



Crown Castle
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065

February 15, 2022

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

**RE: Notice of Exempt Modification for Verizon Wireless: 468192
Crown Site ID#842859
371 Terryville Avenue, Bristol, CT 06010
Latitude: 41° 40' 47.71" / Longitude: -72° 57' 45.18"**

Dear Ms. Bachman:

Verizon currently maintains twelve (12) antennas at the 140-foot mount level on the existing 168-foot monopole tower, located at 371 Terryville Avenue, Bristol, CT. The property is owned by Bristol Hospital Inc. The tower is owned by Crown Castle. Verizon now intends to replace nine (9) antennas and ancillary equipment at the 140-ft level. This modification/proposal includes hardware that is both 4G (LTE) and 5G capable through remote software configuration and either or both services may be turned on or off at various times.

Panned Modification:

Tower:

Installed New:

- (3) Comscope- NHH-65B-R2B Antenna
- (3) Commscope NHHSS-65B-R2BTO Antenna
- (3) Samsung MT6407-77A Antenna
- (3) Samsung-CBRS RT4401-48A Radios

Remove:

- (6) Andrew- SBNHH-1D65B – Antennas
- (3) Antel- HBXX- 6517DS Antennas
- (1) RFS/Celwave- DBTI-6Z-8AB-0Z Raycap

The facility was approved by the City of Bristol, CT Planning and Zoning on December 9, 2003.

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 Jeffrey Caggiano - Mayor, City of Bristol, Edward Spyros, ZEO, City of Bristol and Bristol Hospital Administration, Property Owner. Crown Castle is the tower owner.

Melanie A. Bachman

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1. The proposed modifications will not result in an increase in the height of the existing tower.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modification 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 replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication 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.

For the foregoing reasons, Verizon respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Jeffrey Barbadora.

Sincerely,



Jeffrey Barbadora
Site Acquisition Specialist
1800 W. Park Drive
Westborough, MA 01581
(781) 970-0053
Jeff.Barbadora@crowncastle.com

Melanie A. Bachman

Page 3

Attachments

cc:

Jeffrey Caggiano - Mayor
City of Bristol Mayors office
111 North Main Street, 3rd Floor
Bristol, CT 06010
860-584-6250

Edward Spyros, ZEO
City of Bristol
111 North Main Street, 2nd Floor
Bristol, CT 06010
860-584-6214

Bristol Hospital Administration
41 Brewster Rd.
Bristol, CT 06010

Crown Castle, Tower Owner.

Fee Received \$15.00

CT-833

17647



ZONING PERMIT
CITY OF BRISTOL ZONING COMMISSION

THIS IS TO CERTIFY that in accordance with Section XII.D of the Zoning Regulations, This Permit is hereby granted.

PROPERTY INFORMATION

Location: 371 Terryville Avenue
Zoning District: I, Property Use: Telecommunications

TYPE OF PERMIT

- New Construction
- Addition
- Accessory Structure
- Fence
- Deck
- Swimming Pool
- Home Business/Office
- Change of Use
- Other: see Below

SIGNS

- Classification: Permanent Temporary (30-day) Portable (1-Year)
- Type: Wall Freestanding A-Frame Sandwich Other: _____

DESCRIPTION OF ACTIVITY

Construct telecommunications facility, 171' high tower retaining walls & associated equipment per submitted plans

OTHER APPROVALS

Description: ct. Selective Council approval 4/3/02

APPLICANT INFORMATION

Applicant Name(s): Peter Maxwell
Business Name: UES Corp.

This permit is based upon the plan submitted. Falsification, by misrepresentation or omission, or failure to comply with the conditions of approval of this permit shall constitute a violation of the City of Bristol Zoning Regulations.

Approved by: [Signature] 12/9/03
Zoning Enforcement Officer Date Issued

371 TERRYVILLE AVE

Location 371 TERRYVILLE AVE

Mblu 61 / 67-1 / 1

Acct# 0136999

Owner BRISTOL HOSPITAL INC

Assessment \$363,370

Appraisal \$519,100

PID 2194

Building Count 2

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2017	\$280,000	\$239,100	\$519,100

Assessment			
Valuation Year	Improvements	Land	Total
2017	\$196,000	\$167,370	\$363,370

Owner of Record

Owner BRISTOL HOSPITAL INC
Co-Owner
Address 41 BREWSTER RD
BRISTOL, CT 06010

Sale Price \$400,000
Certificate 1
Book & Page 1564/0795
Sale Date 06/08/2004
Instrument 00

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
BRISTOL HOSPITAL INC	\$400,000	1	1564/0795	00	06/08/2004
LAVIERO REALTY LLC	\$0		1564/0792		06/08/2004
LAVIERO REALTY LLC	\$0		1352/0030		02/08/2001
LAVIERO MORRIS + RICHARD	\$0		1139/0447		09/23/1994
GTT CORP TRUSTEE OF OREGON	\$0		1103/0330		09/30/1993

Building Information

Building 1 : Section 1

Year Built: 1996

Building Photo

Living Area: 960
Replacement Cost: \$117,937
Building Percent Good: 91
Replacement Cost
Less Depreciation: \$107,300

Building Attributes	
Field	Description
Style	Office Bldg
Model	Comm/Ind
Grade	
Stories:	1
Occupancy	1.00
Exterior Wall 1	Vinyl Siding
Exterior Wall 2	
Roof Structure	Gable
Roof Cover	Asphalt Shingl
Interior Wall 1	Drywall/Sheetr
Interior Wall 2	
Interior Floor 1	Carpet
Interior Floor 2	
Heating Fuel	Electric
Heating Type	Electr Basebrd
AC Type	Central
Struct Class	
Bldg Use	Hospital 94
Bedrooms	
Full Baths	
Half Baths	
1st Floor Use:	
Heat/AC	Heat/AC Split
Frame Type	Wood Frame
Baths/Plumbing	Average
Ceiling/Wall	Ceil & Walls
Rooms/Prtns	Average
Wall Height	10.00
% Comn Wall	

Building 2 : Section 1

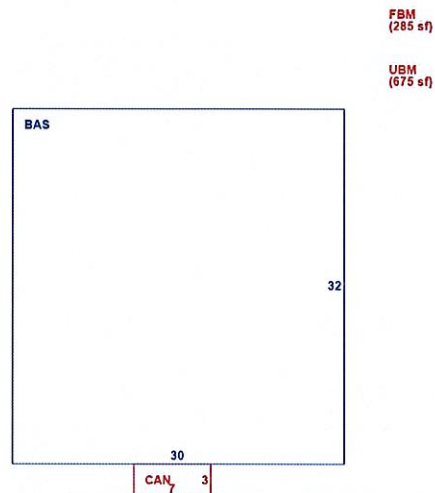
Year Built: 1996
Living Area: 3,900
Replacement Cost: \$185,406
Building Percent Good: 78
Replacement Cost
Less Depreciation: \$144,600



0136999 03/20/2016

(<http://images.vgsi.com/photos2/BristolCTPhotos/\00\03\34\29.JPG>)

Building Layout



(ParcelSketch.ashx?pid=2194&bid=2194)

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	960	960
CAN	Canopy	21	0
FBM	Basement, Finished	285	0
UBM	Basement, Unfinished	675	0
		1,941	960

Building Attributes : Bldg 2 of 2

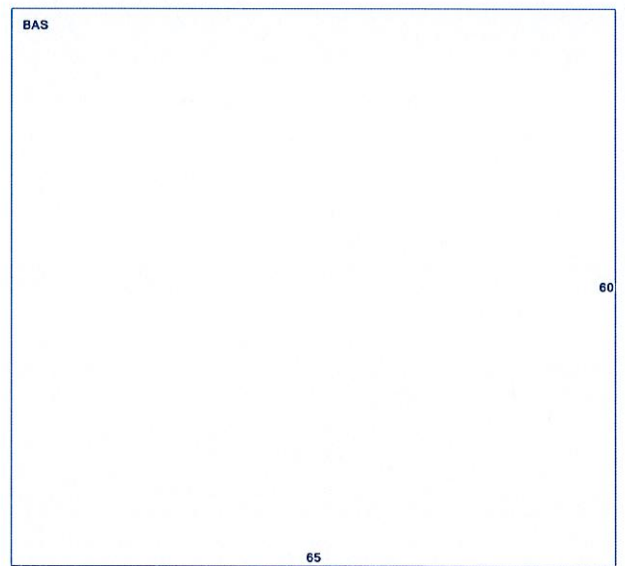
Field	Description
Style	Pre-Eng Garage
Model	Ind/Comm
Grade	
Stories:	1
Occupancy	1.00
Exterior Wall 1	Pre-finish Metl
Exterior Wall 2	
Roof Structure	Gable
Roof Cover	Metal/Tin
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Hot Air-no Duc
AC Type	None
Struct Class	
Bldg Use	Hospital 96
Bedrooms	
Full Baths	
Half Baths	
1st Floor Use:	
Heat/AC	None
Frame Type	Steel
Baths/Plumbing	Average
Ceiling/Wall	None
Rooms/Prtns	Average
Wall Height	18.00
% Conn Wall	

Building Photo



(<http://images.vgsi.com/photos2/BristolCTPhotos/\A00\02\98\62.jpg>)

Building Layout



(ParcelSketch.ashx?pid=2194&bid=40200)

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	3,900	3,900
		3,900	3,900

Extra Features

Extra Features				Legend
Code	Description	Size	Value	Bldg #
OHD	Overhead Door	2.00 Units	\$0	2
MEZ2	Mezzanine Fin.	600.00 S.F.	\$12,900	2

Land

Land Use

Land Line Valuation

Use Code 928
Description Hospital 94
Zone I
Neighborhood
Alt Land Appr No
Category

Size (Acres) 1.8
Frontage 412
Depth
Assessed Value \$167,370
Appraised Value \$239,100

Outbuildings

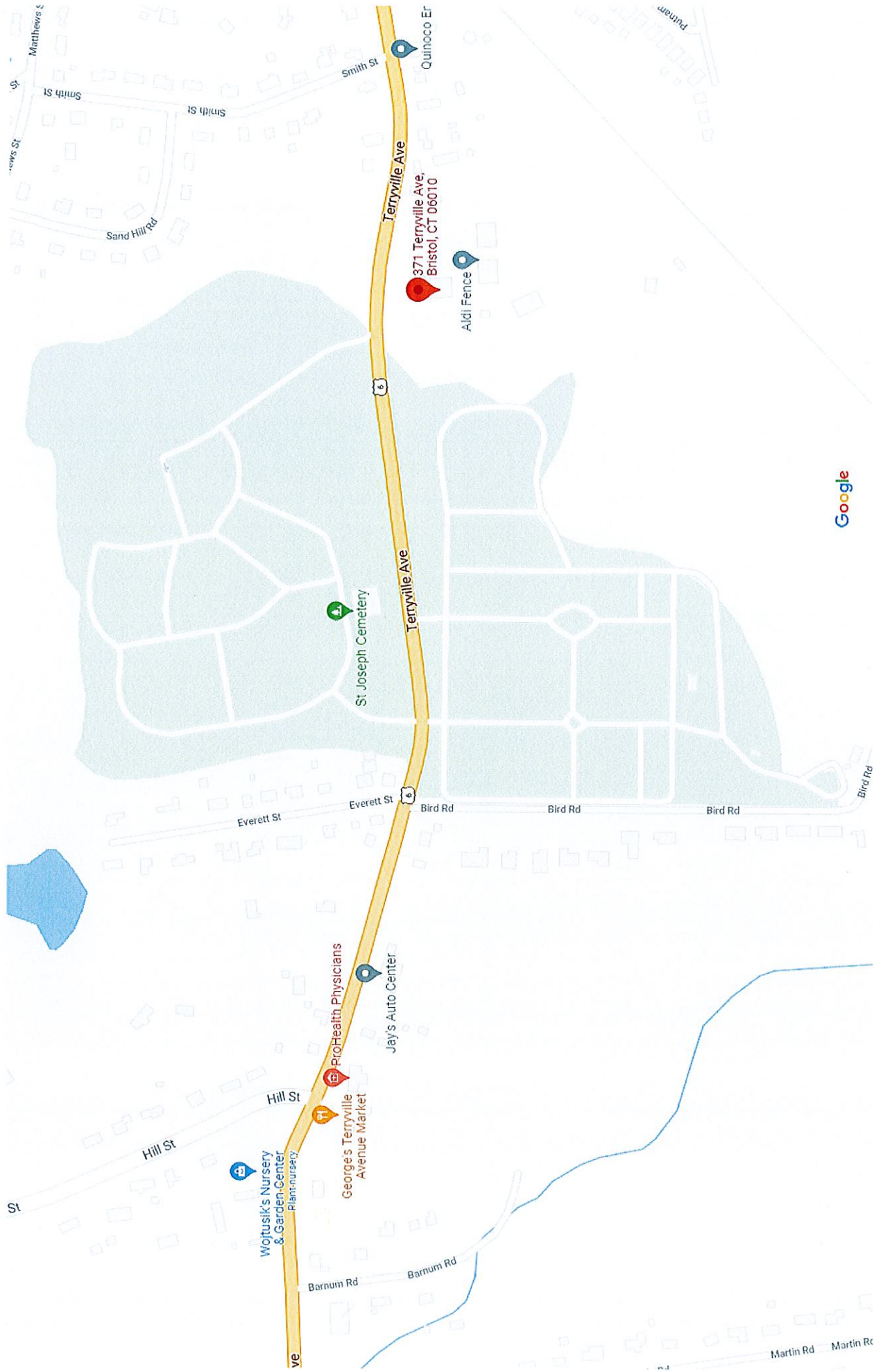
Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
PAV1	Paving Asph.			8285.00 S.F.	\$8,700	1
LT1	Light (1fixt)			2.00 UNITS	\$1,900	1
FN3	Fence 6'			470.00 L.F.	\$3,600	1
SHD1	Shed	MT	Metal	160.00 S.F.	\$1,000	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2021	\$280,000	\$239,100	\$519,100
2020	\$280,000	\$239,100	\$519,100
2019	\$280,000	\$239,100	\$519,100

Assessment			
Valuation Year	Improvements	Land	Total
2021	\$196,000	\$167,370	\$363,370
2020	\$196,000	\$167,370	\$363,370
2019	\$196,000	\$167,370	\$363,370

Google Maps 371 Terryville Ave



Map data ©2022 Google

200 ft

Barbadora, Jeff

From: TrackingUpdates@fedex.com
Sent: Wednesday, February 16, 2022 10:12 AM
To: Barbadora, Jeff
Subject: FedEx Shipment 776049282868: Your package has been delivered

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



Hi. Your package was
delivered Wed, 02/16/2022 at
10:02am.



Delivered to 41 BREWSTER RD, BRISTOL, CT 06010
Received by K.PERRI

[OBTAIN PROOF OF DELIVERY](#)

TRACKING NUMBER [776049282868](#)

FROM Jeff Barbadora
1800 W. Park Drive
WESTBOROUGH, MA, US, 01581

TO Bristol Hospital Administration
Property Owner
41 Brewster Street
BRISTOL, CT, US, 06010

REFERENCE 799001.7680

SHIPPER REFERENCE 799001.7680

SHIP DATE Tue 2/15/2022 05:26 PM

DELIVERED TO Shipping/Receiving

PACKAGING TYPE FedEx Pak

ORIGIN WESTBOROUGH, MA, US, 01581

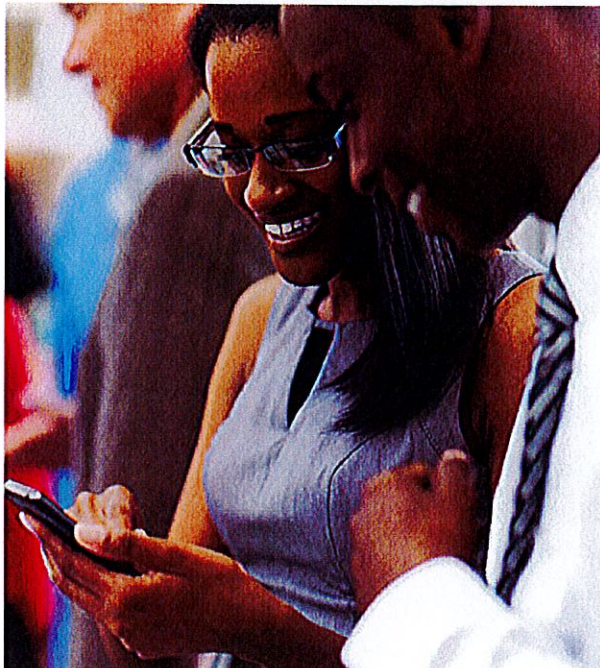
DESTINATION BRISTOL, CT, US, 06010

SPECIAL HANDLING Deliver Weekday

NUMBER OF PIECES 1

TOTAL SHIPMENT WEIGHT 1.00 LB

SERVICE TYPE FedEx Priority Overnight



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To: Barbadora, Jeff
Subject: FedEx Shipment 776049129419: Your package has been delivered

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Hi. Your package was
delivered Wed, 02/16/2022 at
10:20am.



Delivered to 111 N MAIN ST, BRISTOL, CT 06010
Received by M.MARY

[OBTAIN PROOF OF DELIVERY](#)

TRACKING NUMBER [776049129419](#)

FROM Jeff Barbadora
1800 W. Park Drive
WESTBOROUGH, MA, US, 01581

TO City of Bristol
Jeffrey Caggiano - Mayor
11 North Main Street
3rd Floor
BRISTOL, CT, US, 06010

REFERENCE 799001.7680

SHIPPER REFERENCE 799001.7680

SHIP DATE Tue 2/15/2022 05:26 PM

DELIVERED TO Receptionist/Front Desk

PACKAGING TYPE FedEx Pak

ORIGIN WESTBOROUGH, MA, US, 01581

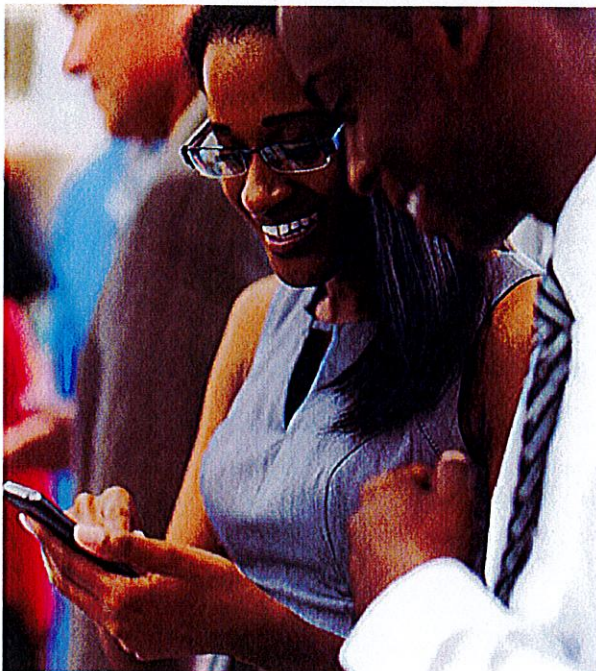
DESTINATION BRISTOL, CT, US, 06010

SPECIAL HANDLING Deliver Weekday

NUMBER OF PIECES 1

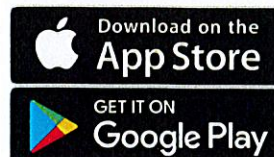
TOTAL SHIPMENT WEIGHT 1.00 LB

SERVICE TYPE FedEx Priority Overnight



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Barbadora, Jeff

From: TrackingUpdates@fedex.com
Sent: Wednesday, February 16, 2022 10:28 AM
To: Barbadora, Jeff
Subject: FedEx Shipment 776049170747: Your package has been delivered

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



Hi. Your package was
delivered Wed, 02/16/2022 at
10:20am.



Delivered to 111 N MAIN ST, BRISTOL, CT 06010
Received by M.MARY

[OBTAIN PROOF OF DELIVERY](#)

TRACKING NUMBER [776049170747](#)

FROM Jeff Barbadora
1800 W. Park Drive
WESTBOROUGH, MA, US, 01581

TO City of Bristol
Edward Spyros, ZEO
111 North Main Street
2rd Floor
BRISTOL, CT, US, 06010

REFERENCE 799001.7680

SHIPPER REFERENCE 799001.7680

SHIP DATE Tue 2/15/2022 05:26 PM

DELIVERED TO Receptionist/Front Desk

PACKAGING TYPE FedEx Pak

ORIGIN WESTBOROUGH, MA, US, 01581

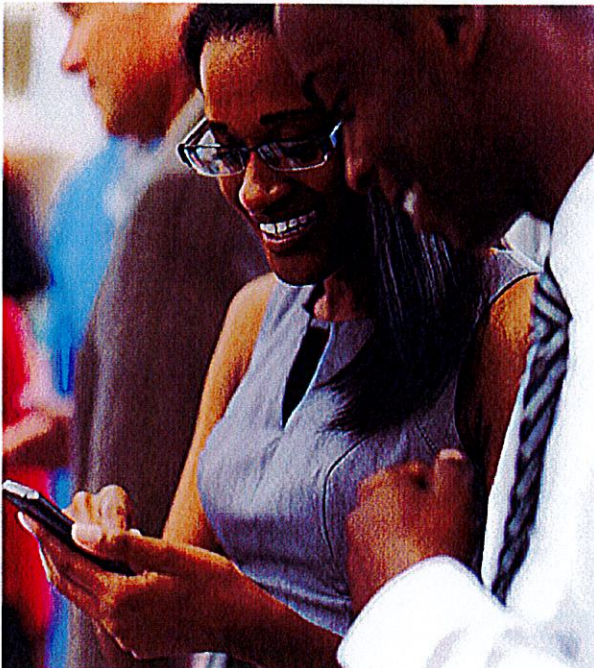
DESTINATION BRISTOL, CT, US, 06010

SPECIAL HANDLING Deliver Weekday

NUMBER OF PIECES 1

TOTAL SHIPMENT WEIGHT 1.00 LB

SERVICE TYPE FedEx Priority Overnight



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MORRISON HERSHFIELD

Morrison Hershfield
1455 Lincoln Parkway, Suite 500
Atlanta, GA 30346
(770) 379-8500

Date: **June 15, 2021**

Subject: Structural Analysis Report

Carrier Designation: Verizon Wireless Co-Locate
Site Number: 468192
Site Name: Bristol W 2

Crown Castle Designation:
BU Number: 842859
Site Name: Bristol Center
JDE Job Number: 673551
Work Order Number: 1983835
Order Number: 574945 Rev. 0

Engineering Firm Designation: Morrison Hershfield Project Number: CN8-652 / 2101398

Site Data: 371 Terryville Avenue, Bristol, Hartford County, CT 06010
Latitude 41° 40' 47.71", Longitude -72° 57' 45.18"
168.5 Foot – EEI Monopole Tower

Morrison Hershfield is pleased to submit this “**Structural Analysis Report**” to determine the structural integrity of the above-mentioned tower.

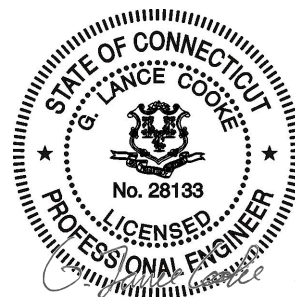
The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration **Sufficient Capacity – 99.9%**

This analysis utilizes an ultimate 3-second gust wind speed of 120 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Respectfully submitted by:

G. Lance Cooke, P.E. (CT License No. 28133)
Senior Engineer



G. Lance Cooke
2021.06.15
12:07:39-07'00'

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tnxTower Output

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1) INTRODUCTION

This tower is a 168.5 ft Monopole tower designed by Engineered Endeavors, Inc.

The tower has been modified multiple times in the past to accommodate additional loading.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	120 mph
Exposure Category:	C
Topographic Factor:	1
Ice Thickness:	2 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
138.0	140.0	3	antel	BXA-70063/4CF w/ Mount Pipe	7 1	1-5/8 1-1/4
		3	commscope	NHH-65B-R2B w/ Mount Pipe		
		3	commscope	NHHSS-65B-R2B w/ Mount Pipe		
		3	samsung telecommunications	MT6407-77A w/ Mount Pipe		
		1	raycap	RVZDC-6627-PF-48		
		3	samsung telecommunications	CBRS RT4401-48A		
		3	samsung telecommunications	RFV01U-D1A		
	3	samsung telecommunications	RFV01U-D2A			
	138.0	1	-	Platform Mount [LP 303-1]		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	
168.0	169.0	3	ericsson	RRUS 32 B2	6 2 6 3 3	1-5/8 1 7/8 3/8 2C	
		3	ericsson	RRUS 32 B30			
		3	ericsson	RRUS 4415 B25			
		3	ericsson	RRUS 4449 B5/B12			
		3	ericsson	RRUS E2 B29			
		1	raycap	DC6-48-60-18-8C			
		3	raycap	DC6-48-60-18-8F			
	168.0	168.0	1	cci antennas			DMP65R-BU6D w/ Mount Pipe
			2	cci antennas			DMP65R-BU8D w/ Mount Pipe
			2	cci antennas			TPA-65R-LCUUUU-H8 w/ Mount Pipe
			1	kathrein			80010798 w/ Mount Pipe
			1	kathrein			80010965 w/ Mount Pipe
			2	kathrein			80010966 w/ Mount Pipe
	167.0	167.0	1	-			Platform Mount [LP 304-1_KCKR-HR-1]
3			kathrein	800 10121 w/ Mount Pipe			
158.0	158.0	3	rfs celwave	APXVSP18-C-A20 w/ Mount Pipe	4	1-1/4	
		3	rfs celwave	APXVTM14-C-120 w/ Mount Pipe			
		3	alcatel lucent	1900MHZ RRH (65MHZ)			
		3	alcatel lucent	800 EXTERNAL NOTCH FILTER			
		3	alcatel lucent	800MHZ RRH			
		3	alcatel lucent	TD-RRH8X20-25			
		1	-	T-Arm Mount [TA 602-3_KCKR]			
148.0	148.0	3	jma wireless	MX08FRO665-21 w/ Mount Pipe	1	1-1/2	
		3	fujitsu	TA08025-B604			
		3	fujitsu	TA08025-B605			
		1	raycap	RDIDC-9181-PF-48			
		1	commscope	8' Platform [MC-PK8-DSH]			
128.0	130.0	3	ericsson	AIR 32 B2A/B66AA w/ Mount Pipe	12 3	1-5/8 1-1/4	
		3	rfs celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe			
		3	ericsson	KRY 112 144/1			
		3	ericsson	RADIO 4449 B12/B71			
	128.0	1	-	Platform Mount [LP 303-1]			
70.0	70.0	1	gps	GPS_A	1	1/2	
		1	-	Side Arm Mount [SO 701-1]			

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
4-GEOTECHNICAL REPORTS	5452600	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	4529295	CCISITES
4-TOWER MANUFACTURER DRAWINGS	5135435	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	5111174	CCISITES
4-POST-MODIFICATION INSPECTION	5839578	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	4964264	CCISITES
4-POST-MODIFICATION INSPECTION	5595874	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	5111173	CCISITES
4-POST-MODIFICATION INSPECTION	5114340	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	5907572	CCISITES
4-POST-MODIFICATION INSPECTION	6121087	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	8800798	CCISITES
4-POST-MODIFICATION INSPECTION	9239992	CCISITES

3.1) Analysis Method

tnxTower (version 8.0.9.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

tnxTower was used to determine the loads on the modified structure. Additional calculations were performed to determine the stresses in the pole and in the reinforcing elements. These calculations are presented in Appendix C.

3.2) Assumptions

- 1) Tower and structures were maintained in accordance with the TIA-222 Standard.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.

