27	M54	Mx	-.026	2.5
28	M53	X	-63.815	1
29	M53	Z	-36.844	1
30	M53	Mx	-.038	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-24.793	2.5
2	MP1A	Z	-42.942	2.5
3	MP1A	Mx	.017	2.5
4	MP2A	X	-85.696	1
5	MP2A	Z	-148.43	1
6	MP2A	Mx	.057	1
7	MP2A	X	-85.696	6
8	MP2A	Z	-148.43	6
9	MP2A	Mx	.057	6
10	MP3A	X	-85.696	1
11	MP3A	Z	-148.43	1
12	MP3A	Mx	.057	1
13	MP3A	X	-85.696	6
14	MP3A	Z	-148.43	6
15	MP3A	Mx	.057	6
16	MP4A	X	-36.971	2
17	MP4A	Z	-64.035	2
18	MP4A	Mx	.025	2
19	MP4A	X	-36.971	4
20	MP4A	Z	-64.035	4
21	MP4A	Mx	.025	4
22	M53	X	-23.541	2.5
23	M53	Z	-40.773	2.5
24	M53	Mx	-.031	2.5
25	M54	X	-19.267	2.5
26	M54	Z	-33.371	2.5
27	M54	Mx	-.025	2.5
28	M53	X	-30.614	1
29	M53	Z	-53.026	1
30	M53	Mx	-.04	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2.5
2	MP1A	Z	-12.604	2.5
3	MP1A	Mx	0	2.5
4	MP2A	X	0	1
5	MP2A	Z	-36.343	1
6	MP2A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP2A	X	0	6
8	MP2A	Z	-36.343	6
9	MP2A	Mx	0	6
10	MP3A	X	0	1
11	MP3A	Z	-36.343	1
12	MP3A	Mx	0	1
13	MP3A	X	0	6
14	MP3A	Z	-36.343	6
15	MP3A	Mx	0	6
16	MP4A	X	0	2
17	MP4A	Z	-17.906	2
18	MP4A	Mx	0	2
19	MP4A	X	0	4
20	MP4A	Z	-17.906	4
21	MP4A	Mx	0	4
22	M53	X	0	2.5
23	M53	Z	-10.994	2.5
24	M53	Mx	-.007	2.5
25	M54	X	0	2.5
26	M54	Z	-9.451	2.5
27	M54	Mx	-.006	2.5
28	M53	X	0	1
29	M53	Z	-14.042	1
30	M53	Mx	-.009	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	5.574	2.5
2	MP1A	Z	-9.654	2.5
3	MP1A	Mx	-.004	2.5
4	MP2A	X	17.063	1
5	MP2A	Z	-29.554	1
6	MP2A	Mx	-.011	1
7	MP2A	X	17.063	6
8	MP2A	Z	-29.554	6
9	MP2A	Mx	-.011	6
10	MP3A	X	17.063	1
11	MP3A	Z	-29.554	1
12	MP3A	Mx	-.011	1
13	MP3A	X	17.063	6
14	MP3A	Z	-29.554	6
15	MP3A	Mx	-.011	6
16	MP4A	X	7.665	2
17	MP4A	Z	-13.276	2
18	MP4A	Mx	-.005	2
19	MP4A	X	7.665	4
20	MP4A	Z	-13.276	4
21	MP4A	Mx	-.005	4
22	M53	X	6.578	2.5
23	M53	Z	-11.393	2.5
24	M53	Mx	-.006	2.5
25	M54	X	6.217	2.5
26	M54	Z	-10.768	2.5
27	M54	Mx	-.005	2.5
28	M53	X	8.509	1
29	M53	Z	-14.738	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	M53	Mx	-.007	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	7.13	2.5
2	MP1A	Z	-4.117	2.5
3	MP1A	Mx	-.005	2.5
4	MP2A	X	25.713	1
5	MP2A	Z	-14.845	1
6	MP2A	Mx	-.017	1
7	MP2A	X	25.713	6
8	MP2A	Z	-14.845	6
9	MP2A	Mx	-.017	6
10	MP3A	X	25.713	1
11	MP3A	Z	-14.845	1
12	MP3A	Mx	-.017	1
13	MP3A	X	25.713	6
14	MP3A	Z	-14.845	6
15	MP3A	Mx	-.017	6
16	MP4A	X	8.813	2
17	MP4A	Z	-5.088	2
18	MP4A	Mx	-.006	2
19	MP4A	X	8.813	4
20	MP4A	Z	-5.088	4
21	MP4A	Mx	-.006	4
22	M53	X	12.919	2.5
23	M53	Z	-7.459	2.5
24	M53	Mx	-.002	2.5
25	M54	X	12.874	2.5
26	M54	Z	-7.433	2.5
27	M54	Mx	-.002	2.5
28	M53	X	16.839	1
29	M53	Z	-9.722	1
30	M53	Mx	-.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	6.776	2.5
2	MP1A	Z	0	2.5
3	MP1A	Mx	-.005	2.5
4	MP2A	X	27.473	1
5	MP2A	Z	0	1
6	MP2A	Mx	-.018	1
7	MP2A	X	27.473	6
8	MP2A	Z	0	6
9	MP2A	Mx	-.018	6
10	MP3A	X	27.473	1
11	MP3A	Z	0	1
12	MP3A	Mx	-.018	1
13	MP3A	X	27.473	6
14	MP3A	Z	0	6
15	MP3A	Mx	-.018	6
16	MP4A	X	7.6	2
17	MP4A	Z	0	2
18	MP4A	Mx	-.005	2
19	MP4A	X	7.6	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP4A	Z	0	4
21	MP4A	Mx	-.005	4
22	M53	X	14.518	2.5
23	M53	Z	0	2.5
24	M53	Mx	.003	2.5
25	M54	X	14.314	2.5
26	M54	Z	0	2.5
27	M54	Mx	.003	2.5
28	M53	X	18.894	1
29	M53	Z	0	1
30	M53	Mx	.004	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	7.13	2.5
2	MP1A	Z	4.117	2.5
3	MP1A	Mx	-.005	2.5
4	MP2A	X	25.713	1
5	MP2A	Z	14.845	1
6	MP2A	Mx	-.017	1
7	MP2A	X	25.713	6
8	MP2A	Z	14.845	6
9	MP2A	Mx	-.017	6
10	MP3A	X	25.713	1
11	MP3A	Z	14.845	1
12	MP3A	Mx	-.017	1
13	MP3A	X	25.713	6
14	MP3A	Z	14.845	6
15	MP3A	Mx	-.017	6
16	MP4A	X	8.813	2
17	MP4A	Z	5.088	2
18	MP4A	Mx	-.006	2
19	MP4A	X	8.813	4
20	MP4A	Z	5.088	4
21	MP4A	Mx	-.006	4
22	M53	X	10.701	2.5
23	M53	Z	6.178	2.5
24	M53	Mx	.006	2.5
25	M54	X	9.813	2.5
26	M54	Z	5.666	2.5
27	M54	Mx	.006	2.5
28	M53	X	13.786	1
29	M53	Z	7.959	1
30	M53	Mx	.008	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	5.574	2.5
2	MP1A	Z	9.654	2.5
3	MP1A	Mx	-.004	2.5
4	MP2A	X	17.063	1
5	MP2A	Z	29.554	1
6	MP2A	Mx	-.011	1
7	MP2A	X	17.063	6
8	MP2A	Z	29.554	6
9	MP2A	Mx	-.011	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP3A	X	17.063	1
11	MP3A	Z	29.554	1
12	MP3A	Mx	-.011	1
13	MP3A	X	17.063	6
14	MP3A	Z	29.554	6
15	MP3A	Mx	-.011	6
16	MP4A	X	7.665	2
17	MP4A	Z	13.276	2
18	MP4A	Mx	-.005	2
19	MP4A	X	7.665	4
20	MP4A	Z	13.276	4
21	MP4A	Mx	-.005	4
22	M53	X	5.297	2.5
23	M53	Z	9.175	2.5
24	M53	Mx	.007	2.5
25	M54	X	4.45	2.5
26	M54	Z	7.707	2.5
27	M54	Mx	.006	2.5
28	M53	X	6.746	1
29	M53	Z	11.684	1
30	M53	Mx	.009	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2.5
2	MP1A	Z	12.604	2.5
3	MP1A	Mx	0	2.5
4	MP2A	X	0	1
5	MP2A	Z	36.343	1
6	MP2A	Mx	0	1
7	MP2A	X	0	6
8	MP2A	Z	36.343	6
9	MP2A	Mx	0	6
10	MP3A	X	0	1
11	MP3A	Z	36.343	1
12	MP3A	Mx	0	1
13	MP3A	X	0	6
14	MP3A	Z	36.343	6
15	MP3A	Mx	0	6
16	MP4A	X	0	2
17	MP4A	Z	17.906	2
18	MP4A	Mx	0	2
19	MP4A	X	0	4
20	MP4A	Z	17.906	4
21	MP4A	Mx	0	4
22	M53	X	0	2.5
23	M53	Z	10.994	2.5
24	M53	Mx	.007	2.5
25	M54	X	0	2.5
26	M54	Z	9.451	2.5
27	M54	Mx	.006	2.5
28	M53	X	0	1
29	M53	Z	14.042	1
30	M53	Mx	.009	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-5.574	2.5
2	MP1A	Z	9.654	2.5
3	MP1A	Mx	.004	2.5
4	MP2A	X	-17.063	1
5	MP2A	Z	29.554	1
6	MP2A	Mx	.011	1
7	MP2A	X	-17.063	6
8	MP2A	Z	29.554	6
9	MP2A	Mx	.011	6
10	MP3A	X	-17.063	1
11	MP3A	Z	29.554	1
12	MP3A	Mx	.011	1
13	MP3A	X	-17.063	6
14	MP3A	Z	29.554	6
15	MP3A	Mx	.011	6
16	MP4A	X	-7.665	2
17	MP4A	Z	13.276	2
18	MP4A	Mx	.005	2
19	MP4A	X	-7.665	4
20	MP4A	Z	13.276	4
21	MP4A	Mx	.005	4
22	M53	X	-6.578	2.5
23	M53	Z	11.393	2.5
24	M53	Mx	.006	2.5
25	M54	X	-6.217	2.5
26	M54	Z	10.768	2.5
27	M54	Mx	.005	2.5
28	M53	X	-8.509	1
29	M53	Z	14.738	1
30	M53	Mx	.007	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-7.13	2.5
2	MP1A	Z	4.117	2.5
3	MP1A	Mx	.005	2.5
4	MP2A	X	-25.713	1
5	MP2A	Z	14.845	1
6	MP2A	Mx	.017	1
7	MP2A	X	-25.713	6
8	MP2A	Z	14.845	6
9	MP2A	Mx	.017	6
10	MP3A	X	-25.713	1
11	MP3A	Z	14.845	1
12	MP3A	Mx	.017	1
13	MP3A	X	-25.713	6
14	MP3A	Z	14.845	6
15	MP3A	Mx	.017	6
16	MP4A	X	-8.813	2
17	MP4A	Z	5.088	2
18	MP4A	Mx	.006	2
19	MP4A	X	-8.813	4
20	MP4A	Z	5.088	4
21	MP4A	Mx	.006	4
22	M53	X	-12.919	2.5
23	M53	Z	7.459	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
24	M53	Mx	.002	2.5
25	M54	X	-12.874	2.5
26	M54	Z	7.433	2.5
27	M54	Mx	.002	2.5
28	M53	X	-16.839	1
29	M53	Z	9.722	1
30	M53	Mx	.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-6.776	2.5
2	MP1A	Z	0	2.5
3	MP1A	Mx	.005	2.5
4	MP2A	X	-27.473	1
5	MP2A	Z	0	1
6	MP2A	Mx	.018	1
7	MP2A	X	-27.473	6
8	MP2A	Z	0	6
9	MP2A	Mx	.018	6
10	MP3A	X	-27.473	1
11	MP3A	Z	0	1
12	MP3A	Mx	.018	1
13	MP3A	X	-27.473	6
14	MP3A	Z	0	6
15	MP3A	Mx	.018	6
16	MP4A	X	-7.6	2
17	MP4A	Z	0	2
18	MP4A	Mx	.005	2
19	MP4A	X	-7.6	4
20	MP4A	Z	0	4
21	MP4A	Mx	.005	4
22	M53	X	-14.518	2.5
23	M53	Z	0	2.5
24	M53	Mx	-.003	2.5
25	M54	X	-14.314	2.5
26	M54	Z	0	2.5
27	M54	Mx	-.003	2.5
28	M53	X	-18.894	1
29	M53	Z	0	1
30	M53	Mx	-.004	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-7.13	2.5
2	MP1A	Z	-4.117	2.5
3	MP1A	Mx	.005	2.5
4	MP2A	X	-25.713	1
5	MP2A	Z	-14.845	1
6	MP2A	Mx	.017	1
7	MP2A	X	-25.713	6
8	MP2A	Z	-14.845	6
9	MP2A	Mx	.017	6
10	MP3A	X	-25.713	1
11	MP3A	Z	-14.845	1
12	MP3A	Mx	.017	1
13	MP3A	X	-25.713	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
14	MP3A	Z	-14.845	6
15	MP3A	Mx	.017	6
16	MP4A	X	-8.813	2
17	MP4A	Z	-5.088	2
18	MP4A	Mx	.006	2
19	MP4A	X	-8.813	4
20	MP4A	Z	-5.088	4
21	MP4A	Mx	.006	4
22	M53	X	-10.701	2.5
23	M53	Z	-6.178	2.5
24	M53	Mx	-.006	2.5
25	M54	X	-9.813	2.5
26	M54	Z	-5.666	2.5
27	M54	Mx	-.006	2.5
28	M53	X	-13.786	1
29	M53	Z	-7.959	1
30	M53	Mx	-.008	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-5.574	2.5
2	MP1A	Z	-9.654	2.5
3	MP1A	Mx	.004	2.5
4	MP2A	X	-17.063	1
5	MP2A	Z	-29.554	1
6	MP2A	Mx	.011	1
7	MP2A	X	-17.063	6
8	MP2A	Z	-29.554	6
9	MP2A	Mx	.011	6
10	MP3A	X	-17.063	1
11	MP3A	Z	-29.554	1
12	MP3A	Mx	.011	1
13	MP3A	X	-17.063	6
14	MP3A	Z	-29.554	6
15	MP3A	Mx	.011	6
16	MP4A	X	-7.665	2
17	MP4A	Z	-13.276	2
18	MP4A	Mx	.005	2
19	MP4A	X	-7.665	4
20	MP4A	Z	-13.276	4
21	MP4A	Mx	.005	4
22	M53	X	-5.297	2.5
23	M53	Z	-9.175	2.5
24	M53	Mx	-.007	2.5
25	M54	X	-4.45	2.5
26	M54	Z	-7.707	2.5
27	M54	Mx	-.006	2.5
28	M53	X	-6.746	1
29	M53	Z	-11.684	1
30	M53	Mx	-.009	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2.5
2	MP1A	Z	-3.733	2.5
3	MP1A	Mx	0	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP2A	X	0	1
5	MP2A	Z	-12.041	1
6	MP2A	Mx	0	1
7	MP2A	X	0	6
8	MP2A	Z	-12.041	6
9	MP2A	Mx	0	6
10	MP3A	X	0	1
11	MP3A	Z	-12.041	1
12	MP3A	Mx	0	1
13	MP3A	X	0	6
14	MP3A	Z	-12.041	6
15	MP3A	Mx	0	6
16	MP4A	X	0	2
17	MP4A	Z	-5.734	2
18	MP4A	Mx	0	2
19	MP4A	X	0	4
20	MP4A	Z	-5.734	4
21	MP4A	Mx	0	4
22	M53	X	0	2.5
23	M53	Z	-3.227	2.5
24	M53	Mx	-.002	2.5
25	M54	X	0	2.5
26	M54	Z	-2.715	2.5
27	M54	Mx	-.002	2.5
28	M53	X	0	1
29	M53	Z	-4.211	1
30	M53	Mx	-.003	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	1.63	2.5
2	MP1A	Z	-2.823	2.5
3	MP1A	Mx	-.001	2.5
4	MP2A	X	5.634	1
5	MP2A	Z	-9.759	1
6	MP2A	Mx	-.004	1
7	MP2A	X	5.634	6
8	MP2A	Z	-9.759	6
9	MP2A	Mx	-.004	6
10	MP3A	X	5.634	1
11	MP3A	Z	-9.759	1
12	MP3A	Mx	-.004	1
13	MP3A	X	5.634	6
14	MP3A	Z	-9.759	6
15	MP3A	Mx	-.004	6
16	MP4A	X	2.431	2
17	MP4A	Z	-4.21	2
18	MP4A	Mx	-.002	2
19	MP4A	X	2.431	4
20	MP4A	Z	-4.21	4
21	MP4A	Mx	-.002	4
22	M53	X	1.969	2.5
23	M53	Z	-3.41	2.5
24	M53	Mx	-.002	2.5
25	M54	X	1.849	2.5
26	M54	Z	-3.203	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	M54	Mx	-.002	2.5
28	M53	X	2.608	1
29	M53	Z	-4.517	1
30	M53	Mx	-.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	2.004	2.5
2	MP1A	Z	-1.157	2.5
3	MP1A	Mx	-.001	2.5
4	MP2A	X	8.421	1
5	MP2A	Z	-4.862	1
6	MP2A	Mx	-.006	1
7	MP2A	X	8.421	6
8	MP2A	Z	-4.862	6
9	MP2A	Mx	-.006	6
10	MP3A	X	8.421	1
11	MP3A	Z	-4.862	1
12	MP3A	Mx	-.006	1
13	MP3A	X	8.421	6
14	MP3A	Z	-4.862	6
15	MP3A	Mx	-.006	6
16	MP4A	X	2.699	2
17	MP4A	Z	-1.558	2
18	MP4A	Mx	-.002	2
19	MP4A	X	2.699	4
20	MP4A	Z	-1.558	4
21	MP4A	Mx	-.002	4
22	M53	X	3.912	2.5
23	M53	Z	-2.258	2.5
24	M53	Mx	-.000523	2.5
25	M54	X	3.897	2.5
26	M54	Z	-2.25	2.5
27	M54	Mx	-.000521	2.5
28	M53	X	5.227	1
29	M53	Z	-3.018	1
30	M53	Mx	-.000699	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	1.841	2.5
2	MP1A	Z	0	2.5
3	MP1A	Mx	-.001	2.5
4	MP2A	X	8.952	1
5	MP2A	Z	0	1
6	MP2A	Mx	-.006	1
7	MP2A	X	8.952	6
8	MP2A	Z	0	6
9	MP2A	Mx	-.006	6
10	MP3A	X	8.952	1
11	MP3A	Z	0	1
12	MP3A	Mx	-.006	1
13	MP3A	X	8.952	6
14	MP3A	Z	0	6
15	MP3A	Mx	-.006	6
16	MP4A	X	2.245	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP4A	Z	0	2
18	MP4A	Mx	-.001	2
19	MP4A	X	2.245	4
20	MP4A	Z	0	4
21	MP4A	Mx	-.001	4
22	M53	X	4.386	2.5
23	M53	Z	0	2.5
24	M53	Mx	.001	2.5
25	M54	X	4.318	2.5
26	M54	Z	0	2.5
27	M54	Mx	.000985	2.5
28	M53	X	5.849	1
29	M53	Z	0	1
30	M53	Mx	.001	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	2.004	2.5
2	MP1A	Z	1.157	2.5
3	MP1A	Mx	-.001	2.5
4	MP2A	X	8.421	1
5	MP2A	Z	4.862	1
6	MP2A	Mx	-.006	1
7	MP2A	X	8.421	6
8	MP2A	Z	4.862	6
9	MP2A	Mx	-.006	6
10	MP3A	X	8.421	1
11	MP3A	Z	4.862	1
12	MP3A	Mx	-.006	1
13	MP3A	X	8.421	6
14	MP3A	Z	4.862	6
15	MP3A	Mx	-.006	6
16	MP4A	X	2.699	2
17	MP4A	Z	1.558	2
18	MP4A	Mx	-.002	2
19	MP4A	X	2.699	4
20	MP4A	Z	1.558	4
21	MP4A	Mx	-.002	4
22	M53	X	3.182	2.5
23	M53	Z	1.837	2.5
24	M53	Mx	.002	2.5
25	M54	X	2.888	2.5
26	M54	Z	1.667	2.5
27	M54	Mx	.002	2.5
28	M53	X	4.196	1
29	M53	Z	2.422	1
30	M53	Mx	.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	1.63	2.5
2	MP1A	Z	2.823	2.5
3	MP1A	Mx	-.001	2.5
4	MP2A	X	5.634	1
5	MP2A	Z	9.759	1
6	MP2A	Mx	-.004	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP2A	X	5.634	6
8	MP2A	Z	9.759	6
9	MP2A	Mx	-.004	6
10	MP3A	X	5.634	1
11	MP3A	Z	9.759	1
12	MP3A	Mx	-.004	1
13	MP3A	X	5.634	6
14	MP3A	Z	9.759	6
15	MP3A	Mx	-.004	6
16	MP4A	X	2.431	2
17	MP4A	Z	4.21	2
18	MP4A	Mx	-.002	2
19	MP4A	X	2.431	4
20	MP4A	Z	4.21	4
21	MP4A	Mx	-.002	4
22	M53	X	1.548	2.5
23	M53	Z	2.681	2.5
24	M53	Mx	.002	2.5
25	M54	X	1.267	2.5
26	M54	Z	2.194	2.5
27	M54	Mx	.002	2.5
28	M53	X	2.013	1
29	M53	Z	3.486	1
30	M53	Mx	.003	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2.5
2	MP1A	Z	3.733	2.5
3	MP1A	Mx	0	2.5
4	MP2A	X	0	1
5	MP2A	Z	12.041	1
6	MP2A	Mx	0	1
7	MP2A	X	0	6
8	MP2A	Z	12.041	6
9	MP2A	Mx	0	6
10	MP3A	X	0	1
11	MP3A	Z	12.041	1
12	MP3A	Mx	0	1
13	MP3A	X	0	6
14	MP3A	Z	12.041	6
15	MP3A	Mx	0	6
16	MP4A	X	0	2
17	MP4A	Z	5.734	2
18	MP4A	Mx	0	2
19	MP4A	X	0	4
20	MP4A	Z	5.734	4
21	MP4A	Mx	0	4
22	M53	X	0	2.5
23	M53	Z	3.227	2.5
24	M53	Mx	.002	2.5
25	M54	X	0	2.5
26	M54	Z	2.715	2.5
27	M54	Mx	.002	2.5
28	M53	X	0	1
29	M53	Z	4.211	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	M53	Mx	.003	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-1.63	2.5
2	MP1A	Z	2.823	2.5
3	MP1A	Mx	.001	2.5
4	MP2A	X	-5.634	1
5	MP2A	Z	9.759	1
6	MP2A	Mx	.004	1
7	MP2A	X	-5.634	6
8	MP2A	Z	9.759	6
9	MP2A	Mx	.004	6
10	MP3A	X	-5.634	1
11	MP3A	Z	9.759	1
12	MP3A	Mx	.004	1
13	MP3A	X	-5.634	6
14	MP3A	Z	9.759	6
15	MP3A	Mx	.004	6
16	MP4A	X	-2.431	2
17	MP4A	Z	4.21	2
18	MP4A	Mx	.002	2
19	MP4A	X	-2.431	4
20	MP4A	Z	4.21	4
21	MP4A	Mx	.002	4
22	M53	X	-1.969	2.5
23	M53	Z	3.41	2.5
24	M53	Mx	.002	2.5
25	M54	X	-1.849	2.5
26	M54	Z	3.203	2.5
27	M54	Mx	.002	2.5
28	M53	X	-2.608	1
29	M53	Z	4.517	1
30	M53	Mx	.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-2.004	2.5
2	MP1A	Z	1.157	2.5
3	MP1A	Mx	.001	2.5
4	MP2A	X	-8.421	1
5	MP2A	Z	4.862	1
6	MP2A	Mx	.006	1
7	MP2A	X	-8.421	6
8	MP2A	Z	4.862	6
9	MP2A	Mx	.006	6
10	MP3A	X	-8.421	1
11	MP3A	Z	4.862	1
12	MP3A	Mx	.006	1
13	MP3A	X	-8.421	6
14	MP3A	Z	4.862	6
15	MP3A	Mx	.006	6
16	MP4A	X	-2.699	2
17	MP4A	Z	1.558	2
18	MP4A	Mx	.002	2
19	MP4A	X	-2.699	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP4A	Z	1.558	4
21	MP4A	Mx	.002	4
22	M53	X	-3.912	2.5
23	M53	Z	2.258	2.5
24	M53	Mx	.000523	2.5
25	M54	X	-3.897	2.5
26	M54	Z	2.25	2.5
27	M54	Mx	.000521	2.5
28	M53	X	-5.227	1
29	M53	Z	3.018	1
30	M53	Mx	.000699	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-1.841	2.5
2	MP1A	Z	0	2.5
3	MP1A	Mx	.001	2.5
4	MP2A	X	-8.952	1
5	MP2A	Z	0	1
6	MP2A	Mx	.006	1
7	MP2A	X	-8.952	6
8	MP2A	Z	0	6
9	MP2A	Mx	.006	6
10	MP3A	X	-8.952	1
11	MP3A	Z	0	1
12	MP3A	Mx	.006	1
13	MP3A	X	-8.952	6
14	MP3A	Z	0	6
15	MP3A	Mx	.006	6
16	MP4A	X	-2.245	2
17	MP4A	Z	0	2
18	MP4A	Mx	.001	2
19	MP4A	X	-2.245	4
20	MP4A	Z	0	4
21	MP4A	Mx	.001	4
22	M53	X	-4.386	2.5
23	M53	Z	0	2.5
24	M53	Mx	-.001	2.5
25	M54	X	-4.318	2.5
26	M54	Z	0	2.5
27	M54	Mx	-.000985	2.5
28	M53	X	-5.849	1
29	M53	Z	0	1
30	M53	Mx	-.001	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-2.004	2.5
2	MP1A	Z	-1.157	2.5
3	MP1A	Mx	.001	2.5
4	MP2A	X	-8.421	1
5	MP2A	Z	-4.862	1
6	MP2A	Mx	.006	1
7	MP2A	X	-8.421	6
8	MP2A	Z	-4.862	6
9	MP2A	Mx	.006	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP3A	X	-8.421	1
11	MP3A	Z	-4.862	1
12	MP3A	Mx	.006	1
13	MP3A	X	-8.421	6
14	MP3A	Z	-4.862	6
15	MP3A	Mx	.006	6
16	MP4A	X	-2.699	2
17	MP4A	Z	-1.558	2
18	MP4A	Mx	.002	2
19	MP4A	X	-2.699	4
20	MP4A	Z	-1.558	4
21	MP4A	Mx	.002	4
22	M53	X	-3.182	2.5
23	M53	Z	-1.837	2.5
24	M53	Mx	-.002	2.5
25	M54	X	-2.888	2.5
26	M54	Z	-1.667	2.5
27	M54	Mx	-.002	2.5
28	M53	X	-4.196	1
29	M53	Z	-2.422	1
30	M53	Mx	-.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-1.63	2.5
2	MP1A	Z	-2.823	2.5
3	MP1A	Mx	.001	2.5
4	MP2A	X	-5.634	1
5	MP2A	Z	-9.759	1
6	MP2A	Mx	.004	1
7	MP2A	X	-5.634	6
8	MP2A	Z	-9.759	6
9	MP2A	Mx	.004	6
10	MP3A	X	-5.634	1
11	MP3A	Z	-9.759	1
12	MP3A	Mx	.004	1
13	MP3A	X	-5.634	6
14	MP3A	Z	-9.759	6
15	MP3A	Mx	.004	6
16	MP4A	X	-2.431	2
17	MP4A	Z	-4.21	2
18	MP4A	Mx	.002	2
19	MP4A	X	-2.431	4
20	MP4A	Z	-4.21	4
21	MP4A	Mx	.002	4
22	M53	X	-1.548	2.5
23	M53	Z	-2.681	2.5
24	M53	Mx	-.002	2.5
25	M54	X	-1.267	2.5
26	M54	Z	-2.194	2.5
27	M54	Mx	-.002	2.5
28	M53	X	-2.013	1
29	M53	Z	-3.486	1
30	M53	Mx	-.003	1

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M10	Y	-500	%100

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M6	Y	-500	%100

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

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

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-4.708	-4.708	0	%100
2	M2	Y	-4.708	-4.708	0	%100
3	MP4A	Y	-4.708	-4.708	0	%100
4	MP3A	Y	-4.708	-4.708	0	%100
5	MP2A	Y	-4.708	-4.708	0	%100
6	MP1A	Y	-4.708	-4.708	0	%100
7	M17	Y	-6.947	-6.947	0	%100
8	M18	Y	-6.947	-6.947	0	%100
9	M21A	Y	-6.947	-6.947	0	%100
10	M22A	Y	-6.947	-6.947	0	%100
11	M22	Y	-6.947	-6.947	0	%100
12	M23	Y	-6.947	-6.947	0	%100
13	M24	Y	-6.947	-6.947	0	%100
14	M25	Y	-6.947	-6.947	0	%100
15	M26	Y	-3.741	-3.741	0	%100
16	M27	Y	-3.741	-3.741	0	%100
17	M28	Y	-3.741	-3.741	0	%100
18	M29	Y	-3.741	-3.741	0	%100
19	M37	Y	-6.947	-6.947	0	%100
20	M38	Y	-6.947	-6.947	0	%100
21	M39	Y	-6.947	-6.947	0	%100
22	M40	Y	-6.947	-6.947	0	%100
23	M42	Y	-6.947	-6.947	0	%100
24	M43	Y	-6.947	-6.947	0	%100
25	M44	Y	-6.947	-6.947	0	%100
26	M45	Y	-6.947	-6.947	0	%100
27	M46	Y	-3.741	-3.741	0	%100
28	M47	Y	-3.741	-3.741	0	%100
29	M48	Y	-3.741	-3.741	0	%100
30	M49	Y	-3.741	-3.741	0	%100
31	M45A	Y	-2.342	-2.342	0	%100
32	M46A	Y	-2.342	-2.342	0	%100
33	M47A	Y	-2.342	-2.342	0	%100
34	M48A	Y	-2.342	-2.342	0	%100
35	M49A	Y	-2.342	-2.342	0	%100
36	M50	Y	-2.342	-2.342	0	%100
37	M51	Y	-2.342	-2.342	0	%100
38	M52	Y	-2.342	-2.342	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
39	M53	Y	-6.229	-6.229	0	%100
40	M54	Y	-6.229	-6.229	0	%100
41	M55	Y	-4.708	-4.708	0	%100
42	M56	Y	-4.708	-4.708	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	-8.814	-8.814	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-8.814	-8.814	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	-8.814	-8.814	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-8.814	-8.814	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-8.814	-8.814	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	-8.814	-8.814	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	0	0	0	%100
17	M21A	X	0	0	0	%100
18	M21A	Z	-1.855	-1.855	0	%100
19	M22A	X	0	0	0	%100
20	M22A	Z	-1.855	-1.855	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	-1.004	-1.004	0	%100
23	M23	X	0	0	0	%100
24	M23	Z	-1.004	-1.004	0	%100
25	M24	X	0	0	0	%100
26	M24	Z	-1.004	-1.004	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	-1.004	-1.004	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	-2.261	-2.261	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	-2.261	-2.261	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	-2.261	-2.261	0	%100
35	M29	X	0	0	0	%100
36	M29	Z	-2.261	-2.261	0	%100
37	M37	X	0	0	0	%100
38	M37	Z	0	0	0	%100
39	M38	X	0	0	0	%100
40	M38	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	-1.855	-1.855	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	-1.855	-1.855	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	-1.004	-1.004	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	-1.004	-1.004	0	%100
49	M44	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
50	M44	Z	-1.004	-1.004	0	%100
51	M45	X	0	0	0	%100
52	M45	Z	-1.004	-1.004	0	%100
53	M46	X	0	0	0	%100
54	M46	Z	-2.261	-2.261	0	%100
55	M47	X	0	0	0	%100
56	M47	Z	-2.261	-2.261	0	%100
57	M48	X	0	0	0	%100
58	M48	Z	-2.261	-2.261	0	%100
59	M49	X	0	0	0	%100
60	M49	Z	-2.261	-2.261	0	%100
61	M45A	X	0	0	0	%100
62	M45A	Z	-2.319	-2.319	0	%100
63	M46A	X	0	0	0	%100
64	M46A	Z	-2.139	-2.139	0	%100
65	M47A	X	0	0	0	%100
66	M47A	Z	-2.139	-2.139	0	%100
67	M48A	X	0	0	0	%100
68	M48A	Z	-2.319	-2.319	0	%100
69	M49A	X	0	0	0	%100
70	M49A	Z	-2.319	-2.319	0	%100
71	M50	X	0	0	0	%100
72	M50	Z	-2.139	-2.139	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	-2.139	-2.139	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	-2.319	-2.319	0	%100
77	M53	X	0	0	0	%100
78	M53	Z	-11.511	-11.511	0	%100
79	M54	X	0	0	0	%100
80	M54	Z	-11.511	-11.511	0	%100
81	M55	X	0	0	0	%100
82	M55	Z	-.623	-.623	0	%100
83	M56	X	0	0	0	%100
84	M56	Z	-.623	-.623	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	3.305	3.305	0	%100
2	M1	Z	-5.725	-5.725	0	%100
3	M2	X	3.305	3.305	0	%100
4	M2	Z	-5.725	-5.725	0	%100
5	MP4A	X	4.407	4.407	0	%100
6	MP4A	Z	-7.633	-7.633	0	%100
7	MP3A	X	4.407	4.407	0	%100
8	MP3A	Z	-7.633	-7.633	0	%100
9	MP2A	X	4.407	4.407	0	%100
10	MP2A	Z	-7.633	-7.633	0	%100
11	MP1A	X	4.407	4.407	0	%100
12	MP1A	Z	-7.633	-7.633	0	%100
13	M17	X	.232	.232	0	%100
14	M17	Z	-.402	-.402	0	%100
15	M18	X	.232	.232	0	%100
16	M18	Z	-.402	-.402	0	%100
17	M21A	X	.696	.696	0	%100
18	M21A	Z	-1.205	-1.205	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
19	M22A	X	.696	.696	0	%100
20	M22A	Z	-1.205	-1.205	0	%100
21	M22	X	.072	.072	0	%100
22	M22	Z	-.125	-.125	0	%100
23	M23	X	.92	.92	0	%100
24	M23	Z	-1.593	-1.593	0	%100
25	M24	X	.072	.072	0	%100
26	M24	Z	-.125	-.125	0	%100
27	M25	X	.92	.92	0	%100
28	M25	Z	-1.593	-1.593	0	%100
29	M26	X	.162	.162	0	%100
30	M26	Z	-.281	-.281	0	%100
31	M27	X	2.071	2.071	0	%100
32	M27	Z	-3.587	-3.587	0	%100
33	M28	X	.162	.162	0	%100
34	M28	Z	-.281	-.281	0	%100
35	M29	X	2.071	2.071	0	%100
36	M29	Z	-3.587	-3.587	0	%100
37	M37	X	.232	.232	0	%100
38	M37	Z	-.402	-.402	0	%100
39	M38	X	.232	.232	0	%100
40	M38	Z	-.402	-.402	0	%100
41	M39	X	.696	.696	0	%100
42	M39	Z	-1.205	-1.205	0	%100
43	M40	X	.696	.696	0	%100
44	M40	Z	-1.205	-1.205	0	%100
45	M42	X	.072	.072	0	%100
46	M42	Z	-.125	-.125	0	%100
47	M43	X	.92	.92	0	%100
48	M43	Z	-1.593	-1.593	0	%100
49	M44	X	.072	.072	0	%100
50	M44	Z	-.125	-.125	0	%100
51	M45	X	.92	.92	0	%100
52	M45	Z	-1.593	-1.593	0	%100
53	M46	X	.162	.162	0	%100
54	M46	Z	-.281	-.281	0	%100
55	M47	X	2.071	2.071	0	%100
56	M47	Z	-3.587	-3.587	0	%100
57	M48	X	.162	.162	0	%100
58	M48	Z	-.281	-.281	0	%100
59	M49	X	2.071	2.071	0	%100
60	M49	Z	-3.587	-3.587	0	%100
61	M45A	X	1.16	1.16	0	%100
62	M45A	Z	-2.009	-2.009	0	%100
63	M46A	X	.988	.988	0	%100
64	M46A	Z	-1.711	-1.711	0	%100
65	M47A	X	.988	.988	0	%100
66	M47A	Z	-1.711	-1.711	0	%100
67	M48A	X	1.16	1.16	0	%100
68	M48A	Z	-2.009	-2.009	0	%100
69	M49A	X	1.16	1.16	0	%100
70	M49A	Z	-2.009	-2.009	0	%100
71	M50	X	1.148	1.148	0	%100
72	M50	Z	-1.989	-1.989	0	%100
73	M51	X	1.148	1.148	0	%100
74	M51	Z	-1.989	-1.989	0	%100
75	M52	X	1.16	1.16	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
76	M52	Z	-2.009	-2.009	0	%100
77	M53	X	5.755	5.755	0	%100
78	M53	Z	-9.969	-9.969	0	%100
79	M54	X	5.755	5.755	0	%100
80	M54	Z	-9.969	-9.969	0	%100
81	M55	X	.302	.302	0	%100
82	M55	Z	-.523	-.523	0	%100
83	M56	X	.302	.302	0	%100
84	M56	Z	-.523	-.523	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	1.908	1.908	0	%100
2	M1	Z	-1.102	-1.102	0	%100
3	M2	X	1.908	1.908	0	%100
4	M2	Z	-1.102	-1.102	0	%100
5	MP4A	X	7.633	7.633	0	%100
6	MP4A	Z	-4.407	-4.407	0	%100
7	MP3A	X	7.633	7.633	0	%100
8	MP3A	Z	-4.407	-4.407	0	%100
9	MP2A	X	7.633	7.633	0	%100
10	MP2A	Z	-4.407	-4.407	0	%100
11	MP1A	X	7.633	7.633	0	%100
12	MP1A	Z	-4.407	-4.407	0	%100
13	M17	X	1.205	1.205	0	%100
14	M17	Z	-.696	-.696	0	%100
15	M18	X	1.205	1.205	0	%100
16	M18	Z	-.696	-.696	0	%100
17	M21A	X	.402	.402	0	%100
18	M21A	Z	-.232	-.232	0	%100
19	M22A	X	.402	.402	0	%100
20	M22A	Z	-.232	-.232	0	%100
21	M22	X	.103	.103	0	%100
22	M22	Z	-.059	-.059	0	%100
23	M23	X	1.571	1.571	0	%100
24	M23	Z	-.907	-.907	0	%100
25	M24	X	.103	.103	0	%100
26	M24	Z	-.059	-.059	0	%100
27	M25	X	1.571	1.571	0	%100
28	M25	Z	-.907	-.907	0	%100
29	M26	X	.232	.232	0	%100
30	M26	Z	-.134	-.134	0	%100
31	M27	X	3.538	3.538	0	%100
32	M27	Z	-2.043	-2.043	0	%100
33	M28	X	.232	.232	0	%100
34	M28	Z	-.134	-.134	0	%100
35	M29	X	3.538	3.538	0	%100
36	M29	Z	-2.043	-2.043	0	%100
37	M37	X	1.205	1.205	0	%100
38	M37	Z	-.696	-.696	0	%100
39	M38	X	1.205	1.205	0	%100
40	M38	Z	-.696	-.696	0	%100
41	M39	X	.402	.402	0	%100
42	M39	Z	-.232	-.232	0	%100
43	M40	X	.402	.402	0	%100
44	M40	Z	-.232	-.232	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
45	M42	X	.103	.103	0	%100
46	M42	Z	-.059	-.059	0	%100
47	M43	X	1.571	1.571	0	%100
48	M43	Z	-.907	-.907	0	%100
49	M44	X	.103	.103	0	%100
50	M44	Z	-.059	-.059	0	%100
51	M45	X	1.571	1.571	0	%100
52	M45	Z	-.907	-.907	0	%100
53	M46	X	.232	.232	0	%100
54	M46	Z	-.134	-.134	0	%100
55	M47	X	3.538	3.538	0	%100
56	M47	Z	-2.043	-2.043	0	%100
57	M48	X	.232	.232	0	%100
58	M48	Z	-.134	-.134	0	%100
59	M49	X	3.538	3.538	0	%100
60	M49	Z	-2.043	-2.043	0	%100
61	M45A	X	2.009	2.009	0	%100
62	M45A	Z	-1.16	-1.16	0	%100
63	M46A	X	1.707	1.707	0	%100
64	M46A	Z	-.985	-.985	0	%100
65	M47A	X	1.707	1.707	0	%100
66	M47A	Z	-.985	-.985	0	%100
67	M48A	X	2.009	2.009	0	%100
68	M48A	Z	-1.16	-1.16	0	%100
69	M49A	X	2.009	2.009	0	%100
70	M49A	Z	-1.16	-1.16	0	%100
71	M50	X	1.985	1.985	0	%100
72	M50	Z	-1.146	-1.146	0	%100
73	M51	X	1.985	1.985	0	%100
74	M51	Z	-1.146	-1.146	0	%100
75	M52	X	2.009	2.009	0	%100
76	M52	Z	-1.16	-1.16	0	%100
77	M53	X	9.969	9.969	0	%100
78	M53	Z	-5.755	-5.755	0	%100
79	M54	X	9.969	9.969	0	%100
80	M54	Z	-5.755	-5.755	0	%100
81	M55	X	3.81	3.81	0	%100
82	M55	Z	-2.2	-2.2	0	%100
83	M56	X	3.81	3.81	0	%100
84	M56	Z	-2.2	-2.2	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP4A	X	8.814	8.814	0	%100
6	MP4A	Z	0	0	0	%100
7	MP3A	X	8.814	8.814	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	8.814	8.814	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	8.814	8.814	0	%100
12	MP1A	Z	0	0	0	%100
13	M17	X	1.855	1.855	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
14	M17	Z	0	0	0	%100
15	M18	X	1.855	1.855	0	%100
16	M18	Z	0	0	0	%100
17	M21A	X	0	0	0	%100
18	M21A	Z	0	0	0	%100
19	M22A	X	0	0	0	%100
20	M22A	Z	0	0	0	%100
21	M22	X	.954	.954	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	.954	.954	0	%100
24	M23	Z	0	0	0	%100
25	M24	X	.954	.954	0	%100
26	M24	Z	0	0	0	%100
27	M25	X	.954	.954	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	2.148	2.148	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	2.148	2.148	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	2.148	2.148	0	%100
34	M28	Z	0	0	0	%100
35	M29	X	2.148	2.148	0	%100
36	M29	Z	0	0	0	%100
37	M37	X	1.855	1.855	0	%100
38	M37	Z	0	0	0	%100
39	M38	X	1.855	1.855	0	%100
40	M38	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	0	0	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M42	X	.954	.954	0	%100
46	M42	Z	0	0	0	%100
47	M43	X	.954	.954	0	%100
48	M43	Z	0	0	0	%100
49	M44	X	.954	.954	0	%100
50	M44	Z	0	0	0	%100
51	M45	X	.954	.954	0	%100
52	M45	Z	0	0	0	%100
53	M46	X	2.148	2.148	0	%100
54	M46	Z	0	0	0	%100
55	M47	X	2.148	2.148	0	%100
56	M47	Z	0	0	0	%100
57	M48	X	2.148	2.148	0	%100
58	M48	Z	0	0	0	%100
59	M49	X	2.148	2.148	0	%100
60	M49	Z	0	0	0	%100
61	M45A	X	2.319	2.319	0	%100
62	M45A	Z	0	0	0	%100
63	M46A	X	2.129	2.129	0	%100
64	M46A	Z	0	0	0	%100
65	M47A	X	2.129	2.129	0	%100
66	M47A	Z	0	0	0	%100
67	M48A	X	2.319	2.319	0	%100
68	M48A	Z	0	0	0	%100
69	M49A	X	2.319	2.319	0	%100
70	M49A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
71	M50	X	2.129	2.129	0	%100
72	M50	Z	0	0	0	%100
73	M51	X	2.129	2.129	0	%100
74	M51	Z	0	0	0	%100
75	M52	X	2.319	2.319	0	%100
76	M52	Z	0	0	0	%100
77	M53	X	11.511	11.511	0	%100
78	M53	Z	0	0	0	%100
79	M54	X	11.511	11.511	0	%100
80	M54	Z	0	0	0	%100
81	M55	X	8.215	8.215	0	%100
82	M55	Z	0	0	0	%100
83	M56	X	8.215	8.215	0	%100
84	M56	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.908	1.908	0	%100
2	M1	Z	1.102	1.102	0	%100
3	M2	X	1.908	1.908	0	%100
4	M2	Z	1.102	1.102	0	%100
5	MP4A	X	7.633	7.633	0	%100
6	MP4A	Z	4.407	4.407	0	%100
7	MP3A	X	7.633	7.633	0	%100
8	MP3A	Z	4.407	4.407	0	%100
9	MP2A	X	7.633	7.633	0	%100
10	MP2A	Z	4.407	4.407	0	%100
11	MP1A	X	7.633	7.633	0	%100
12	MP1A	Z	4.407	4.407	0	%100
13	M17	X	1.205	1.205	0	%100
14	M17	Z	.696	.696	0	%100
15	M18	X	1.205	1.205	0	%100
16	M18	Z	.696	.696	0	%100
17	M21A	X	.402	.402	0	%100
18	M21A	Z	.232	.232	0	%100
19	M22A	X	.402	.402	0	%100
20	M22A	Z	.232	.232	0	%100
21	M22	X	1.571	1.571	0	%100
22	M22	Z	.907	.907	0	%100
23	M23	X	.103	.103	0	%100
24	M23	Z	.059	.059	0	%100
25	M24	X	1.571	1.571	0	%100
26	M24	Z	.907	.907	0	%100
27	M25	X	.103	.103	0	%100
28	M25	Z	.059	.059	0	%100
29	M26	X	3.538	3.538	0	%100
30	M26	Z	2.043	2.043	0	%100
31	M27	X	.232	.232	0	%100
32	M27	Z	.134	.134	0	%100
33	M28	X	3.538	3.538	0	%100
34	M28	Z	2.043	2.043	0	%100
35	M29	X	.232	.232	0	%100
36	M29	Z	.134	.134	0	%100
37	M37	X	1.205	1.205	0	%100
38	M37	Z	.696	.696	0	%100
39	M38	X	1.205	1.205	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
40	M38	Z	.696	.696	0	%100
41	M39	X	.402	.402	0	%100
42	M39	Z	.232	.232	0	%100
43	M40	X	.402	.402	0	%100
44	M40	Z	.232	.232	0	%100
45	M42	X	1.571	1.571	0	%100
46	M42	Z	.907	.907	0	%100
47	M43	X	.103	.103	0	%100
48	M43	Z	.059	.059	0	%100
49	M44	X	1.571	1.571	0	%100
50	M44	Z	.907	.907	0	%100
51	M45	X	.103	.103	0	%100
52	M45	Z	.059	.059	0	%100
53	M46	X	3.538	3.538	0	%100
54	M46	Z	2.043	2.043	0	%100
55	M47	X	.232	.232	0	%100
56	M47	Z	.134	.134	0	%100
57	M48	X	3.538	3.538	0	%100
58	M48	Z	2.043	2.043	0	%100
59	M49	X	.232	.232	0	%100
60	M49	Z	.134	.134	0	%100
61	M45A	X	2.009	2.009	0	%100
62	M45A	Z	1.16	1.16	0	%100
63	M46A	X	1.985	1.985	0	%100
64	M46A	Z	1.146	1.146	0	%100
65	M47A	X	1.985	1.985	0	%100
66	M47A	Z	1.146	1.146	0	%100
67	M48A	X	2.009	2.009	0	%100
68	M48A	Z	1.16	1.16	0	%100
69	M49A	X	2.009	2.009	0	%100
70	M49A	Z	1.16	1.16	0	%100
71	M50	X	1.707	1.707	0	%100
72	M50	Z	.985	.985	0	%100
73	M51	X	1.707	1.707	0	%100
74	M51	Z	.985	.985	0	%100
75	M52	X	2.009	2.009	0	%100
76	M52	Z	1.16	1.16	0	%100
77	M53	X	9.969	9.969	0	%100
78	M53	Z	5.755	5.755	0	%100
79	M54	X	9.969	9.969	0	%100
80	M54	Z	5.755	5.755	0	%100
81	M55	X	7.131	7.131	0	%100
82	M55	Z	4.117	4.117	0	%100
83	M56	X	7.131	7.131	0	%100
84	M56	Z	4.117	4.117	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	3.305	3.305	0	%100
2	M1	Z	5.725	5.725	0	%100
3	M2	X	3.305	3.305	0	%100
4	M2	Z	5.725	5.725	0	%100
5	MP4A	X	4.407	4.407	0	%100
6	MP4A	Z	7.633	7.633	0	%100
7	MP3A	X	4.407	4.407	0	%100
8	MP3A	Z	7.633	7.633	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,%]
9	MP2A	X	4.407	4.407	0	%100
10	MP2A	Z	7.633	7.633	0	%100
11	MP1A	X	4.407	4.407	0	%100
12	MP1A	Z	7.633	7.633	0	%100
13	M17	X	.232	.232	0	%100
14	M17	Z	.402	.402	0	%100
15	M18	X	.232	.232	0	%100
16	M18	Z	.402	.402	0	%100
17	M21A	X	.696	.696	0	%100
18	M21A	Z	1.205	1.205	0	%100
19	M22A	X	.696	.696	0	%100
20	M22A	Z	1.205	1.205	0	%100
21	M22	X	.92	.92	0	%100
22	M22	Z	1.593	1.593	0	%100
23	M23	X	.072	.072	0	%100
24	M23	Z	.125	.125	0	%100
25	M24	X	.92	.92	0	%100
26	M24	Z	1.593	1.593	0	%100
27	M25	X	.072	.072	0	%100
28	M25	Z	.125	.125	0	%100
29	M26	X	2.071	2.071	0	%100
30	M26	Z	3.587	3.587	0	%100
31	M27	X	.162	.162	0	%100
32	M27	Z	.281	.281	0	%100
33	M28	X	2.071	2.071	0	%100
34	M28	Z	3.587	3.587	0	%100
35	M29	X	.162	.162	0	%100
36	M29	Z	.281	.281	0	%100
37	M37	X	.232	.232	0	%100
38	M37	Z	.402	.402	0	%100
39	M38	X	.232	.232	0	%100
40	M38	Z	.402	.402	0	%100
41	M39	X	.696	.696	0	%100
42	M39	Z	1.205	1.205	0	%100
43	M40	X	.696	.696	0	%100
44	M40	Z	1.205	1.205	0	%100
45	M42	X	.92	.92	0	%100
46	M42	Z	1.593	1.593	0	%100
47	M43	X	.072	.072	0	%100
48	M43	Z	.125	.125	0	%100
49	M44	X	.92	.92	0	%100
50	M44	Z	1.593	1.593	0	%100
51	M45	X	.072	.072	0	%100
52	M45	Z	.125	.125	0	%100
53	M46	X	2.071	2.071	0	%100
54	M46	Z	3.587	3.587	0	%100
55	M47	X	.162	.162	0	%100
56	M47	Z	.281	.281	0	%100
57	M48	X	2.071	2.071	0	%100
58	M48	Z	3.587	3.587	0	%100
59	M49	X	.162	.162	0	%100
60	M49	Z	.281	.281	0	%100
61	M45A	X	1.16	1.16	0	%100
62	M45A	Z	2.009	2.009	0	%100
63	M46A	X	1.148	1.148	0	%100
64	M46A	Z	1.989	1.989	0	%100
65	M47A	X	1.148	1.148	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
66	M47A	Z	1.989	1.989	0	%100
67	M48A	X	1.16	1.16	0	%100
68	M48A	Z	2.009	2.009	0	%100
69	M49A	X	1.16	1.16	0	%100
70	M49A	Z	2.009	2.009	0	%100
71	M50	X	.988	.988	0	%100
72	M50	Z	1.711	1.711	0	%100
73	M51	X	.988	.988	0	%100
74	M51	Z	1.711	1.711	0	%100
75	M52	X	1.16	1.16	0	%100
76	M52	Z	2.009	2.009	0	%100
77	M53	X	5.755	5.755	0	%100
78	M53	Z	9.969	9.969	0	%100
79	M54	X	5.755	5.755	0	%100
80	M54	Z	9.969	9.969	0	%100
81	M55	X	2.219	2.219	0	%100
82	M55	Z	3.844	3.844	0	%100
83	M56	X	2.219	2.219	0	%100
84	M56	Z	3.844	3.844	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	8.814	8.814	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	8.814	8.814	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	8.814	8.814	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	8.814	8.814	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	8.814	8.814	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	8.814	8.814	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	0	0	0	%100
17	M21A	X	0	0	0	%100
18	M21A	Z	1.855	1.855	0	%100
19	M22A	X	0	0	0	%100
20	M22A	Z	1.855	1.855	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	1.004	1.004	0	%100
23	M23	X	0	0	0	%100
24	M23	Z	1.004	1.004	0	%100
25	M24	X	0	0	0	%100
26	M24	Z	1.004	1.004	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	1.004	1.004	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	2.261	2.261	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	2.261	2.261	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	2.261	2.261	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
35	M29	X	0	0	0	%100
36	M29	Z	2.261	2.261	0	%100
37	M37	X	0	0	0	%100
38	M37	Z	0	0	0	%100
39	M38	X	0	0	0	%100
40	M38	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	1.855	1.855	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	1.855	1.855	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	1.004	1.004	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	1.004	1.004	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	1.004	1.004	0	%100
51	M45	X	0	0	0	%100
52	M45	Z	1.004	1.004	0	%100
53	M46	X	0	0	0	%100
54	M46	Z	2.261	2.261	0	%100
55	M47	X	0	0	0	%100
56	M47	Z	2.261	2.261	0	%100
57	M48	X	0	0	0	%100
58	M48	Z	2.261	2.261	0	%100
59	M49	X	0	0	0	%100
60	M49	Z	2.261	2.261	0	%100
61	M45A	X	0	0	0	%100
62	M45A	Z	2.319	2.319	0	%100
63	M46A	X	0	0	0	%100
64	M46A	Z	2.139	2.139	0	%100
65	M47A	X	0	0	0	%100
66	M47A	Z	2.139	2.139	0	%100
67	M48A	X	0	0	0	%100
68	M48A	Z	2.319	2.319	0	%100
69	M49A	X	0	0	0	%100
70	M49A	Z	2.319	2.319	0	%100
71	M50	X	0	0	0	%100
72	M50	Z	2.139	2.139	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	2.139	2.139	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	2.319	2.319	0	%100
77	M53	X	0	0	0	%100
78	M53	Z	11.511	11.511	0	%100
79	M54	X	0	0	0	%100
80	M54	Z	11.511	11.511	0	%100
81	M55	X	0	0	0	%100
82	M55	Z	.623	.623	0	%100
83	M56	X	0	0	0	%100
84	M56	Z	.623	.623	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	-3.305	-3.305	0	%100
2	M1	Z	5.725	5.725	0	%100
3	M2	X	-3.305	-3.305	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
4	M2	Z	5.725	5.725	0	%100
5	MP4A	X	-4.407	-4.407	0	%100
6	MP4A	Z	7.633	7.633	0	%100
7	MP3A	X	-4.407	-4.407	0	%100
8	MP3A	Z	7.633	7.633	0	%100
9	MP2A	X	-4.407	-4.407	0	%100
10	MP2A	Z	7.633	7.633	0	%100
11	MP1A	X	-4.407	-4.407	0	%100
12	MP1A	Z	7.633	7.633	0	%100
13	M17	X	-.232	-.232	0	%100
14	M17	Z	.402	.402	0	%100
15	M18	X	-.232	-.232	0	%100
16	M18	Z	.402	.402	0	%100
17	M21A	X	-.696	-.696	0	%100
18	M21A	Z	1.205	1.205	0	%100
19	M22A	X	-.696	-.696	0	%100
20	M22A	Z	1.205	1.205	0	%100
21	M22	X	-.072	-.072	0	%100
22	M22	Z	.125	.125	0	%100
23	M23	X	-.92	-.92	0	%100
24	M23	Z	1.593	1.593	0	%100
25	M24	X	-.072	-.072	0	%100
26	M24	Z	.125	.125	0	%100
27	M25	X	-.92	-.92	0	%100
28	M25	Z	1.593	1.593	0	%100
29	M26	X	-.162	-.162	0	%100
30	M26	Z	.281	.281	0	%100
31	M27	X	-2.071	-2.071	0	%100
32	M27	Z	3.587	3.587	0	%100
33	M28	X	-.162	-.162	0	%100
34	M28	Z	.281	.281	0	%100
35	M29	X	-2.071	-2.071	0	%100
36	M29	Z	3.587	3.587	0	%100
37	M37	X	-.232	-.232	0	%100
38	M37	Z	.402	.402	0	%100
39	M38	X	-.232	-.232	0	%100
40	M38	Z	.402	.402	0	%100
41	M39	X	-.696	-.696	0	%100
42	M39	Z	1.205	1.205	0	%100
43	M40	X	-.696	-.696	0	%100
44	M40	Z	1.205	1.205	0	%100
45	M42	X	-.072	-.072	0	%100
46	M42	Z	.125	.125	0	%100
47	M43	X	-.92	-.92	0	%100
48	M43	Z	1.593	1.593	0	%100
49	M44	X	-.072	-.072	0	%100
50	M44	Z	.125	.125	0	%100
51	M45	X	-.92	-.92	0	%100
52	M45	Z	1.593	1.593	0	%100
53	M46	X	-.162	-.162	0	%100
54	M46	Z	.281	.281	0	%100
55	M47	X	-2.071	-2.071	0	%100
56	M47	Z	3.587	3.587	0	%100
57	M48	X	-.162	-.162	0	%100