This analysis may be affected if any assumptions are not valid or have been made in error. Morrison Hershfield should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
L1	168.5 - 163.5	Pole	TP19.834x19x0.1875	Pole	11.2%	Pass
L2	163.5 - 158.5	Pole	TP20.669x19.834x0.1875	Pole	21.6%	Pass
L3	158.5 - 153.5	Pole	TP21.503x20.669x0.1875	Pole	35.3%	Pass
L4	153.5 - 148.5	Pole	TP22.337x21.503x0.1875	Pole	47.7%	Pass
L5	148.5 - 143.5	Pole	TP23.171x22.337x0.1875	Pole	62.6%	Pass
L6	143.5 - 138.5	Pole	TP24.006x23.171x0.1875	Pole	75.9%	Pass
L7	138.5 - 134.33	Pole	TP25.313x24.006x0.1875	Pole	89.9%	Pass
L8	134.33 - 129.33	Pole	TP25.15x24.327x0.25	Pole	73.9%	Pass
L9	129.33 - 125.75	Pole	TP25.739x25.15x0.25	Pole	82.0%	Pass
L10	125.75 - 125.5	Pole	TP25.78x25.739x0.25	Pole	82.5%	Pass
L11	125.5 - 120.5	Pole	TP26.603x25.78x0.25	Pole	92.5%	Pass
L12	120.5 - 120.25	Pole + Reinf.	TP26.644x26.603x0.4813	Reinf. 10 Tension Rupture	85.7%	Pass
L13	120.25 - 115.25	Pole + Reinf.	TP27.467x26.644x0.475	Reinf. 10 Tension Rupture	94.9%	Pass
L14	115.25 - 113.83	Pole + Reinf.	TP27.7x27.467x0.4688	Reinf. 10 Tension Rupture	97.4%	Pass
L15	113.83 - 113.48	Pole + Reinf.	TP27.758x27.7x0.65	Reinf. 10 Tension Rupture	68.0%	Pass
L16	113.48 - 113.25	Pole + Reinf.	TP27.796x27.758x0.65	Reinf. 10 Tension Rupture	68.3%	Pass
L17	113.25 - 108.25	Pole + Reinf.	TP28.619x27.796x0.6375	Reinf. 10 Tension Rupture	74.6%	Pass
L18	108.25 - 103.25	Pole + Reinf.	TP29.442x28.619x0.625	Reinf. 10 Tension Rupture	80.7%	Pass
L19	103.25 - 98.25	Pole + Reinf.	TP30.266x29.442x0.6125	Reinf. 10 Tension Rupture	86.5%	Pass
L20	98.25 - 93.25	Pole + Reinf.	TP31.089x30.266x0.6	Reinf. 10 Tension Rupture	92.1%	Pass
L21	93.25 - 89.28	Pole + Reinf.	TP32.493x31.089x0.6	Reinf. 10 Tension Rupture	96.5%	Pass
L22	89.28 - 83.72	Pole + Reinf.	TP32.155x31.243x0.6625	Reinf. 2 Tension Rupture	92.7%	Pass
L23	83.72 - 82.92	Pole + Reinf.	TP32.286x32.155x0.6625	Reinf. 2 Tension Rupture	93.5%	Pass
L24	82.92 - 82.67	Pole + Reinf.	TP32.327x32.286x0.95	Reinf. 2 Tension Rupture	69.0%	Pass
L25	82.67 - 82.5	Pole + Reinf.	TP32.355x32.327x0.95	Reinf. 2 Tension Rupture	69.1%	Pass
L26	82.5 - 82.25	Pole + Reinf.	TP32.396x32.355x0.6875	Reinf. 2 Tension Rupture	91.7%	Pass
L27	82.25 - 77.25	Pole + Reinf.	TP33.217x32.396x0.675	Reinf. 2 Tension Rupture	95.9%	Pass
L28	77.25 - 73.42	Pole + Reinf.	TP33.846x33.217x0.6625	Reinf. 2 Tension Rupture	99.0%	Pass
L29	73.42 - 73.17	Pole + Reinf.	TP33.887x33.846x0.9375	Reinf. 9 Tension Rupture	75.2%	Pass
L30	73.17 - 68.17	Pole + Reinf.	TP34.707x33.887x0.9125	Reinf. 9 Tension Rupture	78.4%	Pass
L31	68.17 - 64.25	Pole + Reinf.	TP35.35x34.707x0.8875	Reinf. 9 Tension Rupture	80.8%	Pass
L32	64.25 - 64	Pole + Reinf.	TP35.391x35.35x0.7375	Reinf. 3 Tension Rupture	92.9%	Pass
L33	64 - 59	Pole + Reinf.	TP36.212x35.391x0.7375	Reinf. 3 Tension Rupture	96.1%	Pass
L34	59 - 54	Pole + Reinf.	TP37.032x36.212x0.7125	Reinf. 3 Tension Rupture	99.1%	Pass
L35	54 - 53.5	Pole + Reinf.	TP37.115x37.032x0.7125	Reinf. 3 Tension Rupture	99.4%	Pass
L36	53.5 - 53.25	Pole + Reinf.	TP37.156x37.115x0.825	Reinf. 7 Tension Rupture	93.9%	Pass
L37	53.25 - 49.17	Pole + Reinf.	TP38.702x37.156x0.8125	Reinf. 7 Tension Rupture	96.2%	Pass
L38	49.17 - 42.83	Pole + Reinf.	TP38.239x37.201x0.725	Reinf. 4 Tension Rupture	99.4%	Pass
L39	42.83 - 41.75	Pole + Reinf.	TP38.415x38.239x0.725	Reinf. 4 Tension Rupture	99.9%	Pass
L40	41.75 - 41.5	Pole + Reinf.	TP38.456x38.415x0.7625	Reinf. 4 Tension Rupture	95.9%	Pass
L41	41.5 - 36.5	Pole + Reinf.	TP39.274x38.456x0.75	Reinf. 4 Tension Rupture	98.1%	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
L42	36.5 - 32.75	Pole + Reinf.	TP39.888x39.274x0.75	Reinf. 4 Tension Rupture	99.6%	Pass
L43	32.75 - 32.5	Pole + Reinf.	TP39.929x39.888x1	Reinf. 4 Tension Rupture	76.3%	Pass
L44	32.5 - 29.73	Pole + Reinf.	TP40.382x39.929x0.9	Reinf. 8 Tension Rupture	93.7%	Pass
L45	29.73 - 29.48	Pole + Reinf.	TP40.423x40.382x0.9	Reinf. 8 Tension Rupture	93.8%	Pass
L46	29.48 - 28.25	Pole + Reinf.	TP40.625x40.423x0.8875	Reinf. 8 Tension Rupture	94.3%	Pass
L47	28.25 - 28	Pole + Reinf.	TP40.666x40.625x0.95	Reinf. 8 Tension Rupture	86.1%	Pass
L48	28 - 23	Pole + Reinf.	TP41.485x40.666x0.95	Reinf. 8 Tension Rupture	87.9%	Pass
L49	23 - 19.25	Pole + Reinf.	TP42.099x41.485x0.9375	Reinf. 8 Tension Rupture	89.2%	Pass
L50	19.25 - 19	Pole + Reinf.	TP42.139x42.099x0.825	Reinf. 5 Tension Rupture	92.3%	Pass
L51	19 - 14	Pole + Reinf.	TP42.958x42.139x0.8	Reinf. 5 Tension Rupture	93.9%	Pass
L52	14 - 9	Pole + Reinf.	TP43.777x42.958x0.8	Reinf. 5 Tension Rupture	95.4%	Pass
L53	9 - 4	Pole + Reinf.	TP44.595x43.777x0.7875	Reinf. 5 Tension Rupture	96.8%	Pass
L54	4 - 0	Pole + Reinf.	TP45.25x44.595x0.775	Reinf. 5 Tension Rupture	97.8%	Pass
					Summary	
				Pole	92.5%	Pass
				Reinforcement	99.9%	Pass
				Overall	99.9%	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	67.9	Pass
1	Base Plate		70.9	Pass
1	Base Foundation (Structure)	0	92.1	Pass
1	Base Foundation (Soil Interaction)		61.5	Pass

Structure Rating (max from all components) =	99.9%*
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Notes:

- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.
- 2) *Rating per TIA-222-H, Section 15.5.

4.1) Recommendations

The tower and its foundation have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

APPENDIX A
TNXTOWER OUTPUT

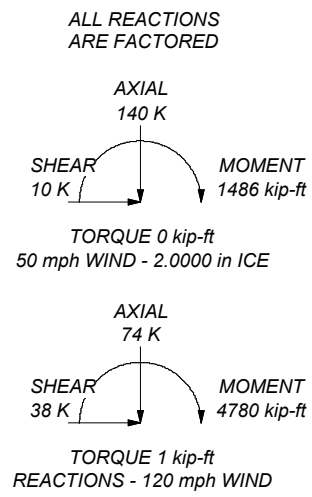
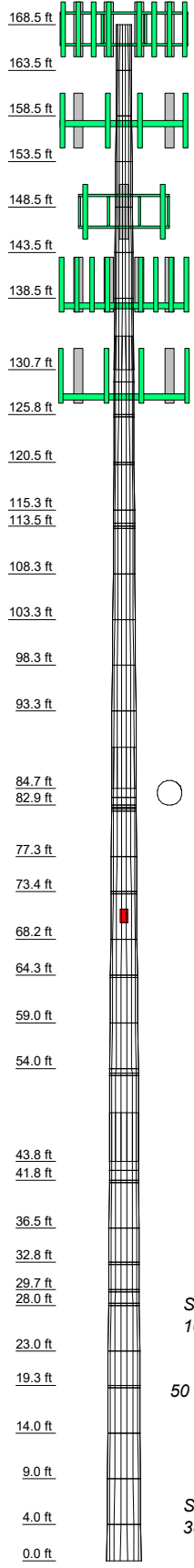
MATERIAL STRENGTH


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

TOWER DESIGN NOTES

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 2.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. CCIPOLE RATING: 99.9%

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
2	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
3	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
4	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
5	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
6	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
7	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
8	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
9	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
10	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
11	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
12	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
13	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
14	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
15	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
16	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
17	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
18	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
19	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
20	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
21	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
22	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
23	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
24	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
25	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
26	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
27	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
28	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
29	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
30	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
31	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
32	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
33	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
34	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
35	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
36	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
37	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
38	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
39	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
40	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
41	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
42	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
43	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
44	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
45	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
46	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
47	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
48	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
49	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
50	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
51	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
52	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
53	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875
54	5.00	18	0.1875	3.66	44.595	45.250	39.5	0.1875



 Consulting Engineers	Morrison Hershfield 1455 Lincoln Parkway, Suite 500 Atlanta, GA 30346 Phone: (770) 379-8500 FAX: (770) 379-8501	Job: CN8-652 / 2101398 Project: 842859 / Bristol Center	Client: Crown Castle USA Code: TIA-222-H Path:	Drawn by: CKK Date: 06/15/21	App'd: Scale: NTS Dwg No. E-1
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Tower Input Data

The tower is a monopole.
 This tower is designed using the TIA-222-H standard.
 The following design criteria apply:

- Tower is located in Hartford County, Connecticut.
- Tower base elevation above sea level: 565.00 ft.
- Basic wind speed of 120 mph.
- Risk Category II.
- Exposure Category C.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.00 ft.
- Nominal ice thickness of 2.0000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 60 mph.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in pole design is 1.
- Tower analysis based on target reliabilities in accordance with Annex S.
- Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
- Maximum demand-capacity ratio is: 1.05.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification ✓ Use Code Stress Ratios ✓ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity Leg Bolts Are At Top Of Section Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric	Distribute Leg Loads As Uniform Assume Legs Pinned ✓ Assume Rigid Index Plate ✓ Use Clear Spans For Wind Area Use Clear Spans For KL/r Retension Guys To Initial Tension ✓ Bypass Mast Stability Checks ✓ Use Azimuth Dish Coefficients ✓ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs	Use ASCE 10 X-Brace Ly Rules Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation ✓ Consider Feed Line Torque Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <div style="text-align: center; background-color: #e0e0e0; padding: 2px;">Poles</div> ✓ Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known
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Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	168.50-163.50	5.00	0.00	18	19.0000	19.8343	0.1875	0.7500	A572-65 (65 ksi)
L2	163.50-158.50	5.00	0.00	18	19.8343	20.6685	0.1875	0.7500	A572-65 (65 ksi)
L3	158.50-153.50	5.00	0.00	18	20.6685	21.5028	0.1875	0.7500	A572-65 (65 ksi)
L4	153.50-148.50	5.00	0.00	18	21.5028	22.3370	0.1875	0.7500	A572-65 (65 ksi)
L5	148.50-143.50	5.00	0.00	18	22.3370	23.1713	0.1875	0.7500	A572-65 (65 ksi)
L6	143.50-138.50	5.00	0.00	18	23.1713	24.0056	0.1875	0.7500	A572-65 (65 ksi)
L7	138.50-130.67	7.83	3.66	18	24.0056	25.3125	0.1875	0.7500	A572-65 (65 ksi)
L8	130.67-129.33	5.00	0.00	18	24.3268	25.1499	0.2500	1.0000	A572-65 (65 ksi)
L9	129.33-125.75	3.58	0.00	18	25.1499	25.7387	0.2500	1.0000	A572-65 (65 ksi)
L10	125.75-125.50	0.25	0.00	18	25.7387	25.7798	0.2500	1.0000	A572-65 (65 ksi)
L11	125.50-120.50	5.00	0.00	18	25.7798	26.6029	0.2500	1.0000	A572-65 (65 ksi)
L12	120.50-120.25	0.25	0.00	18	26.6029	26.6441	0.4813	1.9250	A572-65 (65 ksi)
L13	120.25-115.25	5.00	0.00	18	26.6441	27.4671	0.4750	1.9000	A572-65 (65 ksi)
L14	115.25-113.83	1.42	0.00	18	27.4671	27.7004	0.4688	1.8750	A572-65 (65 ksi)
L15	113.83-113.48	0.35	0.00	18	27.7004	27.7580	0.6500	2.6000	A572-65 (65 ksi)
L16	113.48-113.25	0.23	0.00	18	27.7580	27.7963	0.6500	2.6000	A572-65 (65 ksi)
L17	113.25-108.25	5.00	0.00	18	27.7963	28.6194	0.6375	2.5500	A572-65 (65 ksi)
L18	108.25-103.25	5.00	0.00	18	28.6194	29.4425	0.6250	2.5000	A572-65 (65 ksi)
L19	103.25-98.25	5.00	0.00	18	29.4425	30.2655	0.6125	2.4500	A572-65 (65 ksi)
L20	98.25-93.25	5.00	0.00	18	30.2655	31.0886	0.6000	2.4000	A572-65 (65 ksi)
L21	93.25-84.72	8.53	4.56	18	31.0886	32.4932	0.6000	2.4000	A572-65 (65 ksi)
L22	84.72-83.72	5.56	0.00	18	31.2426	32.1551	0.6625	2.6500	A572-65 (65 ksi)
L23	83.72-82.92	0.80	0.00	18	32.1551	32.2864	0.6625	2.6500	A572-65 (65 ksi)
L24	82.92-82.67	0.25	0.00	18	32.2864	32.3274	0.9500	3.8000	A572-65 (65 ksi)
L25	82.67-82.50	0.17	0.00	18	32.3274	32.3549	0.9500	3.8000	A572-65 (65 ksi)
L26	82.50-82.25	0.25	0.00	18	32.3549	32.3959	0.6875	2.7500	A572-65 (65 ksi)
L27	82.25-77.25	5.00	0.00	18	32.3959	33.2165	0.6750	2.7000	A572-65 (65 ksi)
L28	77.25-73.42	3.83	0.00	18	33.2165	33.8456	0.6625	2.6500	A572-65 (65 ksi)
L29	73.42-73.17	0.25	0.00	18	33.8456	33.8866	0.9375	3.7500	A572-65 (65 ksi)
L30	73.17-68.17	5.00	0.00	18	33.8866	34.7073	0.9125	3.6500	A572-65 (65 ksi)
L31	68.17-64.25	3.92	0.00	18	34.7073	35.3502	0.8875	3.5500	A572-65 (65 ksi)
L32	64.25-64.00	0.25	0.00	18	35.3502	35.3912	0.7375	2.9500	A572-65 (65 ksi)
L33	64.00-59.00	5.00	0.00	18	35.3912	36.2118	0.7375	2.9500	A572-65 (65 ksi)

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L34	59.00-54.00	5.00	0.00	18	36.2118	37.0324	0.7125	2.8500	A572-65 (65 ksi)
L35	54.00-53.50	0.50	0.00	18	37.0324	37.1145	0.7125	2.8500	A572-65 (65 ksi)
L36	53.50-53.25	0.25	0.00	18	37.1145	37.1555	0.8250	3.3000	A572-65 (65 ksi)
L37	53.25-43.83	9.42	5.34	18	37.1555	38.7021	0.8125	3.2500	A572-65 (65 ksi)
L38	43.83-42.83	6.34	0.00	18	37.2007	38.2386	0.7250	2.9000	A572-65 (65 ksi)
L39	42.83-41.75	1.08	0.00	18	38.2386	38.4149	0.7250	2.9000	A572-65 (65 ksi)
L40	41.75-41.50	0.25	0.00	18	38.4149	38.4559	0.7625	3.0500	A572-65 (65 ksi)
L41	41.50-36.50	5.00	0.00	18	38.4559	39.2744	0.7500	3.0000	A572-65 (65 ksi)
L42	36.50-32.75	3.75	0.00	18	39.2744	39.8884	0.7500	3.0000	A572-65 (65 ksi)
L43	32.75-32.50	0.25	0.00	18	39.8884	39.9293	1.0000	4.0000	A572-65 (65 ksi)
L44	32.50-29.73	2.77	0.00	18	39.9293	40.3823	0.9000	3.6000	A572-65 (65 ksi)
L45	29.73-29.48	0.25	0.00	18	40.3823	40.4232	0.9000	3.6000	A572-65 (65 ksi)
L46	29.48-28.25	1.23	0.00	18	40.4232	40.6251	0.8875	3.5500	A572-65 (65 ksi)
L47	28.25-28.00	0.25	0.00	18	40.6251	40.6660	0.9500	3.8000	A572-65 (65 ksi)
L48	28.00-23.00	5.00	0.00	18	40.6660	41.4846	0.9500	3.8000	A572-65 (65 ksi)
L49	23.00-19.25	3.75	0.00	18	41.4846	42.0985	0.9375	3.7500	A572-65 (65 ksi)
L50	19.25-19.00	0.25	0.00	18	42.0985	42.1394	0.8250	3.3000	A572-65 (65 ksi)
L51	19.00-14.00	5.00	0.00	18	42.1394	42.9580	0.8000	3.2000	A572-65 (65 ksi)
L52	14.00-9.00	5.00	0.00	18	42.9580	43.7766	0.8000	3.2000	A572-65 (65 ksi)
L53	9.00-4.00	5.00	0.00	18	43.7766	44.5951	0.7875	3.1500	A572-65 (65 ksi)
L54	4.00-0.00	4.00		18	44.5951	45.2500	0.7750	3.1000	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L1	19.2642	11.1958	500.5935	6.6784	9.6520	51.8642	1001.8456	5.5990	3.0140	16.075
	20.1113	11.6923	570.1884	6.9746	10.0758	56.5899	1141.1270	5.8472	3.1608	16.858
L2	20.1113	11.6923	570.1884	6.9746	10.0758	56.5899	1141.1270	5.8472	3.1608	16.858
	20.9584	12.1888	645.9519	7.2708	10.4996	61.5215	1292.7538	6.0955	3.3077	17.641
L3	20.9584	12.1888	645.9519	7.2708	10.4996	61.5215	1292.7538	6.0955	3.3077	17.641
	21.8056	12.6853	728.1460	7.5669	10.9234	66.6592	1457.2502	6.3438	3.4545	18.424
L4	21.8056	12.6853	728.1460	7.5669	10.9234	66.6592	1457.2502	6.3438	3.4545	18.424
	22.6527	13.1817	817.0327	7.8631	11.3472	72.0029	1635.1404	6.5921	3.6013	19.207
L5	22.6527	13.1817	817.0327	7.8631	11.3472	72.0029	1635.1404	6.5921	3.6013	19.207
	23.4998	13.6782	912.8737	8.1592	11.7710	77.5527	1826.9486	6.8404	3.7481	19.99
L6	23.4998	13.6782	912.8737	8.1592	11.7710	77.5527	1826.9486	6.8404	3.7481	19.99
	24.3470	14.1747	1015.9312	8.4554	12.1948	83.3084	2033.1992	7.0887	3.8950	20.773
L7	24.3470	14.1747	1015.9312	8.4554	12.1948	83.3084	2033.1992	7.0887	3.8950	20.773
	25.1942	14.6712	1119.0887	8.7515	12.6184	89.4396	2248.4080	7.2977	4.0420	21.648
L8	25.1942	14.6712	1119.0887	8.7515	12.6184	89.4396	2248.4080	7.2977	4.0420	21.648
	25.2753	19.1050	1399.2068	8.5473	12.3580	113.2225	2800.2547	9.5543	3.8415	15.366
	25.4993	19.7581	1547.6622	8.8395	12.7761	121.1369	3097.3608	9.8809	3.9864	15.946
L9	25.4993	19.7581	1547.6622	8.8395	12.7761	121.1369	3097.3608	9.8809	3.9864	15.946
	26.0972	20.2253	1660.0731	9.0485	13.0753	126.9629	3322.3306	10.1146	4.0900	16.36
L10	26.0972	20.2253	1660.0731	9.0485	13.0753	126.9629	3322.3306	10.1146	4.0900	16.36

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L11	26.1390	20.2579	1668.1270	9.0631	13.0962	127.3752	3338.4489	10.1309	4.0973	16.389
	26.1390	20.2579	1668.1270	9.0631	13.0962	127.3752	3338.4489	10.1309	4.0973	16.389
	26.9747	20.9110	1834.7206	9.3553	13.5143	135.7617	3671.8553	10.4575	4.2421	16.968
L12	26.9391	39.9005	3439.6737	9.2732	13.5143	254.5215	6883.8734	19.9540	3.8351	7.969
	26.9808	39.9634	3455.9562	9.2878	13.5352	255.3313	6916.4599	19.9855	3.8424	7.984
L13	26.9818	39.4538	3413.5189	9.2900	13.5352	252.1960	6831.5293	19.7306	3.8534	8.112
	27.8176	40.6947	3745.8364	9.5822	13.9533	268.4553	7496.6017	20.3512	3.9982	8.417
L14	27.8185	40.1685	3699.1175	9.5844	13.9533	265.1071	7403.1024	20.0881	4.0092	8.553
	28.0554	40.5155	3795.8247	9.6672	14.0718	269.7471	7596.6440	20.2616	4.0503	8.641
L15	28.0274	55.8076	5159.1412	9.6029	14.0718	366.6301	10325.0710	27.9091	3.7313	5.74
	28.0859	55.9265	5192.1765	9.6233	14.1011	368.2119	10391.1850	27.9686	3.7414	5.756
L16	28.0859	55.9265	5192.1765	9.6233	14.1011	368.2119	10391.1850	27.9686	3.7414	5.756
	28.1249	56.0056	5214.2466	9.6370	14.1205	369.2668	10435.3542	28.0081	3.7482	5.766
L17	28.1268	54.9539	5121.0403	9.6414	14.1205	362.6660	10248.8191	27.4822	3.7702	5.914
	28.9626	56.6193	5600.8770	9.9336	14.5387	385.2404	11209.1238	28.3150	3.9150	6.141
L18	28.9645	55.5339	5498.4180	9.9380	14.5387	378.1931	11004.0710	27.7722	3.9370	6.299
	29.8002	57.1666	5997.7900	10.2302	14.9568	401.0084	12003.4720	28.5887	4.0819	6.531
L19	29.8022	56.0476	5885.4863	10.2346	14.9568	393.4999	11778.7168	28.0291	4.1039	6.7
	30.6379	57.6477	6404.0826	10.5268	15.3749	416.5289	12816.5918	28.8293	4.2487	6.937
L20	30.6398	56.4950	6281.3238	10.5313	15.3749	408.5446	12570.9128	28.2529	4.2707	7.118
	31.4756	58.0624	6818.7817	10.8234	15.7930	431.7599	13646.5357	29.0367	4.4156	7.359
L21	31.4756	58.0624	6818.7817	10.8234	15.7930	431.7599	13646.5357	29.0367	4.4156	7.359
	32.9019	60.7374	7805.3056	11.3221	16.5065	472.8612	15620.8816	30.3745	4.6628	7.771
L22	32.3823	64.3030	7597.0633	10.8559	15.8712	478.6690	15204.1230	32.1576	4.3327	6.54
	32.5490	66.2219	8297.6730	11.1799	16.3348	507.9753	16606.2642	33.1172	4.4933	6.782
L23	32.5490	66.2219	8297.6730	11.1799	16.3348	507.9753	16606.2642	33.1172	4.4933	6.782
	32.6823	66.4980	8401.8917	11.2265	16.4015	512.2637	16814.8388	33.2553	4.5164	6.817
L24	32.6379	94.4887	11722.3809	11.1244	16.4015	714.7140	23460.1864	47.2533	4.0104	4.221
	32.6796	94.6124	11768.4887	11.1390	16.4223	716.6145	23552.4626	47.3152	4.0176	4.229
L25	32.6796	94.6124	11768.4887	11.1390	16.4223	716.6145	23552.4626	47.3152	4.0176	4.229
	32.7074	94.6951	11799.3559	11.1487	16.4363	717.8854	23614.2377	47.3565	4.0225	4.234
L26	32.7479	69.1021	8754.9242	11.2419	16.4363	532.6590	17521.3684	34.5576	4.4845	6.523
	32.7896	69.1917	8788.9997	11.2565	16.4571	534.0549	17589.5642	34.6024	4.4917	6.533
L27	32.7915	67.9604	8639.4091	11.2609	16.4571	524.9652	17290.1861	33.9867	4.5137	6.687
	33.6248	69.7186	9327.4185	11.5522	16.8740	552.7690	18667.1103	34.8659	4.6581	6.901
L28	33.6267	68.4538	9165.2422	11.5567	16.8740	543.1580	18342.5443	34.2334	4.6801	7.064
	34.2655	69.7766	9706.9219	11.7800	17.1936	564.5670	19426.6164	34.8949	4.7908	7.231
L29	34.2231	97.9222	13397.5223	11.6824	17.1936	779.2170	26812.6734	48.9704	4.3068	4.594
	34.2648	98.0443	13447.6990	11.6969	17.2144	781.1883	26913.0928	49.0315	4.3140	4.602
L30	34.2686	95.5022	13118.9101	11.7058	17.2144	762.0887	26255.0825	47.7602	4.3580	4.776
	35.1019	97.8790	14122.9628	11.9971	17.6313	801.0168	28264.5090	48.9488	4.5025	4.934
L31	35.1058	95.2678	13766.5390	12.0060	17.6313	780.8014	27551.1923	47.6429	4.5465	5.123
	35.7586	97.0787	14566.6233	12.2342	17.9579	811.1550	29152.4138	48.5486	4.6596	5.25
L32	35.7817	81.0222	12263.4057	12.2875	17.9579	682.8984	24542.9479	40.5188	4.9236	6.676
	35.8234	81.1182	12307.0703	12.3021	17.9787	684.5353	24630.3346	40.5668	4.9308	6.686
L33	35.8234	81.1182	12307.0703	12.3021	17.9787	684.5353	24630.3346	40.5668	4.9308	6.686
	36.6567	83.0392	13202.2658	12.5934	18.3956	717.6860	26421.9036	41.5275	5.0753	6.882
L34	36.6605	80.2808	12781.7165	12.6023	18.3956	694.8246	25580.2516	40.1480	5.1193	7.185
	37.4938	82.1366	13688.7823	12.8936	18.8125	727.6436	27395.5766	41.0761	5.2637	7.388
L35	37.4938	82.1366	13688.7823	12.8936	18.8125	727.6436	27395.5766	41.0761	5.2637	7.388
	37.5771	82.3222	13781.7794	12.9227	18.8542	730.9672	27581.6931	41.1689	5.2782	7.408
L36	37.5598	95.0259	15810.3539	12.8828	18.8542	838.5600	31641.5115	47.5220	5.0802	6.158
	37.6015	95.1333	15864.0435	12.8973	18.8750	840.4785	31748.9613	47.5757	5.0874	6.167
L37	37.6034	93.7242	15639.8114	12.9018	18.8750	828.5986	31300.2020	46.8710	5.1094	6.288
	39.1738	97.7125	17722.6150	13.4508	19.6607	901.4249	35468.5499	48.8656	5.3816	6.623
L38	38.5504	83.9360	14108.8658	12.9489	18.8979	746.5823	28236.2965	41.9760	5.2713	7.271
	38.7167	86.3245	15347.9055	13.3173	19.4252	790.1022	30716.0061	43.1704	5.4540	7.523
L39	38.7167	86.3245	15347.9055	13.3173	19.4252	790.1022	30716.0061	43.1704	5.4540	7.523
	38.8957	86.7302	15565.3372	13.3799	19.5148	797.6176	31151.1558	43.3733	5.4850	7.566
L40	38.8899	91.1255	16321.6257	13.3666	19.5148	836.3722	32664.7277	45.5714	5.4190	7.107
	38.9315	91.2245	16374.9088	13.3811	19.5356	838.2096	32771.3641	45.6209	5.4262	7.116
L41	38.9334	89.7588	16122.4968	13.3856	19.5356	825.2889	32266.2081	44.8879	5.4482	7.264
	39.7646	91.7074	17195.4852	13.6762	19.9514	861.8681	34413.5966	45.8624	5.5923	7.456
L42	39.7646	91.7074	17195.4852	13.6762	19.9514	861.8681	34413.5966	45.8624	5.5923	7.456
	40.3880	93.1689	18030.7409	13.8941	20.2633	889.8231	36085.2071	46.5933	5.7004	7.6
L43	40.3494	123.4317	23583.2320	13.8054	20.2633	1163.8403	47197.4955	61.7276	5.2604	5.26
	40.3910	123.5616	23657.7718	13.8199	20.2841	1166.3222	47346.6731	61.7925	5.2676	5.268
L44	40.4064	111.4911	21456.4985	13.8554	20.2841	1057.8000	42941.2301	55.7561	5.4436	6.048
	40.8664	112.7851	22212.3139	14.0162	20.5142	1082.7774	44453.8554	56.4033	5.5233	6.137
L45	40.8664	112.7851	22212.3139	14.0162	20.5142	1082.7774	44453.8554	56.4033	5.5233	6.137

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L46	40.9080	112.9020	22281.4634	14.0307	20.5350	1085.0485	44592.2454	56.4617	5.5305	6.145
	40.9099	111.3691	21992.8525	14.0352	20.5350	1070.9939	44014.6437	55.6952	5.5525	6.256
	41.1149	111.9378	22331.4455	14.1068	20.6375	1082.0789	44692.2753	55.9795	5.5880	6.296
L47	41.1052	119.6323	23791.4694	14.0847	20.6375	1152.8250	47614.2443	59.8275	5.4780	5.766
	41.1468	119.7557	23865.1748	14.0992	20.6583	1155.2325	47761.7519	59.8892	5.4852	5.774
L48	41.1468	119.7557	23865.1748	14.0992	20.6583	1155.2325	47761.7519	59.8892	5.4852	5.774
	41.9780	122.2239	25371.4240	14.3898	21.0742	1203.9113	50776.2324	61.1236	5.6293	5.926
L49	41.9799	120.6529	25060.7598	14.3942	21.0742	1189.1698	50154.4952	60.3379	5.6513	6.028
	42.6033	122.4797	26216.4263	14.6122	21.3860	1225.8664	52467.3489	61.2515	5.7593	6.143
L50	42.6207	108.0767	23260.1391	14.6521	21.3860	1087.6319	46550.8844	54.0486	5.9573	7.221
	42.6622	108.1839	23329.4049	14.6666	21.4068	1089.8112	46689.5072	54.1022	5.9645	7.23
L51	42.6661	104.9691	22663.5457	14.6755	21.4068	1058.7062	45356.9126	52.4945	6.0085	7.511
	43.4973	107.0476	24036.6767	14.9661	21.8227	1101.4547	48104.9814	53.5340	6.1526	7.691
L52	43.4973	107.0476	24036.6767	14.9661	21.8227	1101.4547	48104.9814	53.5340	6.1526	7.691
	44.3285	109.1261	25464.1800	15.2567	22.2385	1145.0494	50961.8665	54.5734	6.2967	7.871
L53	44.3304	107.4523	25088.1807	15.2611	22.2385	1128.1418	50209.3730	53.7363	6.3187	8.024
	45.1616	109.4983	26548.7825	15.5517	22.6543	1171.9075	53132.4986	54.7596	6.4627	8.207
L54	45.1635	107.7910	26149.7451	15.5562	22.6543	1154.2933	52333.8987	53.9057	6.4847	8.367
	45.8285	109.4018	27339.7126	15.7886	22.9870	1189.3554	54715.3996	54.7113	6.6000	8.516

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A _r	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft ²	in					in	in	in
L1 168.50-163.50				1	1	1			
L2 163.50-158.50				1	1	1			
L3 158.50-153.50				1	1	1			
L4 153.50-148.50				1	1	1			
L5 148.50-143.50				1	1	1			
L6 143.50-138.50				1	1	1			
L7 138.50-130.67				1	1	1			
L8 130.67-129.33				1	1	1			
L9 129.33-125.75				1	1	1			
L10 125.75-125.50				1	1	1			
L11 125.50-120.50				1	1	1			
L12 120.50-120.25				1	1	1.08476			
L13 120.25-115.25				1	1	1.08132			
L14 115.25-113.83				1	1	1.09067			
L15 113.83-113.48				1	1	0.966961			
L16 113.48-113.25				1	1	0.966139			
L17 113.25-108.25				1	1	0.967202			
L18 108.25-103.25				1	1	0.969366			
L19 103.25-98.25				1	1	0.972606			
L20 98.25-93.25				1	1	0.976906			
L21 93.25-84.72				1	1	0.965141			
L22 84.72-83.72				1	1	1.04324			

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_r	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft ²	in							
L23 83.72-82.92				1	1	1.04087			
L24 82.92-82.67				1	1	0.922256			
L25 82.67-82.50				1	1	0.921738			
L26 82.50-82.25				1	1	1.08141			
L27 82.25-77.25				1	1	1.08491			
L28 77.25-73.42				1	1	1.09295			
L29 73.42-73.17				1	1	0.961846			
L30 73.17-68.17				1	1	0.971787			
L31 68.17-64.25				1	1	0.986366			
L32 64.25-64.00				1	1	0.959035			
L33 64.00-59.00				1	1	0.946652			
L34 59.00-54.00				1	1	0.966964			
L35 54.00-53.50				1	1	0.965772			
L36 53.50-53.25				1	1	0.967544			
L37 53.25-43.83				1	1	0.971274			
L38 43.83-42.83				1	1	1.07813			
L39 42.83-41.75				1	1	1.07551			
L40 41.75-41.50				1	1	1.08883			
L41 41.50-36.50				1	1	1.09372			
L42 36.50-32.75				1	1	1.0844			
L43 32.75-32.50				1	1	0.949583			
L44 32.50-29.73				1	1	0.938695			
L45 29.73-29.48				1	1	0.938154			
L46 29.48-28.25				1	1	0.948382			
L47 28.25-28.00				1	1	1.0017			
L48 28.00-23.00				1	1	0.98944			
L49 23.00-19.25				1	1	0.99334			
L50 19.25-19.00				1	1	0.958664			
L51 19.00-14.00				1	1	0.977942			
L52 14.00-9.00				1	1	0.968244			
L53 9.00-4.00				1	1	0.97385			
L54 4.00-0.00				1	1	0.981834			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

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

Safety Line 3/8	C	No	Surface Ar (CaAa)	168.50 - 10.00	1	1	0.250	0.3750		0.22
Step Pegs	C	No	Surface Ar (CaAa)	168.50 - 10.00	1	1	0.200 0.300	0.3500		0.45

CU12PSM9P6XXX(1-1/2)	B	No	Surface Ar (CaAa)	148.00 - 8.00	1	1	0.100 0.150	1.6000		2.35
LDF4-50A(1/2)	C	No	Surface Ar (CaAa)	70.00 - 8.00	1	1	-0.400 -0.385	0.6250		0.15

HB114-U6S12-XXX-LI(1-1/4)	A	No	Surface Ar (CaAa)	138.00 - 8.00	1	1	-0.300 -0.240	1.5400		1.70
HB158-1-08U8-S8J18(1-5/8)	A	No	Surface Ar (CaAa)	138.00 - 8.00	1	1	-0.360 -0.300	1.9800		1.30
MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	B	No	Surface Ar (CaAa)	128.00 - 8.00	3	3	-0.050 0.100	1.2500		0.68

PL0.625x5 Reinforcement - Wind Area/Weight	A	No	Surface Af (CaAa)	84.67 - 0.00	1	1	0.000 0.000	5.0000	11.2500	10.63
PL0.625x5 Reinforcement - Wind Area/Weight	C	No	Surface Af (CaAa)	84.67 - 0.00	1	1	0.000 0.000	5.0000	11.2500	10.63
PL0.625x5 Reinforcement - Wind Area/Weight	A	No	Surface Af (CaAa)	120.00 - 84.67	1	1	0.000 0.000	5.0000	11.2500	10.63
PL0.625x5 Reinforcement - Wind Area/Weight	B	No	Surface Af (CaAa)	120.00 - 84.67	1	1	0.000 0.000	5.0000	11.2500	10.63
PL0.625x5 Reinforcement - Wind Area/Weight	C	No	Surface Af (CaAa)	120.00 - 84.67	1	1	0.000 0.000	5.0000	11.2500	10.63

PL1.25x6 Reinforcement - Wind Area	A	No	Surface Af (CaAa)	30.75 - 0.00	1	1	0.000 0.000	6.0000	14.5000	0.00
PL1.25x6 Reinforcement - Wind Area	B	No	Surface Af (CaAa)	30.75 - 0.00	1	1	0.000 0.000	6.0000	14.5000	0.00
PL1.25x6 Reinforcement - Wind Area	C	No	Surface Af (CaAa)	30.75 - 0.00	2	2	0.000 0.000	6.0000	14.5000	0.00
PL1.25x6 Reinforcement - Wind Area	A	No	Surface Af (CaAa)	47.92 - 27.75	2	2	0.000 0.000	6.0000	14.5000	0.00
PL1.25x6 Reinforcement - Wind Area	B	No	Surface Af (CaAa)	47.92 - 27.75	1	1	0.000 0.000	6.0000	14.5000	0.00
PL1.25x6 Reinforcement - Wind Area	C	No	Surface Af (CaAa)	47.92 - 27.75	1	1	0.000 0.000	6.0000	14.5000	0.00
PL1.25x5 Reinforcement - Wind Area	A	No	Surface Af (CaAa)	75.42 - 45.38	2	2	0.000 0.000	5.0000	12.5000	0.00
PL1.25x5 Reinforcement - Wind Area	B	No	Surface Af (CaAa)	75.42 - 45.38	1	1	0.000 0.000	5.0000	12.5000	0.00
PL1.25x5 Reinforcement - Wind Area	C	No	Surface Af (CaAa)	75.42 - 45.38	1	1	0.000 0.000	5.0000	12.5000	0.00
PL1.25x5 Reinforcement - Wind Area	A	No	Surface Af (CaAa)	87.92 - 72.75	1	1	0.000 0.000	5.0000	12.5000	0.00

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
PL1.25x5 Reinforcement - Wind Area	B	No	Surface Af (CaAa)	87.92 - 72.75	1	1	0.000 0.000	5.0000	12.5000	0.00
PL1.25x5 Reinforcement - Wind Area	C	No	Surface Af (CaAa)	87.92 - 72.75	2	2	0.000 0.000	5.0000	12.5000	0.00
PL1.25x5 Reinforcement - Wind Area	A	No	Surface Af (CaAa)	115.83 - 85.83	1	1	0.000 0.000	5.0000	12.5000	0.00
PL1.25x5 Reinforcement - Wind Area	B	No	Surface Af (CaAa)	115.83 - 85.83	1	1	0.000 0.000	5.0000	12.5000	0.00
PL1.25x5 Reinforcement - Wind Area	C	No	Surface Af (CaAa)	115.83 - 85.83	1	1	0.000 0.000	5.0000	12.5000	0.00

CCI-SFP-060100	A	No	Surface Af (CaAa)	43.75 - 0.00	1	1	0.000 0.000	6.0000	14.0000	0.00
CCI-SFP-060100	B	No	Surface Af (CaAa)	43.75 - 0.00	2	2	0.000 0.000	6.0000	14.0000	0.00
CCI-SFP-060100	C	No	Surface Af (CaAa)	43.75 - 0.00	1	1	0.000 0.000	6.0000	14.0000	0.00
CCI-SFP-045100	A	No	Surface Af (CaAa)	84.33 - 43.75	1	1	0.000 0.000	4.5000	11.0000	0.00
CCI-SFP-045100	B	No	Surface Af (CaAa)	84.33 - 43.75	2	2	0.000 0.000	4.5000	11.0000	0.00
CCI-SFP-045100	C	No	Surface Af (CaAa)	84.33 - 43.75	1	1	0.000 0.000	4.5000	11.0000	0.00
CCI-SFP-045100	A	No	Surface Af (CaAa)	27.75 - 17.75	1	1	0.000 0.000	4.5000	11.0000	0.00
CCI-SFP-045100	B	No	Surface Af (CaAa)	27.75 - 17.75	1	1	0.000 0.000	4.5000	11.0000	0.00
CCI-SFP-045100	C	No	Surface Af (CaAa)	27.75 - 17.75	2	2	0.000 0.000	4.5000	11.0000	0.00
CCI-SFP-045100	A	No	Surface Af (CaAa)	72.75 - 62.75	1	1	0.000 0.000	4.5000	11.0000	0.00
CCI-SFP-045100	B	No	Surface Af (CaAa)	72.75 - 62.75	1	1	0.000 0.000	4.5000	11.0000	0.00
CCI-SFP-045100	C	No	Surface Af (CaAa)	72.75 - 62.75	2	2	0.000 0.000	4.5000	11.0000	0.00
CCI-SFP-045100	A	No	Surface Af (CaAa)	127.33 - 87.92	1	1	0.000 0.000	4.5000	11.0000	0.00
CCI-SFP-045100	B	No	Surface Af (CaAa)	127.33 - 87.92	1	1	0.000 0.000	4.5000	11.0000	0.00
CCI-SFP-045100	C	No	Surface Af (CaAa)	127.33 - 87.92	1	1	0.000 0.000	4.5000	11.0000	0.00

CCI-SFP-040125	A	No	Surface Af (CaAa)	122.00 - 112.00	1	1	0.000 0.000	4.0000	10.5000	0.00
CCI-SFP-040125	B	No	Surface Af (CaAa)	122.00 - 112.00	1	1	0.000 0.000	4.0000	10.5000	0.00
*										
CCI-SFP-050125	B	No	Surface Af (CaAa)	90.50 - 80.50	1	1	0.000 0.000	5.0000	12.5000	0.00
CCI-SFP-050125	C	No	Surface Af (CaAa)	90.50 - 80.50	1	1	0.000 0.000	5.0000	12.5000	0.00
*										
CCI-SFP-050125	B	No	Surface Af (CaAa)	55.50 - 45.50	1	1	0.000 0.000	5.0000	12.5000	0.00
CCI-SFP-050125	C	No	Surface Af (CaAa)	55.50 - 45.50	1	1	0.000 0.000	5.0000	12.5000	0.00
*										
CCI-SFP-065125	B	No	Surface Af (CaAa)	35.50 - 25.50	1	1	0.000 0.000	6.5000	15.5000	0.00
CCI-SFP-065125	C	No	Surface Af (CaAa)	35.50 - 25.50	1	1	0.000 0.000	6.5000	15.5000	0.00

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		$C_A A_A$ ft ² /ft	Weight plf
3/8" Ground Wire	A	No	No	Inside Pole	168.33 - 0.00	2	No Ice	0.00	0.08
							1/2" Ice	0.00	0.08
							1" Ice	0.00	0.08
							2" Ice	0.00	0.08

2" innerduct conduit	C	No	No	Inside Pole	168.00 - 8.00	3	No Ice	0.00	0.20
							1/2" Ice	0.00	0.20
							1" Ice	0.00	0.20
							2" Ice	0.00	0.20
LDF2-50(3/8)	C	No	No	Inside Pole	168.00 - 8.00	1	No Ice	0.00	0.08
							1/2" Ice	0.00	0.08
							1" Ice	0.00	0.08
							2" Ice	0.00	0.08
LDF7-50A(1-5/8)	C	No	No	Inside Pole	168.00 - 8.00	6	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
							2" Ice	0.00	0.82
FB-L98B-034- XXXXXX(3/8)	C	No	No	Inside Pole	168.00 - 8.00	2	No Ice	0.00	0.05
							1/2" Ice	0.00	0.05
							1" Ice	0.00	0.05
							2" Ice	0.00	0.05
WR-CAT5E10P(1)	C	No	No	Inside Pole	168.00 - 8.00	2	No Ice	0.00	0.41
							1/2" Ice	0.00	0.41
							1" Ice	0.00	0.41
							2" Ice	0.00	0.41
WR-VG86ST- BRDA(7/8)	C	No	No	Inside Pole	168.00 - 8.00	6	No Ice	0.00	0.68
							1/2" Ice	0.00	0.68
							1" Ice	0.00	0.68
							2" Ice	0.00	0.68

LDF6-50A(1-1/4)	C	No	No	Inside Pole	158.00 - 8.00	3	No Ice	0.00	0.60
							1/2" Ice	0.00	0.60
							1" Ice	0.00	0.60
							2" Ice	0.00	0.60
HB114-21U3M12- XXXF(1-1/4)	C	No	No	Inside Pole	158.00 - 8.00	1	No Ice	0.00	1.22
							1/2" Ice	0.00	1.22
							1" Ice	0.00	1.22
							2" Ice	0.00	1.22
LDF7-50A(1-5/8)	A	No	No	Inside Pole	138.00 - 8.00	6	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
							2" Ice	0.00	0.82

LDF7-50A(1-5/8)	B	No	No	Inside Pole	128.00 - 8.00	12	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
							2" Ice	0.00	0.82

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
L1	168.50-163.50	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.362	0.000	0.05
L2	163.50-158.50	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.362	0.000	0.06
L3	158.50-153.50	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L4	153.50-148.50	C	0.000	0.000	0.362	0.000	0.07
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
L5	148.50-143.50	C	0.000	0.000	0.362	0.000	0.07
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.720	0.000	0.01
L6	143.50-138.50	C	0.000	0.000	0.362	0.000	0.07
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.800	0.000	0.01
L7	138.50-130.67	C	0.000	0.000	0.362	0.000	0.07
		A	0.000	0.000	2.581	0.000	0.06
		B	0.000	0.000	1.253	0.000	0.02
L8	130.67-129.33	C	0.000	0.000	0.568	0.000	0.11
		A	0.000	0.000	0.472	0.000	0.01
		B	0.000	0.000	0.214	0.000	0.00
L9	129.33-125.75	C	0.000	0.000	0.097	0.000	0.02
		A	0.000	0.000	2.444	0.000	0.03
		B	0.000	0.000	2.601	0.000	0.04
L10	125.75-125.50	C	0.000	0.000	1.444	0.000	0.05
		A	0.000	0.000	0.276	0.000	0.00
		B	0.000	0.000	0.321	0.000	0.00
L11	125.50-120.50	C	0.000	0.000	0.206	0.000	0.00
		A	0.000	0.000	6.510	0.000	0.04
		B	0.000	0.000	7.425	0.000	0.07
L12	120.50-120.25	C	0.000	0.000	4.112	0.000	0.07
		A	0.000	0.000	0.442	0.000	0.00
		B	0.000	0.000	0.488	0.000	0.00
L13	120.25-115.25	C	0.000	0.000	0.206	0.000	0.00
		A	0.000	0.000	13.285	0.000	0.09
		B	0.000	0.000	14.200	0.000	0.12
L14	115.25-113.83	C	0.000	0.000	8.554	0.000	0.12
		A	0.000	0.000	4.868	0.000	0.03
		B	0.000	0.000	5.127	0.000	0.04
L15	113.83-113.48	C	0.000	0.000	3.527	0.000	0.04
		A	0.000	0.000	1.202	0.000	0.01
		B	0.000	0.000	1.266	0.000	0.01
L16	113.48-113.25	C	0.000	0.000	0.871	0.000	0.01
		A	0.000	0.000	0.800	0.000	0.00
		B	0.000	0.000	0.843	0.000	0.01
L17	113.25-108.25	C	0.000	0.000	0.580	0.000	0.01
		A	0.000	0.000	14.677	0.000	0.09
		B	0.000	0.000	15.592	0.000	0.12
L18	108.25-103.25	C	0.000	0.000	12.446	0.000	0.12
		A	0.000	0.000	13.843	0.000	0.09
		B	0.000	0.000	14.758	0.000	0.12
L19	103.25-98.25	C	0.000	0.000	12.446	0.000	0.12
		A	0.000	0.000	13.843	0.000	0.09
		B	0.000	0.000	14.758	0.000	0.12
L20	98.25-93.25	C	0.000	0.000	12.446	0.000	0.12
		A	0.000	0.000	13.843	0.000	0.09
		B	0.000	0.000	14.758	0.000	0.12
L21	93.25-84.72	C	0.000	0.000	12.446	0.000	0.12
		A	0.000	0.000	22.964	0.000	0.16
		B	0.000	0.000	29.207	0.000	0.21
L22	84.72-83.72	C	0.000	0.000	27.930	0.000	0.21
		A	0.000	0.000	2.478	0.000	0.02
		B	0.000	0.000	3.136	0.000	0.01
L23	83.72-82.92	C	0.000	0.000	3.842	0.000	0.02
		A	0.000	0.000	2.215	0.000	0.01
		B	0.000	0.000	2.942	0.000	0.01
L24	82.92-82.67	C	0.000	0.000	3.306	0.000	0.02
		A	0.000	0.000	0.692	0.000	0.00
		B	0.000	0.000	0.919	0.000	0.00
L25	82.67-82.50	C	0.000	0.000	1.033	0.000	0.01
		A	0.000	0.000	0.462	0.000	0.00
		B	0.000	0.000	0.614	0.000	0.00
L26	82.50-82.25	C	0.000	0.000	0.690	0.000	0.00
		A	0.000	0.000	0.692	0.000	0.00
		B	0.000	0.000	0.919	0.000	0.00

Tower Section	Tower Elevation	Face	A _R	A _F	C _A A _A In Face	C _A A _A Out Face	Weight
n	ft		ft ²	ft ²	ft ²	ft ²	K
L27	82.25-77.25	C	0.000	0.000	1.033	0.000	0.01
		A	0.000	0.000	13.843	0.000	0.09
		B	0.000	0.000	15.758	0.000	0.07
L28	77.25-73.42	C	0.000	0.000	18.029	0.000	0.12
		A	0.000	0.000	13.951	0.000	0.07
		B	0.000	0.000	12.663	0.000	0.05
		C	0.000	0.000	14.404	0.000	0.10
L29	73.42-73.17	A	0.000	0.000	1.109	0.000	0.00
		B	0.000	0.000	0.925	0.000	0.00
		C	0.000	0.000	1.039	0.000	0.01
L30	73.17-68.17	A	0.000	0.000	21.795	0.000	0.09
		B	0.000	0.000	18.126	0.000	0.07
		C	0.000	0.000	20.130	0.000	0.12
L31	68.17-64.25	A	0.000	0.000	17.047	0.000	0.07
		B	0.000	0.000	14.173	0.000	0.06
		C	0.000	0.000	15.870	0.000	0.10
L32	64.25-64.00	A	0.000	0.000	1.088	0.000	0.00
		B	0.000	0.000	0.905	0.000	0.00
		C	0.000	0.000	1.013	0.000	0.01
L33	64.00-59.00	A	0.000	0.000	18.948	0.000	0.09
		B	0.000	0.000	15.279	0.000	0.07
		C	0.000	0.000	14.633	0.000	0.13
L34	59.00-54.00	A	0.000	0.000	18.010	0.000	0.09
		B	0.000	0.000	15.556	0.000	0.07
		C	0.000	0.000	13.973	0.000	0.13
L35	54.00-53.50	A	0.000	0.000	1.801	0.000	0.01
		B	0.000	0.000	1.839	0.000	0.01
		C	0.000	0.000	1.681	0.000	0.01
L36	53.50-53.25	A	0.000	0.000	0.900	0.000	0.00
		B	0.000	0.000	0.919	0.000	0.00
		C	0.000	0.000	0.840	0.000	0.01
L37	53.25-43.83	A	0.000	0.000	39.548	0.000	0.18
		B	0.000	0.000	36.105	0.000	0.13
		C	0.000	0.000	33.121	0.000	0.24
L38	43.83-42.83	A	0.000	0.000	4.166	0.000	0.02
		B	0.000	0.000	3.497	0.000	0.01
		C	0.000	0.000	2.949	0.000	0.03
L39	42.83-41.75	A	0.000	0.000	4.508	0.000	0.02
		B	0.000	0.000	3.807	0.000	0.02
		C	0.000	0.000	3.197	0.000	0.03
L40	41.75-41.50	A	0.000	0.000	1.046	0.000	0.00
		B	0.000	0.000	0.884	0.000	0.00
		C	0.000	0.000	0.742	0.000	0.01
L41	41.50-36.50	A	0.000	0.000	20.927	0.000	0.09
		B	0.000	0.000	17.675	0.000	0.07
		C	0.000	0.000	14.842	0.000	0.13
L42	36.50-32.75	A	0.000	0.000	15.695	0.000	0.07
		B	0.000	0.000	15.894	0.000	0.05
		C	0.000	0.000	13.769	0.000	0.09
L43	32.75-32.50	A	0.000	0.000	1.046	0.000	0.00
		B	0.000	0.000	1.124	0.000	0.00
		C	0.000	0.000	0.982	0.000	0.01
L44	32.50-29.73	A	0.000	0.000	12.598	0.000	0.05
		B	0.000	0.000	13.453	0.000	0.04
		C	0.000	0.000	12.902	0.000	0.07
L45	29.73-29.48	A	0.000	0.000	1.296	0.000	0.00
		B	0.000	0.000	1.374	0.000	0.00
		C	0.000	0.000	1.482	0.000	0.01
L46	29.48-28.25	A	0.000	0.000	6.394	0.000	0.02
		B	0.000	0.000	6.774	0.000	0.02
		C	0.000	0.000	7.309	0.000	0.03
L47	28.25-28.00	A	0.000	0.000	1.296	0.000	0.00
		B	0.000	0.000	1.374	0.000	0.00
		C	0.000	0.000	1.482	0.000	0.01
L48	28.00-23.00	A	0.000	0.000	19.989	0.000	0.09
		B	0.000	0.000	23.886	0.000	0.07
		C	0.000	0.000	29.615	0.000	0.13
L49	23.00-19.25	A	0.000	0.000	14.758	0.000	0.07
		B	0.000	0.000	16.069	0.000	0.05

Tower Section	Tower Elevation	Face	A _R	A _F	C _A A _A In Face	C _A A _A Out Face	Weight
n	ft		ft ²	ft ²	ft ²	ft ²	K
L50	19.25-19.00	C	0.000	0.000	20.506	0.000	0.09
		A	0.000	0.000	0.984	0.000	0.00
		B	0.000	0.000	1.071	0.000	0.00
L51	19.00-14.00	C	0.000	0.000	1.367	0.000	0.01
		A	0.000	0.000	16.864	0.000	0.09
		B	0.000	0.000	18.613	0.000	0.07
L52	14.00-9.00	C	0.000	0.000	21.717	0.000	0.13
		A	0.000	0.000	15.927	0.000	0.09
		B	0.000	0.000	17.675	0.000	0.07
L53	9.00-4.00	C	0.000	0.000	19.769	0.000	0.12
		A	0.000	0.000	14.519	0.000	0.06
		B	0.000	0.000	15.535	0.000	0.01
L54	4.00-0.00	C	0.000	0.000	19.229	0.000	0.07
		A	0.000	0.000	11.333	0.000	0.04
		B	0.000	0.000	12.000	0.000	0.00
		C	0.000	0.000	15.333	0.000	0.04

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation	Face or Leg	Ice Thickness	A _R	A _F	C _A A _A In Face	C _A A _A Out Face	Weight
n	ft		in	ft ²	ft ²	ft ²	ft ²	K
L1	168.50-163.50	A	1.998	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	4.359	0.000	0.11
L2	163.50-158.50	A	1.992	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	4.346	0.000	0.11
L3	158.50-153.50	A	1.986	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	4.334	0.000	0.13
L4	153.50-148.50	A	1.979	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	4.321	0.000	0.13
L5	148.50-143.50	A	1.973	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	2.495	0.000	0.05
		C		0.000	0.000	4.308	0.000	0.13
L6	143.50-138.50	A	1.966	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	2.766	0.000	0.05
		C		0.000	0.000	4.294	0.000	0.13
L7	138.50-130.67	A	1.957	0.000	0.000	8.320	0.000	0.19
		B		0.000	0.000	4.318	0.000	0.08
		C		0.000	0.000	6.698	0.000	0.20
L8	130.67-129.33	A	1.950	0.000	0.000	1.520	0.000	0.03
		B		0.000	0.000	0.739	0.000	0.01
		C		0.000	0.000	1.146	0.000	0.03
L9	129.33-125.75	A	1.946	0.000	0.000	5.844	0.000	0.11
		B		0.000	0.000	5.914	0.000	0.11
		C		0.000	0.000	4.844	0.000	0.11
L10	125.75-125.50	A	1.943	0.000	0.000	0.567	0.000	0.01
		B		0.000	0.000	0.660	0.000	0.01
		C		0.000	0.000	0.497	0.000	0.01
L11	125.50-120.50	A	1.939	0.000	0.000	12.690	0.000	0.22
		B		0.000	0.000	14.558	0.000	0.26
		C		0.000	0.000	9.930	0.000	0.20
L12	120.50-120.25	A	1.935	0.000	0.000	0.793	0.000	0.01
		B		0.000	0.000	0.886	0.000	0.02
		C		0.000	0.000	0.496	0.000	0.01
L13	120.25-115.25	A	1.931	0.000	0.000	22.339	0.000	0.39
		B		0.000	0.000	24.206	0.000	0.43
		C		0.000	0.000	16.404	0.000	0.32
L14	115.25-113.83	A	1.925	0.000	0.000	7.937	0.000	0.13
		B		0.000	0.000	8.465	0.000	0.14
		C		0.000	0.000	6.255	0.000	0.11
L15	113.83-113.48	A	1.924	0.000	0.000	1.960	0.000	0.03
		B		0.000	0.000	2.090	0.000	0.04

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L16	113.48-113.25	C	1.923	0.000	0.000	1.545	0.000	0.03
		A		0.000	0.000	1.305	0.000	0.02
		B		0.000	0.000	1.391	0.000	0.02
L17	113.25-108.25	C	1.919	0.000	0.000	1.028	0.000	0.02
		A		0.000	0.000	24.570	0.000	0.41
		B		0.000	0.000	26.434	0.000	0.45
L18	108.25-103.25	C	1.910	0.000	0.000	22.040	0.000	0.39
		A		0.000	0.000	23.393	0.000	0.39
		B		0.000	0.000	25.254	0.000	0.43
L19	103.25-98.25	C	1.901	0.000	0.000	21.996	0.000	0.39
		A		0.000	0.000	23.347	0.000	0.39
		B		0.000	0.000	25.206	0.000	0.43
L20	98.25-93.25	C	1.891	0.000	0.000	21.949	0.000	0.39
		A		0.000	0.000	23.299	0.000	0.38
		B		0.000	0.000	25.155	0.000	0.43
L21	93.25-84.72	C	1.877	0.000	0.000	21.901	0.000	0.38
		A		0.000	0.000	38.433	0.000	0.64
		B		0.000	0.000	47.416	0.000	0.79
L22	84.72-83.72	C	1.867	0.000	0.000	38.129	0.000	0.74
		A		0.000	0.000	4.170	0.000	0.07
		B		0.000	0.000	3.706	0.000	0.08
L23	83.72-82.92	C	1.865	0.000	0.000	3.729	0.000	0.09
		A		0.000	0.000	3.675	0.000	0.06
		B		0.000	0.000	2.912	0.000	0.06
L24	82.92-82.67	C	1.864	0.000	0.000	3.322	0.000	0.08
		A		0.000	0.000	1.148	0.000	0.02
		B		0.000	0.000	0.910	0.000	0.02
L25	82.67-82.50	C	1.863	0.000	0.000	1.038	0.000	0.02
		A		0.000	0.000	0.767	0.000	0.01
		B		0.000	0.000	0.608	0.000	0.01
L26	82.50-82.25	C	1.863	0.000	0.000	0.693	0.000	0.02
		A		0.000	0.000	1.148	0.000	0.02
		B		0.000	0.000	0.910	0.000	0.02
L27	82.25-77.25	C	1.857	0.000	0.000	1.038	0.000	0.02
		A		0.000	0.000	22.931	0.000	0.38
		B		0.000	0.000	14.907	0.000	0.36
L28	77.25-73.42	C	1.846	0.000	0.000	17.464	0.000	0.44
		A		0.000	0.000	17.543	0.000	0.33
		B		0.000	0.000	12.467	0.000	0.28
L29	73.42-73.17	C	1.841	0.000	0.000	14.417	0.000	0.34
		A		0.000	0.000	1.143	0.000	0.02
		B		0.000	0.000	0.956	0.000	0.02
L30	73.17-68.17	C	1.834	0.000	0.000	1.083	0.000	0.02
		A		0.000	0.000	21.867	0.000	0.47
		B		0.000	0.000	18.125	0.000	0.39
L31	68.17-64.25	C	1.823	0.000	0.000	22.405	0.000	0.48
		A		0.000	0.000	17.020	0.000	0.37
		B		0.000	0.000	14.095	0.000	0.31
L32	64.25-64.00	C	1.817	0.000	0.000	18.562	0.000	0.39
		A		0.000	0.000	1.085	0.000	0.02
		B		0.000	0.000	0.899	0.000	0.02
L33	64.00-59.00	C	1.809	0.000	0.000	1.183	0.000	0.02
		A		0.000	0.000	18.101	0.000	0.42
		B		0.000	0.000	14.378	0.000	0.34
L34	59.00-54.00	C	1.794	0.000	0.000	23.613	0.000	0.42
		A		0.000	0.000	16.852	0.000	0.40
		B		0.000	0.000	14.638	0.000	0.34
L35	54.00-53.50	C	1.785	0.000	0.000	25.019	0.000	0.41
		A		0.000	0.000	1.682	0.000	0.04
		B		0.000	0.000	1.810	0.000	0.04
L36	53.50-53.25	C	1.784	0.000	0.000	2.845	0.000	0.05
		A		0.000	0.000	0.841	0.000	0.02
		B		0.000	0.000	0.905	0.000	0.02
L37	53.25-43.83	C	1.767	0.000	0.000	1.422	0.000	0.02
		A		0.000	0.000	31.555	0.000	0.80
		B		0.000	0.000	36.014	0.000	0.74
L38	43.83-42.83	C	1.747	0.000	0.000	55.437	0.000	0.87
		A		0.000	0.000	3.579	0.000	0.08
		B		0.000	0.000	2.777	0.000	0.07