58	M48	Z	.281	.281	0	%100
59	M49	X	-2.071	-2.071	0	%100
60	M49	Z	3.587	3.587	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
61	M45A	X	-1.16	-1.16	0	%100
62	M45A	Z	2.009	2.009	0	%100
63	M46A	X	-.988	-.988	0	%100
64	M46A	Z	1.711	1.711	0	%100
65	M47A	X	-.988	-.988	0	%100
66	M47A	Z	1.711	1.711	0	%100
67	M48A	X	-1.16	-1.16	0	%100
68	M48A	Z	2.009	2.009	0	%100
69	M49A	X	-1.16	-1.16	0	%100
70	M49A	Z	2.009	2.009	0	%100
71	M50	X	-1.148	-1.148	0	%100
72	M50	Z	1.989	1.989	0	%100
73	M51	X	-1.148	-1.148	0	%100
74	M51	Z	1.989	1.989	0	%100
75	M52	X	-1.16	-1.16	0	%100
76	M52	Z	2.009	2.009	0	%100
77	M53	X	-5.755	-5.755	0	%100
78	M53	Z	9.969	9.969	0	%100
79	M54	X	-5.755	-5.755	0	%100
80	M54	Z	9.969	9.969	0	%100
81	M55	X	-.302	-.302	0	%100
82	M55	Z	.523	.523	0	%100
83	M56	X	-.302	-.302	0	%100
84	M56	Z	.523	.523	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	-1.908	-1.908	0	%100
2	M1	Z	1.102	1.102	0	%100
3	M2	X	-1.908	-1.908	0	%100
4	M2	Z	1.102	1.102	0	%100
5	MP4A	X	-7.633	-7.633	0	%100
6	MP4A	Z	4.407	4.407	0	%100
7	MP3A	X	-7.633	-7.633	0	%100
8	MP3A	Z	4.407	4.407	0	%100
9	MP2A	X	-7.633	-7.633	0	%100
10	MP2A	Z	4.407	4.407	0	%100
11	MP1A	X	-7.633	-7.633	0	%100
12	MP1A	Z	4.407	4.407	0	%100
13	M17	X	-1.205	-1.205	0	%100
14	M17	Z	.696	.696	0	%100
15	M18	X	-1.205	-1.205	0	%100
16	M18	Z	.696	.696	0	%100
17	M21A	X	-.402	-.402	0	%100
18	M21A	Z	.232	.232	0	%100
19	M22A	X	-.402	-.402	0	%100
20	M22A	Z	.232	.232	0	%100
21	M22	X	-.103	-.103	0	%100
22	M22	Z	.059	.059	0	%100
23	M23	X	-1.571	-1.571	0	%100
24	M23	Z	.907	.907	0	%100
25	M24	X	-.103	-.103	0	%100
26	M24	Z	.059	.059	0	%100
27	M25	X	-1.571	-1.571	0	%100
28	M25	Z	.907	.907	0	%100
29	M26	X	-.232	-.232	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
30	M26	Z	.134	.134	0	%100
31	M27	X	-3.538	-3.538	0	%100
32	M27	Z	2.043	2.043	0	%100
33	M28	X	-.232	-.232	0	%100
34	M28	Z	.134	.134	0	%100
35	M29	X	-3.538	-3.538	0	%100
36	M29	Z	2.043	2.043	0	%100
37	M37	X	-1.205	-1.205	0	%100
38	M37	Z	.696	.696	0	%100
39	M38	X	-1.205	-1.205	0	%100
40	M38	Z	.696	.696	0	%100
41	M39	X	-.402	-.402	0	%100
42	M39	Z	.232	.232	0	%100
43	M40	X	-.402	-.402	0	%100
44	M40	Z	.232	.232	0	%100
45	M42	X	-.103	-.103	0	%100
46	M42	Z	.059	.059	0	%100
47	M43	X	-1.571	-1.571	0	%100
48	M43	Z	.907	.907	0	%100
49	M44	X	-.103	-.103	0	%100
50	M44	Z	.059	.059	0	%100
51	M45	X	-1.571	-1.571	0	%100
52	M45	Z	.907	.907	0	%100
53	M46	X	-.232	-.232	0	%100
54	M46	Z	.134	.134	0	%100
55	M47	X	-3.538	-3.538	0	%100
56	M47	Z	2.043	2.043	0	%100
57	M48	X	-.232	-.232	0	%100
58	M48	Z	.134	.134	0	%100
59	M49	X	-3.538	-3.538	0	%100
60	M49	Z	2.043	2.043	0	%100
61	M45A	X	-2.009	-2.009	0	%100
62	M45A	Z	1.16	1.16	0	%100
63	M46A	X	-1.707	-1.707	0	%100
64	M46A	Z	.985	.985	0	%100
65	M47A	X	-1.707	-1.707	0	%100
66	M47A	Z	.985	.985	0	%100
67	M48A	X	-2.009	-2.009	0	%100
68	M48A	Z	1.16	1.16	0	%100
69	M49A	X	-2.009	-2.009	0	%100
70	M49A	Z	1.16	1.16	0	%100
71	M50	X	-1.985	-1.985	0	%100
72	M50	Z	1.146	1.146	0	%100
73	M51	X	-1.985	-1.985	0	%100
74	M51	Z	1.146	1.146	0	%100
75	M52	X	-2.009	-2.009	0	%100
76	M52	Z	1.16	1.16	0	%100
77	M53	X	-9.969	-9.969	0	%100
78	M53	Z	5.755	5.755	0	%100
79	M54	X	-9.969	-9.969	0	%100
80	M54	Z	5.755	5.755	0	%100
81	M55	X	-3.81	-3.81	0	%100
82	M55	Z	2.2	2.2	0	%100
83	M56	X	-3.81	-3.81	0	%100
84	M56	Z	2.2	2.2	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP4A	X	-8.814	-8.814	0	%100
6	MP4A	Z	0	0	0	%100
7	MP3A	X	-8.814	-8.814	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	-8.814	-8.814	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	-8.814	-8.814	0	%100
12	MP1A	Z	0	0	0	%100
13	M17	X	-1.855	-1.855	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-1.855	-1.855	0	%100
16	M18	Z	0	0	0	%100
17	M21A	X	0	0	0	%100
18	M21A	Z	0	0	0	%100
19	M22A	X	0	0	0	%100
20	M22A	Z	0	0	0	%100
21	M22	X	-.954	-.954	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	-.954	-.954	0	%100
24	M23	Z	0	0	0	%100
25	M24	X	-.954	-.954	0	%100
26	M24	Z	0	0	0	%100
27	M25	X	-.954	-.954	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	-2.148	-2.148	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	-2.148	-2.148	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	-2.148	-2.148	0	%100
34	M28	Z	0	0	0	%100
35	M29	X	-2.148	-2.148	0	%100
36	M29	Z	0	0	0	%100
37	M37	X	-1.855	-1.855	0	%100
38	M37	Z	0	0	0	%100
39	M38	X	-1.855	-1.855	0	%100
40	M38	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	0	0	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M42	X	-.954	-.954	0	%100
46	M42	Z	0	0	0	%100
47	M43	X	-.954	-.954	0	%100
48	M43	Z	0	0	0	%100
49	M44	X	-.954	-.954	0	%100
50	M44	Z	0	0	0	%100
51	M45	X	-.954	-.954	0	%100
52	M45	Z	0	0	0	%100
53	M46	X	-2.148	-2.148	0	%100
54	M46	Z	0	0	0	%100
55	M47	X	-2.148	-2.148	0	%100
56	M47	Z	0	0	0	%100
57	M48	X	-2.148	-2.148	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	M48	Z	0	0	0	%100
59	M49	X	-2.148	-2.148	0	%100
60	M49	Z	0	0	0	%100
61	M45A	X	-2.319	-2.319	0	%100
62	M45A	Z	0	0	0	%100
63	M46A	X	-2.129	-2.129	0	%100
64	M46A	Z	0	0	0	%100
65	M47A	X	-2.129	-2.129	0	%100
66	M47A	Z	0	0	0	%100
67	M48A	X	-2.319	-2.319	0	%100
68	M48A	Z	0	0	0	%100
69	M49A	X	-2.319	-2.319	0	%100
70	M49A	Z	0	0	0	%100
71	M50	X	-2.129	-2.129	0	%100
72	M50	Z	0	0	0	%100
73	M51	X	-2.129	-2.129	0	%100
74	M51	Z	0	0	0	%100
75	M52	X	-2.319	-2.319	0	%100
76	M52	Z	0	0	0	%100
77	M53	X	-11.511	-11.511	0	%100
78	M53	Z	0	0	0	%100
79	M54	X	-11.511	-11.511	0	%100
80	M54	Z	0	0	0	%100
81	M55	X	-8.215	-8.215	0	%100
82	M55	Z	0	0	0	%100
83	M56	X	-8.215	-8.215	0	%100
84	M56	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	-1.908	-1.908	0	%100
2	M1	Z	-1.102	-1.102	0	%100
3	M2	X	-1.908	-1.908	0	%100
4	M2	Z	-1.102	-1.102	0	%100
5	MP4A	X	-7.633	-7.633	0	%100
6	MP4A	Z	-4.407	-4.407	0	%100
7	MP3A	X	-7.633	-7.633	0	%100
8	MP3A	Z	-4.407	-4.407	0	%100
9	MP2A	X	-7.633	-7.633	0	%100
10	MP2A	Z	-4.407	-4.407	0	%100
11	MP1A	X	-7.633	-7.633	0	%100
12	MP1A	Z	-4.407	-4.407	0	%100
13	M17	X	-1.205	-1.205	0	%100
14	M17	Z	-.696	-.696	0	%100
15	M18	X	-1.205	-1.205	0	%100
16	M18	Z	-.696	-.696	0	%100
17	M21A	X	-.402	-.402	0	%100
18	M21A	Z	-.232	-.232	0	%100
19	M22A	X	-.402	-.402	0	%100
20	M22A	Z	-.232	-.232	0	%100
21	M22	X	-1.571	-1.571	0	%100
22	M22	Z	-.907	-.907	0	%100
23	M23	X	-.103	-.103	0	%100
24	M23	Z	-.059	-.059	0	%100
25	M24	X	-1.571	-1.571	0	%100
26	M24	Z	-.907	-.907	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,%]
27	M25	X	-.103	-.103	0	%100
28	M25	Z	-.059	-.059	0	%100
29	M26	X	-3.538	-3.538	0	%100
30	M26	Z	-2.043	-2.043	0	%100
31	M27	X	-.232	-.232	0	%100
32	M27	Z	-.134	-.134	0	%100
33	M28	X	-3.538	-3.538	0	%100
34	M28	Z	-2.043	-2.043	0	%100
35	M29	X	-.232	-.232	0	%100
36	M29	Z	-.134	-.134	0	%100
37	M37	X	-1.205	-1.205	0	%100
38	M37	Z	-.696	-.696	0	%100
39	M38	X	-1.205	-1.205	0	%100
40	M38	Z	-.696	-.696	0	%100
41	M39	X	-.402	-.402	0	%100
42	M39	Z	-.232	-.232	0	%100
43	M40	X	-.402	-.402	0	%100
44	M40	Z	-.232	-.232	0	%100
45	M42	X	-1.571	-1.571	0	%100
46	M42	Z	-.907	-.907	0	%100
47	M43	X	-.103	-.103	0	%100
48	M43	Z	-.059	-.059	0	%100
49	M44	X	-1.571	-1.571	0	%100
50	M44	Z	-.907	-.907	0	%100
51	M45	X	-.103	-.103	0	%100
52	M45	Z	-.059	-.059	0	%100
53	M46	X	-3.538	-3.538	0	%100
54	M46	Z	-2.043	-2.043	0	%100
55	M47	X	-.232	-.232	0	%100
56	M47	Z	-.134	-.134	0	%100
57	M48	X	-3.538	-3.538	0	%100
58	M48	Z	-2.043	-2.043	0	%100
59	M49	X	-.232	-.232	0	%100
60	M49	Z	-.134	-.134	0	%100
61	M45A	X	-2.009	-2.009	0	%100
62	M45A	Z	-1.16	-1.16	0	%100
63	M46A	X	-1.985	-1.985	0	%100
64	M46A	Z	-1.146	-1.146	0	%100
65	M47A	X	-1.985	-1.985	0	%100
66	M47A	Z	-1.146	-1.146	0	%100
67	M48A	X	-2.009	-2.009	0	%100
68	M48A	Z	-1.16	-1.16	0	%100
69	M49A	X	-2.009	-2.009	0	%100
70	M49A	Z	-1.16	-1.16	0	%100
71	M50	X	-1.707	-1.707	0	%100
72	M50	Z	-.985	-.985	0	%100
73	M51	X	-1.707	-1.707	0	%100
74	M51	Z	-.985	-.985	0	%100
75	M52	X	-2.009	-2.009	0	%100
76	M52	Z	-1.16	-1.16	0	%100
77	M53	X	-9.969	-9.969	0	%100
78	M53	Z	-5.755	-5.755	0	%100
79	M54	X	-9.969	-9.969	0	%100
80	M54	Z	-5.755	-5.755	0	%100
81	M55	X	-7.131	-7.131	0	%100
82	M55	Z	-4.117	-4.117	0	%100
83	M56	X	-7.131	-7.131	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
84	M56	Z	-4.117	-4.117	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	-3.305	-3.305	0	%100
2	M1	Z	-5.725	-5.725	0	%100
3	M2	X	-3.305	-3.305	0	%100
4	M2	Z	-5.725	-5.725	0	%100
5	MP4A	X	-4.407	-4.407	0	%100
6	MP4A	Z	-7.633	-7.633	0	%100
7	MP3A	X	-4.407	-4.407	0	%100
8	MP3A	Z	-7.633	-7.633	0	%100
9	MP2A	X	-4.407	-4.407	0	%100
10	MP2A	Z	-7.633	-7.633	0	%100
11	MP1A	X	-4.407	-4.407	0	%100
12	MP1A	Z	-7.633	-7.633	0	%100
13	M17	X	-.232	-.232	0	%100
14	M17	Z	-.402	-.402	0	%100
15	M18	X	-.232	-.232	0	%100
16	M18	Z	-.402	-.402	0	%100
17	M21A	X	-.696	-.696	0	%100
18	M21A	Z	-1.205	-1.205	0	%100
19	M22A	X	-.696	-.696	0	%100
20	M22A	Z	-1.205	-1.205	0	%100
21	M22	X	-.92	-.92	0	%100
22	M22	Z	-1.593	-1.593	0	%100
23	M23	X	-.072	-.072	0	%100
24	M23	Z	-.125	-.125	0	%100
25	M24	X	-.92	-.92	0	%100
26	M24	Z	-1.593	-1.593	0	%100
27	M25	X	-.072	-.072	0	%100
28	M25	Z	-.125	-.125	0	%100
29	M26	X	-2.071	-2.071	0	%100
30	M26	Z	-3.587	-3.587	0	%100
31	M27	X	-.162	-.162	0	%100
32	M27	Z	-.281	-.281	0	%100
33	M28	X	-2.071	-2.071	0	%100
34	M28	Z	-3.587	-3.587	0	%100
35	M29	X	-.162	-.162	0	%100
36	M29	Z	-.281	-.281	0	%100
37	M37	X	-.232	-.232	0	%100
38	M37	Z	-.402	-.402	0	%100
39	M38	X	-.232	-.232	0	%100
40	M38	Z	-.402	-.402	0	%100
41	M39	X	-.696	-.696	0	%100
42	M39	Z	-1.205	-1.205	0	%100
43	M40	X	-.696	-.696	0	%100
44	M40	Z	-1.205	-1.205	0	%100
45	M42	X	-.92	-.92	0	%100
46	M42	Z	-1.593	-1.593	0	%100
47	M43	X	-.072	-.072	0	%100
48	M43	Z	-.125	-.125	0	%100
49	M44	X	-.92	-.92	0	%100
50	M44	Z	-1.593	-1.593	0	%100
51	M45	X	-.072	-.072	0	%100
52	M45	Z	-.125	-.125	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
53	M46	X	-2.071	-2.071	0	%100
54	M46	Z	-3.587	-3.587	0	%100
55	M47	X	-.162	-.162	0	%100
56	M47	Z	-.281	-.281	0	%100
57	M48	X	-2.071	-2.071	0	%100
58	M48	Z	-3.587	-3.587	0	%100
59	M49	X	-.162	-.162	0	%100
60	M49	Z	-.281	-.281	0	%100
61	M45A	X	-1.16	-1.16	0	%100
62	M45A	Z	-2.009	-2.009	0	%100
63	M46A	X	-1.148	-1.148	0	%100
64	M46A	Z	-1.989	-1.989	0	%100
65	M47A	X	-1.148	-1.148	0	%100
66	M47A	Z	-1.989	-1.989	0	%100
67	M48A	X	-1.16	-1.16	0	%100
68	M48A	Z	-2.009	-2.009	0	%100
69	M49A	X	-1.16	-1.16	0	%100
70	M49A	Z	-2.009	-2.009	0	%100
71	M50	X	-.988	-.988	0	%100
72	M50	Z	-1.711	-1.711	0	%100
73	M51	X	-.988	-.988	0	%100
74	M51	Z	-1.711	-1.711	0	%100
75	M52	X	-1.16	-1.16	0	%100
76	M52	Z	-2.009	-2.009	0	%100
77	M53	X	-5.755	-5.755	0	%100
78	M53	Z	-9.969	-9.969	0	%100
79	M54	X	-5.755	-5.755	0	%100
80	M54	Z	-9.969	-9.969	0	%100
81	M55	X	-2.219	-2.219	0	%100
82	M55	Z	-3.844	-3.844	0	%100
83	M56	X	-2.219	-2.219	0	%100
84	M56	Z	-3.844	-3.844	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	-3.11	-3.11	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-3.11	-3.11	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	-3.11	-3.11	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-3.11	-3.11	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-3.11	-3.11	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	-3.11	-3.11	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	0	0	0	%100
17	M21A	X	0	0	0	%100
18	M21A	Z	-1.214	-1.214	0	%100
19	M22A	X	0	0	0	%100
20	M22A	Z	-1.214	-1.214	0	%100
21	M22	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	M22	Z	-.632	-.632	0	%100
23	M23	X	0	0	0	%100
24	M23	Z	-.632	-.632	0	%100
25	M24	X	0	0	0	%100
26	M24	Z	-.632	-.632	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	-.632	-.632	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	-.929	-.929	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	-.929	-.929	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	-.929	-.929	0	%100
35	M29	X	0	0	0	%100
36	M29	Z	-.929	-.929	0	%100
37	M37	X	0	0	0	%100
38	M37	Z	0	0	0	%100
39	M38	X	0	0	0	%100
40	M38	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	-1.214	-1.214	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	-1.214	-1.214	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	-.632	-.632	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	-.632	-.632	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	-.632	-.632	0	%100
51	M45	X	0	0	0	%100
52	M45	Z	-.632	-.632	0	%100
53	M46	X	0	0	0	%100
54	M46	Z	-.929	-.929	0	%100
55	M47	X	0	0	0	%100
56	M47	Z	-.929	-.929	0	%100
57	M48	X	0	0	0	%100
58	M48	Z	-.929	-.929	0	%100
59	M49	X	0	0	0	%100
60	M49	Z	-.929	-.929	0	%100
61	M45A	X	0	0	0	%100
62	M45A	Z	-1.606	-1.606	0	%100
63	M46A	X	0	0	0	%100
64	M46A	Z	-1.512	-1.512	0	%100
65	M47A	X	0	0	0	%100
66	M47A	Z	-1.512	-1.512	0	%100
67	M48A	X	0	0	0	%100
68	M48A	Z	-1.606	-1.606	0	%100
69	M49A	X	0	0	0	%100
70	M49A	Z	-1.606	-1.606	0	%100
71	M50	X	0	0	0	%100
72	M50	Z	-1.512	-1.512	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	-1.512	-1.512	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	-1.606	-1.606	0	%100
77	M53	X	0	0	0	%100
78	M53	Z	-3.602	-3.602	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	M54	X	0	0	0	%100
80	M54	Z	-3.602	-3.602	0	%100
81	M55	X	0	0	0	%100
82	M55	Z	-.22	-.22	0	%100
83	M56	X	0	0	0	%100
84	M56	Z	-.22	-.22	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	1.166	1.166	0	%100
2	M1	Z	-2.02	-2.02	0	%100
3	M2	X	1.166	1.166	0	%100
4	M2	Z	-2.02	-2.02	0	%100
5	MP4A	X	1.555	1.555	0	%100
6	MP4A	Z	-2.693	-2.693	0	%100
7	MP3A	X	1.555	1.555	0	%100
8	MP3A	Z	-2.693	-2.693	0	%100
9	MP2A	X	1.555	1.555	0	%100
10	MP2A	Z	-2.693	-2.693	0	%100
11	MP1A	X	1.555	1.555	0	%100
12	MP1A	Z	-2.693	-2.693	0	%100
13	M17	X	.152	.152	0	%100
14	M17	Z	-.263	-.263	0	%100
15	M18	X	.152	.152	0	%100
16	M18	Z	-.263	-.263	0	%100
17	M21A	X	.455	.455	0	%100
18	M21A	Z	-.788	-.788	0	%100
19	M22A	X	.455	.455	0	%100
20	M22A	Z	-.788	-.788	0	%100
21	M22	X	.045	.045	0	%100
22	M22	Z	-.078	-.078	0	%100
23	M23	X	.579	.579	0	%100
24	M23	Z	-1.003	-1.003	0	%100
25	M24	X	.045	.045	0	%100
26	M24	Z	-.078	-.078	0	%100
27	M25	X	.579	.579	0	%100
28	M25	Z	-1.003	-1.003	0	%100
29	M26	X	.067	.067	0	%100
30	M26	Z	-.115	-.115	0	%100
31	M27	X	.851	.851	0	%100
32	M27	Z	-1.474	-1.474	0	%100
33	M28	X	.067	.067	0	%100
34	M28	Z	-.115	-.115	0	%100
35	M29	X	.851	.851	0	%100
36	M29	Z	-1.474	-1.474	0	%100
37	M37	X	.152	.152	0	%100
38	M37	Z	-.263	-.263	0	%100
39	M38	X	.152	.152	0	%100
40	M38	Z	-.263	-.263	0	%100
41	M39	X	.455	.455	0	%100
42	M39	Z	-.788	-.788	0	%100
43	M40	X	.455	.455	0	%100
44	M40	Z	-.788	-.788	0	%100
45	M42	X	.045	.045	0	%100
46	M42	Z	-.078	-.078	0	%100
47	M43	X	.579	.579	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
48	M43	Z	-1.003	-1.003	0	%100
49	M44	X	.045	.045	0	%100
50	M44	Z	-.078	-.078	0	%100
51	M45	X	.579	.579	0	%100
52	M45	Z	-1.003	-1.003	0	%100
53	M46	X	.067	.067	0	%100
54	M46	Z	-.115	-.115	0	%100
55	M47	X	.851	.851	0	%100
56	M47	Z	-1.474	-1.474	0	%100
57	M48	X	.067	.067	0	%100
58	M48	Z	-.115	-.115	0	%100
59	M49	X	.851	.851	0	%100
60	M49	Z	-1.474	-1.474	0	%100
61	M45A	X	.803	.803	0	%100
62	M45A	Z	-1.391	-1.391	0	%100
63	M46A	X	.698	.698	0	%100
64	M46A	Z	-1.21	-1.21	0	%100
65	M47A	X	.698	.698	0	%100
66	M47A	Z	-1.21	-1.21	0	%100
67	M48A	X	.803	.803	0	%100
68	M48A	Z	-1.391	-1.391	0	%100
69	M49A	X	.803	.803	0	%100
70	M49A	Z	-1.391	-1.391	0	%100
71	M50	X	.812	.812	0	%100
72	M50	Z	-1.407	-1.407	0	%100
73	M51	X	.812	.812	0	%100
74	M51	Z	-1.407	-1.407	0	%100
75	M52	X	.803	.803	0	%100
76	M52	Z	-1.391	-1.391	0	%100
77	M53	X	1.801	1.801	0	%100
78	M53	Z	-3.12	-3.12	0	%100
79	M54	X	1.801	1.801	0	%100
80	M54	Z	-3.12	-3.12	0	%100
81	M55	X	.107	.107	0	%100
82	M55	Z	-.184	-.184	0	%100
83	M56	X	.107	.107	0	%100
84	M56	Z	-.184	-.184	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	.673	.673	0	%100
2	M1	Z	-.389	-.389	0	%100
3	M2	X	.673	.673	0	%100
4	M2	Z	-.389	-.389	0	%100
5	MP4A	X	2.693	2.693	0	%100
6	MP4A	Z	-1.555	-1.555	0	%100
7	MP3A	X	2.693	2.693	0	%100
8	MP3A	Z	-1.555	-1.555	0	%100
9	MP2A	X	2.693	2.693	0	%100
10	MP2A	Z	-1.555	-1.555	0	%100
11	MP1A	X	2.693	2.693	0	%100
12	MP1A	Z	-1.555	-1.555	0	%100
13	M17	X	.788	.788	0	%100
14	M17	Z	-.455	-.455	0	%100
15	M18	X	.788	.788	0	%100
16	M18	Z	-.455	-.455	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,%]
17	M21A	X	.263	.263	0	%100
18	M21A	Z	-.152	-.152	0	%100
19	M22A	X	.263	.263	0	%100
20	M22A	Z	-.152	-.152	0	%100
21	M22	X	.065	.065	0	%100
22	M22	Z	-.037	-.037	0	%100
23	M23	X	.989	.989	0	%100
24	M23	Z	-.571	-.571	0	%100
25	M24	X	.065	.065	0	%100
26	M24	Z	-.037	-.037	0	%100
27	M25	X	.989	.989	0	%100
28	M25	Z	-.571	-.571	0	%100
29	M26	X	.095	.095	0	%100
30	M26	Z	-.055	-.055	0	%100
31	M27	X	1.454	1.454	0	%100
32	M27	Z	-.839	-.839	0	%100
33	M28	X	.095	.095	0	%100
34	M28	Z	-.055	-.055	0	%100
35	M29	X	1.454	1.454	0	%100
36	M29	Z	-.839	-.839	0	%100
37	M37	X	.788	.788	0	%100
38	M37	Z	-.455	-.455	0	%100
39	M38	X	.788	.788	0	%100
40	M38	Z	-.455	-.455	0	%100
41	M39	X	.263	.263	0	%100
42	M39	Z	-.152	-.152	0	%100
43	M40	X	.263	.263	0	%100
44	M40	Z	-.152	-.152	0	%100
45	M42	X	.065	.065	0	%100
46	M42	Z	-.037	-.037	0	%100
47	M43	X	.989	.989	0	%100
48	M43	Z	-.571	-.571	0	%100
49	M44	X	.065	.065	0	%100
50	M44	Z	-.037	-.037	0	%100
51	M45	X	.989	.989	0	%100
52	M45	Z	-.571	-.571	0	%100
53	M46	X	.095	.095	0	%100
54	M46	Z	-.055	-.055	0	%100
55	M47	X	1.454	1.454	0	%100
56	M47	Z	-.839	-.839	0	%100
57	M48	X	.095	.095	0	%100
58	M48	Z	-.055	-.055	0	%100
59	M49	X	1.454	1.454	0	%100
60	M49	Z	-.839	-.839	0	%100
61	M45A	X	1.391	1.391	0	%100
62	M45A	Z	-.803	-.803	0	%100
63	M46A	X	1.207	1.207	0	%100
64	M46A	Z	-.697	-.697	0	%100
65	M47A	X	1.207	1.207	0	%100
66	M47A	Z	-.697	-.697	0	%100
67	M48A	X	1.391	1.391	0	%100
68	M48A	Z	-.803	-.803	0	%100
69	M49A	X	1.391	1.391	0	%100
70	M49A	Z	-.803	-.803	0	%100
71	M50	X	1.404	1.404	0	%100
72	M50	Z	-.81	-.81	0	%100
73	M51	X	1.404	1.404	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
74	M51	Z	-.81	-.81	0	%100
75	M52	X	1.391	1.391	0	%100
76	M52	Z	-.803	-.803	0	%100
77	M53	X	3.12	3.12	0	%100
78	M53	Z	-1.801	-1.801	0	%100
79	M54	X	3.12	3.12	0	%100
80	M54	Z	-1.801	-1.801	0	%100
81	M55	X	1.344	1.344	0	%100
82	M55	Z	-.776	-.776	0	%100
83	M56	X	1.344	1.344	0	%100
84	M56	Z	-.776	-.776	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP4A	X	3.11	3.11	0	%100
6	MP4A	Z	0	0	0	%100
7	MP3A	X	3.11	3.11	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	3.11	3.11	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	3.11	3.11	0	%100
12	MP1A	Z	0	0	0	%100
13	M17	X	1.214	1.214	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	1.214	1.214	0	%100
16	M18	Z	0	0	0	%100
17	M21A	X	0	0	0	%100
18	M21A	Z	0	0	0	%100
19	M22A	X	0	0	0	%100
20	M22A	Z	0	0	0	%100
21	M22	X	.601	.601	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	.601	.601	0	%100
24	M23	Z	0	0	0	%100
25	M24	X	.601	.601	0	%100
26	M24	Z	0	0	0	%100
27	M25	X	.601	.601	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	.883	.883	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	.883	.883	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	.883	.883	0	%100
34	M28	Z	0	0	0	%100
35	M29	X	.883	.883	0	%100
36	M29	Z	0	0	0	%100
37	M37	X	1.214	1.214	0	%100
38	M37	Z	0	0	0	%100
39	M38	X	1.214	1.214	0	%100
40	M38	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M42	X	.601	.601	0	%100
46	M42	Z	0	0	0	%100
47	M43	X	.601	.601	0	%100
48	M43	Z	0	0	0	%100
49	M44	X	.601	.601	0	%100
50	M44	Z	0	0	0	%100
51	M45	X	.601	.601	0	%100
52	M45	Z	0	0	0	%100
53	M46	X	.883	.883	0	%100
54	M46	Z	0	0	0	%100
55	M47	X	.883	.883	0	%100
56	M47	Z	0	0	0	%100
57	M48	X	.883	.883	0	%100
58	M48	Z	0	0	0	%100
59	M49	X	.883	.883	0	%100
60	M49	Z	0	0	0	%100
61	M45A	X	1.606	1.606	0	%100
62	M45A	Z	0	0	0	%100
63	M46A	X	1.505	1.505	0	%100
64	M46A	Z	0	0	0	%100
65	M47A	X	1.505	1.505	0	%100
66	M47A	Z	0	0	0	%100
67	M48A	X	1.606	1.606	0	%100
68	M48A	Z	0	0	0	%100
69	M49A	X	1.606	1.606	0	%100
70	M49A	Z	0	0	0	%100
71	M50	X	1.505	1.505	0	%100
72	M50	Z	0	0	0	%100
73	M51	X	1.505	1.505	0	%100
74	M51	Z	0	0	0	%100
75	M52	X	1.606	1.606	0	%100
76	M52	Z	0	0	0	%100
77	M53	X	3.602	3.602	0	%100
78	M53	Z	0	0	0	%100
79	M54	X	3.602	3.602	0	%100
80	M54	Z	0	0	0	%100
81	M55	X	2.899	2.899	0	%100
82	M55	Z	0	0	0	%100
83	M56	X	2.899	2.899	0	%100
84	M56	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	.673	.673	0	%100
2	M1	Z	.389	.389	0	%100
3	M2	X	.673	.673	0	%100
4	M2	Z	.389	.389	0	%100
5	MP4A	X	2.693	2.693	0	%100
6	MP4A	Z	1.555	1.555	0	%100
7	MP3A	X	2.693	2.693	0	%100
8	MP3A	Z	1.555	1.555	0	%100
9	MP2A	X	2.693	2.693	0	%100
10	MP2A	Z	1.555	1.555	0	%100
11	MP1A	X	2.693	2.693	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
12	MP1A	Z	1.555	1.555	0	%100
13	M17	X	.788	.788	0	%100
14	M17	Z	.455	.455	0	%100
15	M18	X	.788	.788	0	%100
16	M18	Z	.455	.455	0	%100
17	M21A	X	.263	.263	0	%100
18	M21A	Z	.152	.152	0	%100
19	M22A	X	.263	.263	0	%100
20	M22A	Z	.152	.152	0	%100
21	M22	X	.989	.989	0	%100
22	M22	Z	.571	.571	0	%100
23	M23	X	.065	.065	0	%100
24	M23	Z	.037	.037	0	%100
25	M24	X	.989	.989	0	%100
26	M24	Z	.571	.571	0	%100
27	M25	X	.065	.065	0	%100
28	M25	Z	.037	.037	0	%100
29	M26	X	1.454	1.454	0	%100
30	M26	Z	.839	.839	0	%100
31	M27	X	.095	.095	0	%100
32	M27	Z	.055	.055	0	%100
33	M28	X	1.454	1.454	0	%100
34	M28	Z	.839	.839	0	%100
35	M29	X	.095	.095	0	%100
36	M29	Z	.055	.055	0	%100
37	M37	X	.788	.788	0	%100
38	M37	Z	.455	.455	0	%100
39	M38	X	.788	.788	0	%100
40	M38	Z	.455	.455	0	%100
41	M39	X	.263	.263	0	%100
42	M39	Z	.152	.152	0	%100
43	M40	X	.263	.263	0	%100
44	M40	Z	.152	.152	0	%100
45	M42	X	.989	.989	0	%100
46	M42	Z	.571	.571	0	%100
47	M43	X	.065	.065	0	%100
48	M43	Z	.037	.037	0	%100
49	M44	X	.989	.989	0	%100
50	M44	Z	.571	.571	0	%100
51	M45	X	.065	.065	0	%100
52	M45	Z	.037	.037	0	%100
53	M46	X	1.454	1.454	0	%100
54	M46	Z	.839	.839	0	%100
55	M47	X	.095	.095	0	%100
56	M47	Z	.055	.055	0	%100
57	M48	X	1.454	1.454	0	%100
58	M48	Z	.839	.839	0	%100
59	M49	X	.095	.095	0	%100
60	M49	Z	.055	.055	0	%100
61	M45A	X	1.391	1.391	0	%100
62	M45A	Z	.803	.803	0	%100
63	M46A	X	1.404	1.404	0	%100
64	M46A	Z	.81	.81	0	%100
65	M47A	X	1.404	1.404	0	%100
66	M47A	Z	.81	.81	0	%100
67	M48A	X	1.391	1.391	0	%100
68	M48A	Z	.803	.803	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
69	M49A	X	1.391	1.391	0	%100
70	M49A	Z	.803	.803	0	%100
71	M50	X	1.207	1.207	0	%100
72	M50	Z	.697	.697	0	%100
73	M51	X	1.207	1.207	0	%100
74	M51	Z	.697	.697	0	%100
75	M52	X	1.391	1.391	0	%100
76	M52	Z	.803	.803	0	%100
77	M53	X	3.12	3.12	0	%100
78	M53	Z	1.801	1.801	0	%100
79	M54	X	3.12	3.12	0	%100
80	M54	Z	1.801	1.801	0	%100
81	M55	X	2.516	2.516	0	%100
82	M55	Z	1.453	1.453	0	%100
83	M56	X	2.516	2.516	0	%100
84	M56	Z	1.453	1.453	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	1.166	1.166	0	%100
2	M1	Z	2.02	2.02	0	%100
3	M2	X	1.166	1.166	0	%100
4	M2	Z	2.02	2.02	0	%100
5	MP4A	X	1.555	1.555	0	%100
6	MP4A	Z	2.693	2.693	0	%100
7	MP3A	X	1.555	1.555	0	%100
8	MP3A	Z	2.693	2.693	0	%100
9	MP2A	X	1.555	1.555	0	%100
10	MP2A	Z	2.693	2.693	0	%100
11	MP1A	X	1.555	1.555	0	%100
12	MP1A	Z	2.693	2.693	0	%100
13	M17	X	.152	.152	0	%100
14	M17	Z	.263	.263	0	%100
15	M18	X	.152	.152	0	%100
16	M18	Z	.263	.263	0	%100
17	M21A	X	.455	.455	0	%100
18	M21A	Z	.788	.788	0	%100
19	M22A	X	.455	.455	0	%100
20	M22A	Z	.788	.788	0	%100
21	M22	X	.579	.579	0	%100
22	M22	Z	1.003	1.003	0	%100
23	M23	X	.045	.045	0	%100
24	M23	Z	.078	.078	0	%100
25	M24	X	.579	.579	0	%100
26	M24	Z	1.003	1.003	0	%100
27	M25	X	.045	.045	0	%100
28	M25	Z	.078	.078	0	%100
29	M26	X	.851	.851	0	%100
30	M26	Z	1.474	1.474	0	%100
31	M27	X	.067	.067	0	%100
32	M27	Z	.115	.115	0	%100
33	M28	X	.851	.851	0	%100
34	M28	Z	1.474	1.474	0	%100
35	M29	X	.067	.067	0	%100
36	M29	Z	.115	.115	0	%100
37	M37	X	.152	.152	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
38	M37	Z	.263	.263	0	%100
39	M38	X	.152	.152	0	%100
40	M38	Z	.263	.263	0	%100
41	M39	X	.455	.455	0	%100
42	M39	Z	.788	.788	0	%100
43	M40	X	.455	.455	0	%100
44	M40	Z	.788	.788	0	%100
45	M42	X	.579	.579	0	%100
46	M42	Z	1.003	1.003	0	%100
47	M43	X	.045	.045	0	%100
48	M43	Z	.078	.078	0	%100
49	M44	X	.579	.579	0	%100
50	M44	Z	1.003	1.003	0	%100
51	M45	X	.045	.045	0	%100
52	M45	Z	.078	.078	0	%100
53	M46	X	.851	.851	0	%100
54	M46	Z	1.474	1.474	0	%100
55	M47	X	.067	.067	0	%100
56	M47	Z	.115	.115	0	%100
57	M48	X	.851	.851	0	%100
58	M48	Z	1.474	1.474	0	%100
59	M49	X	.067	.067	0	%100
60	M49	Z	.115	.115	0	%100
61	M45A	X	.803	.803	0	%100
62	M45A	Z	1.391	1.391	0	%100
63	M46A	X	.812	.812	0	%100
64	M46A	Z	1.407	1.407	0	%100
65	M47A	X	.812	.812	0	%100
66	M47A	Z	1.407	1.407	0	%100
67	M48A	X	.803	.803	0	%100
68	M48A	Z	1.391	1.391	0	%100
69	M49A	X	.803	.803	0	%100
70	M49A	Z	1.391	1.391	0	%100
71	M50	X	.698	.698	0	%100
72	M50	Z	1.21	1.21	0	%100
73	M51	X	.698	.698	0	%100
74	M51	Z	1.21	1.21	0	%100
75	M52	X	.803	.803	0	%100
76	M52	Z	1.391	1.391	0	%100
77	M53	X	1.801	1.801	0	%100
78	M53	Z	3.12	3.12	0	%100
79	M54	X	1.801	1.801	0	%100
80	M54	Z	3.12	3.12	0	%100
81	M55	X	.783	.783	0	%100
82	M55	Z	1.356	1.356	0	%100
83	M56	X	.783	.783	0	%100
84	M56	Z	1.356	1.356	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	3.11	3.11	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	3.11	3.11	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	3.11	3.11	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
7	MP3A	X	0	0	0	%100
8	MP3A	Z	3.11	3.11	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	3.11	3.11	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	3.11	3.11	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	0	0	0	%100
17	M21A	X	0	0	0	%100
18	M21A	Z	1.214	1.214	0	%100
19	M22A	X	0	0	0	%100
20	M22A	Z	1.214	1.214	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	.632	.632	0	%100
23	M23	X	0	0	0	%100
24	M23	Z	.632	.632	0	%100
25	M24	X	0	0	0	%100
26	M24	Z	.632	.632	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	.632	.632	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	.929	.929	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	.929	.929	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	.929	.929	0	%100
35	M29	X	0	0	0	%100
36	M29	Z	.929	.929	0	%100
37	M37	X	0	0	0	%100
38	M37	Z	0	0	0	%100
39	M38	X	0	0	0	%100
40	M38	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	1.214	1.214	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	1.214	1.214	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	.632	.632	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	.632	.632	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	.632	.632	0	%100
51	M45	X	0	0	0	%100
52	M45	Z	.632	.632	0	%100
53	M46	X	0	0	0	%100
54	M46	Z	.929	.929	0	%100
55	M47	X	0	0	0	%100
56	M47	Z	.929	.929	0	%100
57	M48	X	0	0	0	%100
58	M48	Z	.929	.929	0	%100
59	M49	X	0	0	0	%100
60	M49	Z	.929	.929	0	%100
61	M45A	X	0	0	0	%100
62	M45A	Z	1.606	1.606	0	%100
63	M46A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
64	M46A	Z	1.512	1.512	0	%100
65	M47A	X	0	0	0	%100
66	M47A	Z	1.512	1.512	0	%100
67	M48A	X	0	0	0	%100
68	M48A	Z	1.606	1.606	0	%100
69	M49A	X	0	0	0	%100
70	M49A	Z	1.606	1.606	0	%100
71	M50	X	0	0	0	%100
72	M50	Z	1.512	1.512	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	1.512	1.512	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	1.606	1.606	0	%100
77	M53	X	0	0	0	%100
78	M53	Z	3.602	3.602	0	%100
79	M54	X	0	0	0	%100
80	M54	Z	3.602	3.602	0	%100
81	M55	X	0	0	0	%100
82	M55	Z	.22	.22	0	%100
83	M56	X	0	0	0	%100
84	M56	Z	.22	.22	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	-1.166	-1.166	0	%100
2	M1	Z	2.02	2.02	0	%100
3	M2	X	-1.166	-1.166	0	%100
4	M2	Z	2.02	2.02	0	%100
5	MP4A	X	-1.555	-1.555	0	%100
6	MP4A	Z	2.693	2.693	0	%100
7	MP3A	X	-1.555	-1.555	0	%100
8	MP3A	Z	2.693	2.693	0	%100
9	MP2A	X	-1.555	-1.555	0	%100
10	MP2A	Z	2.693	2.693	0	%100
11	MP1A	X	-1.555	-1.555	0	%100
12	MP1A	Z	2.693	2.693	0	%100
13	M17	X	-.152	-.152	0	%100
14	M17	Z	.263	.263	0	%100
15	M18	X	-.152	-.152	0	%100
16	M18	Z	.263	.263	0	%100
17	M21A	X	-.455	-.455	0	%100
18	M21A	Z	.788	.788	0	%100
19	M22A	X	-.455	-.455	0	%100
20	M22A	Z	.788	.788	0	%100
21	M22	X	-.045	-.045	0	%100
22	M22	Z	.078	.078	0	%100
23	M23	X	-.579	-.579	0	%100
24	M23	Z	1.003	1.003	0	%100
25	M24	X	-.045	-.045	0	%100
26	M24	Z	.078	.078	0	%100
27	M25	X	-.579	-.579	0	%100
28	M25	Z	1.003	1.003	0	%100
29	M26	X	-.067	-.067	0	%100
30	M26	Z	.115	.115	0	%100
31	M27	X	-.851	-.851	0	%100
32	M27	Z	1.474	1.474	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
33	M28	X	-.067	-.067	0	%100
34	M28	Z	.115	.115	0	%100
35	M29	X	-.851	-.851	0	%100
36	M29	Z	1.474	1.474	0	%100
37	M37	X	-.152	-.152	0	%100
38	M37	Z	.263	.263	0	%100
39	M38	X	-.152	-.152	0	%100
40	M38	Z	.263	.263	0	%100
41	M39	X	-.455	-.455	0	%100
42	M39	Z	.788	.788	0	%100
43	M40	X	-.455	-.455	0	%100
44	M40	Z	.788	.788	0	%100
45	M42	X	-.045	-.045	0	%100
46	M42	Z	.078	.078	0	%100
47	M43	X	-.579	-.579	0	%100
48	M43	Z	1.003	1.003	0	%100
49	M44	X	-.045	-.045	0	%100
50	M44	Z	.078	.078	0	%100
51	M45	X	-.579	-.579	0	%100
52	M45	Z	1.003	1.003	0	%100
53	M46	X	-.067	-.067	0	%100
54	M46	Z	.115	.115	0	%100
55	M47	X	-.851	-.851	0	%100
56	M47	Z	1.474	1.474	0	%100
57	M48	X	-.067	-.067	0	%100
58	M48	Z	.115	.115	0	%100
59	M49	X	-.851	-.851	0	%100
60	M49	Z	1.474	1.474	0	%100
61	M45A	X	-.803	-.803	0	%100
62	M45A	Z	1.391	1.391	0	%100
63	M46A	X	-.698	-.698	0	%100
64	M46A	Z	1.21	1.21	0	%100
65	M47A	X	-.698	-.698	0	%100
66	M47A	Z	1.21	1.21	0	%100
67	M48A	X	-.803	-.803	0	%100
68	M48A	Z	1.391	1.391	0	%100
69	M49A	X	-.803	-.803	0	%100
70	M49A	Z	1.391	1.391	0	%100
71	M50	X	-.812	-.812	0	%100
72	M50	Z	1.407	1.407	0	%100
73	M51	X	-.812	-.812	0	%100
74	M51	Z	1.407	1.407	0	%100
75	M52	X	-.803	-.803	0	%100
76	M52	Z	1.391	1.391	0	%100
77	M53	X	-1.801	-1.801	0	%100
78	M53	Z	3.12	3.12	0	%100
79	M54	X	-1.801	-1.801	0	%100
80	M54	Z	3.12	3.12	0	%100
81	M55	X	-.107	-.107	0	%100
82	M55	Z	.184	.184	0	%100
83	M56	X	-.107	-.107	0	%100
84	M56	Z	.184	.184	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	-.673	-.673	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
2	M1	Z	.389	.389	0	%100
3	M2	X	-.673	-.673	0	%100
4	M2	Z	.389	.389	0	%100
5	MP4A	X	-2.693	-2.693	0	%100
6	MP4A	Z	1.555	1.555	0	%100
7	MP3A	X	-2.693	-2.693	0	%100
8	MP3A	Z	1.555	1.555	0	%100
9	MP2A	X	-2.693	-2.693	0	%100
10	MP2A	Z	1.555	1.555	0	%100
11	MP1A	X	-2.693	-2.693	0	%100
12	MP1A	Z	1.555	1.555	0	%100
13	M17	X	-.788	-.788	0	%100
14	M17	Z	.455	.455	0	%100
15	M18	X	-.788	-.788	0	%100
16	M18	Z	.455	.455	0	%100
17	M21A	X	-.263	-.263	0	%100
18	M21A	Z	.152	.152	0	%100
19	M22A	X	-.263	-.263	0	%100
20	M22A	Z	.152	.152	0	%100
21	M22	X	-.065	-.065	0	%100
22	M22	Z	.037	.037	0	%100
23	M23	X	-.989	-.989	0	%100
24	M23	Z	.571	.571	0	%100
25	M24	X	-.065	-.065	0	%100
26	M24	Z	.037	.037	0	%100
27	M25	X	-.989	-.989	0	%100
28	M25	Z	.571	.571	0	%100
29	M26	X	-.095	-.095	0	%100
30	M26	Z	.055	.055	0	%100
31	M27	X	-1.454	-1.454	0	%100
32	M27	Z	.839	.839	0	%100
33	M28	X	-.095	-.095	0	%100
34	M28	Z	.055	.055	0	%100
35	M29	X	-1.454	-1.454	0	%100
36	M29	Z	.839	.839	0	%100
37	M37	X	-.788	-.788	0	%100
38	M37	Z	.455	.455	0	%100
39	M38	X	-.788	-.788	0	%100
40	M38	Z	.455	.455	0	%100
41	M39	X	-.263	-.263	0	%100
42	M39	Z	.152	.152	0	%100
43	M40	X	-.263	-.263	0	%100
44	M40	Z	.152	.152	0	%100
45	M42	X	-.065	-.065	0	%100
46	M42	Z	.037	.037	0	%100
47	M43	X	-.989	-.989	0	%100
48	M43	Z	.571	.571	0	%100
49	M44	X	-.065	-.065	0	%100
50	M44	Z	.037	.037	0	%100
51	M45	X	-.989	-.989	0	%100
52	M45	Z	.571	.571	0	%100
53	M46	X	-.095	-.095	0	%100
54	M46	Z	.055	.055	0	%100
55	M47	X	-1.454	-1.454	0	%100
56	M47	Z	.839	.839	0	%100
57	M48	X	-.095	-.095	0	%100
58	M48	Z	.055	.055	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
59	M49	X	-1.454	-1.454	0	%100
60	M49	Z	.839	.839	0	%100
61	M45A	X	-1.391	-1.391	0	%100
62	M45A	Z	.803	.803	0	%100
63	M46A	X	-1.207	-1.207	0	%100
64	M46A	Z	.697	.697	0	%100
65	M47A	X	-1.207	-1.207	0	%100
66	M47A	Z	.697	.697	0	%100
67	M48A	X	-1.391	-1.391	0	%100
68	M48A	Z	.803	.803	0	%100
69	M49A	X	-1.391	-1.391	0	%100
70	M49A	Z	.803	.803	0	%100
71	M50	X	-1.404	-1.404	0	%100
72	M50	Z	.81	.81	0	%100
73	M51	X	-1.404	-1.404	0	%100
74	M51	Z	.81	.81	0	%100
75	M52	X	-1.391	-1.391	0	%100
76	M52	Z	.803	.803	0	%100
77	M53	X	-3.12	-3.12	0	%100
78	M53	Z	1.801	1.801	0	%100
79	M54	X	-3.12	-3.12	0	%100
80	M54	Z	1.801	1.801	0	%100
81	M55	X	-1.344	-1.344	0	%100
82	M55	Z	.776	.776	0	%100
83	M56	X	-1.344	-1.344	0	%100
84	M56	Z	.776	.776	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP4A	X	-3.11	-3.11	0	%100
6	MP4A	Z	0	0	0	%100
7	MP3A	X	-3.11	-3.11	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	-3.11	-3.11	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	-3.11	-3.11	0	%100
12	MP1A	Z	0	0	0	%100
13	M17	X	-1.214	-1.214	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-1.214	-1.214	0	%100
16	M18	Z	0	0	0	%100
17	M21A	X	0	0	0	%100
18	M21A	Z	0	0	0	%100
19	M22A	X	0	0	0	%100
20	M22A	Z	0	0	0	%100
21	M22	X	-.601	-.601	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	-.601	-.601	0	%100
24	M23	Z	0	0	0	%100
25	M24	X	-.601	-.601	0	%100
26	M24	Z	0	0	0	%100
27	M25	X	-.601	-.601	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
28	M25	Z	0	0	0	%100
29	M26	X	-.883	-.883	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	-.883	-.883	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	-.883	-.883	0	%100
34	M28	Z	0	0	0	%100
35	M29	X	-.883	-.883	0	%100
36	M29	Z	0	0	0	%100
37	M37	X	-1.214	-1.214	0	%100
38	M37	Z	0	0	0	%100
39	M38	X	-1.214	-1.214	0	%100
40	M38	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	0	0	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M42	X	-.601	-.601	0	%100
46	M42	Z	0	0	0	%100
47	M43	X	-.601	-.601	0	%100
48	M43	Z	0	0	0	%100
49	M44	X	-.601	-.601	0	%100
50	M44	Z	0	0	0	%100
51	M45	X	-.601	-.601	0	%100
52	M45	Z	0	0	0	%100
53	M46	X	-.883	-.883	0	%100
54	M46	Z	0	0	0	%100
55	M47	X	-.883	-.883	0	%100
56	M47	Z	0	0	0	%100
57	M48	X	-.883	-.883	0	%100
58	M48	Z	0	0	0	%100
59	M49	X	-.883	-.883	0	%100
60	M49	Z	0	0	0	%100
61	M45A	X	-1.606	-1.606	0	%100
62	M45A	Z	0	0	0	%100
63	M46A	X	-1.505	-1.505	0	%100
64	M46A	Z	0	0	0	%100
65	M47A	X	-1.505	-1.505	0	%100
66	M47A	Z	0	0	0	%100
67	M48A	X	-1.606	-1.606	0	%100
68	M48A	Z	0	0	0	%100
69	M49A	X	-1.606	-1.606	0	%100
70	M49A	Z	0	0	0	%100
71	M50	X	-1.505	-1.505	0	%100
72	M50	Z	0	0	0	%100
73	M51	X	-1.505	-1.505	0	%100
74	M51	Z	0	0	0	%100
75	M52	X	-1.606	-1.606	0	%100
76	M52	Z	0	0	0	%100
77	M53	X	-3.602	-3.602	0	%100
78	M53	Z	0	0	0	%100
79	M54	X	-3.602	-3.602	0	%100
80	M54	Z	0	0	0	%100
81	M55	X	-2.899	-2.899	0	%100
82	M55	Z	0	0	0	%100
83	M56	X	-2.899	-2.899	0	%100
84	M56	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	-.673	-.673	0	%100
2	M1	Z	-.389	-.389	0	%100
3	M2	X	-.673	-.673	0	%100
4	M2	Z	-.389	-.389	0	%100
5	MP4A	X	-2.693	-2.693	0	%100
6	MP4A	Z	-1.555	-1.555	0	%100
7	MP3A	X	-2.693	-2.693	0	%100
8	MP3A	Z	-1.555	-1.555	0	%100
9	MP2A	X	-2.693	-2.693	0	%100
10	MP2A	Z	-1.555	-1.555	0	%100
11	MP1A	X	-2.693	-2.693	0	%100
12	MP1A	Z	-1.555	-1.555	0	%100
13	M17	X	-.788	-.788	0	%100
14	M17	Z	-.455	-.455	0	%100
15	M18	X	-.788	-.788	0	%100
16	M18	Z	-.455	-.455	0	%100
17	M21A	X	-.263	-.263	0	%100
18	M21A	Z	-.152	-.152	0	%100
19	M22A	X	-.263	-.263	0	%100
20	M22A	Z	-.152	-.152	0	%100
21	M22	X	-.989	-.989	0	%100
22	M22	Z	-.571	-.571	0	%100
23	M23	X	-.065	-.065	0	%100
24	M23	Z	-.037	-.037	0	%100
25	M24	X	-.989	-.989	0	%100
26	M24	Z	-.571	-.571	0	%100
27	M25	X	-.065	-.065	0	%100
28	M25	Z	-.037	-.037	0	%100
29	M26	X	-1.454	-1.454	0	%100
30	M26	Z	-.839	-.839	0	%100
31	M27	X	-.095	-.095	0	%100
32	M27	Z	-.055	-.055	0	%100
33	M28	X	-1.454	-1.454	0	%100
34	M28	Z	-.839	-.839	0	%100
35	M29	X	-.095	-.095	0	%100
36	M29	Z	-.055	-.055	0	%100
37	M37	X	-.788	-.788	0	%100
38	M37	Z	-.455	-.455	0	%100
39	M38	X	-.788	-.788	0	%100
40	M38	Z	-.455	-.455	0	%100
41	M39	X	-.263	-.263	0	%100
42	M39	Z	-.152	-.152	0	%100
43	M40	X	-.263	-.263	0	%100
44	M40	Z	-.152	-.152	0	%100
45	M42	X	-.989	-.989	0	%100
46	M42	Z	-.571	-.571	0	%100
47	M43	X	-.065	-.065	0	%100
48	M43	Z	-.037	-.037	0	%100
49	M44	X	-.989	-.989	0	%100
50	M44	Z	-.571	-.571	0	%100
51	M45	X	-.065	-.065	0	%100
52	M45	Z	-.037	-.037	0	%100
53	M46	X	-1.454	-1.454	0	%100
54	M46	Z	-.839	-.839	0	%100
55	M47	X	-.095	-.095	0	%100
56	M47	Z	-.055	-.055	0	%100
57	M48	X	-1.454	-1.454	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M48	Z	-.839	-.839	0	%100
59	M49	X	-.095	-.095	0	%100
60	M49	Z	-.055	-.055	0	%100
61	M45A	X	-1.391	-1.391	0	%100
62	M45A	Z	-.803	-.803	0	%100
63	M46A	X	-1.404	-1.404	0	%100
64	M46A	Z	-.81	-.81	0	%100
65	M47A	X	-1.404	-1.404	0	%100
66	M47A	Z	-.81	-.81	0	%100
67	M48A	X	-1.391	-1.391	0	%100
68	M48A	Z	-.803	-.803	0	%100
69	M49A	X	-1.391	-1.391	0	%100
70	M49A	Z	-.803	-.803	0	%100
71	M50	X	-1.207	-1.207	0	%100
72	M50	Z	-.697	-.697	0	%100
73	M51	X	-1.207	-1.207	0	%100
74	M51	Z	-.697	-.697	0	%100
75	M52	X	-1.391	-1.391	0	%100
76	M52	Z	-.803	-.803	0	%100
77	M53	X	-3.12	-3.12	0	%100
78	M53	Z	-1.801	-1.801	0	%100
79	M54	X	-3.12	-3.12	0	%100
80	M54	Z	-1.801	-1.801	0	%100
81	M55	X	-2.516	-2.516	0	%100
82	M55	Z	-1.453	-1.453	0	%100
83	M56	X	-2.516	-2.516	0	%100
84	M56	Z	-1.453	-1.453	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	-1.166	-1.166	0	%100
2	M1	Z	-2.02	-2.02	0	%100
3	M2	X	-1.166	-1.166	0	%100
4	M2	Z	-2.02	-2.02	0	%100
5	MP4A	X	-1.555	-1.555	0	%100
6	MP4A	Z	-2.693	-2.693	0	%100
7	MP3A	X	-1.555	-1.555	0	%100
8	MP3A	Z	-2.693	-2.693	0	%100
9	MP2A	X	-1.555	-1.555	0	%100
10	MP2A	Z	-2.693	-2.693	0	%100
11	MP1A	X	-1.555	-1.555	0	%100
12	MP1A	Z	-2.693	-2.693	0	%100
13	M17	X	-.152	-.152	0	%100
14	M17	Z	-.263	-.263	0	%100
15	M18	X	-.152	-.152	0	%100
16	M18	Z	-.263	-.263	0	%100
17	M21A	X	-.455	-.455	0	%100
18	M21A	Z	-.788	-.788	0	%100
19	M22A	X	-.455	-.455	0	%100
20	M22A	Z	-.788	-.788	0	%100
21	M22	X	-.579	-.579	0	%100
22	M22	Z	-1.003	-1.003	0	%100
23	M23	X	-.045	-.045	0	%100
24	M23	Z	-.078	-.078	0	%100
25	M24	X	-.579	-.579	0	%100
26	M24	Z	-1.003	-1.003	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,%]
27	M25	X	-.045	-.045	0	%100
28	M25	Z	-.078	-.078	0	%100
29	M26	X	-.851	-.851	0	%100
30	M26	Z	-1.474	-1.474	0	%100
31	M27	X	-.067	-.067	0	%100
32	M27	Z	-.115	-.115	0	%100
33	M28	X	-.851	-.851	0	%100
34	M28	Z	-1.474	-1.474	0	%100
35	M29	X	-.067	-.067	0	%100
36	M29	Z	-.115	-.115	0	%100
37	M37	X	-.152	-.152	0	%100
38	M37	Z	-.263	-.263	0	%100
39	M38	X	-.152	-.152	0	%100
40	M38	Z	-.263	-.263	0	%100
41	M39	X	-.455	-.455	0	%100
42	M39	Z	-.788	-.788	0	%100
43	M40	X	-.455	-.455	0	%100
44	M40	Z	-.788	-.788	0	%100
45	M42	X	-.579	-.579	0	%100
46	M42	Z	-1.003	-1.003	0	%100
47	M43	X	-.045	-.045	0	%100
48	M43	Z	-.078	-.078	0	%100
49	M44	X	-.579	-.579	0	%100
50	M44	Z	-1.003	-1.003	0	%100
51	M45	X	-.045	-.045	0	%100
52	M45	Z	-.078	-.078	0	%100
53	M46	X	-.851	-.851	0	%100
54	M46	Z	-1.474	-1.474	0	%100
55	M47	X	-.067	-.067	0	%100
56	M47	Z	-.115	-.115	0	%100
57	M48	X	-.851	-.851	0	%100
58	M48	Z	-1.474	-1.474	0	%100
59	M49	X	-.067	-.067	0	%100
60	M49	Z	-.115	-.115	0	%100
61	M45A	X	-.803	-.803	0	%100
62	M45A	Z	-1.391	-1.391	0	%100
63	M46A	X	-.812	-.812	0	%100
64	M46A	Z	-1.407	-1.407	0	%100
65	M47A	X	-.812	-.812	0	%100
66	M47A	Z	-1.407	-1.407	0	%100
67	M48A	X	-.803	-.803	0	%100
68	M48A	Z	-1.391	-1.391	0	%100
69	M49A	X	-.803	-.803	0	%100
70	M49A	Z	-1.391	-1.391	0	%100
71	M50	X	-.698	-.698	0	%100
72	M50	Z	-1.21	-1.21	0	%100
73	M51	X	-.698	-.698	0	%100
74	M51	Z	-1.21	-1.21	0	%100
75	M52	X	-.803	-.803	0	%100
76	M52	Z	-1.391	-1.391	0	%100
77	M53	X	-1.801	-1.801	0	%100
78	M53	Z	-3.12	-3.12	0	%100
79	M54	X	-1.801	-1.801	0	%100
80	M54	Z	-3.12	-3.12	0	%100
81	M55	X	-.783	-.783	0	%100
82	M55	Z	-1.356	-1.356	0	%100
83	M56	X	-.783	-.783	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
84	M56	Z	-1.356	-1.356	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	-.579	-.579	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.579	-.579	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	-.579	-.579	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-.579	-.579	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-.579	-.579	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	-.579	-.579	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	0	0	0	%100
17	M21A	X	0	0	0	%100
18	M21A	Z	-.122	-.122	0	%100
19	M22A	X	0	0	0	%100
20	M22A	Z	-.122	-.122	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	-.066	-.066	0	%100
23	M23	X	0	0	0	%100
24	M23	Z	-.066	-.066	0	%100
25	M24	X	0	0	0	%100
26	M24	Z	-.066	-.066	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	-.066	-.066	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	-.149	-.149	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	-.149	-.149	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	-.149	-.149	0	%100