Tower Section	Tower Elevation	Face or Leg	Ice Thickness	A _R	A _F	C _A A _A In Face	C _A A _A Out Face	Weight
n	ft		in	ft ²	ft ²	ft ²	ft ²	K
L39	42.83-41.75	C		0.000	0.000	5.069	0.000	0.08
		A	1.743	0.000	0.000	3.855	0.000	0.09
		B		0.000	0.000	2.974	0.000	0.07
		C		0.000	0.000	5.449	0.000	0.09
L40	41.75-41.50	A	1.740	0.000	0.000	0.894	0.000	0.02
		B		0.000	0.000	0.690	0.000	0.02
		C		0.000	0.000	1.264	0.000	0.02
L41	41.50-36.50	A	1.729	0.000	0.000	17.841	0.000	0.41
		B		0.000	0.000	13.762	0.000	0.34
		C		0.000	0.000	25.213	0.000	0.39
L42	36.50-32.75	A	1.708	0.000	0.000	13.320	0.000	0.30
		B		0.000	0.000	13.410	0.000	0.29
		C		0.000	0.000	21.957	0.000	0.33
L43	32.75-32.50	A	1.698	0.000	0.000	0.886	0.000	0.02
		B		0.000	0.000	0.968	0.000	0.02
		C		0.000	0.000	1.537	0.000	0.02
L44	32.50-29.73	A	1.690	0.000	0.000	11.149	0.000	0.23
		B		0.000	0.000	12.060	0.000	0.24
		C		0.000	0.000	16.978	0.000	0.28
L45	29.73-29.48	A	1.682	0.000	0.000	1.217	0.000	0.02
		B		0.000	0.000	1.299	0.000	0.02
		C		0.000	0.000	1.531	0.000	0.03
L46	29.48-28.25	A	1.677	0.000	0.000	5.996	0.000	0.11
		B		0.000	0.000	6.403	0.000	0.11
		C		0.000	0.000	7.545	0.000	0.14
L47	28.25-28.00	A	1.673	0.000	0.000	1.215	0.000	0.02
		B		0.000	0.000	1.297	0.000	0.02
		C		0.000	0.000	1.528	0.000	0.03
L48	28.00-23.00	A	1.657	0.000	0.000	28.651	0.000	0.41
		B		0.000	0.000	21.142	0.000	0.41
		C		0.000	0.000	21.298	0.000	0.54
L49	23.00-19.25	A	1.626	0.000	0.000	21.536	0.000	0.30
		B		0.000	0.000	13.565	0.000	0.28
		C		0.000	0.000	13.478	0.000	0.37
L50	19.25-19.00	A	1.610	0.000	0.000	1.431	0.000	0.02
		B		0.000	0.000	0.901	0.000	0.02
		C		0.000	0.000	0.895	0.000	0.02
L51	19.00-14.00	A	1.586	0.000	0.000	25.017	0.000	0.35
		B		0.000	0.000	14.458	0.000	0.32
		C		0.000	0.000	17.772	0.000	0.42
L52	14.00-9.00	A	1.530	0.000	0.000	23.576	0.000	0.32
		B		0.000	0.000	13.116	0.000	0.30
		C		0.000	0.000	16.806	0.000	0.38
L53	9.00-4.00	A	1.445	0.000	0.000	19.431	0.000	0.23
		B		0.000	0.000	7.724	0.000	0.17
		C		0.000	0.000	12.408	0.000	0.26
L54	4.00-0.00	A	1.284	0.000	0.000	14.415	0.000	0.15
		B		0.000	0.000	5.027	0.000	0.10
		C		0.000	0.000	9.388	0.000	0.18

Feed Line Center of Pressure

Section	Elevation	CP _x	CP _z	CP _x	CP _z
	ft	in	in	Ice in	Ice in
L1	168.50-163.50	-0.2823	0.4889	-1.3304	2.3043
L2	163.50-158.50	-0.2827	0.4896	-1.3489	2.3363
L3	158.50-153.50	-0.2831	0.4903	-1.3661	2.3662
L4	153.50-148.50	-0.2835	0.4910	-1.3822	2.3940
L5	148.50-143.50	0.7885	0.1673	0.2218	1.7348
L6	143.50-138.50	0.8960	0.1365	0.3781	1.6923
L7	138.50-130.67	-1.1325	0.3018	-2.2955	1.6600
L8	130.67-129.33	-1.2294	0.3100	-2.4550	1.6704
L9	129.33-125.75	-0.0828	-0.1700	-0.7990	0.6963
L10	125.75-125.50	0.2573	-0.2869	-0.2122	0.3305

Section	Elevation	CP _x	CP _z	CP _x	CP _z
	ft	in	in	Ice in	Ice in
L11	125.50-120.50	0.2422	-0.7610	-0.2035	-0.0221
L12	120.50-120.25	0.2107	-1.6432	-0.1842	-0.7305
L13	120.25-115.25	0.1522	-1.1860	-0.1414	-0.5635
L14	115.25-113.83	0.1237	-0.9633	-0.1182	-0.4741
L15	113.83-113.48	0.1243	-0.9677	-0.1186	-0.4764
L16	113.48-113.25	0.1245	-0.9692	-0.1187	-0.4772
L17	113.25-108.25	0.1380	-0.3810	-0.1285	0.0243
L18	108.25-103.25	0.1461	-0.1619	-0.1336	0.2122
L19	103.25-98.25	0.1497	-0.1657	-0.1354	0.2161
L20	98.25-93.25	0.1532	-0.1694	-0.1371	0.2199
L21	93.25-84.72	0.8196	0.6833	0.3758	0.1256
L22	84.72-83.72	0.7405	1.8282	-0.7672	0.4414
L23	83.72-82.92	0.9592	1.5134	-1.0664	0.6134
L24	82.92-82.67	0.9616	1.5171	-1.0688	0.6147
L25	82.67-82.50	0.9624	1.5185	-1.0696	0.6152
L26	82.50-82.25	0.9631	1.5196	-1.0703	0.6155
L27	82.25-77.25	0.4027	1.2937	-1.6740	0.3657
L28	77.25-73.42	-0.4559	0.7207	-1.3683	0.4654
L29	73.42-73.17	-0.8208	0.4108	-0.8645	0.6531
L30	73.17-68.17	-0.8257	0.3423	-0.7935	0.9176
L31	68.17-64.25	-0.8046	0.3725	-0.6387	1.0845
L32	64.25-64.00	-0.8114	0.3757	-0.6435	1.0917
L33	64.00-59.00	-0.9709	-0.3996	-0.7365	1.9229
L34	59.00-54.00	-0.6769	-0.5145	-0.5025	2.3599
L35	54.00-53.50	0.0881	-0.0631	0.0864	2.5427
L36	53.50-53.25	0.0882	-0.0632	0.0867	2.5461
L37	53.25-43.83	-0.4534	-0.3703	0.2555	2.5650
L38	43.83-42.83	-0.8779	-0.9669	-0.8055	2.3825
L39	42.83-41.75	-0.8514	-0.9791	-0.8204	2.3867
L40	41.75-41.50	-0.8535	-0.9814	-0.8221	2.3915
L41	41.50-36.50	-0.8615	-0.9906	-0.8287	2.4101
L42	36.50-32.75	0.0561	-0.4203	-0.0939	2.6459
L43	32.75-32.50	0.3523	-0.2372	0.1500	2.7286
L44	32.50-29.73	0.3230	0.2394	0.1410	2.1232
L45	29.73-29.48	0.2820	0.8919	0.1273	1.2507
L46	29.48-28.25	0.2827	0.8942	0.1280	1.2530
L47	28.25-28.00	0.2835	0.8966	0.1288	1.2554
L48	28.00-23.00	0.8118	2.1530	-1.2209	-0.1673
L49	23.00-19.25	0.3884	2.0880	-1.7996	-0.5183
L50	19.25-19.00	0.3910	2.1021	-1.8101	-0.5264
L51	19.00-14.00	0.4570	1.5913	-2.0459	0.1265
L52	14.00-9.00	0.5025	1.3814	-2.1003	0.2412
L53	9.00-4.00	0.3352	1.6036	-2.7121	-0.1731
L54	4.00-0.00	0.2774	1.6965	-2.9696	-0.1388