35	M29	X	0	0	0	%100
36	M29	Z	-.149	-.149	0	%100
37	M37	X	0	0	0	%100
38	M37	Z	0	0	0	%100
39	M38	X	0	0	0	%100
40	M38	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	-.122	-.122	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	-.122	-.122	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	-.066	-.066	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	-.066	-.066	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	-.066	-.066	0	%100
51	M45	X	0	0	0	%100
52	M45	Z	-.066	-.066	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
53	M46	X	0	0	0	%100
54	M46	Z	-.149	-.149	0	%100
55	M47	X	0	0	0	%100
56	M47	Z	-.149	-.149	0	%100
57	M48	X	0	0	0	%100
58	M48	Z	-.149	-.149	0	%100
59	M49	X	0	0	0	%100
60	M49	Z	-.149	-.149	0	%100
61	M45A	X	0	0	0	%100
62	M45A	Z	-.152	-.152	0	%100
63	M46A	X	0	0	0	%100
64	M46A	Z	-.141	-.141	0	%100
65	M47A	X	0	0	0	%100
66	M47A	Z	-.141	-.141	0	%100
67	M48A	X	0	0	0	%100
68	M48A	Z	-.152	-.152	0	%100
69	M49A	X	0	0	0	%100
70	M49A	Z	-.152	-.152	0	%100
71	M50	X	0	0	0	%100
72	M50	Z	-.141	-.141	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	-.141	-.141	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	-.152	-.152	0	%100
77	M53	X	0	0	0	%100
78	M53	Z	-.757	-.757	0	%100
79	M54	X	0	0	0	%100
80	M54	Z	-.757	-.757	0	%100
81	M55	X	0	0	0	%100
82	M55	Z	-.041	-.041	0	%100
83	M56	X	0	0	0	%100
84	M56	Z	-.041	-.041	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	.217	.217	0	%100
2	M1	Z	-.376	-.376	0	%100
3	M2	X	.217	.217	0	%100
4	M2	Z	-.376	-.376	0	%100
5	MP4A	X	.29	.29	0	%100
6	MP4A	Z	-.502	-.502	0	%100
7	MP3A	X	.29	.29	0	%100
8	MP3A	Z	-.502	-.502	0	%100
9	MP2A	X	.29	.29	0	%100
10	MP2A	Z	-.502	-.502	0	%100
11	MP1A	X	.29	.29	0	%100
12	MP1A	Z	-.502	-.502	0	%100
13	M17	X	.015	.015	0	%100
14	M17	Z	-.026	-.026	0	%100
15	M18	X	.015	.015	0	%100
16	M18	Z	-.026	-.026	0	%100
17	M21A	X	.046	.046	0	%100
18	M21A	Z	-.079	-.079	0	%100
19	M22A	X	.046	.046	0	%100
20	M22A	Z	-.079	-.079	0	%100
21	M22	X	.005	.005	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	M22	Z	-.008	-.008	0	%100
23	M23	X	.06	.06	0	%100
24	M23	Z	-.105	-.105	0	%100
25	M24	X	.005	.005	0	%100
26	M24	Z	-.008	-.008	0	%100
27	M25	X	.06	.06	0	%100
28	M25	Z	-.105	-.105	0	%100
29	M26	X	.011	.011	0	%100
30	M26	Z	-.018	-.018	0	%100
31	M27	X	.136	.136	0	%100
32	M27	Z	-.236	-.236	0	%100
33	M28	X	.011	.011	0	%100
34	M28	Z	-.018	-.018	0	%100
35	M29	X	.136	.136	0	%100
36	M29	Z	-.236	-.236	0	%100
37	M37	X	.015	.015	0	%100
38	M37	Z	-.026	-.026	0	%100
39	M38	X	.015	.015	0	%100
40	M38	Z	-.026	-.026	0	%100
41	M39	X	.046	.046	0	%100
42	M39	Z	-.079	-.079	0	%100
43	M40	X	.046	.046	0	%100
44	M40	Z	-.079	-.079	0	%100
45	M42	X	.005	.005	0	%100
46	M42	Z	-.008	-.008	0	%100
47	M43	X	.06	.06	0	%100
48	M43	Z	-.105	-.105	0	%100
49	M44	X	.005	.005	0	%100
50	M44	Z	-.008	-.008	0	%100
51	M45	X	.06	.06	0	%100
52	M45	Z	-.105	-.105	0	%100
53	M46	X	.011	.011	0	%100
54	M46	Z	-.018	-.018	0	%100
55	M47	X	.136	.136	0	%100
56	M47	Z	-.236	-.236	0	%100
57	M48	X	.011	.011	0	%100
58	M48	Z	-.018	-.018	0	%100
59	M49	X	.136	.136	0	%100
60	M49	Z	-.236	-.236	0	%100
61	M45A	X	.076	.076	0	%100
62	M45A	Z	-.132	-.132	0	%100
63	M46A	X	.065	.065	0	%100
64	M46A	Z	-.112	-.112	0	%100
65	M47A	X	.065	.065	0	%100
66	M47A	Z	-.112	-.112	0	%100
67	M48A	X	.076	.076	0	%100
68	M48A	Z	-.132	-.132	0	%100
69	M49A	X	.076	.076	0	%100
70	M49A	Z	-.132	-.132	0	%100
71	M50	X	.076	.076	0	%100
72	M50	Z	-.131	-.131	0	%100
73	M51	X	.076	.076	0	%100
74	M51	Z	-.131	-.131	0	%100
75	M52	X	.076	.076	0	%100
76	M52	Z	-.132	-.132	0	%100
77	M53	X	.378	.378	0	%100
78	M53	Z	-.655	-.655	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
79	M54	X	.378	.378	0	%100
80	M54	Z	-.655	-.655	0	%100
81	M55	X	.02	.02	0	%100
82	M55	Z	-.034	-.034	0	%100
83	M56	X	.02	.02	0	%100
84	M56	Z	-.034	-.034	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	.125	.125	0	%100
2	M1	Z	-.072	-.072	0	%100
3	M2	X	.125	.125	0	%100
4	M2	Z	-.072	-.072	0	%100
5	MP4A	X	.502	.502	0	%100
6	MP4A	Z	-.29	-.29	0	%100
7	MP3A	X	.502	.502	0	%100
8	MP3A	Z	-.29	-.29	0	%100
9	MP2A	X	.502	.502	0	%100
10	MP2A	Z	-.29	-.29	0	%100
11	MP1A	X	.502	.502	0	%100
12	MP1A	Z	-.29	-.29	0	%100
13	M17	X	.079	.079	0	%100
14	M17	Z	-.046	-.046	0	%100
15	M18	X	.079	.079	0	%100
16	M18	Z	-.046	-.046	0	%100
17	M21A	X	.026	.026	0	%100
18	M21A	Z	-.015	-.015	0	%100
19	M22A	X	.026	.026	0	%100
20	M22A	Z	-.015	-.015	0	%100
21	M22	X	.007	.007	0	%100
22	M22	Z	-.004	-.004	0	%100
23	M23	X	.103	.103	0	%100
24	M23	Z	-.06	-.06	0	%100
25	M24	X	.007	.007	0	%100
26	M24	Z	-.004	-.004	0	%100
27	M25	X	.103	.103	0	%100
28	M25	Z	-.06	-.06	0	%100
29	M26	X	.015	.015	0	%100
30	M26	Z	-.009	-.009	0	%100
31	M27	X	.233	.233	0	%100
32	M27	Z	-.134	-.134	0	%100
33	M28	X	.015	.015	0	%100
34	M28	Z	-.009	-.009	0	%100
35	M29	X	.233	.233	0	%100
36	M29	Z	-.134	-.134	0	%100
37	M37	X	.079	.079	0	%100
38	M37	Z	-.046	-.046	0	%100
39	M38	X	.079	.079	0	%100
40	M38	Z	-.046	-.046	0	%100
41	M39	X	.026	.026	0	%100
42	M39	Z	-.015	-.015	0	%100
43	M40	X	.026	.026	0	%100
44	M40	Z	-.015	-.015	0	%100
45	M42	X	.007	.007	0	%100
46	M42	Z	-.004	-.004	0	%100
47	M43	X	.103	.103	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
48	M43	Z	-.06	-.06	0	%100
49	M44	X	.007	.007	0	%100
50	M44	Z	-.004	-.004	0	%100
51	M45	X	.103	.103	0	%100
52	M45	Z	-.06	-.06	0	%100
53	M46	X	.015	.015	0	%100
54	M46	Z	-.009	-.009	0	%100
55	M47	X	.233	.233	0	%100
56	M47	Z	-.134	-.134	0	%100
57	M48	X	.015	.015	0	%100
58	M48	Z	-.009	-.009	0	%100
59	M49	X	.233	.233	0	%100
60	M49	Z	-.134	-.134	0	%100
61	M45A	X	.132	.132	0	%100
62	M45A	Z	-.076	-.076	0	%100
63	M46A	X	.112	.112	0	%100
64	M46A	Z	-.065	-.065	0	%100
65	M47A	X	.112	.112	0	%100
66	M47A	Z	-.065	-.065	0	%100
67	M48A	X	.132	.132	0	%100
68	M48A	Z	-.076	-.076	0	%100
69	M49A	X	.132	.132	0	%100
70	M49A	Z	-.076	-.076	0	%100
71	M50	X	.131	.131	0	%100
72	M50	Z	-.075	-.075	0	%100
73	M51	X	.131	.131	0	%100
74	M51	Z	-.075	-.075	0	%100
75	M52	X	.132	.132	0	%100
76	M52	Z	-.076	-.076	0	%100
77	M53	X	.655	.655	0	%100
78	M53	Z	-.378	-.378	0	%100
79	M54	X	.655	.655	0	%100
80	M54	Z	-.378	-.378	0	%100
81	M55	X	.251	.251	0	%100
82	M55	Z	-.145	-.145	0	%100
83	M56	X	.251	.251	0	%100
84	M56	Z	-.145	-.145	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP4A	X	.579	.579	0	%100
6	MP4A	Z	0	0	0	%100
7	MP3A	X	.579	.579	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	.579	.579	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	.579	.579	0	%100
12	MP1A	Z	0	0	0	%100
13	M17	X	.122	.122	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	.122	.122	0	%100
16	M18	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	M21A	X	0	0	0	%100
18	M21A	Z	0	0	0	%100
19	M22A	X	0	0	0	%100
20	M22A	Z	0	0	0	%100
21	M22	X	.063	.063	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	.063	.063	0	%100
24	M23	Z	0	0	0	%100
25	M24	X	.063	.063	0	%100
26	M24	Z	0	0	0	%100
27	M25	X	.063	.063	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	.141	.141	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	.141	.141	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	.141	.141	0	%100
34	M28	Z	0	0	0	%100
35	M29	X	.141	.141	0	%100
36	M29	Z	0	0	0	%100
37	M37	X	.122	.122	0	%100
38	M37	Z	0	0	0	%100
39	M38	X	.122	.122	0	%100
40	M38	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	0	0	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M42	X	.063	.063	0	%100
46	M42	Z	0	0	0	%100
47	M43	X	.063	.063	0	%100
48	M43	Z	0	0	0	%100
49	M44	X	.063	.063	0	%100
50	M44	Z	0	0	0	%100
51	M45	X	.063	.063	0	%100
52	M45	Z	0	0	0	%100
53	M46	X	.141	.141	0	%100
54	M46	Z	0	0	0	%100
55	M47	X	.141	.141	0	%100
56	M47	Z	0	0	0	%100
57	M48	X	.141	.141	0	%100
58	M48	Z	0	0	0	%100
59	M49	X	.141	.141	0	%100
60	M49	Z	0	0	0	%100
61	M45A	X	.152	.152	0	%100
62	M45A	Z	0	0	0	%100
63	M46A	X	.14	.14	0	%100
64	M46A	Z	0	0	0	%100
65	M47A	X	.14	.14	0	%100
66	M47A	Z	0	0	0	%100
67	M48A	X	.152	.152	0	%100
68	M48A	Z	0	0	0	%100
69	M49A	X	.152	.152	0	%100
70	M49A	Z	0	0	0	%100
71	M50	X	.14	.14	0	%100
72	M50	Z	0	0	0	%100
73	M51	X	.14	.14	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
74	M51	Z	0	0	0	%100
75	M52	X	.152	.152	0	%100
76	M52	Z	0	0	0	%100
77	M53	X	.757	.757	0	%100
78	M53	Z	0	0	0	%100
79	M54	X	.757	.757	0	%100
80	M54	Z	0	0	0	%100
81	M55	X	.54	.54	0	%100
82	M55	Z	0	0	0	%100
83	M56	X	.54	.54	0	%100
84	M56	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	.125	.125	0	%100
2	M1	Z	.072	.072	0	%100
3	M2	X	.125	.125	0	%100
4	M2	Z	.072	.072	0	%100
5	MP4A	X	.502	.502	0	%100
6	MP4A	Z	.29	.29	0	%100
7	MP3A	X	.502	.502	0	%100
8	MP3A	Z	.29	.29	0	%100
9	MP2A	X	.502	.502	0	%100
10	MP2A	Z	.29	.29	0	%100
11	MP1A	X	.502	.502	0	%100
12	MP1A	Z	.29	.29	0	%100
13	M17	X	.079	.079	0	%100
14	M17	Z	.046	.046	0	%100
15	M18	X	.079	.079	0	%100
16	M18	Z	.046	.046	0	%100
17	M21A	X	.026	.026	0	%100
18	M21A	Z	.015	.015	0	%100
19	M22A	X	.026	.026	0	%100
20	M22A	Z	.015	.015	0	%100
21	M22	X	.103	.103	0	%100
22	M22	Z	.06	.06	0	%100
23	M23	X	.007	.007	0	%100
24	M23	Z	.004	.004	0	%100
25	M24	X	.103	.103	0	%100
26	M24	Z	.06	.06	0	%100
27	M25	X	.007	.007	0	%100
28	M25	Z	.004	.004	0	%100
29	M26	X	.233	.233	0	%100
30	M26	Z	.134	.134	0	%100
31	M27	X	.015	.015	0	%100
32	M27	Z	.009	.009	0	%100
33	M28	X	.233	.233	0	%100
34	M28	Z	.134	.134	0	%100
35	M29	X	.015	.015	0	%100
36	M29	Z	.009	.009	0	%100
37	M37	X	.079	.079	0	%100
38	M37	Z	.046	.046	0	%100
39	M38	X	.079	.079	0	%100
40	M38	Z	.046	.046	0	%100
41	M39	X	.026	.026	0	%100
42	M39	Z	.015	.015	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
43	M40	X	.026	.026	0	%100
44	M40	Z	.015	.015	0	%100
45	M42	X	.103	.103	0	%100
46	M42	Z	.06	.06	0	%100
47	M43	X	.007	.007	0	%100
48	M43	Z	.004	.004	0	%100
49	M44	X	.103	.103	0	%100
50	M44	Z	.06	.06	0	%100
51	M45	X	.007	.007	0	%100
52	M45	Z	.004	.004	0	%100
53	M46	X	.233	.233	0	%100
54	M46	Z	.134	.134	0	%100
55	M47	X	.015	.015	0	%100
56	M47	Z	.009	.009	0	%100
57	M48	X	.233	.233	0	%100
58	M48	Z	.134	.134	0	%100
59	M49	X	.015	.015	0	%100
60	M49	Z	.009	.009	0	%100
61	M45A	X	.132	.132	0	%100
62	M45A	Z	.076	.076	0	%100
63	M46A	X	.131	.131	0	%100
64	M46A	Z	.075	.075	0	%100
65	M47A	X	.131	.131	0	%100
66	M47A	Z	.075	.075	0	%100
67	M48A	X	.132	.132	0	%100
68	M48A	Z	.076	.076	0	%100
69	M49A	X	.132	.132	0	%100
70	M49A	Z	.076	.076	0	%100
71	M50	X	.112	.112	0	%100
72	M50	Z	.065	.065	0	%100
73	M51	X	.112	.112	0	%100
74	M51	Z	.065	.065	0	%100
75	M52	X	.132	.132	0	%100
76	M52	Z	.076	.076	0	%100
77	M53	X	.655	.655	0	%100
78	M53	Z	.378	.378	0	%100
79	M54	X	.655	.655	0	%100
80	M54	Z	.378	.378	0	%100
81	M55	X	.469	.469	0	%100
82	M55	Z	.271	.271	0	%100
83	M56	X	.469	.469	0	%100
84	M56	Z	.271	.271	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	.217	.217	0	%100
2	M1	Z	.376	.376	0	%100
3	M2	X	.217	.217	0	%100
4	M2	Z	.376	.376	0	%100
5	MP4A	X	.29	.29	0	%100
6	MP4A	Z	.502	.502	0	%100
7	MP3A	X	.29	.29	0	%100
8	MP3A	Z	.502	.502	0	%100
9	MP2A	X	.29	.29	0	%100
10	MP2A	Z	.502	.502	0	%100
11	MP1A	X	.29	.29	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
12	MP1A	Z	.502	.502	0	%100
13	M17	X	.015	.015	0	%100
14	M17	Z	.026	.026	0	%100
15	M18	X	.015	.015	0	%100
16	M18	Z	.026	.026	0	%100
17	M21A	X	.046	.046	0	%100
18	M21A	Z	.079	.079	0	%100
19	M22A	X	.046	.046	0	%100
20	M22A	Z	.079	.079	0	%100
21	M22	X	.06	.06	0	%100
22	M22	Z	.105	.105	0	%100
23	M23	X	.005	.005	0	%100
24	M23	Z	.008	.008	0	%100
25	M24	X	.06	.06	0	%100
26	M24	Z	.105	.105	0	%100
27	M25	X	.005	.005	0	%100
28	M25	Z	.008	.008	0	%100
29	M26	X	.136	.136	0	%100
30	M26	Z	.236	.236	0	%100
31	M27	X	.011	.011	0	%100
32	M27	Z	.018	.018	0	%100
33	M28	X	.136	.136	0	%100
34	M28	Z	.236	.236	0	%100
35	M29	X	.011	.011	0	%100
36	M29	Z	.018	.018	0	%100
37	M37	X	.015	.015	0	%100
38	M37	Z	.026	.026	0	%100
39	M38	X	.015	.015	0	%100
40	M38	Z	.026	.026	0	%100
41	M39	X	.046	.046	0	%100
42	M39	Z	.079	.079	0	%100
43	M40	X	.046	.046	0	%100
44	M40	Z	.079	.079	0	%100
45	M42	X	.06	.06	0	%100
46	M42	Z	.105	.105	0	%100
47	M43	X	.005	.005	0	%100
48	M43	Z	.008	.008	0	%100
49	M44	X	.06	.06	0	%100
50	M44	Z	.105	.105	0	%100
51	M45	X	.005	.005	0	%100
52	M45	Z	.008	.008	0	%100
53	M46	X	.136	.136	0	%100
54	M46	Z	.236	.236	0	%100
55	M47	X	.011	.011	0	%100
56	M47	Z	.018	.018	0	%100
57	M48	X	.136	.136	0	%100
58	M48	Z	.236	.236	0	%100
59	M49	X	.011	.011	0	%100
60	M49	Z	.018	.018	0	%100
61	M45A	X	.076	.076	0	%100
62	M45A	Z	.132	.132	0	%100
63	M46A	X	.076	.076	0	%100
64	M46A	Z	.131	.131	0	%100
65	M47A	X	.076	.076	0	%100
66	M47A	Z	.131	.131	0	%100
67	M48A	X	.076	.076	0	%100
68	M48A	Z	.132	.132	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
69	M49A	X	.076	.076	0	%100
70	M49A	Z	.132	.132	0	%100
71	M50	X	.065	.065	0	%100
72	M50	Z	.112	.112	0	%100
73	M51	X	.065	.065	0	%100
74	M51	Z	.112	.112	0	%100
75	M52	X	.076	.076	0	%100
76	M52	Z	.132	.132	0	%100
77	M53	X	.378	.378	0	%100
78	M53	Z	.655	.655	0	%100
79	M54	X	.378	.378	0	%100
80	M54	Z	.655	.655	0	%100
81	M55	X	.146	.146	0	%100
82	M55	Z	.253	.253	0	%100
83	M56	X	.146	.146	0	%100
84	M56	Z	.253	.253	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	.579	.579	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.579	.579	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	.579	.579	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	.579	.579	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	.579	.579	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	.579	.579	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	0	0	0	%100
17	M21A	X	0	0	0	%100
18	M21A	Z	.122	.122	0	%100
19	M22A	X	0	0	0	%100
20	M22A	Z	.122	.122	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	.066	.066	0	%100
23	M23	X	0	0	0	%100
24	M23	Z	.066	.066	0	%100
25	M24	X	0	0	0	%100
26	M24	Z	.066	.066	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	.066	.066	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	.149	.149	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	.149	.149	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	.149	.149	0	%100
35	M29	X	0	0	0	%100
36	M29	Z	.149	.149	0	%100
37	M37	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
38	M37	Z	0	0	0	%100
39	M38	X	0	0	0	%100
40	M38	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	.122	.122	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	.122	.122	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	.066	.066	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	.066	.066	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	.066	.066	0	%100
51	M45	X	0	0	0	%100
52	M45	Z	.066	.066	0	%100
53	M46	X	0	0	0	%100
54	M46	Z	.149	.149	0	%100
55	M47	X	0	0	0	%100
56	M47	Z	.149	.149	0	%100
57	M48	X	0	0	0	%100
58	M48	Z	.149	.149	0	%100
59	M49	X	0	0	0	%100
60	M49	Z	.149	.149	0	%100
61	M45A	X	0	0	0	%100
62	M45A	Z	.152	.152	0	%100
63	M46A	X	0	0	0	%100
64	M46A	Z	.141	.141	0	%100
65	M47A	X	0	0	0	%100
66	M47A	Z	.141	.141	0	%100
67	M48A	X	0	0	0	%100
68	M48A	Z	.152	.152	0	%100
69	M49A	X	0	0	0	%100
70	M49A	Z	.152	.152	0	%100
71	M50	X	0	0	0	%100
72	M50	Z	.141	.141	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	.141	.141	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	.152	.152	0	%100
77	M53	X	0	0	0	%100
78	M53	Z	.757	.757	0	%100
79	M54	X	0	0	0	%100
80	M54	Z	.757	.757	0	%100
81	M55	X	0	0	0	%100
82	M55	Z	.041	.041	0	%100
83	M56	X	0	0	0	%100
84	M56	Z	.041	.041	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	-.217	-.217	0	%100
2	M1	Z	.376	.376	0	%100
3	M2	X	-.217	-.217	0	%100
4	M2	Z	.376	.376	0	%100
5	MP4A	X	-.29	-.29	0	%100
6	MP4A	Z	.502	.502	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
7	MP3A	X	-.29	-.29	0	%100
8	MP3A	Z	.502	.502	0	%100
9	MP2A	X	-.29	-.29	0	%100
10	MP2A	Z	.502	.502	0	%100
11	MP1A	X	-.29	-.29	0	%100
12	MP1A	Z	.502	.502	0	%100
13	M17	X	-.015	-.015	0	%100
14	M17	Z	.026	.026	0	%100
15	M18	X	-.015	-.015	0	%100
16	M18	Z	.026	.026	0	%100
17	M21A	X	-.046	-.046	0	%100
18	M21A	Z	.079	.079	0	%100
19	M22A	X	-.046	-.046	0	%100
20	M22A	Z	.079	.079	0	%100
21	M22	X	-.005	-.005	0	%100
22	M22	Z	.008	.008	0	%100
23	M23	X	-.06	-.06	0	%100
24	M23	Z	.105	.105	0	%100
25	M24	X	-.005	-.005	0	%100
26	M24	Z	.008	.008	0	%100
27	M25	X	-.06	-.06	0	%100
28	M25	Z	.105	.105	0	%100
29	M26	X	-.011	-.011	0	%100
30	M26	Z	.018	.018	0	%100
31	M27	X	-.136	-.136	0	%100
32	M27	Z	.236	.236	0	%100
33	M28	X	-.011	-.011	0	%100
34	M28	Z	.018	.018	0	%100
35	M29	X	-.136	-.136	0	%100
36	M29	Z	.236	.236	0	%100
37	M37	X	-.015	-.015	0	%100
38	M37	Z	.026	.026	0	%100
39	M38	X	-.015	-.015	0	%100
40	M38	Z	.026	.026	0	%100
41	M39	X	-.046	-.046	0	%100
42	M39	Z	.079	.079	0	%100
43	M40	X	-.046	-.046	0	%100
44	M40	Z	.079	.079	0	%100
45	M42	X	-.005	-.005	0	%100
46	M42	Z	.008	.008	0	%100
47	M43	X	-.06	-.06	0	%100
48	M43	Z	.105	.105	0	%100
49	M44	X	-.005	-.005	0	%100
50	M44	Z	.008	.008	0	%100
51	M45	X	-.06	-.06	0	%100
52	M45	Z	.105	.105	0	%100
53	M46	X	-.011	-.011	0	%100
54	M46	Z	.018	.018	0	%100
55	M47	X	-.136	-.136	0	%100
56	M47	Z	.236	.236	0	%100
57	M48	X	-.011	-.011	0	%100
58	M48	Z	.018	.018	0	%100
59	M49	X	-.136	-.136	0	%100
60	M49	Z	.236	.236	0	%100
61	M45A	X	-.076	-.076	0	%100
62	M45A	Z	.132	.132	0	%100
63	M46A	X	-.065	-.065	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
64	M46A	Z	.112	.112	0	%100
65	M47A	X	-.065	-.065	0	%100
66	M47A	Z	.112	.112	0	%100
67	M48A	X	-.076	-.076	0	%100
68	M48A	Z	.132	.132	0	%100
69	M49A	X	-.076	-.076	0	%100
70	M49A	Z	.132	.132	0	%100
71	M50	X	-.076	-.076	0	%100
72	M50	Z	.131	.131	0	%100
73	M51	X	-.076	-.076	0	%100
74	M51	Z	.131	.131	0	%100
75	M52	X	-.076	-.076	0	%100
76	M52	Z	.132	.132	0	%100
77	M53	X	-.378	-.378	0	%100
78	M53	Z	.655	.655	0	%100
79	M54	X	-.378	-.378	0	%100
80	M54	Z	.655	.655	0	%100
81	M55	X	-.02	-.02	0	%100
82	M55	Z	.034	.034	0	%100
83	M56	X	-.02	-.02	0	%100
84	M56	Z	.034	.034	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	-.125	-.125	0	%100
2	M1	Z	.072	.072	0	%100
3	M2	X	-.125	-.125	0	%100
4	M2	Z	.072	.072	0	%100
5	MP4A	X	-.502	-.502	0	%100
6	MP4A	Z	.29	.29	0	%100
7	MP3A	X	-.502	-.502	0	%100
8	MP3A	Z	.29	.29	0	%100
9	MP2A	X	-.502	-.502	0	%100
10	MP2A	Z	.29	.29	0	%100
11	MP1A	X	-.502	-.502	0	%100
12	MP1A	Z	.29	.29	0	%100
13	M17	X	-.079	-.079	0	%100
14	M17	Z	.046	.046	0	%100
15	M18	X	-.079	-.079	0	%100
16	M18	Z	.046	.046	0	%100
17	M21A	X	-.026	-.026	0	%100
18	M21A	Z	.015	.015	0	%100
19	M22A	X	-.026	-.026	0	%100
20	M22A	Z	.015	.015	0	%100
21	M22	X	-.007	-.007	0	%100
22	M22	Z	.004	.004	0	%100
23	M23	X	-.103	-.103	0	%100
24	M23	Z	.06	.06	0	%100
25	M24	X	-.007	-.007	0	%100
26	M24	Z	.004	.004	0	%100
27	M25	X	-.103	-.103	0	%100
28	M25	Z	.06	.06	0	%100
29	M26	X	-.015	-.015	0	%100
30	M26	Z	.009	.009	0	%100
31	M27	X	-.233	-.233	0	%100
32	M27	Z	.134	.134	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
33	M28	X	-.015	-.015	0	%100
34	M28	Z	.009	.009	0	%100
35	M29	X	-.233	-.233	0	%100
36	M29	Z	.134	.134	0	%100
37	M37	X	-.079	-.079	0	%100
38	M37	Z	.046	.046	0	%100
39	M38	X	-.079	-.079	0	%100
40	M38	Z	.046	.046	0	%100
41	M39	X	-.026	-.026	0	%100
42	M39	Z	.015	.015	0	%100
43	M40	X	-.026	-.026	0	%100
44	M40	Z	.015	.015	0	%100
45	M42	X	-.007	-.007	0	%100
46	M42	Z	.004	.004	0	%100
47	M43	X	-.103	-.103	0	%100
48	M43	Z	.06	.06	0	%100
49	M44	X	-.007	-.007	0	%100
50	M44	Z	.004	.004	0	%100
51	M45	X	-.103	-.103	0	%100
52	M45	Z	.06	.06	0	%100
53	M46	X	-.015	-.015	0	%100
54	M46	Z	.009	.009	0	%100
55	M47	X	-.233	-.233	0	%100
56	M47	Z	.134	.134	0	%100
57	M48	X	-.015	-.015	0	%100
58	M48	Z	.009	.009	0	%100
59	M49	X	-.233	-.233	0	%100
60	M49	Z	.134	.134	0	%100
61	M45A	X	-.132	-.132	0	%100
62	M45A	Z	.076	.076	0	%100
63	M46A	X	-.112	-.112	0	%100
64	M46A	Z	.065	.065	0	%100
65	M47A	X	-.112	-.112	0	%100
66	M47A	Z	.065	.065	0	%100
67	M48A	X	-.132	-.132	0	%100
68	M48A	Z	.076	.076	0	%100
69	M49A	X	-.132	-.132	0	%100
70	M49A	Z	.076	.076	0	%100
71	M50	X	-.131	-.131	0	%100
72	M50	Z	.075	.075	0	%100
73	M51	X	-.131	-.131	0	%100
74	M51	Z	.075	.075	0	%100
75	M52	X	-.132	-.132	0	%100
76	M52	Z	.076	.076	0	%100
77	M53	X	-.655	-.655	0	%100
78	M53	Z	.378	.378	0	%100
79	M54	X	-.655	-.655	0	%100
80	M54	Z	.378	.378	0	%100
81	M55	X	-.251	-.251	0	%100
82	M55	Z	.145	.145	0	%100
83	M56	X	-.251	-.251	0	%100
84	M56	Z	.145	.145	0	%100

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

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

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP4A	X	-.579	-.579	0	%100
6	MP4A	Z	0	0	0	%100
7	MP3A	X	-.579	-.579	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	-.579	-.579	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	-.579	-.579	0	%100
12	MP1A	Z	0	0	0	%100
13	M17	X	-.122	-.122	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-.122	-.122	0	%100
16	M18	Z	0	0	0	%100
17	M21A	X	0	0	0	%100
18	M21A	Z	0	0	0	%100
19	M22A	X	0	0	0	%100
20	M22A	Z	0	0	0	%100
21	M22	X	-.063	-.063	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	-.063	-.063	0	%100
24	M23	Z	0	0	0	%100
25	M24	X	-.063	-.063	0	%100
26	M24	Z	0	0	0	%100
27	M25	X	-.063	-.063	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	-.141	-.141	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	-.141	-.141	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	-.141	-.141	0	%100
34	M28	Z	0	0	0	%100
35	M29	X	-.141	-.141	0	%100
36	M29	Z	0	0	0	%100
37	M37	X	-.122	-.122	0	%100
38	M37	Z	0	0	0	%100
39	M38	X	-.122	-.122	0	%100
40	M38	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	0	0	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M42	X	-.063	-.063	0	%100
46	M42	Z	0	0	0	%100
47	M43	X	-.063	-.063	0	%100
48	M43	Z	0	0	0	%100
49	M44	X	-.063	-.063	0	%100
50	M44	Z	0	0	0	%100
51	M45	X	-.063	-.063	0	%100
52	M45	Z	0	0	0	%100
53	M46	X	-.141	-.141	0	%100
54	M46	Z	0	0	0	%100
55	M47	X	-.141	-.141	0	%100
56	M47	Z	0	0	0	%100
57	M48	X	-.141	-.141	0	%100
58	M48	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
59	M49	X	-.141	-.141	0	%100
60	M49	Z	0	0	0	%100
61	M45A	X	-.152	-.152	0	%100
62	M45A	Z	0	0	0	%100
63	M46A	X	-.14	-.14	0	%100
64	M46A	Z	0	0	0	%100
65	M47A	X	-.14	-.14	0	%100
66	M47A	Z	0	0	0	%100
67	M48A	X	-.152	-.152	0	%100
68	M48A	Z	0	0	0	%100
69	M49A	X	-.152	-.152	0	%100
70	M49A	Z	0	0	0	%100
71	M50	X	-.14	-.14	0	%100
72	M50	Z	0	0	0	%100
73	M51	X	-.14	-.14	0	%100
74	M51	Z	0	0	0	%100
75	M52	X	-.152	-.152	0	%100
76	M52	Z	0	0	0	%100
77	M53	X	-.757	-.757	0	%100
78	M53	Z	0	0	0	%100
79	M54	X	-.757	-.757	0	%100
80	M54	Z	0	0	0	%100
81	M55	X	-.54	-.54	0	%100
82	M55	Z	0	0	0	%100
83	M56	X	-.54	-.54	0	%100
84	M56	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	-.125	-.125	0	%100
2	M1	Z	-.072	-.072	0	%100
3	M2	X	-.125	-.125	0	%100
4	M2	Z	-.072	-.072	0	%100
5	MP4A	X	-.502	-.502	0	%100
6	MP4A	Z	-.29	-.29	0	%100
7	MP3A	X	-.502	-.502	0	%100
8	MP3A	Z	-.29	-.29	0	%100
9	MP2A	X	-.502	-.502	0	%100
10	MP2A	Z	-.29	-.29	0	%100
11	MP1A	X	-.502	-.502	0	%100
12	MP1A	Z	-.29	-.29	0	%100
13	M17	X	-.079	-.079	0	%100
14	M17	Z	-.046	-.046	0	%100
15	M18	X	-.079	-.079	0	%100
16	M18	Z	-.046	-.046	0	%100
17	M21A	X	-.026	-.026	0	%100
18	M21A	Z	-.015	-.015	0	%100
19	M22A	X	-.026	-.026	0	%100
20	M22A	Z	-.015	-.015	0	%100
21	M22	X	-.103	-.103	0	%100
22	M22	Z	-.06	-.06	0	%100
23	M23	X	-.007	-.007	0	%100
24	M23	Z	-.004	-.004	0	%100
25	M24	X	-.103	-.103	0	%100
26	M24	Z	-.06	-.06	0	%100
27	M25	X	-.007	-.007	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
28	M25	Z	-.004	-.004	0	%100
29	M26	X	-.233	-.233	0	%100
30	M26	Z	-.134	-.134	0	%100
31	M27	X	-.015	-.015	0	%100
32	M27	Z	-.009	-.009	0	%100
33	M28	X	-.233	-.233	0	%100
34	M28	Z	-.134	-.134	0	%100
35	M29	X	-.015	-.015	0	%100
36	M29	Z	-.009	-.009	0	%100
37	M37	X	-.079	-.079	0	%100
38	M37	Z	-.046	-.046	0	%100
39	M38	X	-.079	-.079	0	%100
40	M38	Z	-.046	-.046	0	%100
41	M39	X	-.026	-.026	0	%100
42	M39	Z	-.015	-.015	0	%100
43	M40	X	-.026	-.026	0	%100
44	M40	Z	-.015	-.015	0	%100
45	M42	X	-.103	-.103	0	%100
46	M42	Z	-.06	-.06	0	%100
47	M43	X	-.007	-.007	0	%100
48	M43	Z	-.004	-.004	0	%100
49	M44	X	-.103	-.103	0	%100
50	M44	Z	-.06	-.06	0	%100
51	M45	X	-.007	-.007	0	%100
52	M45	Z	-.004	-.004	0	%100
53	M46	X	-.233	-.233	0	%100
54	M46	Z	-.134	-.134	0	%100
55	M47	X	-.015	-.015	0	%100
56	M47	Z	-.009	-.009	0	%100
57	M48	X	-.233	-.233	0	%100
58	M48	Z	-.134	-.134	0	%100
59	M49	X	-.015	-.015	0	%100
60	M49	Z	-.009	-.009	0	%100
61	M45A	X	-.132	-.132	0	%100
62	M45A	Z	-.076	-.076	0	%100
63	M46A	X	-.131	-.131	0	%100
64	M46A	Z	-.075	-.075	0	%100
65	M47A	X	-.131	-.131	0	%100
66	M47A	Z	-.075	-.075	0	%100
67	M48A	X	-.132	-.132	0	%100
68	M48A	Z	-.076	-.076	0	%100
69	M49A	X	-.132	-.132	0	%100
70	M49A	Z	-.076	-.076	0	%100
71	M50	X	-.112	-.112	0	%100
72	M50	Z	-.065	-.065	0	%100
73	M51	X	-.112	-.112	0	%100
74	M51	Z	-.065	-.065	0	%100
75	M52	X	-.132	-.132	0	%100
76	M52	Z	-.076	-.076	0	%100
77	M53	X	-.655	-.655	0	%100
78	M53	Z	-.378	-.378	0	%100
79	M54	X	-.655	-.655	0	%100
80	M54	Z	-.378	-.378	0	%100
81	M55	X	-.469	-.469	0	%100
82	M55	Z	-.271	-.271	0	%100
83	M56	X	-.469	-.469	0	%100
84	M56	Z	-.271	-.271	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	-.217	-.217	0	%100
2	M1	Z	-.376	-.376	0	%100
3	M2	X	-.217	-.217	0	%100
4	M2	Z	-.376	-.376	0	%100
5	MP4A	X	-.29	-.29	0	%100
6	MP4A	Z	-.502	-.502	0	%100
7	MP3A	X	-.29	-.29	0	%100
8	MP3A	Z	-.502	-.502	0	%100
9	MP2A	X	-.29	-.29	0	%100
10	MP2A	Z	-.502	-.502	0	%100
11	MP1A	X	-.29	-.29	0	%100
12	MP1A	Z	-.502	-.502	0	%100
13	M17	X	-.015	-.015	0	%100
14	M17	Z	-.026	-.026	0	%100
15	M18	X	-.015	-.015	0	%100
16	M18	Z	-.026	-.026	0	%100
17	M21A	X	-.046	-.046	0	%100
18	M21A	Z	-.079	-.079	0	%100
19	M22A	X	-.046	-.046	0	%100
20	M22A	Z	-.079	-.079	0	%100
21	M22	X	-.06	-.06	0	%100
22	M22	Z	-.105	-.105	0	%100
23	M23	X	-.005	-.005	0	%100
24	M23	Z	-.008	-.008	0	%100
25	M24	X	-.06	-.06	0	%100
26	M24	Z	-.105	-.105	0	%100
27	M25	X	-.005	-.005	0	%100
28	M25	Z	-.008	-.008	0	%100
29	M26	X	-.136	-.136	0	%100
30	M26	Z	-.236	-.236	0	%100
31	M27	X	-.011	-.011	0	%100
32	M27	Z	-.018	-.018	0	%100
33	M28	X	-.136	-.136	0	%100
34	M28	Z	-.236	-.236	0	%100
35	M29	X	-.011	-.011	0	%100
36	M29	Z	-.018	-.018	0	%100
37	M37	X	-.015	-.015	0	%100
38	M37	Z	-.026	-.026	0	%100
39	M38	X	-.015	-.015	0	%100
40	M38	Z	-.026	-.026	0	%100
41	M39	X	-.046	-.046	0	%100
42	M39	Z	-.079	-.079	0	%100
43	M40	X	-.046	-.046	0	%100
44	M40	Z	-.079	-.079	0	%100
45	M42	X	-.06	-.06	0	%100
46	M42	Z	-.105	-.105	0	%100
47	M43	X	-.005	-.005	0	%100
48	M43	Z	-.008	-.008	0	%100
49	M44	X	-.06	-.06	0	%100
50	M44	Z	-.105	-.105	0	%100
51	M45	X	-.005	-.005	0	%100
52	M45	Z	-.008	-.008	0	%100
53	M46	X	-.136	-.136	0	%100
54	M46	Z	-.236	-.236	0	%100
55	M47	X	-.011	-.011	0	%100
56	M47	Z	-.018	-.018	0	%100
57	M48	X	-.136	-.136	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M48	Z	-.236	-.236	0	%100
59	M49	X	-.011	-.011	0	%100
60	M49	Z	-.018	-.018	0	%100
61	M45A	X	-.076	-.076	0	%100
62	M45A	Z	-.132	-.132	0	%100
63	M46A	X	-.076	-.076	0	%100
64	M46A	Z	-.131	-.131	0	%100
65	M47A	X	-.076	-.076	0	%100
66	M47A	Z	-.131	-.131	0	%100
67	M48A	X	-.076	-.076	0	%100
68	M48A	Z	-.132	-.132	0	%100
69	M49A	X	-.076	-.076	0	%100
70	M49A	Z	-.132	-.132	0	%100
71	M50	X	-.065	-.065	0	%100
72	M50	Z	-.112	-.112	0	%100
73	M51	X	-.065	-.065	0	%100
74	M51	Z	-.112	-.112	0	%100
75	M52	X	-.076	-.076	0	%100
76	M52	Z	-.132	-.132	0	%100
77	M53	X	-.378	-.378	0	%100
78	M53	Z	-.655	-.655	0	%100
79	M54	X	-.378	-.378	0	%100
80	M54	Z	-.655	-.655	0	%100
81	M55	X	-.146	-.146	0	%100
82	M55	Z	-.253	-.253	0	%100
83	M56	X	-.146	-.146	0	%100
84	M56	Z	-.253	-.253	0	%100

Member Area Loads

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
No Data to Print ...						

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	N32	max	1636.318	34	1044.661	19	380.909	1	-.418	1	0	51	.198	49
2		min	-961.198	4	441.308	1	-1773.555	19	-1	19	0	1	-.494	27
3	N66	max	622.244	49	898.237	20	1643.298	13	-.363	1	0	51	.183	49
4		min	-1598.85	28	383.711	2	360.095	7	-.857	19	0	1	-.452	27
5	N85A	max	188.381	6	96.936	12	616.986	12	0	51	0	51	0	51
6		min	-192	12	-63.52	6	-616.576	6	0	1	0	1	0	1
7	N86A	max	54.867	3	112.552	3	569.615	3	0	51	0	51	0	51
8		min	-49.284	9	-87.63	9	-567.643	9	0	1	0	1	0	1
9	Totals:	max	1455.857	10	1981.299	13	1830.936	1						
10		min	-1455.859	4	925.073	7	-1830.943	7						

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc ...	phi*Pnt [...	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	M1	PIPE_2.0	.453	.391	31	.117	3.906		8	24653.8...	32130	1.872	1.872	1	H1-1b
2	M2	PIPE_2.0	.491	8.594	11	.180	3.906		11	24653.8...	32130	1.872	1.872	2...	H1-1b
3	MP4A	PIPE_2.0	.448	5.612	30	.090	3.602		27	14797.0...	32130	1.872	1.872	3...	H1-1b
4	MP3A	PIPE_2.0	.248	3.183	8	.099	3.183		30	14797.0...	32130	1.872	1.872	2...	H1-1b
5	MP2A	PIPE_2.0	.288	3.183	28	.099	3.183		27	14797.0...	32130	1.872	1.872	3...	H1-1b

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc ...	phi*Pnt [...	phi*Mn y...	phi*Mn z...	Cb	Eqn
6	MP1A	PIPE_2.0	.268	5.612	49	.054	5.612		11	14797.0...	32130	1.872	1.872	3...	H1-1b
7	M17	PL1/2X4	.172	0	2	.189	.208	y	9	63784.6...	64800	.675	5.4	1...	H1-1b
8	M18	PL1/2X4	.181	0	12	.194	.208	y	5	63784.6...	64800	.675	5.4	1...	H1-1b
9	M21A	PL1/2X4	.739	0	33	.112	0	y	33	62232.3...	64800	.675	5.4	1...	H1-1b
10	M22A	PL1/2X4	.379	0	49	.130	0	y	35	62232.3...	64800	.675	5.4	1...	H1-1b
11	M22	PL1/2X4	.168	.083	33	.127	0	y	49	64636.4...	64800	.675	5.4	1...	H1-1b
12	M23	PL1/2X4	.118	0	35	.224	.083	y	35	64636.4...	64800	.675	5.4	1...	H1-1b
13	M24	PL1/2X4	.196	0	33	.064	0	y	27	64636.3...	64800	.675	5.4	1...	H1-1b
14	M25	PL1/2X4	.187	.083	6	.047	.083	y	11	64636.3...	64800	.675	5.4	1...	H1-1b
15	M26	PIPE_1.25	.516	.083	33	.240	0		26	18828.4...	19687.5	.801	.801	1...	H1-1b
16	M27	PIPE_1.25	.460	0	35	.192	1.335		35	18828.4...	19687.5	.801	.801	2...	H1-1b
17	M28	PIPE_1.25	.279	1.224	33	.173	1.238		26	18828.4...	19687.5	.801	.801	1...	H1-1b
18	M29	PIPE_1.25	.244	0	4	.096	1.238		48	18828.4...	19687.5	.801	.801	1...	H1-1b
19	M37	PL1/2X4	.196	0	30	.074	.208	y	2	63784.6...	64800	.675	5.4	1...	H1-1b
20	M38	PL1/2X4	.128	0	44	.064	.208	y	12	63784.6...	64800	.675	5.4	1...	H1-1b
21	M39	PL1/2X4	.680	0	27	.127	0	y	26	62232.3...	64800	.675	5.4	1...	H1-1b
22	M40	PL1/2X4	.346	0	49	.131	0	y	30	62232.3...	64800	.675	5.4	1...	H1-1b
23	M42	PL1/2X4	.159	.083	28	.130	0	y	35	64636.4...	64800	.675	5.4	1...	H1-1b
24	M43	PL1/2X4	.119	0	29	.227	0	y	34	64636.4...	64800	.675	5.4	1...	H1-1b
25	M44	PL1/2X4	.135	0	32	.098	0	y	25	64636.3...	64800	.675	5.4	1...	H1-1b
26	M45	PL1/2X4	.083	0	42	.049	0	y	31	64636.3...	64800	.675	5.4	2...	H1-1b
27	M46	PIPE_1.25	.518	.083	27	.405	1.196		27	18828.4...	19687.5	.801	.801	2...	H1-1b
28	M47	PIPE_1.25	.479	0	29	.207	1.196		49	18828.4...	19687.5	.801	.801	2...	H1-1b
29	M48	PIPE_1.25	.324	0	28	.361	0		26	18828.4...	19687.5	.801	.801	2...	H1-1b
30	M49	PIPE_1.25	.170	0	49	.187	0		49	18828.4...	19687.5	.801	.801	2...	H1-1b
31	M45A	SR_0.625	.054	1.198	31	.031	0		35	3836.923	9940.19	.104	.104	1	H1-1b
32	M46A	SR_0.625	.667	1.307	31	.018	0		5	3222.962	9940.19	.104	.104	1...	H1-1a
33	M47A	SR_0.625	.231	1.335	28	.037	2.728		34	3222.962	9940.19	.104	.104	1...	H1-1a
34	M48A	SR_0.625	.262	.99	29	.094	0		35	3836.923	9940.19	.104	.104	1...	H1-1a
35	M49A	SR_0.625	.154	2.5	45	.095	0		35	3836.923	9940.19	.104	.104	1...	H1-1b*
36	M50	SR_0.625	.077	1.364	23	.033	0		34	3222.962	9940.19	.104	.104	1...	H1-1b
37	M51	SR_0.625	.370	1.449	44	.016	0		3	3222.962	9940.19	.104	.104	1...	H1-1a
38	M52	SR_0.625	.060	0	25	.032	0		34	3836.923	9940.19	.104	.104	1	H1-1b*
39	M53	PIPE_3.0	.072	3.953	27	.022	3.953		11	55456.8...	65205	5.749	5.749	2...	H1-1b
40	M54	PIPE_3.0	.040	3.953	47	.025	3.953		11	55456.8...	65205	5.749	5.749	3...	H1-1b
41	M55	PIPE_2.0	.058	3.947	11	.004	7.895		22	15218.7...	32130	1.872	1.872	1...	H1-1b
42	M56	PIPE_2.0	.033	2.864	4	.003	0		17	21680.1...	32130	1.872	1.872	1...	H1-1b

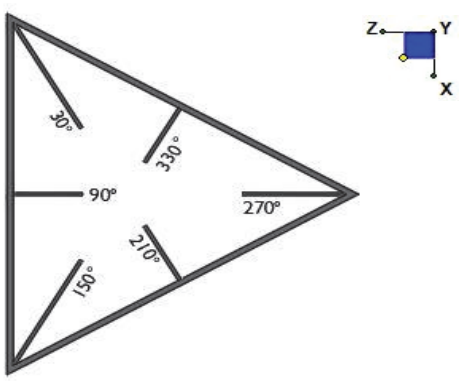
Client:	Verizon Wireless	Date:	6/7/2021
Site Name:	Stamford West 3 CT - ATC - Catoona Ln		
Project No.	21777443A		
Title:	Mount Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

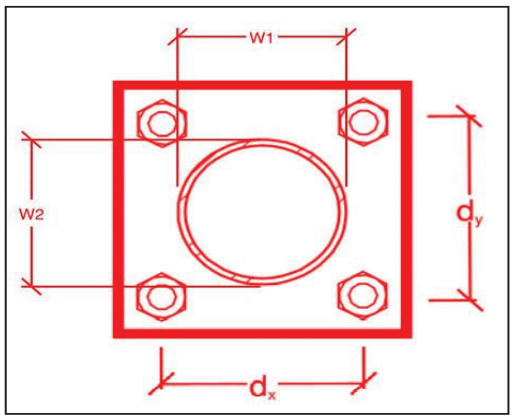
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N32	90
N66	90



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)*:	9.5
d_y (in) *(Delta Y of typ. bolt config. sketch)*:	3.5
Bolt Type:	A307
Bolt Diameter (in):	0.5
Required Tensile Strength (kips):	8.3
Required Shear Strength (kips):	2.8
Tensile Strength / bolt (kips):	6.4
Shear Strength / bolt (kips):	3.8
Tensile Capacity Overall:	**32.4%***
Shear Capacity Overall:	**18.3%**



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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

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

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

Base Requirements:

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

Photo Requirements:

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

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

Material Certification:

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

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

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

Certifying Individual: Company _____

Name _____

Signature _____

Antenna & equipment placement and Geometry Confirmation:

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

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

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

Certifying Individual: Company _____

Name _____

Signature _____

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

Issue:

Contractor shall install the RRHs on the standoff vertical pipes, in place of the removed RRHs.