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

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L1	2	Safety Line 3/8	163.50 - 168.50	1.0000	1.0000
L1	3	Step Pegs	163.50 - 168.50	1.0000	1.0000
L2	2	Safety Line 3/8	158.50 - 163.50	1.0000	1.0000
L2	3	Step Pegs	158.50 - 163.50	1.0000	1.0000
L3	2	Safety Line 3/8	153.50 - 158.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L3	3	Step Pegs	153.50 - 158.50	1.0000	1.0000
L4	2	Safety Line 3/8	148.50 - 153.50	1.0000	1.0000
L4	3	Step Pegs	148.50 - 153.50	1.0000	1.0000
L5	2	Safety Line 3/8	143.50 - 148.50	1.0000	1.0000
L5	3	Step Pegs	143.50 - 148.50	1.0000	1.0000
L5	13	CU12PSM9P6XXX(1-1/2)	143.50 - 148.00	1.0000	1.0000
L6	2	Safety Line 3/8	138.50 - 143.50	1.0000	1.0000
L6	3	Step Pegs	138.50 - 143.50	1.0000	1.0000
L6	13	CU12PSM9P6XXX(1-1/2)	138.50 - 143.50	1.0000	1.0000
L7	2	Safety Line 3/8	130.67 - 138.50	1.0000	1.0000
L7	3	Step Pegs	130.67 - 138.50	1.0000	1.0000
L7	13	CU12PSM9P6XXX(1-1/2)	130.67 - 138.50	1.0000	1.0000
L7	19	HB114-U6S12-XXX-LI(1-1/4)	130.67 - 138.00	1.0000	1.0000
L7	20	HB158-1-08U8-S8J18(1-5/8)	130.67 - 138.00	1.0000	1.0000
L8	2	Safety Line 3/8	129.33 - 130.67	1.0000	1.0000
L8	3	Step Pegs	129.33 - 130.67	1.0000	1.0000
L8	13	CU12PSM9P6XXX(1-1/2)	129.33 - 130.67	1.0000	1.0000
L8	19	HB114-U6S12-XXX-LI(1-1/4)	129.33 - 130.67	1.0000	1.0000
L8	20	HB158-1-08U8-S8J18(1-5/8)	129.33 - 130.67	1.0000	1.0000
L9	2	Safety Line 3/8	125.75 - 129.33	1.0000	1.0000
L9	3	Step Pegs	125.75 - 129.33	1.0000	1.0000
L9	13	CU12PSM9P6XXX(1-1/2)	125.75 - 129.33	1.0000	1.0000
L9	19	HB114-U6S12-XXX-LI(1-1/4)	125.75 - 129.33	1.0000	1.0000
L9	20	HB158-1-08U8-S8J18(1-5/8)	125.75 - 129.33	1.0000	1.0000
L9	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	125.75 - 128.00	1.0000	1.0000
L9	60	CCI-SFP-045100	125.75 - 127.33	1.0000	1.0000
L9	61	CCI-SFP-045100	125.75 - 127.33	1.0000	1.0000
L9	62	CCI-SFP-045100	125.75 - 127.33	1.0000	1.0000
L10	2	Safety Line 3/8	125.50 - 125.75	1.0000	1.0000
L10	3	Step Pegs	125.50 - 125.75	1.0000	1.0000
L10	13	CU12PSM9P6XXX(1-1/2)	125.50 - 125.75	1.0000	1.0000
L10	19	HB114-U6S12-XXX-LI(1-1/4)	125.50 - 125.75	1.0000	1.0000
L10	20	HB158-1-08U8-S8J18(1-5/8)	125.50 - 125.75	1.0000	1.0000
L10	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	125.50 - 125.75	1.0000	1.0000
L10	60	CCI-SFP-045100	125.50 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L10	61	CCI-SFP-045100	125.75 125.50 - 125.75	1.0000	1.0000
L10	62	CCI-SFP-045100	125.50 - 125.75	1.0000	1.0000
L11	2	Safety Line 3/8	120.50 - 125.50	1.0000	1.0000
L11	3	Step Pegs	120.50 - 125.50	1.0000	1.0000
L11	13	CU12PSM9P6XXX(1-1/2)	120.50 - 125.50	1.0000	1.0000
L11	19	HB114-U6S12-XXX-LI(1-1/4)	120.50 - 125.50	1.0000	1.0000
L11	20	HB158-1-08U8-S8J18(1-5/8)	120.50 - 125.50	1.0000	1.0000
L11	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	120.50 - 125.50	1.0000	1.0000
L11	60	CCI-SFP-045100	120.50 - 125.50	1.0000	1.0000
L11	61	CCI-SFP-045100	120.50 - 125.50	1.0000	1.0000
L11	62	CCI-SFP-045100	120.50 - 125.50	1.0000	1.0000
L11	64	CCI-SFP-040125	120.50 - 122.00	1.0000	1.0000
L11	65	CCI-SFP-040125	120.50 - 122.00	1.0000	1.0000
L12	2	Safety Line 3/8	120.25 - 120.50	1.0000	1.0000
L12	3	Step Pegs	120.25 - 120.50	1.0000	1.0000
L12	13	CU12PSM9P6XXX(1-1/2)	120.25 - 120.50	1.0000	1.0000
L12	19	HB114-U6S12-XXX-LI(1-1/4)	120.25 - 120.50	1.0000	1.0000
L12	20	HB158-1-08U8-S8J18(1-5/8)	120.25 - 120.50	1.0000	1.0000
L12	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	120.25 - 120.50	1.0000	1.0000
L12	60	CCI-SFP-045100	120.25 - 120.50	1.0000	1.0000
L12	61	CCI-SFP-045100	120.25 - 120.50	1.0000	1.0000
L12	62	CCI-SFP-045100	120.25 - 120.50	1.0000	1.0000
L12	64	CCI-SFP-040125	120.25 - 120.50	1.0000	1.0000
L12	65	CCI-SFP-040125	120.25 - 120.50	1.0000	1.0000
L13	2	Safety Line 3/8	115.25 - 120.25	1.0000	1.0000
L13	3	Step Pegs	115.25 - 120.25	1.0000	1.0000
L13	13	CU12PSM9P6XXX(1-1/2)	115.25 - 120.25	1.0000	1.0000
L13	19	HB114-U6S12-XXX-LI(1-1/4)	115.25 - 120.25	1.0000	1.0000
L13	20	HB158-1-08U8-S8J18(1-5/8)	115.25 - 120.25	1.0000	1.0000
L13	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	115.25 - 120.25	1.0000	1.0000
L13	28	PL0.625x5 Reinforcement - Wind Area/Weight	115.25 - 120.00	1.0000	1.0000
L13	29	PL0.625x5 Reinforcement - Wind Area/Weight	115.25 - 120.00	1.0000	1.0000
L13	30	PL0.625x5 Reinforcement - Wind Area/Weight	115.25 - 120.00	1.0000	1.0000
L13	44	PL1.25x5 Reinforcement - Wind Area	115.25 - 115.83	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L13	45	PL1.25x5 Reinforcement - Wind Area	115.25 - 115.83	1.0000	1.0000
L13	46	PL1.25x5 Reinforcement - Wind Area	115.25 - 115.83	1.0000	1.0000
L13	60	CCI-SFP-045100	115.25 - 120.25	1.0000	1.0000
L13	61	CCI-SFP-045100	115.25 - 120.25	1.0000	1.0000
L13	62	CCI-SFP-045100	115.25 - 120.25	1.0000	1.0000
L13	64	CCI-SFP-040125	115.25 - 120.25	1.0000	1.0000
L13	65	CCI-SFP-040125	115.25 - 120.25	1.0000	1.0000
L14	2	Safety Line 3/8	113.83 - 115.25	1.0000	1.0000
L14	3	Step Pegs	113.83 - 115.25	1.0000	1.0000
L14	13	CU12PSM9P6XXX(1-1/2)	113.83 - 115.25	1.0000	1.0000
L14	19	HB114-U6S12-XXX-LI(1-1/4)	113.83 - 115.25	1.0000	1.0000
L14	20	HB158-1-08U8-S8J18(1-5/8)	113.83 - 115.25	1.0000	1.0000
L14	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	113.83 - 115.25	1.0000	1.0000
L14	28	PL0.625x5 Reinforcement - Wind Area/Weight	113.83 - 115.25	1.0000	1.0000
L14	29	PL0.625x5 Reinforcement - Wind Area/Weight	113.83 - 115.25	1.0000	1.0000
L14	30	PL0.625x5 Reinforcement - Wind Area/Weight	113.83 - 115.25	1.0000	1.0000
L14	44	PL1.25x5 Reinforcement - Wind Area	113.83 - 115.25	1.0000	1.0000
L14	45	PL1.25x5 Reinforcement - Wind Area	113.83 - 115.25	1.0000	1.0000
L14	46	PL1.25x5 Reinforcement - Wind Area	113.83 - 115.25	1.0000	1.0000
L14	60	CCI-SFP-045100	113.83 - 115.25	1.0000	1.0000
L14	61	CCI-SFP-045100	113.83 - 115.25	1.0000	1.0000
L14	62	CCI-SFP-045100	113.83 - 115.25	1.0000	1.0000
L14	64	CCI-SFP-040125	113.83 - 115.25	1.0000	1.0000
L14	65	CCI-SFP-040125	113.83 - 115.25	1.0000	1.0000
L15	2	Safety Line 3/8	113.48 - 113.83	1.0000	1.0000
L15	3	Step Pegs	113.48 - 113.83	1.0000	1.0000
L15	13	CU12PSM9P6XXX(1-1/2)	113.48 - 113.83	1.0000	1.0000
L15	19	HB114-U6S12-XXX-LI(1-1/4)	113.48 - 113.83	1.0000	1.0000
L15	20	HB158-1-08U8-S8J18(1-5/8)	113.48 - 113.83	1.0000	1.0000
L15	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	113.48 - 113.83	1.0000	1.0000
L15	28	PL0.625x5 Reinforcement - Wind Area/Weight	113.48 - 113.83	1.0000	1.0000
L15	29	PL0.625x5 Reinforcement - Wind Area/Weight	113.48 - 113.83	1.0000	1.0000
L15	30	PL0.625x5 Reinforcement - Wind Area/Weight	113.48 - 113.83	1.0000	1.0000
L15	44	PL1.25x5 Reinforcement - Wind Area	113.48 - 113.83	1.0000	1.0000
L15	45	PL1.25x5 Reinforcement -	113.48 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L15	46	Wind Area PL1.25x5 Reinforcement - Wind Area	113.83 113.48 - 113.83	1.0000	1.0000
L15	60	CCI-SFP-045100	113.48 - 113.83	1.0000	1.0000
L15	61	CCI-SFP-045100	113.48 - 113.83	1.0000	1.0000
L15	62	CCI-SFP-045100	113.48 - 113.83	1.0000	1.0000
L15	64	CCI-SFP-040125	113.48 - 113.83	1.0000	1.0000
L15	65	CCI-SFP-040125	113.48 - 113.83	1.0000	1.0000
L16	2	Safety Line 3/8	113.25 - 113.48	1.0000	1.0000
L16	3	Step Pegs	113.25 - 113.48	1.0000	1.0000
L16	13	CU12PSM9P6XXX(1-1/2)	113.25 - 113.48	1.0000	1.0000
L16	19	HB114-U6S12-XXX-LI(1- 1/4)	113.25 - 113.48	1.0000	1.0000
L16	20	HB158-1-08U8-S8J18(1- 5/8)	113.25 - 113.48	1.0000	1.0000
L16	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	113.25 - 113.48	1.0000	1.0000
L16	28	PL0.625x5 Reinforcement - Wind Area/Weight	113.25 - 113.48	1.0000	1.0000
L16	29	PL0.625x5 Reinforcement - Wind Area/Weight	113.25 - 113.48	1.0000	1.0000
L16	30	PL0.625x5 Reinforcement - Wind Area/Weight	113.25 - 113.48	1.0000	1.0000
L16	44	PL1.25x5 Reinforcement - Wind Area	113.25 - 113.48	1.0000	1.0000
L16	45	PL1.25x5 Reinforcement - Wind Area	113.25 - 113.48	1.0000	1.0000
L16	46	PL1.25x5 Reinforcement - Wind Area	113.25 - 113.48	1.0000	1.0000
L16	60	CCI-SFP-045100	113.25 - 113.48	1.0000	1.0000
L16	61	CCI-SFP-045100	113.25 - 113.48	1.0000	1.0000
L16	62	CCI-SFP-045100	113.25 - 113.48	1.0000	1.0000
L16	64	CCI-SFP-040125	113.25 - 113.48	1.0000	1.0000
L16	65	CCI-SFP-040125	113.25 - 113.48	1.0000	1.0000
L17	2	Safety Line 3/8	108.25 - 113.25	1.0000	1.0000
L17	3	Step Pegs	108.25 - 113.25	1.0000	1.0000
L17	13	CU12PSM9P6XXX(1-1/2)	108.25 - 113.25	1.0000	1.0000
L17	19	HB114-U6S12-XXX-LI(1- 1/4)	108.25 - 113.25	1.0000	1.0000
L17	20	HB158-1-08U8-S8J18(1- 5/8)	108.25 - 113.25	1.0000	1.0000
L17	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	108.25 - 113.25	1.0000	1.0000
L17	28	PL0.625x5 Reinforcement - Wind Area/Weight	108.25 - 113.25	1.0000	1.0000
L17	29	PL0.625x5 Reinforcement - Wind Area/Weight	108.25 - 113.25	1.0000	1.0000
L17	30	PL0.625x5 Reinforcement - Wind Area/Weight	108.25 - 113.25	1.0000	1.0000
L17	44	PL1.25x5 Reinforcement - Wind Area	108.25 - 113.25	1.0000	1.0000
L17	45	PL1.25x5 Reinforcement - Wind Area	108.25 - 113.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L17	46	PL1.25x5 Reinforcement - Wind Area	108.25 - 113.25	1.0000	1.0000
L17	60	CCI-SFP-045100	108.25 - 113.25	1.0000	1.0000
L17	61	CCI-SFP-045100	108.25 - 113.25	1.0000	1.0000
L17	62	CCI-SFP-045100	108.25 - 113.25	1.0000	1.0000
L17	64	CCI-SFP-040125	112.00 - 113.25	1.0000	1.0000
L17	65	CCI-SFP-040125	112.00 - 113.25	1.0000	1.0000
L18	2	Safety Line 3/8	103.25 - 108.25	1.0000	1.0000
L18	3	Step Pegs	103.25 - 108.25	1.0000	1.0000
L18	13	CU12PSM9P6XXX(1-1/2)	103.25 - 108.25	1.0000	1.0000
L18	19	HB114-U6S12-XXX-LI(1-1/4)	103.25 - 108.25	1.0000	1.0000
L18	20	HB158-1-08U8-S8J18(1-5/8)	103.25 - 108.25	1.0000	1.0000
L18	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	103.25 - 108.25	1.0000	1.0000
L18	28	PL0.625x5 Reinforcement - Wind Area/Weight	103.25 - 108.25	1.0000	1.0000
L18	29	PL0.625x5 Reinforcement - Wind Area/Weight	103.25 - 108.25	1.0000	1.0000
L18	30	PL0.625x5 Reinforcement - Wind Area/Weight	103.25 - 108.25	1.0000	1.0000
L18	44	PL1.25x5 Reinforcement - Wind Area	103.25 - 108.25	1.0000	1.0000
L18	45	PL1.25x5 Reinforcement - Wind Area	103.25 - 108.25	1.0000	1.0000
L18	46	PL1.25x5 Reinforcement - Wind Area	103.25 - 108.25	1.0000	1.0000
L18	60	CCI-SFP-045100	103.25 - 108.25	1.0000	1.0000
L18	61	CCI-SFP-045100	103.25 - 108.25	1.0000	1.0000
L18	62	CCI-SFP-045100	103.25 - 108.25	1.0000	1.0000
L19	2	Safety Line 3/8	98.25 - 103.25	1.0000	1.0000
L19	3	Step Pegs	98.25 - 103.25	1.0000	1.0000
L19	13	CU12PSM9P6XXX(1-1/2)	98.25 - 103.25	1.0000	1.0000
L19	19	HB114-U6S12-XXX-LI(1-1/4)	98.25 - 103.25	1.0000	1.0000
L19	20	HB158-1-08U8-S8J18(1-5/8)	98.25 - 103.25	1.0000	1.0000
L19	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	98.25 - 103.25	1.0000	1.0000
L19	28	PL0.625x5 Reinforcement - Wind Area/Weight	98.25 - 103.25	1.0000	1.0000
L19	29	PL0.625x5 Reinforcement - Wind Area/Weight	98.25 - 103.25	1.0000	1.0000
L19	30	PL0.625x5 Reinforcement - Wind Area/Weight	98.25 - 103.25	1.0000	1.0000
L19	44	PL1.25x5 Reinforcement - Wind Area	98.25 - 103.25	1.0000	1.0000
L19	45	PL1.25x5 Reinforcement - Wind Area	98.25 - 103.25	1.0000	1.0000
L19	46	PL1.25x5 Reinforcement - Wind Area	98.25 - 103.25	1.0000	1.0000
L19	60	CCI-SFP-045100	98.25 - 103.25	1.0000	1.0000
L19	61	CCI-SFP-045100	98.25 - 103.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L19	62	CCI-SFP-045100	103.25 98.25 -	1.0000	1.0000
L20	2	Safety Line 3/8	103.25 93.25 -	1.0000	1.0000
L20	3	Step Pegs	98.25 93.25 -	1.0000	1.0000
L20	13	CU12PSM9P6XXX(1-1/2)	98.25 93.25 -	1.0000	1.0000
L20	19	HB114-U6S12-XXX-LI(1-1/4)	98.25 93.25 -	1.0000	1.0000
L20	20	HB158-1-08U8-S8J18(1-5/8)	98.25 93.25 -	1.0000	1.0000
L20	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	98.25 93.25 -	1.0000	1.0000
L20	28	PL0.625x5 Reinforcement - Wind Area/Weight	98.25 93.25 -	1.0000	1.0000
L20	29	PL0.625x5 Reinforcement - Wind Area/Weight	98.25 93.25 -	1.0000	1.0000
L20	30	PL0.625x5 Reinforcement - Wind Area/Weight	98.25 93.25 -	1.0000	1.0000
L20	44	PL1.25x5 Reinforcement - Wind Area	98.25 93.25 -	1.0000	1.0000
L20	45	PL1.25x5 Reinforcement - Wind Area	98.25 93.25 -	1.0000	1.0000
L20	46	PL1.25x5 Reinforcement - Wind Area	98.25 93.25 -	1.0000	1.0000
L20	60	CCI-SFP-045100	93.25 - 98.25	1.0000	1.0000
L20	61	CCI-SFP-045100	93.25 - 98.25	1.0000	1.0000
L20	62	CCI-SFP-045100	93.25 - 98.25	1.0000	1.0000
L21	2	Safety Line 3/8	84.72 - 93.25	1.0000	1.0000
L21	3	Step Pegs	84.72 - 93.25	1.0000	1.0000
L21	13	CU12PSM9P6XXX(1-1/2)	84.72 - 93.25	1.0000	1.0000
L21	19	HB114-U6S12-XXX-LI(1-1/4)	84.72 - 93.25	1.0000	1.0000
L21	20	HB158-1-08U8-S8J18(1-5/8)	84.72 - 93.25	1.0000	1.0000
L21	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	84.72 - 93.25	1.0000	1.0000
L21	28	PL0.625x5 Reinforcement - Wind Area/Weight	84.72 - 93.25	1.0000	1.0000
L21	29	PL0.625x5 Reinforcement - Wind Area/Weight	84.72 - 93.25	1.0000	1.0000
L21	30	PL0.625x5 Reinforcement - Wind Area/Weight	84.72 - 93.25	1.0000	1.0000
L21	41	PL1.25x5 Reinforcement - Wind Area	84.72 - 87.92	1.0000	1.0000
L21	42	PL1.25x5 Reinforcement - Wind Area	84.72 - 87.92	1.0000	1.0000
L21	43	PL1.25x5 Reinforcement - Wind Area	84.72 - 87.92	1.0000	1.0000
L21	44	PL1.25x5 Reinforcement - Wind Area	85.83 - 93.25	1.0000	1.0000
L21	45	PL1.25x5 Reinforcement - Wind Area	85.83 - 93.25	1.0000	1.0000
L21	46	PL1.25x5 Reinforcement - Wind Area	85.83 - 93.25	1.0000	1.0000
L21	60	CCI-SFP-045100	87.92 - 93.25	1.0000	1.0000
L21	61	CCI-SFP-045100	87.92 - 93.25	1.0000	1.0000
L21	62	CCI-SFP-045100	87.92 - 93.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L21	67	CCI-SFP-050125	84.72 - 90.50	1.0000	1.0000
L21	68	CCI-SFP-050125	84.72 - 90.50	1.0000	1.0000
L22	2	Safety Line 3/8	83.72 - 84.72	1.0000	1.0000
L22	3	Step Pegs	83.72 - 84.72	1.0000	1.0000
L22	13	CU12PSM9P6XXX(1-1/2)	83.72 - 84.72	1.0000	1.0000
L22	19	HB114-U6S12-XXX-LI(1-1/4)	83.72 - 84.72	1.0000	1.0000
L22	20	HB158-1-08U8-S8J18(1-5/8)	83.72 - 84.72	1.0000	1.0000
L22	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	83.72 - 84.72	1.0000	1.0000
L22	26	PL0.625x5 Reinforcement - Wind Area/Weight	83.72 - 84.67	1.0000	1.0000
L22	27	PL0.625x5 Reinforcement - Wind Area/Weight	83.72 - 84.67	1.0000	1.0000
L22	28	PL0.625x5 Reinforcement - Wind Area/Weight	84.67 - 84.72	1.0000	1.0000
L22	29	PL0.625x5 Reinforcement - Wind Area/Weight	84.67 - 84.72	1.0000	1.0000
L22	30	PL0.625x5 Reinforcement - Wind Area/Weight	84.67 - 84.72	1.0000	1.0000
L22	41	PL1.25x5 Reinforcement - Wind Area	83.72 - 84.72	1.0000	1.0000
L22	42	PL1.25x5 Reinforcement - Wind Area	83.72 - 84.72	1.0000	1.0000
L22	43	PL1.25x5 Reinforcement - Wind Area	83.72 - 84.72	1.0000	1.0000
L22	51	CCI-SFP-045100	83.72 - 84.33	1.0000	1.0000
L22	52	CCI-SFP-045100	83.72 - 84.33	1.0000	1.0000
L22	53	CCI-SFP-045100	83.72 - 84.33	1.0000	1.0000
L22	67	CCI-SFP-050125	83.72 - 84.72	1.0000	1.0000
L22	68	CCI-SFP-050125	83.72 - 84.72	1.0000	1.0000
L23	2	Safety Line 3/8	82.92 - 83.72	1.0000	1.0000
L23	3	Step Pegs	82.92 - 83.72	1.0000	1.0000
L23	13	CU12PSM9P6XXX(1-1/2)	82.92 - 83.72	1.0000	1.0000
L23	19	HB114-U6S12-XXX-LI(1-1/4)	82.92 - 83.72	1.0000	1.0000
L23	20	HB158-1-08U8-S8J18(1-5/8)	82.92 - 83.72	1.0000	1.0000
L23	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	82.92 - 83.72	1.0000	1.0000
L23	26	PL0.625x5 Reinforcement - Wind Area/Weight	82.92 - 83.72	1.0000	1.0000
L23	27	PL0.625x5 Reinforcement - Wind Area/Weight	82.92 - 83.72	1.0000	1.0000
L23	41	PL1.25x5 Reinforcement - Wind Area	82.92 - 83.72	1.0000	1.0000
L23	42	PL1.25x5 Reinforcement - Wind Area	82.92 - 83.72	1.0000	1.0000
L23	43	PL1.25x5 Reinforcement - Wind Area	82.92 - 83.72	1.0000	1.0000
L23	51	CCI-SFP-045100	82.92 - 83.72	1.0000	1.0000
L23	52	CCI-SFP-045100	82.92 - 83.72	1.0000	1.0000
L23	53	CCI-SFP-045100	82.92 - 83.72	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			83.72		
L23	67	CCI-SFP-050125	82.92 - 83.72	1.0000	1.0000
L23	68	CCI-SFP-050125	82.92 - 83.72	1.0000	1.0000
L24	2	Safety Line 3/8	82.67 - 82.92	1.0000	1.0000
L24	3	Step Pegs	82.67 - 82.92	1.0000	1.0000
L24	13	CU12PSM9P6XXX(1-1/2)	82.67 - 82.92	1.0000	1.0000
L24	19	HB114-U6S12-XXX-LI(1-1/4)	82.67 - 82.92	1.0000	1.0000
L24	20	HB158-1-08U8-S8J18(1-5/8)	82.67 - 82.92	1.0000	1.0000
L24	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	82.67 - 82.92	1.0000	1.0000
L24	26	PL0.625x5 Reinforcement - Wind Area/Weight	82.67 - 82.92	1.0000	1.0000
L24	27	PL0.625x5 Reinforcement - Wind Area/Weight	82.67 - 82.92	1.0000	1.0000
L24	41	PL1.25x5 Reinforcement - Wind Area	82.67 - 82.92	1.0000	1.0000
L24	42	PL1.25x5 Reinforcement - Wind Area	82.67 - 82.92	1.0000	1.0000
L24	43	PL1.25x5 Reinforcement - Wind Area	82.67 - 82.92	1.0000	1.0000
L24	51	CCI-SFP-045100	82.67 - 82.92	1.0000	1.0000
L24	52	CCI-SFP-045100	82.67 - 82.92	1.0000	1.0000
L24	53	CCI-SFP-045100	82.67 - 82.92	1.0000	1.0000
L24	67	CCI-SFP-050125	82.67 - 82.92	1.0000	1.0000
L24	68	CCI-SFP-050125	82.67 - 82.92	1.0000	1.0000
L25	2	Safety Line 3/8	82.50 - 82.67	1.0000	1.0000
L25	3	Step Pegs	82.50 - 82.67	1.0000	1.0000
L25	13	CU12PSM9P6XXX(1-1/2)	82.50 - 82.67	1.0000	1.0000
L25	19	HB114-U6S12-XXX-LI(1-1/4)	82.50 - 82.67	1.0000	1.0000
L25	20	HB158-1-08U8-S8J18(1-5/8)	82.50 - 82.67	1.0000	1.0000
L25	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	82.50 - 82.67	1.0000	1.0000
L25	26	PL0.625x5 Reinforcement - Wind Area/Weight	82.50 - 82.67	1.0000	1.0000
L25	27	PL0.625x5 Reinforcement - Wind Area/Weight	82.50 - 82.67	1.0000	1.0000
L25	41	PL1.25x5 Reinforcement - Wind Area	82.50 - 82.67	1.0000	1.0000
L25	42	PL1.25x5 Reinforcement - Wind Area	82.50 - 82.67	1.0000	1.0000
L25	43	PL1.25x5 Reinforcement - Wind Area	82.50 - 82.67	1.0000	1.0000
L25	51	CCI-SFP-045100	82.50 - 82.67	1.0000	1.0000
L25	52	CCI-SFP-045100	82.50 - 82.67	1.0000	1.0000
L25	53	CCI-SFP-045100	82.50 - 82.67	1.0000	1.0000
L25	67	CCI-SFP-050125	82.50 - 82.67	1.0000	1.0000
L25	68	CCI-SFP-050125	82.50 - 82.67	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L26	2	Safety Line 3/8	82.25 - 82.50	1.0000	1.0000
L26	3	Step Pegs	82.25 - 82.50	1.0000	1.0000
L26	13	CU12PSM9P6XXX(1-1/2)	82.25 - 82.50	1.0000	1.0000
L26	19	HB114-U6S12-XXX-LI(1-1/4)	82.25 - 82.50	1.0000	1.0000
L26	20	HB158-1-08U8-S8J18(1-5/8)	82.25 - 82.50	1.0000	1.0000
L26	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	82.25 - 82.50	1.0000	1.0000
L26	26	PL0.625x5 Reinforcement - Wind Area/Weight	82.25 - 82.50	1.0000	1.0000
L26	27	PL0.625x5 Reinforcement - Wind Area/Weight	82.25 - 82.50	1.0000	1.0000
L26	41	PL1.25x5 Reinforcement - Wind Area	82.25 - 82.50	1.0000	1.0000
L26	42	PL1.25x5 Reinforcement - Wind Area	82.25 - 82.50	1.0000	1.0000
L26	43	PL1.25x5 Reinforcement - Wind Area	82.25 - 82.50	1.0000	1.0000
L26	51	CCI-SFP-045100	82.25 - 82.50	1.0000	1.0000
L26	52	CCI-SFP-045100	82.25 - 82.50	1.0000	1.0000
L26	53	CCI-SFP-045100	82.25 - 82.50	1.0000	1.0000
L26	67	CCI-SFP-050125	82.25 - 82.50	1.0000	1.0000
L26	68	CCI-SFP-050125	82.25 - 82.50	1.0000	1.0000
L27	2	Safety Line 3/8	77.25 - 82.25	1.0000	1.0000
L27	3	Step Pegs	77.25 - 82.25	1.0000	1.0000
L27	13	CU12PSM9P6XXX(1-1/2)	77.25 - 82.25	1.0000	1.0000
L27	19	HB114-U6S12-XXX-LI(1-1/4)	77.25 - 82.25	1.0000	1.0000
L27	20	HB158-1-08U8-S8J18(1-5/8)	77.25 - 82.25	1.0000	1.0000
L27	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	77.25 - 82.25	1.0000	1.0000
L27	26	PL0.625x5 Reinforcement - Wind Area/Weight	77.25 - 82.25	1.0000	1.0000
L27	27	PL0.625x5 Reinforcement - Wind Area/Weight	77.25 - 82.25	1.0000	1.0000
L27	41	PL1.25x5 Reinforcement - Wind Area	77.25 - 82.25	1.0000	1.0000
L27	42	PL1.25x5 Reinforcement - Wind Area	77.25 - 82.25	1.0000	1.0000
L27	43	PL1.25x5 Reinforcement - Wind Area	77.25 - 82.25	1.0000	1.0000
L27	51	CCI-SFP-045100	77.25 - 82.25	1.0000	1.0000
L27	52	CCI-SFP-045100	77.25 - 82.25	1.0000	1.0000
L27	53	CCI-SFP-045100	77.25 - 82.25	1.0000	1.0000
L27	67	CCI-SFP-050125	80.50 - 82.25	1.0000	1.0000
L27	68	CCI-SFP-050125	80.50 - 82.25	1.0000	1.0000
L28	2	Safety Line 3/8	73.42 - 77.25	1.0000	1.0000
L28	3	Step Pegs	73.42 - 77.25	1.0000	1.0000
L28	13	CU12PSM9P6XXX(1-1/2)	73.42 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			77.25		
L28	19	HB114-U6S12-XXX-LI(1-1/4)	73.42 -	1.0000	1.0000
L28	20	HB158-1-08U8-S8J18(1-5/8)	77.25 73.42 -	1.0000	1.0000
L28	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	77.25 73.42 -	1.0000	1.0000
L28	26	PL0.625x5 Reinforcement - Wind Area/Weight	77.25 73.42 -	1.0000	1.0000
L28	27	PL0.625x5 Reinforcement - Wind Area/Weight	77.25 73.42 -	1.0000	1.0000
L28	38	PL1.25x5 Reinforcement - Wind Area	77.25 73.42 - 75.42	1.0000	1.0000
L28	39	PL1.25x5 Reinforcement - Wind Area	73.42 - 75.42	1.0000	1.0000
L28	40	PL1.25x5 Reinforcement - Wind Area	73.42 - 75.42	1.0000	1.0000
L28	41	PL1.25x5 Reinforcement - Wind Area	73.42 - 77.25	1.0000	1.0000
L28	42	PL1.25x5 Reinforcement - Wind Area	73.42 - 77.25	1.0000	1.0000
L28	43	PL1.25x5 Reinforcement - Wind Area	73.42 - 77.25	1.0000	1.0000
L28	51	CCI-SFP-045100	73.42 - 77.25	1.0000	1.0000
L28	52	CCI-SFP-045100	73.42 - 77.25	1.0000	1.0000
L28	53	CCI-SFP-045100	73.42 - 77.25	1.0000	1.0000
L29	2	Safety Line 3/8	73.17 - 73.42	1.0000	1.0000
L29	3	Step Pegs	73.17 - 73.42	1.0000	1.0000
L29	13	CU12PSM9P6XXX(1-1/2)	73.17 - 73.42	1.0000	1.0000
L29	19	HB114-U6S12-XXX-LI(1-1/4)	73.17 - 73.42	1.0000	1.0000
L29	20	HB158-1-08U8-S8J18(1-5/8)	73.17 - 73.42	1.0000	1.0000
L29	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	73.17 - 73.42	1.0000	1.0000
L29	26	PL0.625x5 Reinforcement - Wind Area/Weight	73.17 - 73.42	1.0000	1.0000
L29	27	PL0.625x5 Reinforcement - Wind Area/Weight	73.17 - 73.42	1.0000	1.0000
L29	38	PL1.25x5 Reinforcement - Wind Area	73.17 - 73.42	1.0000	1.0000
L29	39	PL1.25x5 Reinforcement - Wind Area	73.17 - 73.42	1.0000	1.0000
L29	40	PL1.25x5 Reinforcement - Wind Area	73.17 - 73.42	1.0000	1.0000
L29	41	PL1.25x5 Reinforcement - Wind Area	73.17 - 73.42	1.0000	1.0000
L29	42	PL1.25x5 Reinforcement - Wind Area	73.17 - 73.42	1.0000	1.0000
L29	43	PL1.25x5 Reinforcement - Wind Area	73.17 - 73.42	1.0000	1.0000
L29	51	CCI-SFP-045100	73.17 - 73.42	1.0000	1.0000
L29	52	CCI-SFP-045100	73.17 - 73.42	1.0000	1.0000
L29	53	CCI-SFP-045100	73.17 - 73.42	1.0000	1.0000
L30	2	Safety Line 3/8	68.17 - 73.17	1.0000	1.0000
L30	3	Step Pegs	68.17 - 73.17	1.0000	1.0000
L30	13	CU12PSM9P6XXX(1-1/2)	68.17 - 73.17	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L30	17	LDF4-50A(1/2)	68.17 - 70.00	1.0000	1.0000
L30	19	HB114-U6S12-XXX-LI(1-1/4)	68.17 - 73.17	1.0000	1.0000
L30	20	HB158-1-08U8-S8J18(1-5/8)	68.17 - 73.17	1.0000	1.0000
L30	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	68.17 - 73.17	1.0000	1.0000
L30	26	PL0.625x5 Reinforcement - Wind Area/Weight	68.17 - 73.17	1.0000	1.0000
L30	27	PL0.625x5 Reinforcement - Wind Area/Weight	68.17 - 73.17	1.0000	1.0000
L30	38	PL1.25x5 Reinforcement - Wind Area	68.17 - 73.17	1.0000	1.0000
L30	39	PL1.25x5 Reinforcement - Wind Area	68.17 - 73.17	1.0000	1.0000
L30	40	PL1.25x5 Reinforcement - Wind Area	68.17 - 73.17	1.0000	1.0000
L30	41	PL1.25x5 Reinforcement - Wind Area	72.75 - 73.17	1.0000	1.0000
L30	42	PL1.25x5 Reinforcement - Wind Area	72.75 - 73.17	1.0000	1.0000
L30	43	PL1.25x5 Reinforcement - Wind Area	72.75 - 73.17	1.0000	1.0000
L30	51	CCI-SFP-045100	68.17 - 73.17	1.0000	1.0000
L30	52	CCI-SFP-045100	68.17 - 73.17	1.0000	1.0000
L30	53	CCI-SFP-045100	68.17 - 73.17	1.0000	1.0000
L30	57	CCI-SFP-045100	68.17 - 72.75	1.0000	1.0000
L30	58	CCI-SFP-045100	68.17 - 72.75	1.0000	1.0000
L30	59	CCI-SFP-045100	68.17 - 72.75	1.0000	1.0000
L31	2	Safety Line 3/8	64.25 - 68.17	1.0000	1.0000
L31	3	Step Pegs	64.25 - 68.17	1.0000	1.0000
L31	13	CU12PSM9P6XXX(1-1/2)	64.25 - 68.17	1.0000	1.0000
L31	17	LDF4-50A(1/2)	64.25 - 68.17	1.0000	1.0000
L31	19	HB114-U6S12-XXX-LI(1-1/4)	64.25 - 68.17	1.0000	1.0000
L31	20	HB158-1-08U8-S8J18(1-5/8)	64.25 - 68.17	1.0000	1.0000
L31	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	64.25 - 68.17	1.0000	1.0000
L31	26	PL0.625x5 Reinforcement - Wind Area/Weight	64.25 - 68.17	1.0000	1.0000
L31	27	PL0.625x5 Reinforcement - Wind Area/Weight	64.25 - 68.17	1.0000	1.0000
L31	38	PL1.25x5 Reinforcement - Wind Area	64.25 - 68.17	1.0000	1.0000
L31	39	PL1.25x5 Reinforcement - Wind Area	64.25 - 68.17	1.0000	1.0000
L31	40	PL1.25x5 Reinforcement - Wind Area	64.25 - 68.17	1.0000	1.0000
L31	51	CCI-SFP-045100	64.25 - 68.17	1.0000	1.0000
L31	52	CCI-SFP-045100	64.25 - 68.17	1.0000	1.0000
L31	53	CCI-SFP-045100	64.25 - 68.17	1.0000	1.0000
L31	57	CCI-SFP-045100	64.25 - 68.17	1.0000	1.0000
L31	58	CCI-SFP-045100	64.25 - 68.17	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L31	59	CCI-SFP-045100	68.17 64.25 -	1.0000	1.0000
L32	2	Safety Line 3/8	68.17 64.00 -	1.0000	1.0000
L32	3	Step Pegs	64.25 64.00 -	1.0000	1.0000
L32	13	CU12PSM9P6XXX(1-1/2)	64.25 64.00 -	1.0000	1.0000
L32	17	LDF4-50A(1/2)	64.25 64.00 -	1.0000	1.0000
L32	19	HB114-U6S12-XXX-LI(1-1/4)	64.25 64.00 -	1.0000	1.0000
L32	20	HB158-1-08U8-S8J18(1-5/8)	64.25 64.00 -	1.0000	1.0000
L32	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	64.25 64.00 -	1.0000	1.0000
L32	26	PL0.625x5 Reinforcement - Wind Area/Weight	64.25 64.00 -	1.0000	1.0000
L32	27	PL0.625x5 Reinforcement - Wind Area/Weight	64.25 64.00 -	1.0000	1.0000
L32	38	PL1.25x5 Reinforcement - Wind Area	64.25 64.00 -	1.0000	1.0000
L32	39	PL1.25x5 Reinforcement - Wind Area	64.25 64.00 -	1.0000	1.0000
L32	40	PL1.25x5 Reinforcement - Wind Area	64.25 64.00 -	1.0000	1.0000
L32	51	CCI-SFP-045100	64.25 64.00 -	1.0000	1.0000
L32	52	CCI-SFP-045100	64.25 64.00 -	1.0000	1.0000
L32	53	CCI-SFP-045100	64.25 64.00 -	1.0000	1.0000
L32	57	CCI-SFP-045100	64.25 64.00 -	1.0000	1.0000
L32	58	CCI-SFP-045100	64.25 64.00 -	1.0000	1.0000
L32	59	CCI-SFP-045100	64.25 64.00 -	1.0000	1.0000
L33	2	Safety Line 3/8	59.00 - 64.00	1.0000	1.0000
L33	3	Step Pegs	59.00 - 64.00	1.0000	1.0000
L33	13	CU12PSM9P6XXX(1-1/2)	59.00 - 64.00	1.0000	1.0000
L33	17	LDF4-50A(1/2)	59.00 - 64.00	1.0000	1.0000
L33	19	HB114-U6S12-XXX-LI(1-1/4)	59.00 - 64.00	1.0000	1.0000
L33	20	HB158-1-08U8-S8J18(1-5/8)	59.00 - 64.00	1.0000	1.0000
L33	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	59.00 - 64.00	1.0000	1.0000
L33	26	PL0.625x5 Reinforcement - Wind Area/Weight	59.00 - 64.00	1.0000	1.0000
L33	27	PL0.625x5 Reinforcement - Wind Area/Weight	59.00 - 64.00	1.0000	1.0000
L33	38	PL1.25x5 Reinforcement - Wind Area	59.00 - 64.00	1.0000	1.0000
L33	39	PL1.25x5 Reinforcement - Wind Area	59.00 - 64.00	1.0000	1.0000
L33	40	PL1.25x5 Reinforcement - Wind Area	59.00 - 64.00	1.0000	1.0000
L33	51	CCI-SFP-045100	59.00 - 64.00	1.0000	1.0000
L33	52	CCI-SFP-045100	59.00 - 64.00	1.0000	1.0000
L33	53	CCI-SFP-045100	59.00 - 64.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L33	57	CCI-SFP-045100	62.75 - 64.00	1.0000	1.0000
L33	58	CCI-SFP-045100	62.75 - 64.00	1.0000	1.0000
L33	59	CCI-SFP-045100	62.75 - 64.00	1.0000	1.0000
L34	2	Safety Line 3/8	54.00 - 59.00	1.0000	1.0000
L34	3	Step Pegs	54.00 - 59.00	1.0000	1.0000
L34	13	CU12PSM9P6XXX(1-1/2)	54.00 - 59.00	1.0000	1.0000
L34	17	LDF4-50A(1/2)	54.00 - 59.00	1.0000	1.0000
L34	19	HB114-U6S12-XXX-LI(1-1/4)	54.00 - 59.00	1.0000	1.0000
L34	20	HB158-1-08U8-S8J18(1-5/8)	54.00 - 59.00	1.0000	1.0000
L34	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	54.00 - 59.00	1.0000	1.0000
L34	26	PL0.625x5 Reinforcement - Wind Area/Weight	54.00 - 59.00	1.0000	1.0000
L34	27	PL0.625x5 Reinforcement - Wind Area/Weight	54.00 - 59.00	1.0000	1.0000
L34	38	PL1.25x5 Reinforcement - Wind Area	54.00 - 59.00	1.0000	1.0000
L34	39	PL1.25x5 Reinforcement - Wind Area	54.00 - 59.00	1.0000	1.0000
L34	40	PL1.25x5 Reinforcement - Wind Area	54.00 - 59.00	1.0000	1.0000
L34	51	CCI-SFP-045100	54.00 - 59.00	1.0000	1.0000
L34	52	CCI-SFP-045100	54.00 - 59.00	1.0000	1.0000
L34	53	CCI-SFP-045100	54.00 - 59.00	1.0000	1.0000
L34	70	CCI-SFP-050125	54.00 - 55.50	1.0000	1.0000
L34	71	CCI-SFP-050125	54.00 - 55.50	1.0000	1.0000
L35	2	Safety Line 3/8	53.50 - 54.00	1.0000	1.0000
L35	3	Step Pegs	53.50 - 54.00	1.0000	1.0000
L35	13	CU12PSM9P6XXX(1-1/2)	53.50 - 54.00	1.0000	1.0000
L35	17	LDF4-50A(1/2)	53.50 - 54.00	1.0000	1.0000
L35	19	HB114-U6S12-XXX-LI(1-1/4)	53.50 - 54.00	1.0000	1.0000
L35	20	HB158-1-08U8-S8J18(1-5/8)	53.50 - 54.00	1.0000	1.0000
L35	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	53.50 - 54.00	1.0000	1.0000
L35	26	PL0.625x5 Reinforcement - Wind Area/Weight	53.50 - 54.00	1.0000	1.0000
L35	27	PL0.625x5 Reinforcement - Wind Area/Weight	53.50 - 54.00	1.0000	1.0000
L35	38	PL1.25x5 Reinforcement - Wind Area	53.50 - 54.00	1.0000	1.0000
L35	39	PL1.25x5 Reinforcement - Wind Area	53.50 - 54.00	1.0000	1.0000
L35	40	PL1.25x5 Reinforcement - Wind Area	53.50 - 54.00	1.0000	1.0000
L35	51	CCI-SFP-045100	53.50 - 54.00	1.0000	1.0000
L35	52	CCI-SFP-045100	53.50 - 54.00	1.0000	1.0000
L35	53	CCI-SFP-045100	53.50 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L35	70	CCI-SFP-050125	54.00 53.50 -	1.0000	1.0000
L35	71	CCI-SFP-050125	54.00 53.50 -	1.0000	1.0000
L36	2	Safety Line 3/8	54.00 53.25 -	1.0000	1.0000
L36	3	Step Pegs	53.50 53.25 -	1.0000	1.0000
L36	13	CU12PSM9P6XXX(1-1/2)	53.50 53.25 -	1.0000	1.0000
L36	17	LDF4-50A(1/2)	53.50 53.25 -	1.0000	1.0000
L36	19	HB114-U6S12-XXX-LI(1-1/4)	53.50 53.25 -	1.0000	1.0000
L36	20	HB158-1-08U8-S8J18(1-5/8)	53.50 53.25 -	1.0000	1.0000
L36	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	53.50 53.25 -	1.0000	1.0000
L36	26	PL0.625x5 Reinforcement - Wind Area/Weight	53.50 53.25 -	1.0000	1.0000
L36	27	PL0.625x5 Reinforcement - Wind Area/Weight	53.50 53.25 -	1.0000	1.0000
L36	38	PL1.25x5 Reinforcement - Wind Area	53.50 53.25 -	1.0000	1.0000
L36	39	PL1.25x5 Reinforcement - Wind Area	53.50 53.25 -	1.0000	1.0000
L36	40	PL1.25x5 Reinforcement - Wind Area	53.50 53.25 -	1.0000	1.0000
L36	51	CCI-SFP-045100	53.50 53.25 -	1.0000	1.0000
L36	52	CCI-SFP-045100	53.50 53.25 -	1.0000	1.0000
L36	53	CCI-SFP-045100	53.50 53.25 -	1.0000	1.0000
L36	70	CCI-SFP-050125	53.50 53.25 -	1.0000	1.0000
L36	71	CCI-SFP-050125	53.50 53.25 -	1.0000	1.0000
L37	2	Safety Line 3/8	53.50 43.83 -	1.0000	1.0000
L37	3	Step Pegs	53.25 43.83 -	1.0000	1.0000
L37	13	CU12PSM9P6XXX(1-1/2)	53.25 43.83 -	1.0000	1.0000
L37	17	LDF4-50A(1/2)	53.25 43.83 -	1.0000	1.0000
L37	19	HB114-U6S12-XXX-LI(1-1/4)	53.25 43.83 -	1.0000	1.0000
L37	20	HB158-1-08U8-S8J18(1-5/8)	53.25 43.83 -	1.0000	1.0000
L37	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	53.25 43.83 -	1.0000	1.0000
L37	26	PL0.625x5 Reinforcement - Wind Area/Weight	53.25 43.83 -	1.0000	1.0000
L37	27	PL0.625x5 Reinforcement - Wind Area/Weight	53.25 43.83 -	1.0000	1.0000
L37	35	PL1.25x6 Reinforcement - Wind Area	47.92 43.83 -	1.0000	1.0000
L37	36	PL1.25x6 Reinforcement - Wind Area	47.92 43.83 -	1.0000	1.0000
L37	37	PL1.25x6 Reinforcement - Wind Area	47.92 43.83 -	1.0000	1.0000
L37	38	PL1.25x5 Reinforcement - Wind Area	45.38 53.25 -	1.0000	1.0000
L37	39	PL1.25x5 Reinforcement - Wind Area	45.38 53.25 -	1.0000	1.0000
L37	40	PL1.25x5 Reinforcement - Wind Area	45.38 53.25 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L37	51	CCI-SFP-045100	43.83 - 53.25	1.0000	1.0000
L37	52	CCI-SFP-045100	43.83 - 53.25	1.0000	1.0000
L37	53	CCI-SFP-045100	43.83 - 53.25	1.0000	1.0000
L37	70	CCI-SFP-050125	45.50 - 53.25	1.0000	1.0000
L37	71	CCI-SFP-050125	45.50 - 53.25	1.0000	1.0000
L38	2	Safety Line 3/8	42.83 - 43.83	1.0000	1.0000
L38	3	Step Pegs	42.83 - 43.83	1.0000	1.0000
L38	13	CU12PSM9P6XXX(1-1/2)	42.83 - 43.83	1.0000	1.0000
L38	17	LDF4-50A(1/2)	42.83 - 43.83	1.0000	1.0000
L38	19	HB114-U6S12-XXX-LI(1-1/4)	42.83 - 43.83	1.0000	1.0000
L38	20	HB158-1-08U8-S8J18(1-5/8)	42.83 - 43.83	1.0000	1.0000
L38	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	42.83 - 43.83	1.0000	1.0000
L38	26	PL0.625x5 Reinforcement - Wind Area/Weight	42.83 - 43.83	1.0000	1.0000
L38	27	PL0.625x5 Reinforcement - Wind Area/Weight	42.83 - 43.83	1.0000	1.0000
L38	35	PL1.25x6 Reinforcement - Wind Area	42.83 - 43.83	1.0000	1.0000
L38	36	PL1.25x6 Reinforcement - Wind Area	42.83 - 43.83	1.0000	1.0000
L38	37	PL1.25x6 Reinforcement - Wind Area	42.83 - 43.83	1.0000	1.0000
L38	48	CCI-SFP-060100	42.83 - 43.75	1.0000	1.0000
L38	49	CCI-SFP-060100	42.83 - 43.75	1.0000	1.0000
L38	50	CCI-SFP-060100	42.83 - 43.75	1.0000	1.0000
L38	51	CCI-SFP-045100	43.75 - 43.83	1.0000	1.0000
L38	52	CCI-SFP-045100	43.75 - 43.83	1.0000	1.0000
L38	53	CCI-SFP-045100	43.75 - 43.83	1.0000	1.0000
L39	2	Safety Line 3/8	41.75 - 42.83	1.0000	1.0000
L39	3	Step Pegs	41.75 - 42.83	1.0000	1.0000
L39	13	CU12PSM9P6XXX(1-1/2)	41.75 - 42.83	1.0000	1.0000
L39	17	LDF4-50A(1/2)	41.75 - 42.83	1.0000	1.0000
L39	19	HB114-U6S12-XXX-LI(1-1/4)	41.75 - 42.83	1.0000	1.0000
L39	20	HB158-1-08U8-S8J18(1-5/8)	41.75 - 42.83	1.0000	1.0000
L39	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	41.75 - 42.83	1.0000	1.0000
L39	26	PL0.625x5 Reinforcement - Wind Area/Weight	41.75 - 42.83	1.0000	1.0000
L39	27	PL0.625x5 Reinforcement - Wind Area/Weight	41.75 - 42.83	1.0000	1.0000
L39	35	PL1.25x6 Reinforcement - Wind Area	41.75 - 42.83	1.0000	1.0000
L39	36	PL1.25x6 Reinforcement - Wind Area	41.75 - 42.83	1.0000	1.0000
L39	37	PL1.25x6 Reinforcement -	41.75 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
		Wind Area	42.83		
L39	48	CCI-SFP-060100	41.75 -	1.0000	1.0000
			42.83		
L39	49	CCI-SFP-060100	41.75 -	1.0000	1.0000
			42.83		
L39	50	CCI-SFP-060100	41.75 -	1.0000	1.0000
			42.83		
L40	2	Safety Line 3/8	41.50 -	1.0000	1.0000
			41.75		
L40	3	Step Pegs	41.50 -	1.0000	1.0000
			41.75		
L40	13	CU12PSM9P6XXX(1-1/2)	41.50 -	1.0000	1.0000
			41.75		
L40	17	LDF4-50A(1/2)	41.50 -	1.0000	1.0000
			41.75		
L40	19	HB114-U6S12-XXX-LI(1-1/4)	41.50 -	1.0000	1.0000
			41.75		
L40	20	HB158-1-08U8-S8J18(1-5/8)	41.50 -	1.0000	1.0000
			41.75		
L40	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	41.50 -	1.0000	1.0000
			41.75		
L40	26	PL0.625x5 Reinforcement - Wind Area/Weight	41.50 -	1.0000	1.0000
			41.75		
L40	27	PL0.625x5 Reinforcement - Wind Area/Weight	41.50 -	1.0000	1.0000
			41.75		
L40	35	PL1.25x6 Reinforcement - Wind Area	41.50 -	1.0000	1.0000
			41.75		
L40	36	PL1.25x6 Reinforcement - Wind Area	41.50 -	1.0000	1.0000
			41.75		
L40	37	PL1.25x6 Reinforcement - Wind Area	41.50 -	1.0000	1.0000
			41.75		
L40	48	CCI-SFP-060100	41.50 -	1.0000	1.0000
			41.75		
L40	49	CCI-SFP-060100	41.50 -	1.0000	1.0000
			41.75		
L40	50	CCI-SFP-060100	41.50 -	1.0000	1.0000
			41.75		
L41	2	Safety Line 3/8	36.50 -	1.0000	1.0000
			41.50		
L41	3	Step Pegs	36.50 -	1.0000	1.0000
			41.50		
L41	13	CU12PSM9P6XXX(1-1/2)	36.50 -	1.0000	1.0000
			41.50		
L41	17	LDF4-50A(1/2)	36.50 -	1.0000	1.0000
			41.50		
L41	19	HB114-U6S12-XXX-LI(1-1/4)	36.50 -	1.0000	1.0000
			41.50		
L41	20	HB158-1-08U8-S8J18(1-5/8)	36.50 -	1.0000	1.0000
			41.50		
L41	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	36.50 -	1.0000	1.0000
			41.50		
L41	26	PL0.625x5 Reinforcement - Wind Area/Weight	36.50 -	1.0000	1.0000
			41.50		
L41	27	PL0.625x5 Reinforcement - Wind Area/Weight	36.50 -	1.0000	1.0000
			41.50		
L41	35	PL1.25x6 Reinforcement - Wind Area	36.50 -	1.0000	1.0000
			41.50		
L41	36	PL1.25x6 Reinforcement - Wind Area	36.50 -	1.0000	1.0000
			41.50		
L41	37	PL1.25x6 Reinforcement - Wind Area	36.50 -	1.0000	1.0000
			41.50		
L41	48	CCI-SFP-060100	36.50 -	1.0000	1.0000
			41.50		
L41	49	CCI-SFP-060100	36.50 -	1.0000	1.0000
			41.50		
L41	50	CCI-SFP-060100	36.50 -	1.0000	1.0000
			41.50		
L42	2	Safety Line 3/8	32.75 -	1.0000	1.0000
			36.50		