Response:

Schedule A – Photo & Document File Structure

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

Structure: 468008-VZW - STAMFORD WEST 3 CT - ATC - Catoona Ln

Sector: **A**

Structure Type: Self Support

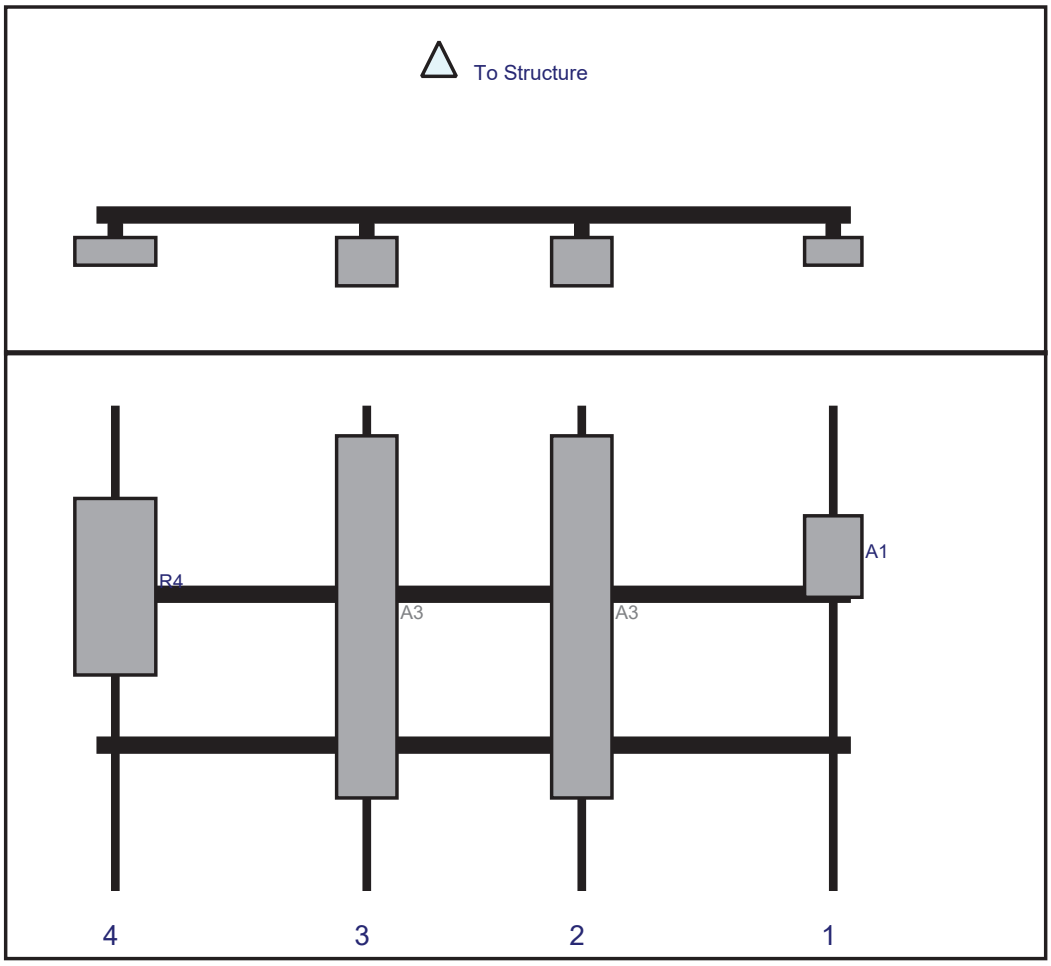
Mount Elev: 91.00

6/7/2021

MASER CONSULTING CONNECTICUT

Plan View

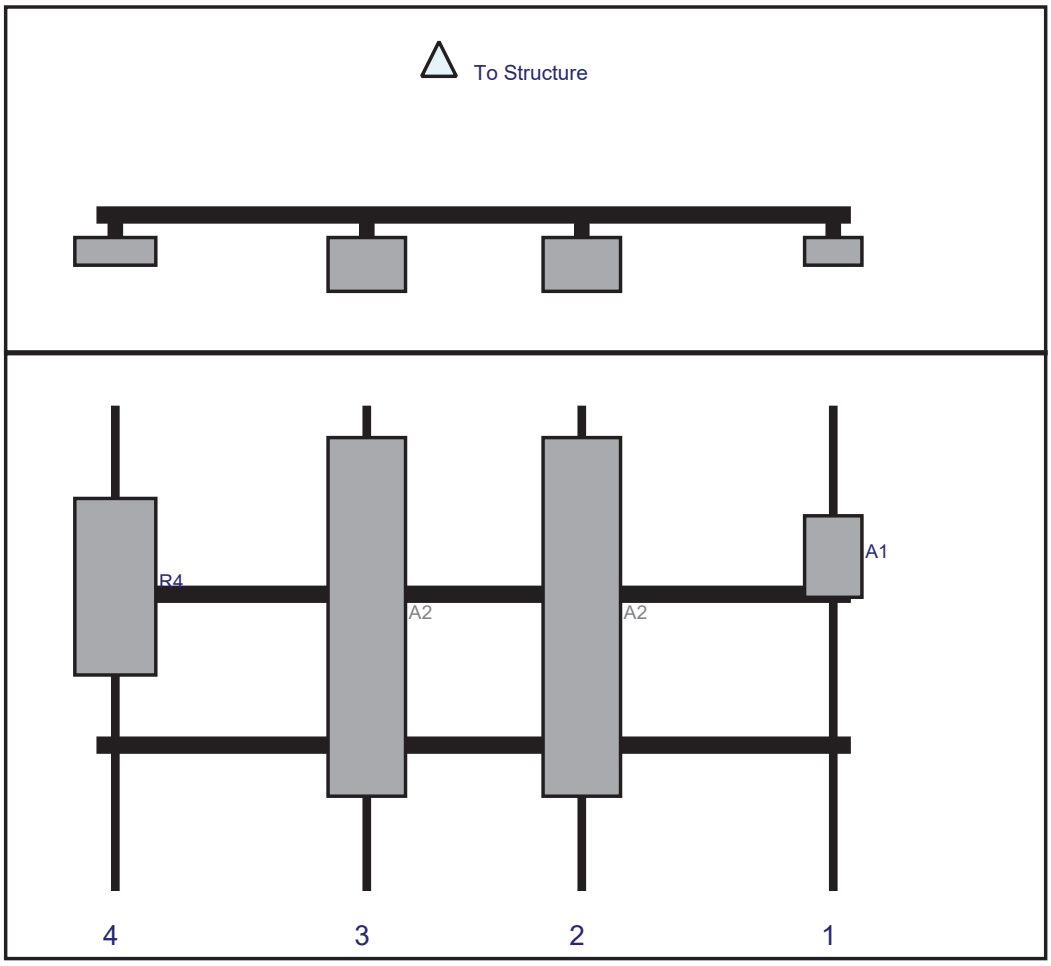
Front View
Looking at Structure



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
A3	QS6656-5D	72	12	96.5	2	a	Front	42	0	Added	
A1	XXDWMM-12.5-65-8T-CBRS	16.2	11.4	146.5	1	a	Front	30	0	Added	
A3	QS6656-5D	72	12	53.75	3	a	Front	42	0	Added	
R4	MT6407-77A	35.1	16.1	3.75	4	a	Front	36	0	Added	

Plan View

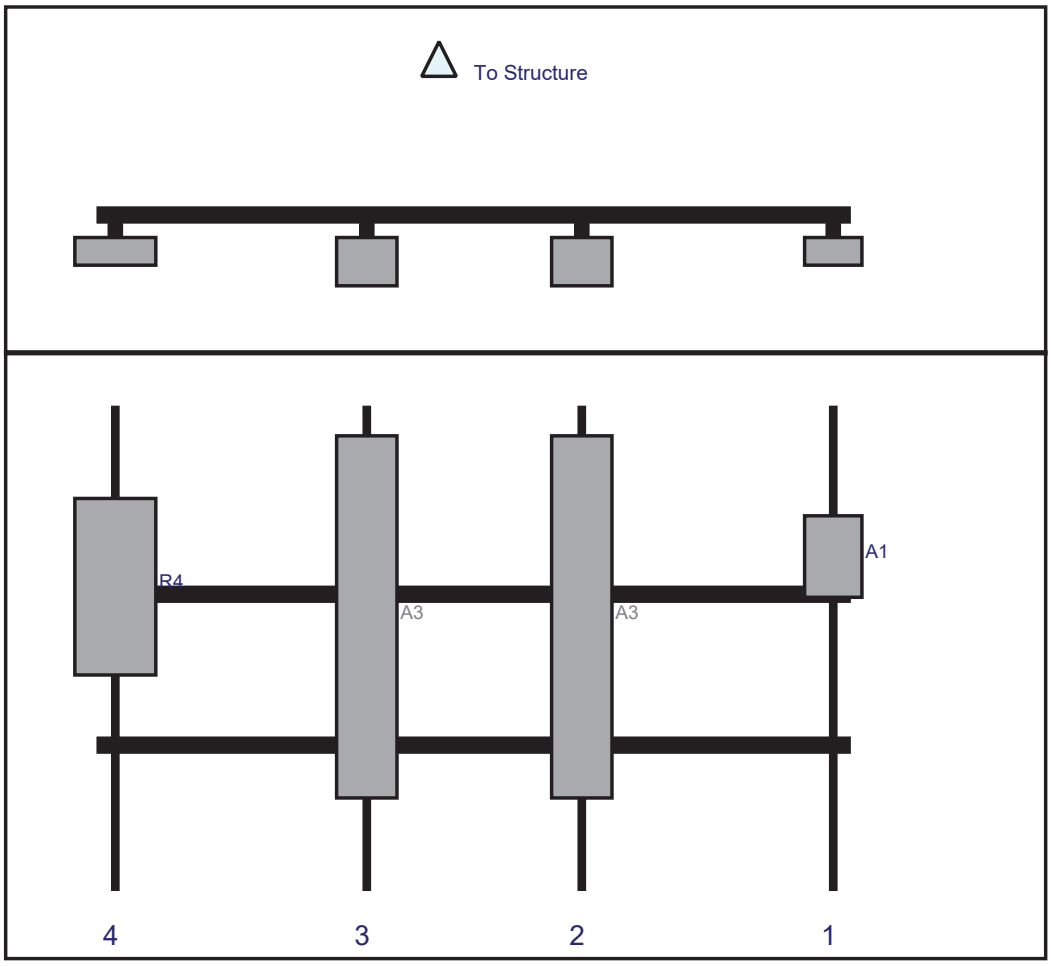
Front View
Looking at Structure



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
A1	XXDWMM-12.5-65-8T-CBRS	16.2	11.4	146.5	1	a	Front	30	0	Added	
A2	MX06FRO660-03	71.3	15.4	96.5	2	a	Front	42	0	Added	
A2	MX06FRO660-03	71.3	15.4	53.75	3	a	Front	42	0	Added	
R4	MT6407-77A	35.1	16.1	3.75	4	a	Front	36	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
A1	XXDWMM-12.5-65-8T-CBRS	16.2	11.4	146.5	1	a	Front	30	0	Added	
A3	QS6656-5D	72	12	96.5	2	a	Front	42	0	Added	
A3	QS6656-5D	72	12	53.75	3	a	Front	42	0	Added	
R4	MT6407-77A	35.1	16.1	3.75	4	a	Front	36	0	Added	

Maser Consulting Connecticut

Subject	TIA-222-H Usage	
Site Information	Site ID:	468008-VZW / STAMFORD WEST 3 CT - ATC-Catoona Ln
	Site Name:	STAMFORD WEST 3 CT - ATC - Catoona Ln
	Carrier Name:	Verizon Wireless
	Address:	168 Catoonah Lane Stamford, Connecticut 06902, Fairfield County
	Latitude:	41.05283333°
	Longitude:	-73.56305555°
Structure Information	Tower Type:	Self Support
	Mount Type:	12.50-Ft Sector Frame

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

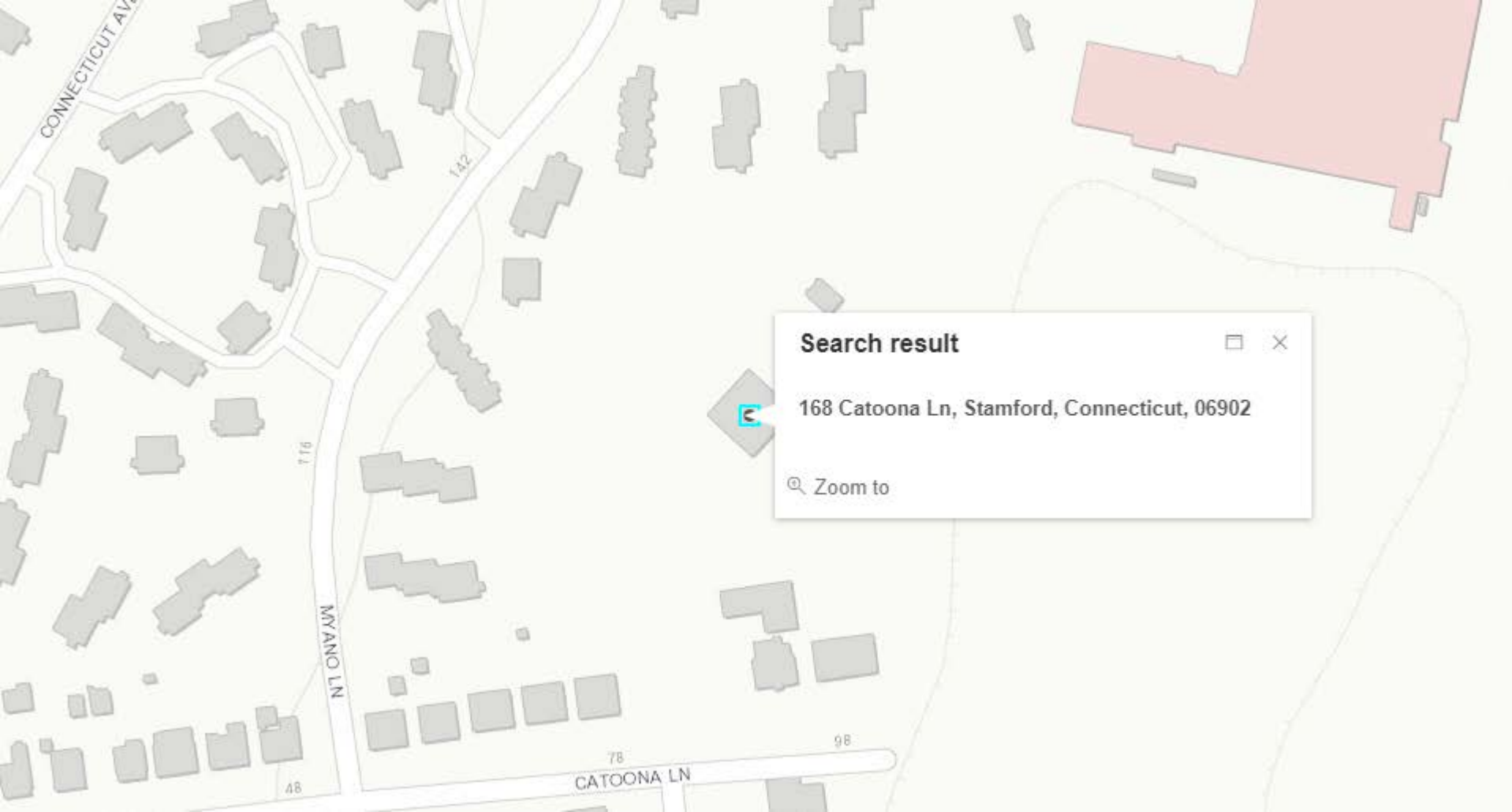
Site Name: ***STAMFORD WEST 3 CT***
Cumulative Power Density

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	582	2327	92	0.0099	0.5007	1.98%
VZW Cellular	874	4	660	2642	92	0.0112	0.5827	1.93%
VZW PCS	1980	4	1994	7977	92	0.0339	1.0000	3.39%
VZW AWS	2120	4	2398	9591	92	0.0408	1.0000	4.08%
VZW CBRS	3625	4	11	42	92	0.0002	1.0000	0.02%
VZW CBAND	3730.08	4	6531	26125	92	0.1110	1.0000	11.10%
Total Percentage of Maximum Permissible Exposure								22.48%

*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.


CONNECTICUT AV
142
116
MYANO LN
78
98
48
CATOONA LN
Search result
168 Catoona Ln, Stamford, Connecticut, 06902
Zoom to

Property Location 168 CATOONA LANE | Map ID 000/ 0370/ / / | Bldg Name | State Use 300C
Vision ID 116 | Account # 000-0370 | Bldg # 1 | Sec # 1 of 1 | Card # 1 of 2 | 4/14/2021 2:41:12 PM

CURRENT OWNER

AMERICAN TOWERS INC

PO BOX 723597

ATLANTA GA 31139

TOPO	UTILITIES	STRT / ROAD	LOCATION
	3 Public Sewer	3 Unpaved	
	1 All Public	1 Paved	
	4 Gas		

SUPPLEMENTAL DATA

Alt Prcl ID	119 283 A	DSSD	
Survey1	8543	Agent Nam	
Survey2		Roll	1
Census Tr	214	Common	AMERICAN TEL-
Census Bl	5004	Neighborh	WST SD:
Sewer Acct			
GIS ID	N 016 1344	Assoc Pid#	

CURRENT ASSESSMENT

Description	Code	Appraised	Assessed
IND LAND	3-1	3,891,600	2,724,120
IND BLDG	3-2	243,650	170,560
IND OBY	3-3	178,910	125,240
Total		4,314,160	3,019,920

6135

STAMFORD, CT

VISION

RECORD OF OWNERSHIP

	BK-VOL/PAGE		SALE DATE	Q/U	V/I	SALE PRICE	VC
AMERICAN TOWERS INC	5456	0339	02-17-2000	U	I	1,040,050	
AMERICAN T & T CO	1128	0268	03-15-1968	U	I	0	25

PREVIOUS ASSESSMENTS (HISTORY)

Year	Code	Assessed	Year	Code	Assessed	Year	Code	Assessed
2020	3-1	2,724,120	2020	3-1	2,724,120	2019	3-1	2,724,120
	3-2	170,560		3-2	170,560		3-2	170,560
	3-3	125,240		3-3	125,240		3-3	125,240
	Total	3019920		Total	3019920		Total	3019920

EXEMPTIONS

Year	Code	Description	Amount
		Total	0.00

OTHER ASSESSMENTS

Code	Description	Number	Amount	Comm Int

This signature acknowledges a visit by a Data Collector or Assessor

ASSESSING NEIGHBORHOOD

Nbhd	Nbhd Name	B	Tracing	Batch
0300				

NOTES

AMERICAN TOWERS SITE - STAMFORD

SITE #88018

877-282-7483

APPRAISED VALUE SUMMARY

Appraised Bldg. Value (Card)	243,650
Appraised Xf (B) Value (Bldg)	0
Appraised Ob (B) Value (Bldg)	178,910
Appraised Land Value (Bldg)	3,891,600
Special Land Value	0
Total Appraised Parcel Value	4,314,160
Valuation Method	C
Total Appraised Parcel Value	4,314,160

BUILDING PERMIT RECORD

Permit Id	Issue Date	Type	Description	Amount	Insp Date	% Comp	Date Comp	Comments
B-20-1096	09-25-2020	NV	No Value	0		0		AT&T WIRELESS PROPOSE
B-19-119	03-05-2019	NV	No Value			0		REMOVE 3 RADIOS & REPL
B-18-1991	01-18-2019	NV	No Value			0		UPGRADE & REPLACE EQUI
B-17-995	06-12-2017	NV	No Value			0		
B-17-263	03-09-2017	NV	No Value			0		CELL TOWER UPGRADES
B-16-1359	08-26-2016	AI	Attached Impr		05-01-2017	100	04-27-2017	C0# OPP-16-1359

VISIT / CHANGE HISTORY

Date	Id	Type	Is	Cd	Purpost/Result
08-02-2017	RGB			15	Permit (measure & list)
05-01-2017	RGB			17	Permit (C.O.)
03-16-2015	ROB			18	Board of Assessment Appe
05-07-2012	TH			00	Measur+Listed
02-15-2007	RGB			20	Informal Hearing (C)
07-02-2004	RGB			24	Court Stipulation
04-30-2004	RGB			19	Board of Assessment Appe

LAND LINE VALUATION SECTION

B	Use Code	Description	Zone	Distri	District Desc.	Land Units		Unit Price	I. Factor	Site Index	Cond.	Nbhd.	Nhbd Adj	Notes	Location Adjustment		Adj Unit Pric	Land Value
1	300C	Industrial MDL-9	MZN	1		158,776	SF	22.28	1.10000	C	1.00	0300	1.000			0	24.51	3,891,600

Total Card Land Units 3.645 AC | Parcel Total Land Area: 3.6450 | Total Land Value 3,891,600

Property Location 168 CATOONA LANE | Map ID 000/ 0370/ / / | Bldg Name | State Use 300C

Vision ID 116 | Account # 000-0370 | Bldg # 1 | Sec # 1 of 1 | Card # 1 of 2 | 4/14/2021 2:41:14 PM

CONSTRUCTION DETAIL

Element	Cd	Description
Style:	66	Telephone Bldg
Model	94	Comm/Ind
Grade	04	C
Stories:	1	
Occupancy	1.00	
Exterior Wall 1	24	Reinforc Concr
Exterior Wall 2		
Roof Structure	01	Flat
Roof Cover	04	T&G/Rubber
Interior Wall 1	01	Minimum
Interior Wall 2		
Interior Floor 1	03	Concrete Slab
Interior Floor 2		
Heating Fuel	02	Gas/LP
Heating Type	04	Hot Air-no Duc
AC Type	03	Central
Bldg Use	300C	Industrial MDL-94
Total Rooms		
Total Bedrms	00	
Total Baths	0	
Heat/AC	01	Heat/AC Pkgs
Frame Type	03	Masonry
Baths/Plumbing	00	None
Ceiling/Wall	06	Ceil & Wall
Rooms/Prtns	02	Average
Wall Height	15.00	
% Comn Wall		
1st Floor Use:	300C	

CONSTRUCTION DETAIL (CONTINUED)

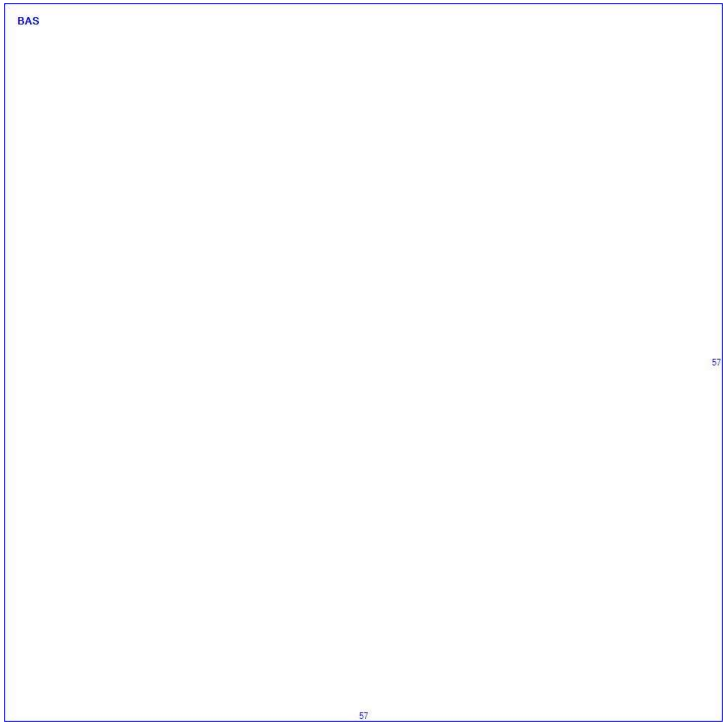
Element	Cd	Description

MIXED USE

Code	Description	Percentage
300C	Industrial MDL-94	100
		0
		0

COST / MARKET VALUATION

RCN	263,900
Year Built	1968
Effective Year Built	
Depreciation Code	A
Remodel Rating	
Year Remodeled	
Depreciation %	23
Functional Obsol	
External Obsol	
Trend Factor	1
Condition	
Condition %	
Percent Good	77
RCNLD	203,200
Dep % Ovr	
Dep Ovr Comment	
Misc Imp Ovr	
Misc Imp Ovr Comment	
Cost to Cure Ovr	
Cost to Cure Ovr Comment	



OB - OUTBUILDING & YARD ITEMS(L) / XF - BUILDING EXTRA FEATURES(B)

Code	Description	L/B	Units	Unit Price	Yr Blt	Cond. Cd	% Good	Grade	Grade Adj	Appr. Value
AP1	Fence Chn Lk	L	2,400	11.50	1968	A	75	C	1.00	20,700
LP4	Pavng Asphlt	L	3,880	1.60	1968	A	75	C	1.00	4,660
CEL1	Cell Tower	L	1	195000.0	2012	A	75		0.00	146,250
CSHD	Cell Equipment	L	240	32.00	2012	E	95	C	1.00	7,300

BUILDING SUB-AREA SUMMARY SECTION

Code	Description	Living Area	Floor Area	Eff Area	Unit Cost	Undeprec Value
BAS	First Floor	3,249	3,249		81.23	263,900
	Ttl Gross Liv / Lease Area	3,249	3,249			263,900

Property Location 168 CATOONA LANE | Map ID 000/ 0370/ / / | Bldg Name | State Use 300C
Vision ID 116 | Account # 000-0370 | Bldg # 2 | Sec # 1 of 1 | Card # 2 of 2 | 4/14/2021 2:41:15 PM

CURRENT OWNER

AMERICAN TOWERS INC

PO BOX 723597

ATLANTA GA 31139

TOPO	UTILITIES	STRT / ROAD	LOCATION
	3 Public Sewer	3 Unpaved	
	1 All Public	1 Paved	
	4 Gas		

SUPPLEMENTAL DATA

Alt Prcl ID	119 283 A	DSSD	
Survey1	8543	Agent Nam	
Survey2		Roll	1
Census Tr	214	Common	AMERICAN TEL-
Census Bl	5004	Neighborh	WST SD:
Sewer Acct			
GIS ID	N 016 1344	Assoc Pid#	

CURRENT ASSESSMENT

Description	Code	Appraised	Assessed
IND LAND	3-1	3,891,600	2,724,120
IND BLDG	3-2	243,650	170,560
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Total		4,314,160	3,019,920

6135

STAMFORD, CT

VISION

RECORD OF OWNERSHIP

RECORD OF OWNERSHIP	BK-VOL/PAGE		SALE DATE	Q/U	V/I	SALE PRICE	VC
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AMERICAN T & T CO	1128	0268	03-15-1968	U	I	0	25

PREVIOUS ASSESSMENTS (HISTORY)

Year	Code	Assessed	Year	Code	Assessed	Year	Code	Assessed
2020	3-1	2,724,120	2020	3-1	2,724,120	2019	3-1	2,724,120
	3-2	170,560		3-2	170,560		3-2	170,560
	3-3	125,240		3-3	125,240		3-3	125,240
	Total	3019920		Total	3019920		Total	3019920

EXEMPTIONS

Year	Code	Description	Amount
		Total	0.00

OTHER ASSESSMENTS

Code	Description	Number	Amount	Comm Int

This signature acknowledges a visit by a Data Collector or Assessor

ASSESSING NEIGHBORHOOD

Nbhd	Nbhd Name	B	Tracing	Batch
0300				

NOTES

APPRAISED VALUE SUMMARY

Appraised Bldg. Value (Card)	243,650
Appraised Xf (B) Value (Bldg)	0
Appraised Ob (B) Value (Bldg)	178,910
Appraised Land Value (Bldg)	3,891,600
Special Land Value	0
Total Appraised Parcel Value	4,314,160
Valuation Method	C
Total Appraised Parcel Value	4,314,160

BUILDING PERMIT RECORD

Permit Id	Issue Date	Type	Description	Amount	Insp Date	% Comp	Date Comp	Comments

VISIT / CHANGE HISTORY

Date	Id	Type	Is	Cd	Purpost/Result

LAND LINE VALUATION SECTION

B	Use Code	Description	Zone	Distri	District Desc.	Land Units		Unit Price	I. Factor	Site Index	Cond.	Nbhd.	Nhbd Adj	Notes	Location Adjustment		Adj Unit Pric	Land Value
2	300C	Industrial MDL-9	MZN	1		0	SF	0	0.00000	0	1.00	0300	1.000	0		0	0	0

Total Card Land Units 0.000 AC | Parcel Total Land Area: 3.6450 | Total Land Value 3,891,600

Property Location 168 CATOONA LANE | Map ID 000/ 0370/ / / | Bldg Name | State Use 300C
Vision ID 116 | Account # 000-0370 | Bldg # 2 | Sec # 1 of 1 | Card # 2 of 2 | 4/14/2021 2:41:16 PM

CONSTRUCTION DETAIL

Element	Cd	Description
Style:	66	Telephone Bldg
Model	94	Comm/Ind
Grade	04	C
Stories:	1	
Occupancy	1.00	
Exterior Wall 1	24	Reinforc Concr
Exterior Wall 2		
Roof Structure	01	Flat
Roof Cover	04	T&G/Rubber
Interior Wall 1	01	Minimum
Interior Wall 2		
Interior Floor 1	03	Concrete Slab
Interior Floor 2		
Heating Fuel	02	Gas/LP
Heating Type	04	Hot Air-no Duc
AC Type	03	Central
Bldg Use	300C	Industrial MDL-94
Total Rooms		
Total Bedrms	00	
Total Baths	0	
Heat/AC	01	Heat/AC Pkgs
Frame Type	06	FireProofSteel
Baths/Plumbing	00	None
Ceiling/Wall	06	Ceil & Wall
Rooms/Prtns	02	Average
Wall Height	10.00	
% Comn Wall		
1st Floor Use:	300C	

CONSTRUCTION DETAIL (CONTINUED)

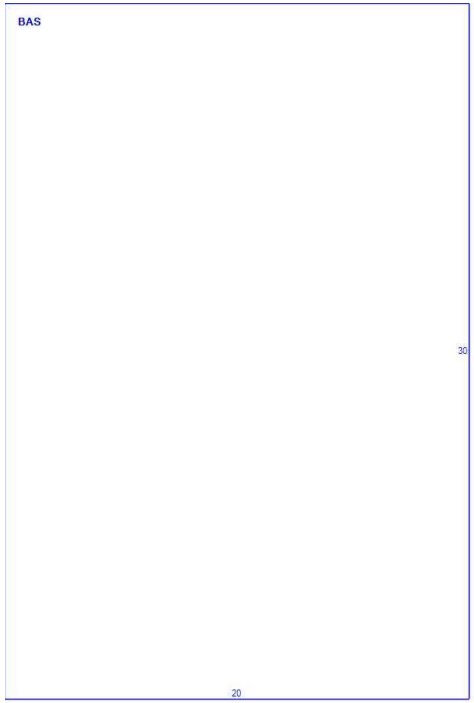
Element	Cd	Description

MIXED USE

Code	Description	Percentage
300C	Industrial MDL-94	100
		0
		0

COST / MARKET VALUATION

RCN	48,735
Year Built	1989
Effective Year Built	
Depreciation Code	A
Remodel Rating	
Year Remodeled	
Depreciation %	17
Functional Obsol	
External Obsol	
Trend Factor	1
Condition	
Condition %	
Percent Good	83
RCNLD	40,450
Dep % Ovr	
Dep Ovr Comment	
Misc Imp Ovr	
Misc Imp Ovr Comment	
Cost to Cure Ovr	
Cost to Cure Ovr Comment	

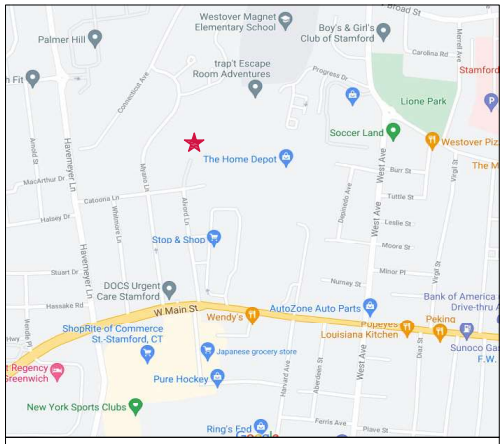


OB - OUTBUILDING & YARD ITEMS(L) / XF - BUILDING EXTRA FEATURES(B)

Code	Description	L/B	Units	Unit Price	Yr Blt	Cond. Cd	% Good	Grade	Grade Adj	Appr. Value

BUILDING SUB-AREA SUMMARY SECTION

Code	Description	Living Area	Floor Area	Eff Area	Unit Cost	Undeprec Value
BAS	First Floor	600	600		81.23	48,735
	Ttl Gross Liv / Lease Area	600	600			48,735



VICINITY MAP

AMERICAN TOWER®

ATC SITE NAME: STAMFORD (KATOONA)
ATC SITE NUMBER: 88018
VERIZON SITE NAME: STAMFORD WEST 3 CT - ATC - CATOONA LN
VERIZON SITE NUMBER:468008
SITE ADDRESS: 168 CATOONA LANE
STAMFORD, CT 06902-4573

LOCATION MAP

VERIZON
ANTENNA AMENDMENT DRAWINGS

COMPLIANCE CODE

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

1. 2018 CONNECTICUT STATE BUILDING CODE-AMENDMENTS TO IBC 2015
2. INTERNATIONAL BUILDING CODE 2015, INTERNATIONAL CODE COUNCIL
3. TIA-222-G-4, STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS
4. ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS
5. STEEL CONSTRUCTION MANUAL 14TH EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION
6. CITY/COUNTY ORDINANCES

UTILITY COMPANIES

POWER COMPANY: EVERSOURCE
PHONE: (877) 659-6326

TELEPHONE COMPANY: FRONTIER COMMUNICATIONS
PHONE: (877) 641-3250

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

PROJECT SUMMARY

SITE ADDRESS:

168 CATOONA LANE

STAMFORD, CT 06902-4573

COUNTY: FAIRFIELD

GEOGRAPHIC COORDINATES:

LATITUDE: 41.05282

LONGITUDE: -73.56304

GROUND ELEVATION: 50' AMSL

PROJECT TEAM

TOWER OWNER:

AMERICAN TOWER
10 PRESIDENTIAL WAY
WOBURN, MA 01801

APPLICANT:

VERIZON WIRELESS
118 FLANDERS ROAD
WESTBOROUGH, MA 01581

ENGINEER:

DEWBERRY ENGINEERS, INC.
99 SUMMER STREET
SUITE 700
BOSTON, MA 02110

PROPERTY OWNER:

N/A
168 CATOONA LANE
STAMFORD, CT 06902

PROJECT DESCRIPTION

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

REMOVE (12) ANTENNA(s) AND (9) RRU(s)

INSTALL (12) ANTENNA(s) AND (9) RRU(s)

EXISTING (3) OVP BOX(s) AND (3) 6X12 1-5/8" HYBRID 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

COMING FROM NORTH I-95 TAKE EXIT 6. TURN RIGHT ONTO WEST AVE. TURN LEFT AT FIRST LIGHT ONTO W. MAIN ST. TURN RIGHT AT FIRST LIGHT AND FOLLOW ROAD TO END.

SHEET INDEX

SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
G-001	TITLE SHEET	0	07/29/21	WG
G-002	GENERAL NOTES	0	07/29/21	WG
C-101	DETAILED SITE PLAN	0	07/29/21	WG
C-201	TOWER ELEVATION	0	07/29/21	WG
C-401	ANTENNA INFORMATION & SCHEDULE	0	07/29/21	WG
C-501	CONSTRUCTION DETAILS	0	07/29/21	WG
E-501	GROUNDING DETAILS	0	07/29/21	WG
R-601	SUPPLEMENTAL			
R-602	SUPPLEMENTAL			
	MOUNT MODIFICATION SUPPLEMENTAL (1-9 PAGES)			

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BOSTON, MA 02110
PHONE: 617.531.0801
FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
A	PRELIM	ZP	06/23/21
B	FINAL	WG	07/29/21
C			
D			
E			

ATC SITE NUMBER:
88018

ATC SITE NAME:
STAMFORD (KATOONA)

VERIZON SITE NAME:
STAMFORD WEST 3 CT - ATC - CATOONA LN

SITE ADDRESS:
168 CATOONA LANE
STAMFORD, CT 06902-4573

SEAL:

verizon

DATE DRAWN:	06/23/21
ATC JOB NO:	13685619
CUSTOMER ID:	STAMFORD WEST 3 CT - ATC - CATOONA LN
CUSTOMER #:	468008

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

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

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

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

AMERICAN TOWER®

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

REV.	DESCRIPTION	BY	DATE
A	PRELIM	ZP	06/23/21
B	FINAL	WG	07/29/21
C			
D			
E			

ATC SITE NUMBER:
88018

ATC SITE NAME:
STAMFORD (KATOONA)

VERIZON SITE NAME:
STAMFORD WEST 3 CT - ATC - CATOONA LN

SITE ADDRESS:
168 CATOONA LANE
STAMFORD, CT 06902-4573

SEAL:

verizon

DATE DRAWN:	06/23/21
ATC JOB NO:	13685619
CUSTOMER ID:	STAMFORD WEST 3 CT - ATC - CATOONA LN
CUSTOMER #:	468008

GENERAL NOTES

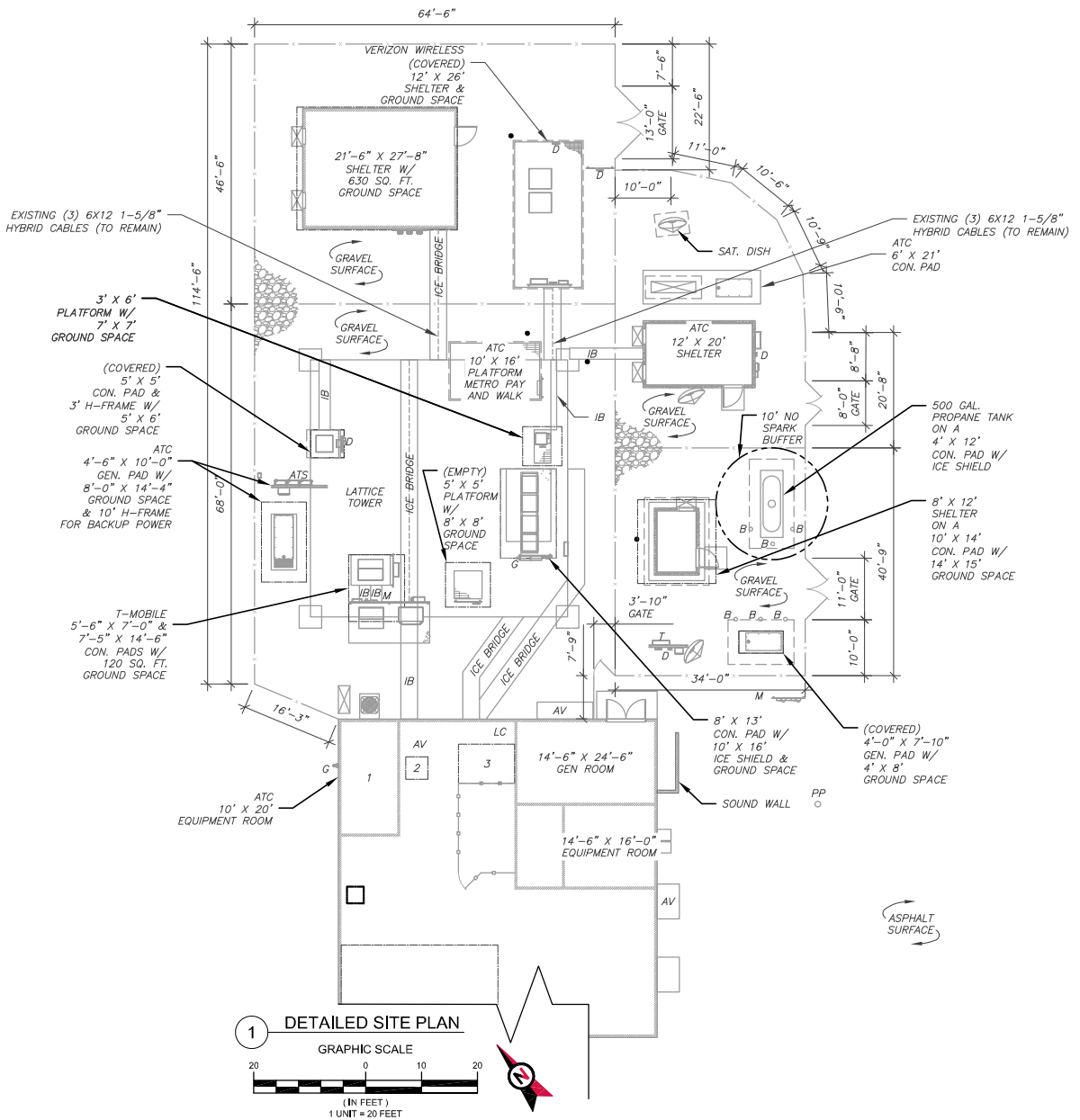
SHEET NUMBER:	REVISION:
G-002	0

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.



1 DETAILED SITE PLAN

GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 UNIT = 20 FEET

LEGEND

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

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verizon

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ATC JOB NO:	13685619
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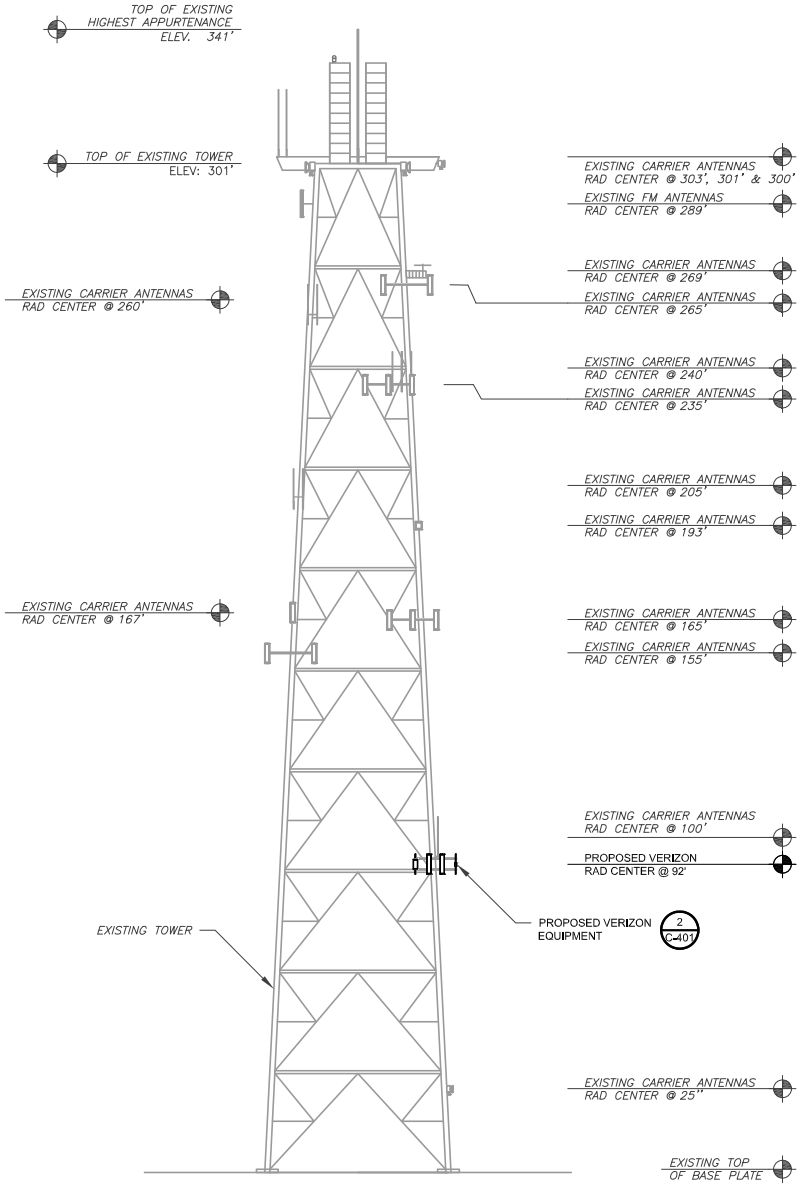
CUSTOMER #:	468008

DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0



1 TOWER ELEVATION
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY MASTER CONSULTING, DATED 06/11/21, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION DETAILED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

TOWER NOTE:
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
2. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
3. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)

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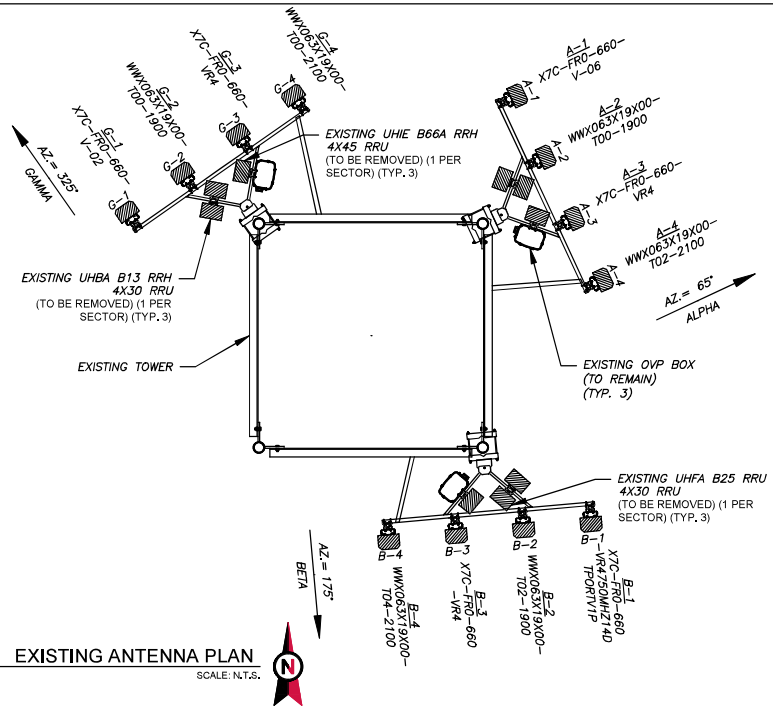
CUSTOMER ID:	STAMFORD WEST 3 CT - ATC - CATOONA LN
CUSTOMER #:	468008

TOWER ELEVATION

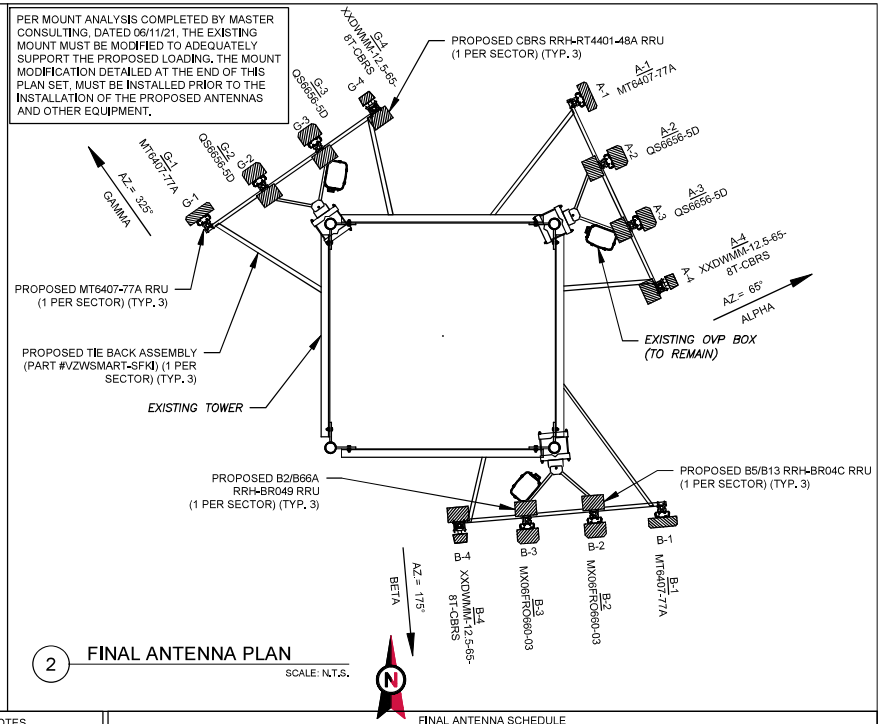
SHEET NUMBER:	REVISION:
C-201	0



1 EXISTING ANTENNA PLAN

SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY MASTER CONSULTING, DATED 06/11/21, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION DETAILED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.



2 FINAL ANTENNA PLAN

SCALE: N.T.S.

EXISTING ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY						NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS		ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	92'	65°	A1	X7C-FR0-660-V-06	700	0/6	RMV		UHBA B13 RRH 4X30 RRU	RMV
			A2	WWX063X19X00-T00-1900	1900	0/1	RMV		–	RMV
			A3	X7C-FR0-660-VR4	–	–	RMV		UHFA B25 RRH 4X30 RRU	RMV
			A4	WWX063X19X00-T02-2100	2100	0/2	RMV		UHIE B66A RRH 4X45 RRU	RMV
BETA	92'	175°	B1	X7C-FR0-660-VR4750MHZ14DTPORTV1P	700	0/14	RMV		UHBA B13 RRH 4X30 RRU	RMV
			B2	WWX063X19X00-T02-1900	1900	0/2	RMV		–	RMV
			B3	X7C-FR0-660-VR4	–	–	RMV		UHFA B25 RRH 4X30 RRU	RMV
			B4	WWX063X19X00-T04-2100	2100	0/5	RMV		UHIE B66A RRH 4X45 RRU	RMV
GAMMA	92'	325°	G1	X7C-FR0-660-V-02	700	0/2	RMV		UHBA B13 RRH 4X30 RRU	RMV
			G2	WWX063X19X00-T00-1900	1900	0/0	RMV		–	RMV
			G3	X7C-FR0-660-VR4	–	–	RMV		UHFA B25 RRH 4X30 RRU	RMV
			G4	WWX063X19X00-T00-2100	2100	0/0	RMV		UHIE B66A RRH 4X45 RRU	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	92'	65°	A1	MT6407-77A	L-SUB6	0/6	ADD		-	-
			A2	QS6656-5D	700/850/1900/AWS	0/5.5,0.2	ADD		B5/B13 RRH-BR04C	ADD
			A3	QS6656-5D	700/850/1900/AWS	0/5.5,0.2	ADD		B2/B66A RRH-BR049	ADD
			A4	XXDWMM-12.5-65-8T-CBRS	CBRS	0/8	ADD		CBRS RRH-RT4401-48A	ADD
BETA	92'	175°	B1	MT6407-77A	L-SUB6	0/6	ADD		-	-
			B2	MX06FRO660-03	700/850/1900/AWS	0/12,12,2,2,4	ADD		B5/B13 RRH-BR04C	ADD
			B3	MX06FRO660-03	700/850/1900/AWS	0/12,12,2,2,4	ADD		B2/B66A RRH-BR049	ADD
			B4	XXDWMM-12.5-65-8T-CBRS	CBRS	0/8	ADD		CBRS RRH-RT4401-48A	ADD
GAMMA	92'	325°	G1	MT6407-77A	L-SUB6	0/6	ADD		-	-
			G2	QS6656-5D	700/850/1900/AWS	0/2.2,0.0	ADD		B5/B13 RRH-BR04C	ADD
			G3	QS6656-5D	700/850/1900/AWS	0/2.2,0.0	ADD		B2/B66A RRH-BR049	ADD
			G4	XXDWMM-12.5-65-8T-CBRS	CBRS	0/8	ADD		CBRS RRH-RT4401-48A	ADD

3 EQUIPMENT SCHEDULES

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(3) DB-T1-6Z-8AB-0Z	RMN	–	(3) 6X12 1-5/8"	RMN

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(3) DB-T1-6Z-8AB-0Z	RMN	–	(3) 6X12 1-5/8"	RMN

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REV.	DESCRIPTION	BY	DATE
A	PRELIM	ZP	06/23/21
0	FINAL	WG	07/29/21

ATC SITE NUMBER:
88018

ATC SITE NAME:
STAMFORD (KATOONA)

VERIZON SITE NAME:
STAMFORD WEST 3 CT - ATC - CATOONA LN

SITE ADDRESS:
168 CATOONA LANE
STAMFORD, CT 06902-4573

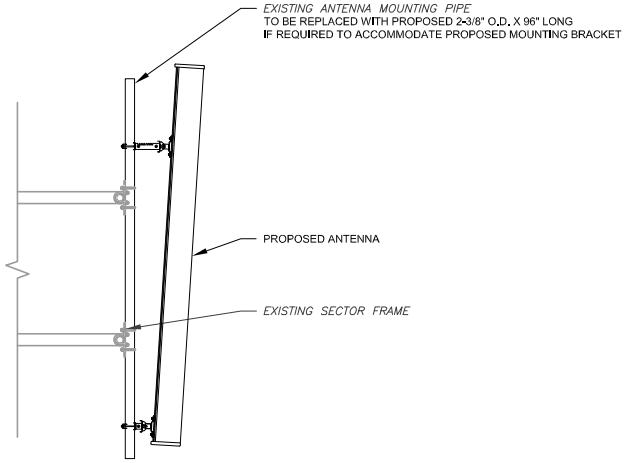
SEAL:

verizon

DATE DRAWN:	06/23/21
ATC JOB NO:	13685619
CUSTOMER ID:	STAMFORD WEST 3 CT - ATC - CATOONA LN
CUSTOMER #:	468008

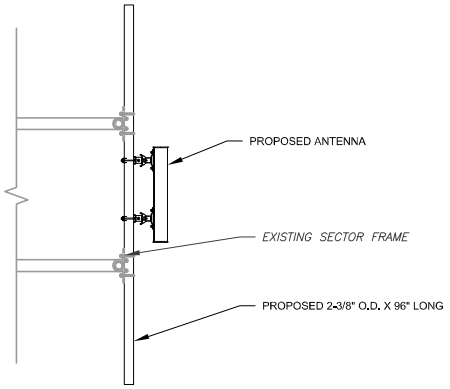
ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:	REVISION:
C-401	0



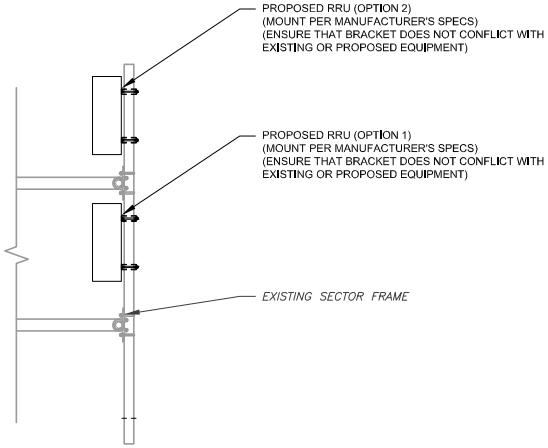
1 PROPOSED ANTENNA MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.



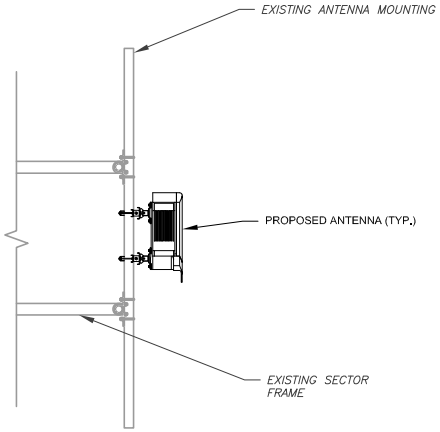
2 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.



3 PROPOSED RRU MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.



4 PROPOSED XXDWMM ANTENNA MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.

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REV.	DESCRIPTION	BY	DATE
A	PRELIM	ZP	06/23/21
0	FINAL	WG	07/29/21

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SEAL:

verizon

DATE DRAWN:	06/23/21
ATC JOB NO:	13685619
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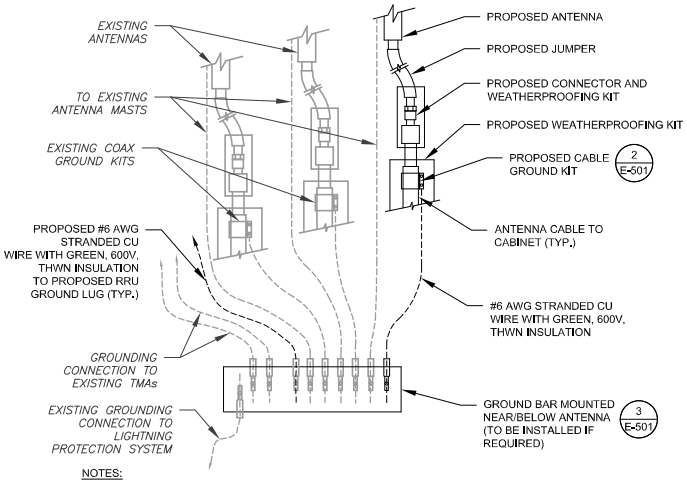
CUSTOMER #:	468008

CONSTRUCTION DETAILS

SHEET NUMBER:	REVISION:
C-501	0

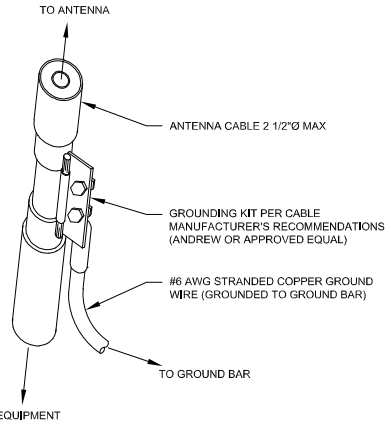


NOTES:

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.

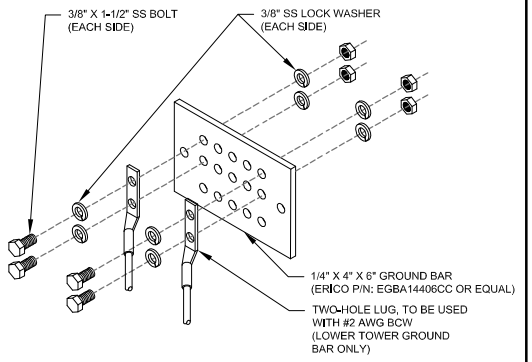


GROUND KIT NOTES:

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.

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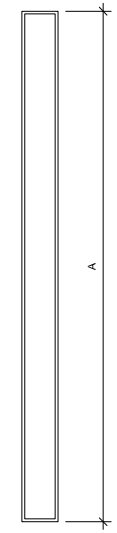
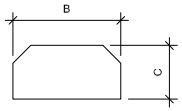
GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0



FRONT VIEW

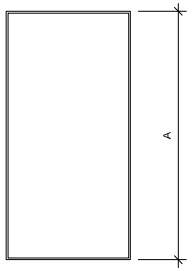


TOP VIEW

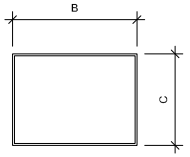
1 ANTENNA SPECIFICATIONS

FOR ILLUSTRATIVE PURPOSES ONLY - NOT TO SCALE

ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
MT6407-77A	35.1"	16.1"	5.5"	81.6
MX06FR0660-03	71.3"	15.4"	10.7"	60.0
QS6656-5D	72	12	9.6	88
XXDWMM-12.5-65-8T-CBRS	12.3"	8.7"	1.4"	4.4



FRONT VIEW



TOP VIEW

2 RRU SPECIFICATIONS

FOR ILLUSTRATIVE PURPOSES ONLY - NOT TO SCALE

RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
B2/B66A RRH-BR049	15.0"	15.0"	10.0"	84.4
B5/B13 RRH-BR04C	15.0"	15.0"	8.1"	70.3
CBRS RRH-RT4401-48A	13.9"	8.6"	4.2"	18.6

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CUSTOMER #:	468008

SUPPLEMENTAL

SHEET NUMBER:
R-601

Maser Consulting Connecticut
2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
856.797.0412
Peter.Albano@ColliersEngineering.com

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10069537
Maser Consulting Connecticut Project #: 21777443A

June 11, 2021

Site Information	*Site ID:*	*468008-VZW / STAMFORD WEST 3 CT - ATC-Catoona Ln*
	Site Name:	*STAMFORD WEST 3 CT - ATC - Catoona Ln*
	Carrier Name:	*Verizon Wireless*
	Address:	*168 Catoonah Lane Stamford, Connecticut 06902, Fairfield County*
	Latitude:	*41.05283333°*
	Longitude:	*-73.56305555°*
Structure Information	*Tower Type:*	*91-Ft Self Support*
	Mount Type:	*12.50-Ft Sector Frame*

FUZE ID # 16045710

Analysis Results

Sector Frame : **64.9% Pass**

******Contractor PMI Requirements:***
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
Contractor - Please Review Specific Site PMI Requirements Upon Award
Requirements also Noted on Mount Modification Drawings
Requirements may also be Noted on A & E drawings

Report Prepared By: Frank Centone

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

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

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

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

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

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontal	49.0%	Pass
Mount Pipe	45.2%	Pass
Standoff Plate	63.3%	Pass
Standoff Horizontal	64.9%	Pass
MOD Tieback	16.7%	Pass
Standoff Vertical	5.5%	Pass
Tieback	5.8%	Pass
Connection Check	32.4%	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**64.9%**

Recommendation:

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

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

Attachments:

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

1 MOUNT ANALYSIS

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

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SUPPLEMENTAL

SHEET NUMBER:
R-602