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L42	3	Step Pegs	32.75 - 36.50	1.0000	1.0000
L42	13	CU12PSM9P6XXX(1-1/2)	32.75 - 36.50	1.0000	1.0000
L42	17	LDF4-50A(1/2)	32.75 - 36.50	1.0000	1.0000
L42	19	HB114-U6S12-XXX-LI(1-1/4)	32.75 - 36.50	1.0000	1.0000
L42	20	HB158-1-08U8-S8J18(1-5/8)	32.75 - 36.50	1.0000	1.0000
L42	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	32.75 - 36.50	1.0000	1.0000
L42	26	PL0.625x5 Reinforcement - Wind Area/Weight	32.75 - 36.50	1.0000	1.0000
L42	27	PL0.625x5 Reinforcement - Wind Area/Weight	32.75 - 36.50	1.0000	1.0000
L42	35	PL1.25x6 Reinforcement - Wind Area	32.75 - 36.50	1.0000	1.0000
L42	36	PL1.25x6 Reinforcement - Wind Area	32.75 - 36.50	1.0000	1.0000
L42	37	PL1.25x6 Reinforcement - Wind Area	32.75 - 36.50	1.0000	1.0000
L42	48	CCI-SFP-060100	32.75 - 36.50	1.0000	1.0000
L42	49	CCI-SFP-060100	32.75 - 36.50	1.0000	1.0000
L42	50	CCI-SFP-060100	32.75 - 36.50	1.0000	1.0000
L42	73	CCI-SFP-065125	32.75 - 35.50	1.0000	1.0000
L42	74	CCI-SFP-065125	32.75 - 35.50	1.0000	1.0000
L43	2	Safety Line 3/8	32.50 - 32.75	1.0000	1.0000
L43	3	Step Pegs	32.50 - 32.75	1.0000	1.0000
L43	13	CU12PSM9P6XXX(1-1/2)	32.50 - 32.75	1.0000	1.0000
L43	17	LDF4-50A(1/2)	32.50 - 32.75	1.0000	1.0000
L43	19	HB114-U6S12-XXX-LI(1-1/4)	32.50 - 32.75	1.0000	1.0000
L43	20	HB158-1-08U8-S8J18(1-5/8)	32.50 - 32.75	1.0000	1.0000
L43	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	32.50 - 32.75	1.0000	1.0000
L43	26	PL0.625x5 Reinforcement - Wind Area/Weight	32.50 - 32.75	1.0000	1.0000
L43	27	PL0.625x5 Reinforcement - Wind Area/Weight	32.50 - 32.75	1.0000	1.0000
L43	35	PL1.25x6 Reinforcement - Wind Area	32.50 - 32.75	1.0000	1.0000
L43	36	PL1.25x6 Reinforcement - Wind Area	32.50 - 32.75	1.0000	1.0000
L43	37	PL1.25x6 Reinforcement - Wind Area	32.50 - 32.75	1.0000	1.0000
L43	48	CCI-SFP-060100	32.50 - 32.75	1.0000	1.0000
L43	49	CCI-SFP-060100	32.50 - 32.75	1.0000	1.0000
L43	50	CCI-SFP-060100	32.50 - 32.75	1.0000	1.0000
L43	73	CCI-SFP-065125	32.50 - 32.75	1.0000	1.0000
L43	74	CCI-SFP-065125	32.50 - 32.75	1.0000	1.0000
L44	2	Safety Line 3/8	29.73 - 32.50	1.0000	1.0000
L44	3	Step Pegs	29.73 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L44	13	CU12PSM9P6XXX(1-1/2)	32.50 29.73 -	1.0000	1.0000
L44	17	LDF4-50A(1/2)	32.50 29.73 -	1.0000	1.0000
L44	19	HB114-U6S12-XXX-LI(1-1/4)	32.50 29.73 -	1.0000	1.0000
L44	20	HB158-1-08U8-S8J18(1-5/8)	32.50 29.73 -	1.0000	1.0000
L44	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	32.50 29.73 -	1.0000	1.0000
L44	26	PL0.625x5 Reinforcement - Wind Area/Weight	32.50 29.73 -	1.0000	1.0000
L44	27	PL0.625x5 Reinforcement - Wind Area/Weight	32.50 29.73 -	1.0000	1.0000
L44	32	PL1.25x6 Reinforcement - Wind Area	32.50 30.75	1.0000	1.0000
L44	33	PL1.25x6 Reinforcement - Wind Area	32.50 30.75	1.0000	1.0000
L44	34	PL1.25x6 Reinforcement - Wind Area	32.50 30.75	1.0000	1.0000
L44	35	PL1.25x6 Reinforcement - Wind Area	32.50 32.50	1.0000	1.0000
L44	36	PL1.25x6 Reinforcement - Wind Area	32.50 32.50	1.0000	1.0000
L44	37	PL1.25x6 Reinforcement - Wind Area	32.50 32.50	1.0000	1.0000
L44	48	CCI-SFP-060100	32.50 29.73 -	1.0000	1.0000
L44	49	CCI-SFP-060100	32.50 29.73 -	1.0000	1.0000
L44	50	CCI-SFP-060100	32.50 29.73 -	1.0000	1.0000
L44	73	CCI-SFP-065125	32.50 29.73 -	1.0000	1.0000
L44	74	CCI-SFP-065125	32.50 29.73 -	1.0000	1.0000
L45	2	Safety Line 3/8	32.50 29.48 - 29.73	1.0000	1.0000
L45	3	Step Pegs	29.48 - 29.73	1.0000	1.0000
L45	13	CU12PSM9P6XXX(1-1/2)	29.48 - 29.73	1.0000	1.0000
L45	17	LDF4-50A(1/2)	29.48 - 29.73	1.0000	1.0000
L45	19	HB114-U6S12-XXX-LI(1-1/4)	29.48 - 29.73	1.0000	1.0000
L45	20	HB158-1-08U8-S8J18(1-5/8)	29.48 - 29.73	1.0000	1.0000
L45	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	29.48 - 29.73	1.0000	1.0000
L45	26	PL0.625x5 Reinforcement - Wind Area/Weight	29.48 - 29.73	1.0000	1.0000
L45	27	PL0.625x5 Reinforcement - Wind Area/Weight	29.48 - 29.73	1.0000	1.0000
L45	32	PL1.25x6 Reinforcement - Wind Area	29.48 - 29.73	1.0000	1.0000
L45	33	PL1.25x6 Reinforcement - Wind Area	29.48 - 29.73	1.0000	1.0000
L45	34	PL1.25x6 Reinforcement - Wind Area	29.48 - 29.73	1.0000	1.0000
L45	35	PL1.25x6 Reinforcement - Wind Area	29.48 - 29.73	1.0000	1.0000
L45	36	PL1.25x6 Reinforcement - Wind Area	29.48 - 29.73	1.0000	1.0000
L45	37	PL1.25x6 Reinforcement - Wind Area	29.48 - 29.73	1.0000	1.0000
L45	48	CCI-SFP-060100	29.48 - 29.73	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L45	49	CCI-SFP-060100	29.48 - 29.73	1.0000	1.0000
L45	50	CCI-SFP-060100	29.48 - 29.73	1.0000	1.0000
L45	73	CCI-SFP-065125	29.48 - 29.73	1.0000	1.0000
L45	74	CCI-SFP-065125	29.48 - 29.73	1.0000	1.0000
L46	2	Safety Line 3/8	28.25 - 29.48	1.0000	1.0000
L46	3	Step Pegs	28.25 - 29.48	1.0000	1.0000
L46	13	CU12PSM9P6XXX(1-1/2)	28.25 - 29.48	1.0000	1.0000
L46	17	LDF4-50A(1/2)	28.25 - 29.48	1.0000	1.0000
L46	19	HB114-U6S12-XXX-LI(1-1/4)	28.25 - 29.48	1.0000	1.0000
L46	20	HB158-1-08U8-S8J18(1-5/8)	28.25 - 29.48	1.0000	1.0000
L46	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	28.25 - 29.48	1.0000	1.0000
L46	26	PL0.625x5 Reinforcement - Wind Area/Weight	28.25 - 29.48	1.0000	1.0000
L46	27	PL0.625x5 Reinforcement - Wind Area/Weight	28.25 - 29.48	1.0000	1.0000
L46	32	PL1.25x6 Reinforcement - Wind Area	28.25 - 29.48	1.0000	1.0000
L46	33	PL1.25x6 Reinforcement - Wind Area	28.25 - 29.48	1.0000	1.0000
L46	34	PL1.25x6 Reinforcement - Wind Area	28.25 - 29.48	1.0000	1.0000
L46	35	PL1.25x6 Reinforcement - Wind Area	28.25 - 29.48	1.0000	1.0000
L46	36	PL1.25x6 Reinforcement - Wind Area	28.25 - 29.48	1.0000	1.0000
L46	37	PL1.25x6 Reinforcement - Wind Area	28.25 - 29.48	1.0000	1.0000
L46	48	CCI-SFP-060100	28.25 - 29.48	1.0000	1.0000
L46	49	CCI-SFP-060100	28.25 - 29.48	1.0000	1.0000
L46	50	CCI-SFP-060100	28.25 - 29.48	1.0000	1.0000
L46	73	CCI-SFP-065125	28.25 - 29.48	1.0000	1.0000
L46	74	CCI-SFP-065125	28.25 - 29.48	1.0000	1.0000
L47	2	Safety Line 3/8	28.00 - 28.25	1.0000	1.0000
L47	3	Step Pegs	28.00 - 28.25	1.0000	1.0000
L47	13	CU12PSM9P6XXX(1-1/2)	28.00 - 28.25	1.0000	1.0000
L47	17	LDF4-50A(1/2)	28.00 - 28.25	1.0000	1.0000
L47	19	HB114-U6S12-XXX-LI(1-1/4)	28.00 - 28.25	1.0000	1.0000
L47	20	HB158-1-08U8-S8J18(1-5/8)	28.00 - 28.25	1.0000	1.0000
L47	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	28.00 - 28.25	1.0000	1.0000
L47	26	PL0.625x5 Reinforcement - Wind Area/Weight	28.00 - 28.25	1.0000	1.0000
L47	27	PL0.625x5 Reinforcement - Wind Area/Weight	28.00 - 28.25	1.0000	1.0000
L47	32	PL1.25x6 Reinforcement - Wind Area	28.00 - 28.25	1.0000	1.0000
L47	33	PL1.25x6 Reinforcement -	28.00 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L47	34	Wind Area PL1.25x6 Reinforcement -	28.25 28.00 -	1.0000	1.0000
L47	35	Wind Area PL1.25x6 Reinforcement -	28.25 28.00 -	1.0000	1.0000
L47	36	Wind Area PL1.25x6 Reinforcement -	28.25 28.00 -	1.0000	1.0000
L47	37	Wind Area PL1.25x6 Reinforcement -	28.25 28.00 -	1.0000	1.0000
L47	48	CCI-SFP-060100	28.00 - 28.25	1.0000	1.0000
L47	49	CCI-SFP-060100	28.00 - 28.25	1.0000	1.0000
L47	50	CCI-SFP-060100	28.00 - 28.25	1.0000	1.0000
L47	73	CCI-SFP-065125	28.00 - 28.25	1.0000	1.0000
L47	74	CCI-SFP-065125	28.00 - 28.25	1.0000	1.0000
L48	2	Safety Line 3/8	23.00 - 28.00	1.0000	1.0000
L48	3	Step Pegs	23.00 - 28.00	1.0000	1.0000
L48	13	CU12PSM9P6XXX(1-1/2)	23.00 - 28.00	1.0000	1.0000
L48	17	LDF4-50A(1/2)	23.00 - 28.00	1.0000	1.0000
L48	19	HB114-U6S12-XXX-LI(1-1/4)	23.00 - 28.00	1.0000	1.0000
L48	20	HB158-1-08U8-S8J18(1-5/8)	23.00 - 28.00	1.0000	1.0000
L48	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	23.00 - 28.00	1.0000	1.0000
L48	26	PL0.625x5 Reinforcement - Wind Area/Weight	23.00 - 28.00	1.0000	1.0000
L48	27	PL0.625x5 Reinforcement - Wind Area/Weight	23.00 - 28.00	1.0000	1.0000
L48	32	PL1.25x6 Reinforcement - Wind Area	23.00 - 28.00	1.0000	1.0000
L48	33	PL1.25x6 Reinforcement - Wind Area	23.00 - 28.00	1.0000	1.0000
L48	34	PL1.25x6 Reinforcement - Wind Area	23.00 - 28.00	1.0000	1.0000
L48	35	PL1.25x6 Reinforcement - Wind Area	27.75 - 28.00	1.0000	1.0000
L48	36	PL1.25x6 Reinforcement - Wind Area	27.75 - 28.00	1.0000	1.0000
L48	37	PL1.25x6 Reinforcement - Wind Area	27.75 - 28.00	1.0000	1.0000
L48	48	CCI-SFP-060100	23.00 - 28.00	1.0000	1.0000
L48	49	CCI-SFP-060100	23.00 - 28.00	1.0000	1.0000
L48	50	CCI-SFP-060100	23.00 - 28.00	1.0000	1.0000
L48	54	CCI-SFP-045100	23.00 - 27.75	1.0000	1.0000
L48	55	CCI-SFP-045100	23.00 - 27.75	1.0000	1.0000
L48	56	CCI-SFP-045100	23.00 - 27.75	1.0000	1.0000
L48	73	CCI-SFP-065125	25.50 - 28.00	1.0000	1.0000
L48	74	CCI-SFP-065125	25.50 - 28.00	1.0000	1.0000
L49	2	Safety Line 3/8	19.25 - 23.00	1.0000	1.0000
L49	3	Step Pegs	19.25 - 23.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L49	13	CU12PSM9P6XXX(1-1/2)	19.25 - 23.00	1.0000	1.0000
L49	17	LDF4-50A(1/2)	19.25 - 23.00	1.0000	1.0000
L49	19	HB114-U6S12-XXX-LI(1-1/4)	19.25 - 23.00	1.0000	1.0000
L49	20	HB158-1-08U8-S8J18(1-5/8)	19.25 - 23.00	1.0000	1.0000
L49	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	19.25 - 23.00	1.0000	1.0000
L49	26	PL0.625x5 Reinforcement - Wind Area/Weight	19.25 - 23.00	1.0000	1.0000
L49	27	PL0.625x5 Reinforcement - Wind Area/Weight	19.25 - 23.00	1.0000	1.0000
L49	32	PL1.25x6 Reinforcement - Wind Area	19.25 - 23.00	1.0000	1.0000
L49	33	PL1.25x6 Reinforcement - Wind Area	19.25 - 23.00	1.0000	1.0000
L49	34	PL1.25x6 Reinforcement - Wind Area	19.25 - 23.00	1.0000	1.0000
L49	48	CCI-SFP-060100	19.25 - 23.00	1.0000	1.0000
L49	49	CCI-SFP-060100	19.25 - 23.00	1.0000	1.0000
L49	50	CCI-SFP-060100	19.25 - 23.00	1.0000	1.0000
L49	54	CCI-SFP-045100	19.25 - 23.00	1.0000	1.0000
L49	55	CCI-SFP-045100	19.25 - 23.00	1.0000	1.0000
L49	56	CCI-SFP-045100	19.25 - 23.00	1.0000	1.0000
L50	2	Safety Line 3/8	19.00 - 19.25	1.0000	1.0000
L50	3	Step Pegs	19.00 - 19.25	1.0000	1.0000
L50	13	CU12PSM9P6XXX(1-1/2)	19.00 - 19.25	1.0000	1.0000
L50	17	LDF4-50A(1/2)	19.00 - 19.25	1.0000	1.0000
L50	19	HB114-U6S12-XXX-LI(1-1/4)	19.00 - 19.25	1.0000	1.0000
L50	20	HB158-1-08U8-S8J18(1-5/8)	19.00 - 19.25	1.0000	1.0000
L50	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	19.00 - 19.25	1.0000	1.0000
L50	26	PL0.625x5 Reinforcement - Wind Area/Weight	19.00 - 19.25	1.0000	1.0000
L50	27	PL0.625x5 Reinforcement - Wind Area/Weight	19.00 - 19.25	1.0000	1.0000
L50	32	PL1.25x6 Reinforcement - Wind Area	19.00 - 19.25	1.0000	1.0000
L50	33	PL1.25x6 Reinforcement - Wind Area	19.00 - 19.25	1.0000	1.0000
L50	34	PL1.25x6 Reinforcement - Wind Area	19.00 - 19.25	1.0000	1.0000
L50	48	CCI-SFP-060100	19.00 - 19.25	1.0000	1.0000
L50	49	CCI-SFP-060100	19.00 - 19.25	1.0000	1.0000
L50	50	CCI-SFP-060100	19.00 - 19.25	1.0000	1.0000
L50	54	CCI-SFP-045100	19.00 - 19.25	1.0000	1.0000
L50	55	CCI-SFP-045100	19.00 - 19.25	1.0000	1.0000
L50	56	CCI-SFP-045100	19.00 - 19.25	1.0000	1.0000
L51	2	Safety Line 3/8	14.00 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L51	3	Step Pegs	19.00 - 14.00	1.0000	1.0000
L51	13	CU12PSM9P6XXX(1-1/2)	19.00 - 14.00	1.0000	1.0000
L51	17	LDF4-50A(1/2)	19.00 - 14.00	1.0000	1.0000
L51	19	HB114-U6S12-XXX-LI(1-1/4)	19.00 - 14.00	1.0000	1.0000
L51	20	HB158-1-08U8-S8J18(1-5/8)	19.00 - 14.00	1.0000	1.0000
L51	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	19.00 - 14.00	1.0000	1.0000
L51	26	PL0.625x5 Reinforcement - Wind Area/Weight	19.00 - 14.00	1.0000	1.0000
L51	27	PL0.625x5 Reinforcement - Wind Area/Weight	19.00 - 14.00	1.0000	1.0000
L51	32	PL1.25x6 Reinforcement - Wind Area	19.00 - 14.00	1.0000	1.0000
L51	33	PL1.25x6 Reinforcement - Wind Area	19.00 - 14.00	1.0000	1.0000
L51	34	PL1.25x6 Reinforcement - Wind Area	19.00 - 14.00	1.0000	1.0000
L51	48	CCI-SFP-060100	19.00 - 14.00	1.0000	1.0000
L51	49	CCI-SFP-060100	19.00 - 14.00	1.0000	1.0000
L51	50	CCI-SFP-060100	19.00 - 14.00	1.0000	1.0000
L51	54	CCI-SFP-045100	19.00 - 17.75	1.0000	1.0000
L51	55	CCI-SFP-045100	19.00 - 17.75	1.0000	1.0000
L51	56	CCI-SFP-045100	19.00 - 17.75	1.0000	1.0000
L52	2	Safety Line 3/8	14.00 - 10.00	1.0000	1.0000
L52	3	Step Pegs	14.00 - 10.00	1.0000	1.0000
L52	13	CU12PSM9P6XXX(1-1/2)	14.00 - 9.00	1.0000	1.0000
L52	17	LDF4-50A(1/2)	14.00 - 9.00	1.0000	1.0000
L52	19	HB114-U6S12-XXX-LI(1-1/4)	14.00 - 9.00	1.0000	1.0000
L52	20	HB158-1-08U8-S8J18(1-5/8)	14.00 - 9.00	1.0000	1.0000
L52	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	14.00 - 9.00	1.0000	1.0000
L52	26	PL0.625x5 Reinforcement - Wind Area/Weight	14.00 - 9.00	1.0000	1.0000
L52	27	PL0.625x5 Reinforcement - Wind Area/Weight	14.00 - 9.00	1.0000	1.0000
L52	32	PL1.25x6 Reinforcement - Wind Area	14.00 - 9.00	1.0000	1.0000
L52	33	PL1.25x6 Reinforcement - Wind Area	14.00 - 9.00	1.0000	1.0000
L52	34	PL1.25x6 Reinforcement - Wind Area	14.00 - 9.00	1.0000	1.0000
L52	48	CCI-SFP-060100	14.00 - 9.00	1.0000	1.0000
L52	49	CCI-SFP-060100	14.00 - 9.00	1.0000	1.0000
L52	50	CCI-SFP-060100	14.00 - 9.00	1.0000	1.0000
L53	13	CU12PSM9P6XXX(1-1/2)	9.00 - 8.00	1.0000	1.0000
L53	17	LDF4-50A(1/2)	9.00 - 8.00	1.0000	1.0000
L53	19	HB114-U6S12-XXX-LI(1-1/4)	9.00 - 8.00	1.0000	1.0000
L53	20	HB158-1-08U8-S8J18(1-5/8)	9.00 - 8.00	1.0000	1.0000
L53	24	MLE Hybrid 3Power/6Fiber RL 2(1-1/4)	9.00 - 8.00	1.0000	1.0000
L53	26	PL0.625x5 Reinforcement	9.00 - 4.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L53	27	- Wind Area/Weight PL0.625x5 Reinforcement	4.00 - 9.00	1.0000	1.0000
L53	32	- Wind Area/Weight PL1.25x6 Reinforcement - Wind Area	4.00 - 9.00	1.0000	1.0000
L53	33	PL1.25x6 Reinforcement - Wind Area	4.00 - 9.00	1.0000	1.0000
L53	34	PL1.25x6 Reinforcement - Wind Area	4.00 - 9.00	1.0000	1.0000
L53	48	CCI-SFP-060100	4.00 - 9.00	1.0000	1.0000
L53	49	CCI-SFP-060100	4.00 - 9.00	1.0000	1.0000
L53	50	CCI-SFP-060100	4.00 - 9.00	1.0000	1.0000
L54	26	PL0.625x5 Reinforcement - Wind Area/Weight	0.00 - 4.00	1.0000	1.0000
L54	27	PL0.625x5 Reinforcement - Wind Area/Weight	0.00 - 4.00	1.0000	1.0000
L54	32	PL1.25x6 Reinforcement - Wind Area	0.00 - 4.00	1.0000	1.0000
L54	33	PL1.25x6 Reinforcement - Wind Area	0.00 - 4.00	1.0000	1.0000
L54	34	PL1.25x6 Reinforcement - Wind Area	0.00 - 4.00	1.0000	1.0000
L54	48	CCI-SFP-060100	0.00 - 4.00	1.0000	1.0000
L54	49	CCI-SFP-060100	0.00 - 4.00	1.0000	1.0000
L54	50	CCI-SFP-060100	0.00 - 4.00	1.0000	1.0000

Effective Width of Flat Linear Attachments / Feed Lines

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L9	60	CCI-SFP-045100	125.75 - 127.33	Auto	0.0962
L9	61	CCI-SFP-045100	125.75 - 127.33	Auto	0.0962
L9	62	CCI-SFP-045100	125.75 - 127.33	Auto	0.0962
L10	60	CCI-SFP-045100	125.50 - 125.75	Auto	0.0903
L10	61	CCI-SFP-045100	125.50 - 125.75	Auto	0.0903
L10	62	CCI-SFP-045100	125.50 - 125.75	Auto	0.0903
L11	60	CCI-SFP-045100	120.50 - 125.50	Auto	0.0734
L11	61	CCI-SFP-045100	120.50 - 125.50	Auto	0.0734
L11	62	CCI-SFP-045100	120.50 - 125.50	Auto	0.0734
L11	64	CCI-SFP-040125	120.50 - 122.00	Auto	0.0000
L11	65	CCI-SFP-040125	120.50 - 122.00	Auto	0.0000
L12	60	CCI-SFP-045100	120.25 - 120.50	Auto	0.1469
L12	61	CCI-SFP-045100	120.25 - 120.50	Auto	0.1469
L12	62	CCI-SFP-045100	120.25 - 120.50	Auto	0.1469
L12	64	CCI-SFP-040125	120.25 - 120.50	Auto	0.0403
L12	65	CCI-SFP-040125	120.25 - 120.50	Auto	0.0403
L13	28	PL0.625x5 Reinforcement - Wind Area/Weight	115.25 - 120.00	Auto	0.2141

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L13	29	PL0.625x5 Reinforcement - Wind Area/Weight	115.25 - 120.00	Auto	0.2141
L13	30	PL0.625x5 Reinforcement - Wind Area/Weight	115.25 - 120.00	Auto	0.2141
L13	44	PL1.25x5 Reinforcement - Wind Area	115.25 - 115.83	Auto	0.2020
L13	45	PL1.25x5 Reinforcement - Wind Area	115.25 - 115.83	Auto	0.2020
L13	46	PL1.25x5 Reinforcement - Wind Area	115.25 - 115.83	Auto	0.2020
L13	60	CCI-SFP-045100	115.25 - 120.25	Auto	0.1276
L13	61	CCI-SFP-045100	115.25 - 120.25	Auto	0.1276
L13	62	CCI-SFP-045100	115.25 - 120.25	Auto	0.1276
L13	64	CCI-SFP-040125	115.25 - 120.25	Auto	0.0186
L13	65	CCI-SFP-040125	115.25 - 120.25	Auto	0.0186
L14	28	PL0.625x5 Reinforcement - Wind Area/Weight	113.83 - 115.25	Auto	0.1941
L14	29	PL0.625x5 Reinforcement - Wind Area/Weight	113.83 - 115.25	Auto	0.1941
L14	30	PL0.625x5 Reinforcement - Wind Area/Weight	113.83 - 115.25	Auto	0.1941
L14	44	PL1.25x5 Reinforcement - Wind Area	113.83 - 115.25	Auto	0.1941
L14	45	PL1.25x5 Reinforcement - Wind Area	113.83 - 115.25	Auto	0.1941
L14	46	PL1.25x5 Reinforcement - Wind Area	113.83 - 115.25	Auto	0.1941
L14	60	CCI-SFP-045100	113.83 - 115.25	Auto	0.1045
L14	61	CCI-SFP-045100	113.83 - 115.25	Auto	0.1045
L14	62	CCI-SFP-045100	113.83 - 115.25	Auto	0.1045
L14	64	CCI-SFP-040125	113.83 - 115.25	Auto	0.0000
L14	65	CCI-SFP-040125	113.83 - 115.25	Auto	0.0000
L15	28	PL0.625x5 Reinforcement - Wind Area/Weight	113.48 - 113.83	Auto	0.2527
L15	29	PL0.625x5 Reinforcement - Wind Area/Weight	113.48 - 113.83	Auto	0.2527
L15	30	PL0.625x5 Reinforcement - Wind Area/Weight	113.48 - 113.83	Auto	0.2527
L15	44	PL1.25x5 Reinforcement - Wind Area	113.48 - 113.83	Auto	0.2527
L15	45	PL1.25x5 Reinforcement - Wind Area	113.48 - 113.83	Auto	0.2527
L15	46	PL1.25x5 Reinforcement - Wind Area	113.48 - 113.83	Auto	0.2527
L15	60	CCI-SFP-045100	113.48 - 113.83	Auto	0.1697
L15	61	CCI-SFP-045100	113.48 - 113.83	Auto	0.1697
L15	62	CCI-SFP-045100	113.48 - 113.83	Auto	0.1697
L15	64	CCI-SFP-040125	113.48 - 113.83	Auto	0.0659
L15	65	CCI-SFP-040125	113.48 - 113.83	Auto	0.0659
L16	28	PL0.625x5 Reinforcement - Wind Area/Weight	113.25 - 113.48	Auto	0.2510
L16	29	PL0.625x5 Reinforcement - Wind Area/Weight	113.25 - 113.48	Auto	0.2510

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L16	30	PL0.625x5 Reinforcement - Wind Area/Weight	113.25 - 113.48	Auto	0.2510
L16	44	PL1.25x5 Reinforcement - Wind Area	113.25 - 113.48	Auto	0.2510
L16	45	PL1.25x5 Reinforcement - Wind Area	113.25 - 113.48	Auto	0.2510
L16	46	PL1.25x5 Reinforcement - Wind Area	113.25 - 113.48	Auto	0.2510
L16	60	CCI-SFP-045100	113.25 - 113.48	Auto	0.1678
L16	61	CCI-SFP-045100	113.25 - 113.48	Auto	0.1678
L16	62	CCI-SFP-045100	113.25 - 113.48	Auto	0.1678
L16	64	CCI-SFP-040125	113.25 - 113.48	Auto	0.0638
L16	65	CCI-SFP-040125	113.25 - 113.48	Auto	0.0638
L17	28	PL0.625x5 Reinforcement - Wind Area/Weight	108.25 - 113.25	Auto	0.2315
L17	29	PL0.625x5 Reinforcement - Wind Area/Weight	108.25 - 113.25	Auto	0.2315
L17	30	PL0.625x5 Reinforcement - Wind Area/Weight	108.25 - 113.25	Auto	0.2315
L17	44	PL1.25x5 Reinforcement - Wind Area	108.25 - 113.25	Auto	0.2315
L17	45	PL1.25x5 Reinforcement - Wind Area	108.25 - 113.25	Auto	0.2315
L17	46	PL1.25x5 Reinforcement - Wind Area	108.25 - 113.25	Auto	0.2315
L17	60	CCI-SFP-045100	108.25 - 113.25	Auto	0.1461
L17	61	CCI-SFP-045100	108.25 - 113.25	Auto	0.1461
L17	62	CCI-SFP-045100	108.25 - 113.25	Auto	0.1461
L17	64	CCI-SFP-040125	112.00 - 113.25	Auto	0.0529
L17	65	CCI-SFP-040125	112.00 - 113.25	Auto	0.0529
L18	28	PL0.625x5 Reinforcement - Wind Area/Weight	103.25 - 108.25	Auto	0.1981
L18	29	PL0.625x5 Reinforcement - Wind Area/Weight	103.25 - 108.25	Auto	0.1981
L18	30	PL0.625x5 Reinforcement - Wind Area/Weight	103.25 - 108.25	Auto	0.1981
L18	44	PL1.25x5 Reinforcement - Wind Area	103.25 - 108.25	Auto	0.1981
L18	45	PL1.25x5 Reinforcement - Wind Area	103.25 - 108.25	Auto	0.1981
L18	46	PL1.25x5 Reinforcement - Wind Area	103.25 - 108.25	Auto	0.1981
L18	60	CCI-SFP-045100	103.25 - 108.25	Auto	0.1090
L18	61	CCI-SFP-045100	103.25 - 108.25	Auto	0.1090
L18	62	CCI-SFP-045100	103.25 - 108.25	Auto	0.1090
L19	28	PL0.625x5 Reinforcement - Wind Area/Weight	98.25 - 103.25	Auto	0.1647
L19	29	PL0.625x5 Reinforcement - Wind Area/Weight	98.25 - 103.25	Auto	0.1647
L19	30	PL0.625x5 Reinforcement - Wind Area/Weight	98.25 - 103.25	Auto	0.1647
L19	44	PL1.25x5 Reinforcement - Wind Area	98.25 - 103.25	Auto	0.1647
L19	45	PL1.25x5 Reinforcement - Wind Area	98.25 - 103.25	Auto	0.1647

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L19	46	PL1.25x5 Reinforcement - Wind Area	98.25 - 103.25	Auto	0.1647
L19	60	CCI-SFP-045100	98.25 - 103.25	Auto	0.0719
L19	61	CCI-SFP-045100	98.25 - 103.25	Auto	0.0719
L19	62	CCI-SFP-045100	98.25 - 103.25	Auto	0.0719
L20	28	PL0.625x5 Reinforcement - Wind Area/Weight	93.25 - 98.25	Auto	0.1314
L20	29	PL0.625x5 Reinforcement - Wind Area/Weight	93.25 - 98.25	Auto	0.1314
L20	30	PL0.625x5 Reinforcement - Wind Area/Weight	93.25 - 98.25	Auto	0.1314
L20	44	PL1.25x5 Reinforcement - Wind Area	93.25 - 98.25	Auto	0.1314
L20	45	PL1.25x5 Reinforcement - Wind Area	93.25 - 98.25	Auto	0.1314
L20	46	PL1.25x5 Reinforcement - Wind Area	93.25 - 98.25	Auto	0.1314
L20	60	CCI-SFP-045100	93.25 - 98.25	Auto	0.0349
L20	61	CCI-SFP-045100	93.25 - 98.25	Auto	0.0349
L20	62	CCI-SFP-045100	93.25 - 98.25	Auto	0.0349
L21	28	PL0.625x5 Reinforcement - Wind Area/Weight	84.72 - 93.25	Auto	0.0922
L21	29	PL0.625x5 Reinforcement - Wind Area/Weight	84.72 - 93.25	Auto	0.0922
L21	30	PL0.625x5 Reinforcement - Wind Area/Weight	84.72 - 93.25	Auto	0.0922
L21	41	PL1.25x5 Reinforcement - Wind Area	84.72 - 87.92	Auto	0.0767
L21	42	PL1.25x5 Reinforcement - Wind Area	84.72 - 87.92	Auto	0.0767
L21	43	PL1.25x5 Reinforcement - Wind Area	84.72 - 87.92	Auto	0.0767
L21	44	PL1.25x5 Reinforcement - Wind Area	85.83 - 93.25	Auto	0.0954
L21	45	PL1.25x5 Reinforcement - Wind Area	85.83 - 93.25	Auto	0.0954
L21	46	PL1.25x5 Reinforcement - Wind Area	85.83 - 93.25	Auto	0.0954
L21	60	CCI-SFP-045100	87.92 - 93.25	Auto	0.0051
L21	61	CCI-SFP-045100	87.92 - 93.25	Auto	0.0051
L21	62	CCI-SFP-045100	87.92 - 93.25	Auto	0.0051
L21	67	CCI-SFP-050125	84.72 - 90.50	Auto	0.0842
L21	68	CCI-SFP-050125	84.72 - 90.50	Auto	0.0842
L22	26	PL0.625x5 Reinforcement - Wind Area/Weight	83.72 - 84.67	Auto	0.1041
L22	27	PL0.625x5 Reinforcement - Wind Area/Weight	83.72 - 84.67	Auto	0.1041
L22	28	PL0.625x5 Reinforcement - Wind Area/Weight	84.67 - 84.72	Auto	0.1070
L22	29	PL0.625x5 Reinforcement - Wind Area/Weight	84.67 - 84.72	Auto	0.1070
L22	30	PL0.625x5 Reinforcement - Wind Area/Weight	84.67 - 84.72	Auto	0.1070
L22	41	PL1.25x5 Reinforcement - Wind Area	83.72 - 84.72	Auto	0.1042
L22	42	PL1.25x5 Reinforcement - Wind Area	83.72 - 84.72	Auto	0.1042

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L22	43	PL1.25x5 Reinforcement - Wind Area	83.72 - 84.72	Auto	0.1042
L22	51	CCI-SFP-045100	83.72 - 84.33	Auto	0.0035
L22	52	CCI-SFP-045100	83.72 - 84.33	Auto	0.0035
L22	53	CCI-SFP-045100	83.72 - 84.33	Auto	0.0035
L22	67	CCI-SFP-050125	83.72 - 84.72	Auto	0.1042
L22	68	CCI-SFP-050125	83.72 - 84.72	Auto	0.1042
L23	26	PL0.625x5 Reinforcement - Wind Area/Weight	82.92 - 83.72	Auto	0.0990
L23	27	PL0.625x5 Reinforcement - Wind Area/Weight	82.92 - 83.72	Auto	0.0990
L23	41	PL1.25x5 Reinforcement - Wind Area	82.92 - 83.72	Auto	0.0990
L23	42	PL1.25x5 Reinforcement - Wind Area	82.92 - 83.72	Auto	0.0990
L23	43	PL1.25x5 Reinforcement - Wind Area	82.92 - 83.72	Auto	0.0990
L23	51	CCI-SFP-045100	82.92 - 83.72	Auto	0.0002
L23	52	CCI-SFP-045100	82.92 - 83.72	Auto	0.0002
L23	53	CCI-SFP-045100	82.92 - 83.72	Auto	0.0002
L23	67	CCI-SFP-050125	82.92 - 83.72	Auto	0.0990
L23	68	CCI-SFP-050125	82.92 - 83.72	Auto	0.0990
L24	26	PL0.625x5 Reinforcement - Wind Area/Weight	82.67 - 82.92	Auto	0.1972
L24	27	PL0.625x5 Reinforcement - Wind Area/Weight	82.67 - 82.92	Auto	0.1972
L24	41	PL1.25x5 Reinforcement - Wind Area	82.67 - 82.92	Auto	0.1972
L24	42	PL1.25x5 Reinforcement - Wind Area	82.67 - 82.92	Auto	0.1972
L24	43	PL1.25x5 Reinforcement - Wind Area	82.67 - 82.92	Auto	0.1972
L24	51	CCI-SFP-045100	82.67 - 82.92	Auto	0.1080
L24	52	CCI-SFP-045100	82.67 - 82.92	Auto	0.1080
L24	53	CCI-SFP-045100	82.67 - 82.92	Auto	0.1080
L24	67	CCI-SFP-050125	82.67 - 82.92	Auto	0.1972
L24	68	CCI-SFP-050125	82.67 - 82.92	Auto	0.1972
L25	26	PL0.625x5 Reinforcement - Wind Area/Weight	82.50 - 82.67	Auto	0.1960
L25	27	PL0.625x5 Reinforcement - Wind Area/Weight	82.50 - 82.67	Auto	0.1960
L25	41	PL1.25x5 Reinforcement - Wind Area	82.50 - 82.67	Auto	0.1960
L25	42	PL1.25x5 Reinforcement - Wind Area	82.50 - 82.67	Auto	0.1960
L25	43	PL1.25x5 Reinforcement - Wind Area	82.50 - 82.67	Auto	0.1960
L25	51	CCI-SFP-045100	82.50 - 82.67	Auto	0.1067
L25	52	CCI-SFP-045100	82.50 - 82.67	Auto	0.1067
L25	53	CCI-SFP-045100	82.50 - 82.67	Auto	0.1067

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L25	67	CCI-SFP-050125	82.50 - 82.67	Auto	0.1960
L25	68	CCI-SFP-050125	82.50 - 82.67	Auto	0.1960
L26	26	PL0.625x5 Reinforcement - Wind Area/Weight	82.25 - 82.50	Auto	0.1024
L26	27	PL0.625x5 Reinforcement - Wind Area/Weight	82.25 - 82.50	Auto	0.1024
L26	41	PL1.25x5 Reinforcement - Wind Area	82.25 - 82.50	Auto	0.1024
L26	42	PL1.25x5 Reinforcement - Wind Area	82.25 - 82.50	Auto	0.1024
L26	43	PL1.25x5 Reinforcement - Wind Area	82.25 - 82.50	Auto	0.1024
L26	51	CCI-SFP-045100	82.25 - 82.50	Auto	0.0027
L26	52	CCI-SFP-045100	82.25 - 82.50	Auto	0.0027
L26	53	CCI-SFP-045100	82.25 - 82.50	Auto	0.0027
L26	67	CCI-SFP-050125	82.25 - 82.50	Auto	0.1024
L26	68	CCI-SFP-050125	82.25 - 82.50	Auto	0.1024
L27	26	PL0.625x5 Reinforcement - Wind Area/Weight	77.25 - 82.25	Auto	0.0828
L27	27	PL0.625x5 Reinforcement - Wind Area/Weight	77.25 - 82.25	Auto	0.0828
L27	41	PL1.25x5 Reinforcement - Wind Area	77.25 - 82.25	Auto	0.0828
L27	42	PL1.25x5 Reinforcement - Wind Area	77.25 - 82.25	Auto	0.0828
L27	43	PL1.25x5 Reinforcement - Wind Area	77.25 - 82.25	Auto	0.0828
L27	51	CCI-SFP-045100	77.25 - 82.25	Auto	0.0000
L27	52	CCI-SFP-045100	77.25 - 82.25	Auto	0.0000
L27	53	CCI-SFP-045100	77.25 - 82.25	Auto	0.0000
L27	67	CCI-SFP-050125	80.50 - 82.25	Auto	0.0922
L27	68	CCI-SFP-050125	80.50 - 82.25	Auto	0.0922
L28	26	PL0.625x5 Reinforcement - Wind Area/Weight	73.42 - 77.25	Auto	0.0529
L28	27	PL0.625x5 Reinforcement - Wind Area/Weight	73.42 - 77.25	Auto	0.0529
L28	38	PL1.25x5 Reinforcement - Wind Area	73.42 - 75.42	Auto	0.0476
L28	39	PL1.25x5 Reinforcement - Wind Area	73.42 - 75.42	Auto	0.0476
L28	40	PL1.25x5 Reinforcement - Wind Area	73.42 - 75.42	Auto	0.0476
L28	41	PL1.25x5 Reinforcement - Wind Area	73.42 - 77.25	Auto	0.0529
L28	42	PL1.25x5 Reinforcement - Wind Area	73.42 - 77.25	Auto	0.0529
L28	43	PL1.25x5 Reinforcement - Wind Area	73.42 - 77.25	Auto	0.0529
L28	51	CCI-SFP-045100	73.42 - 77.25	Auto	0.0000
L28	52	CCI-SFP-045100	73.42 - 77.25	Auto	0.0000
L28	53	CCI-SFP-045100	73.42 - 77.25	Auto	0.0000
L29	26	PL0.625x5 Reinforcement - Wind Area/Weight	73.17 - 73.42	Auto	0.1379

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L29	27	PL0.625x5 Reinforcement - Wind Area/Weight	73.17 - 73.42	Auto	0.1379
L29	38	PL1.25x5 Reinforcement - Wind Area	73.17 - 73.42	Auto	0.1379
L29	39	PL1.25x5 Reinforcement - Wind Area	73.17 - 73.42	Auto	0.1379
L29	40	PL1.25x5 Reinforcement - Wind Area	73.17 - 73.42	Auto	0.1379
L29	41	PL1.25x5 Reinforcement - Wind Area	73.17 - 73.42	Auto	0.1379
L29	42	PL1.25x5 Reinforcement - Wind Area	73.17 - 73.42	Auto	0.1379
L29	43	PL1.25x5 Reinforcement - Wind Area	73.17 - 73.42	Auto	0.1379
L29	51	CCI-SFP-045100	73.17 - 73.42	Auto	0.0421
L29	52	CCI-SFP-045100	73.17 - 73.42	Auto	0.0421
L29	53	CCI-SFP-045100	73.17 - 73.42	Auto	0.0421
L30	26	PL0.625x5 Reinforcement - Wind Area/Weight	68.17 - 73.17	Auto	0.1139
L30	27	PL0.625x5 Reinforcement - Wind Area/Weight	68.17 - 73.17	Auto	0.1139
L30	38	PL1.25x5 Reinforcement - Wind Area	68.17 - 73.17	Auto	0.1139
L30	39	PL1.25x5 Reinforcement - Wind Area	68.17 - 73.17	Auto	0.1139
L30	40	PL1.25x5 Reinforcement - Wind Area	68.17 - 73.17	Auto	0.1139
L30	41	PL1.25x5 Reinforcement - Wind Area	72.75 - 73.17	Auto	0.1272
L30	42	PL1.25x5 Reinforcement - Wind Area	72.75 - 73.17	Auto	0.1272
L30	43	PL1.25x5 Reinforcement - Wind Area	72.75 - 73.17	Auto	0.1272
L30	51	CCI-SFP-045100	68.17 - 73.17	Auto	0.0155
L30	52	CCI-SFP-045100	68.17 - 73.17	Auto	0.0155
L30	53	CCI-SFP-045100	68.17 - 73.17	Auto	0.0155
L30	57	CCI-SFP-045100	68.17 - 72.75	Auto	0.0142
L30	58	CCI-SFP-045100	68.17 - 72.75	Auto	0.0142
L30	59	CCI-SFP-045100	68.17 - 72.75	Auto	0.0142
L31	26	PL0.625x5 Reinforcement - Wind Area/Weight	64.25 - 68.17	Auto	0.0794
L31	27	PL0.625x5 Reinforcement - Wind Area/Weight	64.25 - 68.17	Auto	0.0794
L31	38	PL1.25x5 Reinforcement - Wind Area	64.25 - 68.17	Auto	0.0794
L31	39	PL1.25x5 Reinforcement - Wind Area	64.25 - 68.17	Auto	0.0794
L31	40	PL1.25x5 Reinforcement - Wind Area	64.25 - 68.17	Auto	0.0794
L31	51	CCI-SFP-045100	64.25 - 68.17	Auto	0.0000
L31	52	CCI-SFP-045100	64.25 - 68.17	Auto	0.0000
L31	53	CCI-SFP-045100	64.25 - 68.17	Auto	0.0000
L31	57	CCI-SFP-045100	64.25 - 68.17	Auto	0.0000
L31	58	CCI-SFP-045100	64.25 - 68.17	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L31	59	CCI-SFP-045100	64.25 - 68.17	Auto	0.0000
L32	26	PL0.625x5 Reinforcement - Wind Area/Weight	64.00 - 64.25	Auto	0.0146
L32	27	PL0.625x5 Reinforcement - Wind Area/Weight	64.00 - 64.25	Auto	0.0146
L32	38	PL1.25x5 Reinforcement - Wind Area	64.00 - 64.25	Auto	0.0146
L32	39	PL1.25x5 Reinforcement - Wind Area	64.00 - 64.25	Auto	0.0146
L32	40	PL1.25x5 Reinforcement - Wind Area	64.00 - 64.25	Auto	0.0146
L32	51	CCI-SFP-045100	64.00 - 64.25	Auto	0.0000
L32	52	CCI-SFP-045100	64.00 - 64.25	Auto	0.0000
L32	53	CCI-SFP-045100	64.00 - 64.25	Auto	0.0000
L32	57	CCI-SFP-045100	64.00 - 64.25	Auto	0.0000
L32	58	CCI-SFP-045100	64.00 - 64.25	Auto	0.0000
L32	59	CCI-SFP-045100	64.00 - 64.25	Auto	0.0000
L33	26	PL0.625x5 Reinforcement - Wind Area/Weight	59.00 - 64.00	Auto	0.0033
L33	27	PL0.625x5 Reinforcement - Wind Area/Weight	59.00 - 64.00	Auto	0.0033
L33	38	PL1.25x5 Reinforcement - Wind Area	59.00 - 64.00	Auto	0.0033
L33	39	PL1.25x5 Reinforcement - Wind Area	59.00 - 64.00	Auto	0.0033
L33	40	PL1.25x5 Reinforcement - Wind Area	59.00 - 64.00	Auto	0.0033
L33	51	CCI-SFP-045100	59.00 - 64.00	Auto	0.0000
L33	52	CCI-SFP-045100	59.00 - 64.00	Auto	0.0000
L33	53	CCI-SFP-045100	59.00 - 64.00	Auto	0.0000
L33	57	CCI-SFP-045100	62.75 - 64.00	Auto	0.0000
L33	58	CCI-SFP-045100	62.75 - 64.00	Auto	0.0000
L33	59	CCI-SFP-045100	62.75 - 64.00	Auto	0.0000
L34	26	PL0.625x5 Reinforcement - Wind Area/Weight	54.00 - 59.00	Auto	0.0000
L34	27	PL0.625x5 Reinforcement - Wind Area/Weight	54.00 - 59.00	Auto	0.0000
L34	38	PL1.25x5 Reinforcement - Wind Area	54.00 - 59.00	Auto	0.0000
L34	39	PL1.25x5 Reinforcement - Wind Area	54.00 - 59.00	Auto	0.0000
L34	40	PL1.25x5 Reinforcement - Wind Area	54.00 - 59.00	Auto	0.0000
L34	51	CCI-SFP-045100	54.00 - 59.00	Auto	0.0000
L34	52	CCI-SFP-045100	54.00 - 59.00	Auto	0.0000
L34	53	CCI-SFP-045100	54.00 - 59.00	Auto	0.0000
L34	70	CCI-SFP-050125	54.00 - 55.50	Auto	0.0000
L34	71	CCI-SFP-050125	54.00 - 55.50	Auto	0.0000
L35	26	PL0.625x5 Reinforcement - Wind Area/Weight	53.50 - 54.00	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L35	27	PL0.625x5 Reinforcement - Wind Area/Weight	53.50 - 54.00	Auto	0.0000
L35	38	PL1.25x5 Reinforcement - Wind Area	53.50 - 54.00	Auto	0.0000
L35	39	PL1.25x5 Reinforcement - Wind Area	53.50 - 54.00	Auto	0.0000
L35	40	PL1.25x5 Reinforcement - Wind Area	53.50 - 54.00	Auto	0.0000
L35	51	CCI-SFP-045100	53.50 - 54.00	Auto	0.0000
L35	52	CCI-SFP-045100	53.50 - 54.00	Auto	0.0000
L35	53	CCI-SFP-045100	53.50 - 54.00	Auto	0.0000
L35	70	CCI-SFP-050125	53.50 - 54.00	Auto	0.0000
L35	71	CCI-SFP-050125	53.50 - 54.00	Auto	0.0000
L36	26	PL0.625x5 Reinforcement - Wind Area/Weight	53.25 - 53.50	Auto	0.0000
L36	27	PL0.625x5 Reinforcement - Wind Area/Weight	53.25 - 53.50	Auto	0.0000
L36	38	PL1.25x5 Reinforcement - Wind Area	53.25 - 53.50	Auto	0.0000
L36	39	PL1.25x5 Reinforcement - Wind Area	53.25 - 53.50	Auto	0.0000
L36	40	PL1.25x5 Reinforcement - Wind Area	53.25 - 53.50	Auto	0.0000
L36	51	CCI-SFP-045100	53.25 - 53.50	Auto	0.0000
L36	52	CCI-SFP-045100	53.25 - 53.50	Auto	0.0000
L36	53	CCI-SFP-045100	53.25 - 53.50	Auto	0.0000
L36	70	CCI-SFP-050125	53.25 - 53.50	Auto	0.0000
L36	71	CCI-SFP-050125	53.25 - 53.50	Auto	0.0000
L37	26	PL0.625x5 Reinforcement - Wind Area/Weight	43.83 - 53.25	Auto	0.0000
L37	27	PL0.625x5 Reinforcement - Wind Area/Weight	43.83 - 53.25	Auto	0.0000
L37	35	PL1.25x6 Reinforcement - Wind Area	43.83 - 47.92	Auto	0.1129
L37	36	PL1.25x6 Reinforcement - Wind Area	43.83 - 47.92	Auto	0.1129
L37	37	PL1.25x6 Reinforcement - Wind Area	43.83 - 47.92	Auto	0.1129
L37	38	PL1.25x5 Reinforcement - Wind Area	45.38 - 53.25	Auto	0.0000
L37	39	PL1.25x5 Reinforcement - Wind Area	45.38 - 53.25	Auto	0.0000
L37	40	PL1.25x5 Reinforcement - Wind Area	45.38 - 53.25	Auto	0.0000
L37	51	CCI-SFP-045100	43.83 - 53.25	Auto	0.0000
L37	52	CCI-SFP-045100	43.83 - 53.25	Auto	0.0000
L37	53	CCI-SFP-045100	43.83 - 53.25	Auto	0.0000
L37	70	CCI-SFP-050125	45.50 - 53.25	Auto	0.0000
L37	71	CCI-SFP-050125	45.50 - 53.25	Auto	0.0000
L38	26	PL0.625x5 Reinforcement - Wind Area/Weight	42.83 - 43.83	Auto	0.0000
L38	27	PL0.625x5 Reinforcement - Wind Area/Weight	42.83 - 43.83	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L38	35	PL1.25x6 Reinforcement - Wind Area	42.83 - 43.83	Auto	0.0934
L38	36	PL1.25x6 Reinforcement - Wind Area	42.83 - 43.83	Auto	0.0934
L38	37	PL1.25x6 Reinforcement - Wind Area	42.83 - 43.83	Auto	0.0934
L38	48	CCI-SFP-060100	42.83 - 43.75	Auto	0.0932
L38	49	CCI-SFP-060100	42.83 - 43.75	Auto	0.0932
L38	50	CCI-SFP-060100	42.83 - 43.75	Auto	0.0932
L38	51	CCI-SFP-045100	43.75 - 43.83	Auto	0.0000
L38	52	CCI-SFP-045100	43.75 - 43.83	Auto	0.0000
L38	53	CCI-SFP-045100	43.75 - 43.83	Auto	0.0000
L39	26	PL0.625x5 Reinforcement - Wind Area/Weight	41.75 - 42.83	Auto	0.0000
L39	27	PL0.625x5 Reinforcement - Wind Area/Weight	41.75 - 42.83	Auto	0.0000
L39	35	PL1.25x6 Reinforcement - Wind Area	41.75 - 42.83	Auto	0.0884
L39	36	PL1.25x6 Reinforcement - Wind Area	41.75 - 42.83	Auto	0.0884
L39	37	PL1.25x6 Reinforcement - Wind Area	41.75 - 42.83	Auto	0.0884
L39	48	CCI-SFP-060100	41.75 - 42.83	Auto	0.0884
L39	49	CCI-SFP-060100	41.75 - 42.83	Auto	0.0884
L39	50	CCI-SFP-060100	41.75 - 42.83	Auto	0.0884
L40	26	PL0.625x5 Reinforcement - Wind Area/Weight	41.50 - 41.75	Auto	0.0000
L40	27	PL0.625x5 Reinforcement - Wind Area/Weight	41.50 - 41.75	Auto	0.0000
L40	35	PL1.25x6 Reinforcement - Wind Area	41.50 - 41.75	Auto	0.0962
L40	36	PL1.25x6 Reinforcement - Wind Area	41.50 - 41.75	Auto	0.0962
L40	37	PL1.25x6 Reinforcement - Wind Area	41.50 - 41.75	Auto	0.0962
L40	48	CCI-SFP-060100	41.50 - 41.75	Auto	0.0962
L40	49	CCI-SFP-060100	41.50 - 41.75	Auto	0.0962
L40	50	CCI-SFP-060100	41.50 - 41.75	Auto	0.0962
L41	26	PL0.625x5 Reinforcement - Wind Area/Weight	36.50 - 41.50	Auto	0.0000
L41	27	PL0.625x5 Reinforcement - Wind Area/Weight	36.50 - 41.50	Auto	0.0000
L41	35	PL1.25x6 Reinforcement - Wind Area	36.50 - 41.50	Auto	0.0800
L41	36	PL1.25x6 Reinforcement - Wind Area	36.50 - 41.50	Auto	0.0800
L41	37	PL1.25x6 Reinforcement - Wind Area	36.50 - 41.50	Auto	0.0800
L41	48	CCI-SFP-060100	36.50 - 41.50	Auto	0.0800
L41	49	CCI-SFP-060100	36.50 - 41.50	Auto	0.0800
L41	50	CCI-SFP-060100	36.50 - 41.50	Auto	0.0800
L42	26	PL0.625x5 Reinforcement - Wind Area/Weight	32.75 - 36.50	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L42	27	PL0.625x5 Reinforcement - Wind Area/Weight	32.75 - 36.50	Auto	0.0000
L42	35	PL1.25x6 Reinforcement - Wind Area	32.75 - 36.50	Auto	0.0589
L42	36	PL1.25x6 Reinforcement - Wind Area	32.75 - 36.50	Auto	0.0589
L42	37	PL1.25x6 Reinforcement - Wind Area	32.75 - 36.50	Auto	0.0589
L42	48	CCI-SFP-060100	32.75 - 36.50	Auto	0.0589
L42	49	CCI-SFP-060100	32.75 - 36.50	Auto	0.0589
L42	50	CCI-SFP-060100	32.75 - 36.50	Auto	0.0589
L42	73	CCI-SFP-065125	32.75 - 35.50	Auto	0.1291
L42	74	CCI-SFP-065125	32.75 - 35.50	Auto	0.1291
L43	26	PL0.625x5 Reinforcement - Wind Area/Weight	32.50 - 32.75	Auto	0.0000
L43	27	PL0.625x5 Reinforcement - Wind Area/Weight	32.50 - 32.75	Auto	0.0000
L43	35	PL1.25x6 Reinforcement - Wind Area	32.50 - 32.75	Auto	0.1227
L43	36	PL1.25x6 Reinforcement - Wind Area	32.50 - 32.75	Auto	0.1227
L43	37	PL1.25x6 Reinforcement - Wind Area	32.50 - 32.75	Auto	0.1227
L43	48	CCI-SFP-060100	32.50 - 32.75	Auto	0.1227
L43	49	CCI-SFP-060100	32.50 - 32.75	Auto	0.1227
L43	50	CCI-SFP-060100	32.50 - 32.75	Auto	0.1227
L43	73	CCI-SFP-065125	32.50 - 32.75	Auto	0.1902
L43	74	CCI-SFP-065125	32.50 - 32.75	Auto	0.1902
L44	26	PL0.625x5 Reinforcement - Wind Area/Weight	29.73 - 32.50	Auto	0.0000
L44	27	PL0.625x5 Reinforcement - Wind Area/Weight	29.73 - 32.50	Auto	0.0000
L44	32	PL1.25x6 Reinforcement - Wind Area	29.73 - 30.75	Auto	0.0819
L44	33	PL1.25x6 Reinforcement - Wind Area	29.73 - 30.75	Auto	0.0819
L44	34	PL1.25x6 Reinforcement - Wind Area	29.73 - 30.75	Auto	0.0819
L44	35	PL1.25x6 Reinforcement - Wind Area	29.73 - 32.50	Auto	0.0861
L44	36	PL1.25x6 Reinforcement - Wind Area	29.73 - 32.50	Auto	0.0861
L44	37	PL1.25x6 Reinforcement - Wind Area	29.73 - 32.50	Auto	0.0861
L44	48	CCI-SFP-060100	29.73 - 32.50	Auto	0.0861
L44	49	CCI-SFP-060100	29.73 - 32.50	Auto	0.0861
L44	50	CCI-SFP-060100	29.73 - 32.50	Auto	0.0861
L44	73	CCI-SFP-065125	29.73 - 32.50	Auto	0.1564
L44	74	CCI-SFP-065125	29.73 - 32.50	Auto	0.1564
L45	26	PL0.625x5 Reinforcement - Wind Area/Weight	29.48 - 29.73	Auto	0.0000
L45	27	PL0.625x5 Reinforcement - Wind Area/Weight	29.48 - 29.73	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L45	32	PL1.25x6 Reinforcement - Wind Area	29.48 - 29.73	Auto	0.0789
L45	33	PL1.25x6 Reinforcement - Wind Area	29.48 - 29.73	Auto	0.0789
L45	34	PL1.25x6 Reinforcement - Wind Area	29.48 - 29.73	Auto	0.0789
L45	35	PL1.25x6 Reinforcement - Wind Area	29.48 - 29.73	Auto	0.0789
L45	36	PL1.25x6 Reinforcement - Wind Area	29.48 - 29.73	Auto	0.0789
L45	37	PL1.25x6 Reinforcement - Wind Area	29.48 - 29.73	Auto	0.0789
L45	48	CCI-SFP-060100	29.48 - 29.73	Auto	0.0789
L45	49	CCI-SFP-060100	29.48 - 29.73	Auto	0.0789
L45	50	CCI-SFP-060100	29.48 - 29.73	Auto	0.0789
L45	73	CCI-SFP-065125	29.48 - 29.73	Auto	0.1497
L45	74	CCI-SFP-065125	29.48 - 29.73	Auto	0.1497
L46	26	PL0.625x5 Reinforcement - Wind Area/Weight	28.25 - 29.48	Auto	0.0000
L46	27	PL0.625x5 Reinforcement - Wind Area/Weight	28.25 - 29.48	Auto	0.0000
L46	32	PL1.25x6 Reinforcement - Wind Area	28.25 - 29.48	Auto	0.0716
L46	33	PL1.25x6 Reinforcement - Wind Area	28.25 - 29.48	Auto	0.0716
L46	34	PL1.25x6 Reinforcement - Wind Area	28.25 - 29.48	Auto	0.0716
L46	35	PL1.25x6 Reinforcement - Wind Area	28.25 - 29.48	Auto	0.0716
L46	36	PL1.25x6 Reinforcement - Wind Area	28.25 - 29.48	Auto	0.0716
L46	37	PL1.25x6 Reinforcement - Wind Area	28.25 - 29.48	Auto	0.0716
L46	48	CCI-SFP-060100	28.25 - 29.48	Auto	0.0716
L46	49	CCI-SFP-060100	28.25 - 29.48	Auto	0.0716
L46	50	CCI-SFP-060100	28.25 - 29.48	Auto	0.0716
L46	73	CCI-SFP-065125	28.25 - 29.48	Auto	0.1430
L46	74	CCI-SFP-065125	28.25 - 29.48	Auto	0.1430
L47	26	PL0.625x5 Reinforcement - Wind Area/Weight	28.00 - 28.25	Auto	0.0000
L47	27	PL0.625x5 Reinforcement - Wind Area/Weight	28.00 - 28.25	Auto	0.0000
L47	32	PL1.25x6 Reinforcement - Wind Area	28.00 - 28.25	Auto	0.0864
L47	33	PL1.25x6 Reinforcement - Wind Area	28.00 - 28.25	Auto	0.0864
L47	34	PL1.25x6 Reinforcement - Wind Area	28.00 - 28.25	Auto	0.0864
L47	35	PL1.25x6 Reinforcement - Wind Area	28.00 - 28.25	Auto	0.0864
L47	36	PL1.25x6 Reinforcement - Wind Area	28.00 - 28.25	Auto	0.0864
L47	37	PL1.25x6 Reinforcement - Wind Area	28.00 - 28.25	Auto	0.0864
L47	48	CCI-SFP-060100	28.00 - 28.25	Auto	0.0864
L47	49	CCI-SFP-060100	28.00 - 28.25	Auto	0.0864

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L47	50	CCI-SFP-060100	28.00 - 28.25	Auto	0.0864
L47	73	CCI-SFP-065125	28.00 - 28.25	Auto	0.1567
L47	74	CCI-SFP-065125	28.00 - 28.25	Auto	0.1567
L48	26	PL0.625x5 Reinforcement - Wind Area/Weight	23.00 - 28.00	Auto	0.0000
L48	27	PL0.625x5 Reinforcement - Wind Area/Weight	23.00 - 28.00	Auto	0.0000
L48	32	PL1.25x6 Reinforcement - Wind Area	23.00 - 28.00	Auto	0.0738
L48	33	PL1.25x6 Reinforcement - Wind Area	23.00 - 28.00	Auto	0.0738
L48	34	PL1.25x6 Reinforcement - Wind Area	23.00 - 28.00	Auto	0.0738
L48	35	PL1.25x6 Reinforcement - Wind Area	27.75 - 28.00	Auto	0.0852
L48	36	PL1.25x6 Reinforcement - Wind Area	27.75 - 28.00	Auto	0.0852
L48	37	PL1.25x6 Reinforcement - Wind Area	27.75 - 28.00	Auto	0.0852
L48	48	CCI-SFP-060100	23.00 - 28.00	Auto	0.0738
L48	49	CCI-SFP-060100	23.00 - 28.00	Auto	0.0738
L48	50	CCI-SFP-060100	23.00 - 28.00	Auto	0.0738
L48	54	CCI-SFP-045100	23.00 - 27.75	Auto	0.0000
L48	55	CCI-SFP-045100	23.00 - 27.75	Auto	0.0000
L48	56	CCI-SFP-045100	23.00 - 27.75	Auto	0.0000
L48	73	CCI-SFP-065125	25.50 - 28.00	Auto	0.1506
L48	74	CCI-SFP-065125	25.50 - 28.00	Auto	0.1506
L49	26	PL0.625x5 Reinforcement - Wind Area/Weight	19.25 - 23.00	Auto	0.0000
L49	27	PL0.625x5 Reinforcement - Wind Area/Weight	19.25 - 23.00	Auto	0.0000
L49	32	PL1.25x6 Reinforcement - Wind Area	19.25 - 23.00	Auto	0.0491
L49	33	PL1.25x6 Reinforcement - Wind Area	19.25 - 23.00	Auto	0.0491
L49	34	PL1.25x6 Reinforcement - Wind Area	19.25 - 23.00	Auto	0.0491
L49	48	CCI-SFP-060100	19.25 - 23.00	Auto	0.0491
L49	49	CCI-SFP-060100	19.25 - 23.00	Auto	0.0491
L49	50	CCI-SFP-060100	19.25 - 23.00	Auto	0.0491
L49	54	CCI-SFP-045100	19.25 - 23.00	Auto	0.0000
L49	55	CCI-SFP-045100	19.25 - 23.00	Auto	0.0000
L49	56	CCI-SFP-045100	19.25 - 23.00	Auto	0.0000
L50	26	PL0.625x5 Reinforcement - Wind Area/Weight	19.00 - 19.25	Auto	0.0000
L50	27	PL0.625x5 Reinforcement - Wind Area/Weight	19.00 - 19.25	Auto	0.0000
L50	32	PL1.25x6 Reinforcement - Wind Area	19.00 - 19.25	Auto	0.0065
L50	33	PL1.25x6 Reinforcement - Wind Area	19.00 - 19.25	Auto	0.0065

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L50	34	PL1.25x6 Reinforcement - Wind Area	19.00 - 19.25	Auto	0.0065
L50	48	CCI-SFP-060100	19.00 - 19.25	Auto	0.0065
L50	49	CCI-SFP-060100	19.00 - 19.25	Auto	0.0065
L50	50	CCI-SFP-060100	19.00 - 19.25	Auto	0.0065
L50	54	CCI-SFP-045100	19.00 - 19.25	Auto	0.0000
L50	55	CCI-SFP-045100	19.00 - 19.25	Auto	0.0000
L50	56	CCI-SFP-045100	19.00 - 19.25	Auto	0.0000
L51	26	PL0.625x5 Reinforcement - Wind Area/Weight	14.00 - 19.00	Auto	0.0000
L51	27	PL0.625x5 Reinforcement - Wind Area/Weight	14.00 - 19.00	Auto	0.0000
L51	32	PL1.25x6 Reinforcement - Wind Area	14.00 - 19.00	Auto	0.0000
L51	33	PL1.25x6 Reinforcement - Wind Area	14.00 - 19.00	Auto	0.0000
L51	34	PL1.25x6 Reinforcement - Wind Area	14.00 - 19.00	Auto	0.0000
L51	48	CCI-SFP-060100	14.00 - 19.00	Auto	0.0000
L51	49	CCI-SFP-060100	14.00 - 19.00	Auto	0.0000
L51	50	CCI-SFP-060100	14.00 - 19.00	Auto	0.0000
L51	54	CCI-SFP-045100	17.75 - 19.00	Auto	0.0000
L51	55	CCI-SFP-045100	17.75 - 19.00	Auto	0.0000
L51	56	CCI-SFP-045100	17.75 - 19.00	Auto	0.0000
L52	26	PL0.625x5 Reinforcement - Wind Area/Weight	9.00 - 14.00	Auto	0.0000
L52	27	PL0.625x5 Reinforcement - Wind Area/Weight	9.00 - 14.00	Auto	0.0000
L52	32	PL1.25x6 Reinforcement - Wind Area	9.00 - 14.00	Auto	0.0000
L52	33	PL1.25x6 Reinforcement - Wind Area	9.00 - 14.00	Auto	0.0000
L52	34	PL1.25x6 Reinforcement - Wind Area	9.00 - 14.00	Auto	0.0000
L52	48	CCI-SFP-060100	9.00 - 14.00	Auto	0.0000
L52	49	CCI-SFP-060100	9.00 - 14.00	Auto	0.0000
L52	50	CCI-SFP-060100	9.00 - 14.00	Auto	0.0000
L53	26	PL0.625x5 Reinforcement - Wind Area/Weight	4.00 - 9.00	Auto	0.0000
L53	27	PL0.625x5 Reinforcement - Wind Area/Weight	4.00 - 9.00	Auto	0.0000
L53	32	PL1.25x6 Reinforcement - Wind Area	4.00 - 9.00	Auto	0.0000
L53	33	PL1.25x6 Reinforcement - Wind Area	4.00 - 9.00	Auto	0.0000
L53	34	PL1.25x6 Reinforcement - Wind Area	4.00 - 9.00	Auto	0.0000
L53	48	CCI-SFP-060100	4.00 - 9.00	Auto	0.0000
L53	49	CCI-SFP-060100	4.00 - 9.00	Auto	0.0000
L53	50	CCI-SFP-060100	4.00 - 9.00	Auto	0.0000
L54	26	PL0.625x5 Reinforcement - Wind Area/Weight	0.00 - 4.00	Auto	0.0000
L54	27	PL0.625x5 Reinforcement - Wind Area/Weight	0.00 - 4.00	Auto	0.0000
L54	32	PL1.25x6 Reinforcement - Wind Area	0.00 - 4.00	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L54	33	PL1.25x6 Reinforcement - Wind Area	0.00 - 4.00	Auto	0.0000
L54	34	PL1.25x6 Reinforcement - Wind Area	0.00 - 4.00	Auto	0.0000
L54	48	CCI-SFP-060100	0.00 - 4.00	Auto	0.0000
L54	49	CCI-SFP-060100	0.00 - 4.00	Auto	0.0000
L54	50	CCI-SFP-060100	0.00 - 4.00	Auto	0.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft		C _A A _{Front} ft ²	C _A A _{Side} ft ²	Weight K

DMP65R-BU6D w/ Mount Pipe	A	From Leg	4.00	0.0000	168.00	No Ice	11.96	5.97	0.11
			0.00			1/2" Ice	12.70	6.63	0.20
			0.00			1" Ice	13.46	7.30	0.30
			0.00			2" Ice	15.02	8.69	0.53
DMP65R-BU8D w/ Mount Pipe	B	From Leg	4.00	0.0000	168.00	No Ice	15.89	7.89	0.14
			0.00			1/2" Ice	16.81	8.74	0.25
			0.00			1" Ice	17.76	9.60	0.38
			0.00			2" Ice	19.70	11.37	0.68
DMP65R-BU8D w/ Mount Pipe	C	From Leg	4.00	0.0000	168.00	No Ice	15.89	7.89	0.14
			0.00			1/2" Ice	16.81	8.74	0.25
			0.00			1" Ice	17.76	9.60	0.38
			0.00			2" Ice	19.70	11.37	0.68
TPA-65R-LCUUUU-H8 w/ Mount Pipe	B	From Leg	4.00	0.0000	168.00	No Ice	11.85	8.99	0.11
			0.00			1/2" Ice	12.77	9.88	0.21
			0.00			1" Ice	13.71	10.79	0.32
			0.00			2" Ice	15.64	12.66	0.58
TPA-65R-LCUUUU-H8 w/ Mount Pipe	C	From Leg	4.00	0.0000	168.00	No Ice	11.85	8.99	0.11
			0.00			1/2" Ice	12.77	9.88	0.21
			0.00			1" Ice	13.71	10.79	0.32
			0.00			2" Ice	15.64	12.66	0.58
800 10121 w/ Mount Pipe	A	From Leg	4.00	0.0000	168.00	No Ice	3.60	2.95	0.07
			0.00			1/2" Ice	4.00	3.34	0.11
			-1.00			1" Ice	4.42	3.74	0.17
			-1.00			2" Ice	5.29	4.59	0.30
800 10121 w/ Mount Pipe	B	From Leg	4.00	0.0000	168.00	No Ice	3.60	2.95	0.07
			0.00			1/2" Ice	4.00	3.34	0.11
			-1.00			1" Ice	4.42	3.74	0.17
			-1.00			2" Ice	5.29	4.59	0.30
800 10121 w/ Mount Pipe	C	From Leg	4.00	0.0000	168.00	No Ice	3.60	2.95	0.07
			0.00			1/2" Ice	4.00	3.34	0.11
			-1.00			1" Ice	4.42	3.74	0.17
			-1.00			2" Ice	5.29	4.59	0.30
80010798 w/ Mount Pipe	A	From Leg	4.00	0.0000	168.00	No Ice	7.79	4.90	0.11
			0.00			1/2" Ice	8.40	5.47	0.19
			0.00			1" Ice	9.02	6.06	0.27
			0.00			2" Ice	10.30	7.26	0.48
80010965 w/ Mount Pipe	A	From Leg	4.00	0.0000	168.00	No Ice	12.26	5.79	0.14
			0.00			1/2" Ice	13.03	6.47	0.23
			0.00			1" Ice	13.80	7.17	0.33
			0.00			2" Ice	15.41	8.60	0.57
80010966 w/ Mount Pipe	B	From Leg	4.00	0.0000	168.00	No Ice	14.61	6.84	0.16
			0.00			1/2" Ice	15.47	7.63	0.27
			0.00			1" Ice	16.35	8.42	0.39
			0.00			2" Ice	18.14	10.06	0.68
80010966 w/ Mount Pipe	C	From Leg	4.00	0.0000	168.00	No Ice	14.61	6.84	0.16
			0.00			1/2" Ice	15.47	7.63	0.27
			0.00			1" Ice	16.35	8.42	0.39
			0.00			2" Ice	18.14	10.06	0.68

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _A A _{Front}	C _A A _{Side}	Weight
			Horz	Lateral					
							ft ²	ft ²	K
RRUS 32 B2	A	From Leg	4.00	0.0000	168.00	2" Ice	18.14	10.06	0.68
			0.00			No Ice	2.73	1.67	0.05
			1.00			1/2" Ice	2.95	1.86	0.07
						1" Ice	3.18	2.05	0.10
RRUS 32 B2	B	From Leg	4.00	0.0000	168.00	2" Ice	3.66	2.46	0.16
			0.00			No Ice	2.73	1.67	0.05
			1.00			1/2" Ice	2.95	1.86	0.07
						1" Ice	3.18	2.05	0.10
RRUS 32 B2	C	From Leg	4.00	0.0000	168.00	2" Ice	3.66	2.46	0.16
			0.00			No Ice	2.73	1.67	0.05
			1.00			1/2" Ice	2.95	1.86	0.07
						1" Ice	3.18	2.05	0.10
RRUS 32 B30	A	From Leg	4.00	0.0000	168.00	2" Ice	3.66	2.46	0.16
			0.00			No Ice	0.00	1.57	0.06
			1.00			1/2" Ice	0.00	1.76	0.08
						1" Ice	0.00	1.95	0.10
RRUS 32 B30	B	From Leg	4.00	0.0000	168.00	2" Ice	0.00	2.35	0.16
			0.00			No Ice	0.00	1.57	0.06
			1.00			1/2" Ice	0.00	1.76	0.08
						1" Ice	0.00	1.95	0.10
RRUS 32 B30	C	From Leg	4.00	0.0000	168.00	2" Ice	0.00	2.35	0.16
			0.00			No Ice	0.00	1.57	0.06
			1.00			1/2" Ice	0.00	1.76	0.08
						1" Ice	0.00	1.95	0.10
RRUS 4415 B25	A	From Leg	4.00	0.0000	168.00	2" Ice	0.00	2.35	0.16
			0.00			No Ice	0.00	0.00	0.04
			1.00			1/2" Ice	0.00	0.79	0.06
						1" Ice	0.00	0.91	0.07
RRUS 4415 B25	B	From Leg	4.00	0.0000	168.00	2" Ice	0.00	1.18	0.11
			0.00			No Ice	0.00	0.00	0.04
			1.00			1/2" Ice	0.00	0.79	0.06
						1" Ice	0.00	0.91	0.07
RRUS 4415 B25	C	From Leg	4.00	0.0000	168.00	2" Ice	0.00	1.18	0.11
			0.00			No Ice	0.00	0.00	0.04
			1.00			1/2" Ice	0.00	0.79	0.06
						1" Ice	0.00	0.91	0.07
RRUS 4449 B5/B12	A	From Leg	4.00	0.0000	168.00	2" Ice	0.00	1.18	0.11
			0.00			No Ice	1.41	1.97	0.07
			1.00			1/2" Ice	1.56	2.14	0.09
						1" Ice	1.73	2.33	0.11
RRUS 4449 B5/B12	B	From Leg	4.00	0.0000	168.00	2" Ice	2.07	2.72	0.16
			0.00			No Ice	1.41	1.97	0.07
			1.00			1/2" Ice	1.56	2.14	0.09
						1" Ice	1.73	2.33	0.11
RRUS 4449 B5/B12	C	From Leg	4.00	0.0000	168.00	2" Ice	2.07	2.72	0.16
			0.00			No Ice	1.41	1.97	0.07
			1.00			1/2" Ice	1.56	2.14	0.09
						1" Ice	1.73	2.33	0.11
RRUS E2 B29	A	From Leg	4.00	0.0000	168.00	2" Ice	2.07	2.72	0.16
			0.00			No Ice	3.15	1.29	0.06
			1.00			1/2" Ice	3.36	1.44	0.08
						1" Ice	3.59	1.60	0.11
RRUS E2 B29	B	From Leg	4.00	0.0000	168.00	2" Ice	4.07	1.95	0.17
			0.00			No Ice	3.15	1.29	0.06
			1.00			1/2" Ice	3.36	1.44	0.08
						1" Ice	3.59	1.60	0.11
RRUS E2 B29	C	From Leg	4.00	0.0000	168.00	2" Ice	4.07	1.95	0.17
			0.00			No Ice	3.15	1.29	0.06
			1.00			1/2" Ice	3.36	1.44	0.08
						1" Ice	3.59	1.60	0.11
(2) LGP21401	A	From Leg	4.00	0.0000	168.00	2" Ice	4.07	1.95	0.17
			0.00			No Ice	1.10	0.21	0.01
			-1.00			1/2" Ice	1.24	0.27	0.02
						1" Ice	1.38	0.35	0.03
					2" Ice	1.69	0.52	0.05	

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral					
			ft	ft	°	ft	ft ²	ft ²	K
(2) LGP21401	B	From Leg	4.00	0.0000	168.00	No Ice	1.10	0.21	0.01
			0.00			1/2" Ice	1.24	0.27	0.02
			-1.00			1" Ice	1.38	0.35	0.03
						2" Ice	1.69	0.52	0.05
(2) LGP21401	C	From Leg	4.00	0.0000	168.00	No Ice	1.10	0.21	0.01
			0.00			1/2" Ice	1.24	0.27	0.02
			-1.00			1" Ice	1.38	0.35	0.03
						2" Ice	1.69	0.52	0.05
DC6-48-60-18-8C	B	From Leg	1.00	0.0000	168.00	No Ice	2.74	2.74	0.03
			0.00			1/2" Ice	2.96	2.96	0.05
			1.00			1" Ice	3.20	3.20	0.08
						2" Ice	3.68	3.68	0.15
DC6-48-60-18-8F	A	From Leg	1.00	0.0000	168.00	No Ice	0.92	0.92	0.02
			0.00			1/2" Ice	1.46	1.46	0.04
			1.00			1" Ice	1.64	1.64	0.06
						2" Ice	2.04	2.04	0.11
DC6-48-60-18-8F	B	From Leg	1.00	0.0000	168.00	No Ice	0.92	0.92	0.02
			0.00			1/2" Ice	1.46	1.46	0.04
			1.00			1" Ice	1.64	1.64	0.06
						2" Ice	2.04	2.04	0.11
DC6-48-60-18-8F	C	From Leg	1.00	0.0000	168.00	No Ice	0.92	0.92	0.02
			0.00			1/2" Ice	1.46	1.46	0.04
			1.00			1" Ice	1.64	1.64	0.06
						2" Ice	2.04	2.04	0.11
Platform Mount [LP 304-1_KCKR-HR-1]	A	None		0.0000	168.00	No Ice	32.63	32.63	1.88
						1/2" Ice	40.84	40.84	2.47
						1" Ice	49.05	49.05	3.20
						2" Ice	65.62	65.62	5.04

APXVSP18-C-A20 w/ Mount Pipe	A	From Leg	4.00	0.0000	158.00	No Ice	4.60	4.01	0.10
			0.00			1/2" Ice	5.05	4.45	0.16
			0.00			1" Ice	5.50	4.89	0.23
						2" Ice	6.44	5.82	0.42
APXVSP18-C-A20 w/ Mount Pipe	C	From Leg	4.00	0.0000	158.00	No Ice	4.60	4.01	0.10
			0.00			1/2" Ice	5.05	4.45	0.16
			0.00			1" Ice	5.50	4.89	0.23
						2" Ice	6.44	5.82	0.42
APXVSP18-C-A20 w/ Mount Pipe	B	From Leg	4.00	0.0000	158.00	No Ice	4.60	4.01	0.10
			0.00			1/2" Ice	5.05	4.45	0.16
			0.00			1" Ice	5.50	4.89	0.23
						2" Ice	6.44	5.82	0.42
APXVTM14-C-120 w/ Mount Pipe	A	From Leg	4.00	0.0000	158.00	No Ice	4.09	2.86	0.08
			0.00			1/2" Ice	4.48	3.23	0.13
			0.00			1" Ice	4.88	3.61	0.19
						2" Ice	5.71	4.40	0.33
APXVTM14-C-120 w/ Mount Pipe	B	From Leg	4.00	0.0000	158.00	No Ice	4.09	2.86	0.08
			0.00			1/2" Ice	4.48	3.23	0.13
			0.00			1" Ice	4.88	3.61	0.19
						2" Ice	5.71	4.40	0.33
APXVTM14-C-120 w/ Mount Pipe	C	From Leg	4.00	0.0000	158.00	No Ice	4.09	2.86	0.08
			0.00			1/2" Ice	4.48	3.23	0.13
			0.00			1" Ice	4.88	3.61	0.19
						2" Ice	5.71	4.40	0.33
1900MHZ RRH (65MHZ)	A	From Leg	4.00	0.0000	158.00	No Ice	2.32	2.24	0.06
			0.00			1/2" Ice	2.53	2.44	0.08
			0.00			1" Ice	2.74	2.65	0.11
						2" Ice	3.19	3.09	0.17
1900MHZ RRH (65MHZ)	B	From Leg	4.00	0.0000	158.00	No Ice	2.32	2.24	0.06
			0.00			1/2" Ice	2.53	2.44	0.08
			0.00			1" Ice	2.74	2.65	0.11
						2" Ice	3.19	3.09	0.17
1900MHZ RRH (65MHZ)	C	From Leg	4.00	0.0000	158.00	No Ice	2.32	2.24	0.06
			0.00			1/2" Ice	2.53	2.44	0.08
			0.00			1" Ice	2.74	2.65	0.11
						2" Ice	3.19	3.09	0.17

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _A A _{Front} ft ²	C _A A _{Side} ft ²	Weight K
800 EXTERNAL NOTCH FILTER	A	From Leg	4.00	0.0000	158.00	No Ice	0.66	0.32	0.01
			0.00			1/2" Ice	0.76	0.40	0.02
			0.00			1" Ice	0.87	0.48	0.02
						2" Ice	1.11	0.67	0.04
800 EXTERNAL NOTCH FILTER	B	From Leg	4.00	0.0000	158.00	No Ice	0.66	0.32	0.01
			0.00			1/2" Ice	0.76	0.40	0.02
			0.00			1" Ice	0.87	0.48	0.02
						2" Ice	1.11	0.67	0.04
800 EXTERNAL NOTCH FILTER	C	From Leg	4.00	0.0000	158.00	No Ice	0.66	0.32	0.01
			0.00			1/2" Ice	0.76	0.40	0.02
			0.00			1" Ice	0.87	0.48	0.02
						2" Ice	1.11	0.67	0.04
800MHZ RRH	A	From Leg	4.00	0.0000	158.00	No Ice	2.13	1.77	0.05
			0.00			1/2" Ice	2.32	1.95	0.07
			0.00			1" Ice	2.51	2.13	0.10
						2" Ice	2.92	2.51	0.16
800MHZ RRH	B	From Leg	4.00	0.0000	158.00	No Ice	2.13	1.77	0.05
			0.00			1/2" Ice	2.32	1.95	0.07
			0.00			1" Ice	2.51	2.13	0.10
						2" Ice	2.92	2.51	0.16
800MHZ RRH	C	From Leg	4.00	0.0000	158.00	No Ice	2.13	1.77	0.05
			0.00			1/2" Ice	2.32	1.95	0.07
			0.00			1" Ice	2.51	2.13	0.10
						2" Ice	2.92	2.51	0.16
TD-RRH8X20-25	A	From Leg	4.00	0.0000	158.00	No Ice	4.05	1.53	0.07
			0.00			1/2" Ice	4.30	1.71	0.10
			0.00			1" Ice	4.56	1.90	0.13
						2" Ice	5.10	2.30	0.20
TD-RRH8X20-25	B	From Leg	4.00	0.0000	158.00	No Ice	4.05	1.53	0.07
			0.00			1/2" Ice	4.30	1.71	0.10
			0.00			1" Ice	4.56	1.90	0.13
						2" Ice	5.10	2.30	0.20
TD-RRH8X20-25	C	From Leg	4.00	0.0000	158.00	No Ice	4.05	1.53	0.07
			0.00			1/2" Ice	4.30	1.71	0.10
			0.00			1" Ice	4.56	1.90	0.13
						2" Ice	5.10	2.30	0.20
12' horizontal x 2" Pipe Mount	C	From Face	3.00	0.0000	158.00	No Ice	2.28	0.01	0.03
			0.00			1/2" Ice	3.50	0.04	0.05
			0.00			1" Ice	4.75	0.09	0.08
						2" Ice	7.28	0.21	0.15
6' x 2" Mount Pipe	A	From Leg	3.00	0.0000	158.00	No Ice	1.43	1.43	0.02
			0.00			1/2" Ice	1.92	1.92	0.03
			0.00			1" Ice	2.29	2.29	0.05
						2" Ice	3.06	3.06	0.09
6' x 2" Mount Pipe	B	From Leg	3.00	0.0000	158.00	No Ice	1.43	1.43	0.02
			0.00			1/2" Ice	1.92	1.92	0.03
			0.00			1" Ice	2.29	2.29	0.05
						2" Ice	3.06	3.06	0.09
6' x 2" Mount Pipe	C	From Leg	3.00	0.0000	158.00	No Ice	1.43	1.43	0.02
			0.00			1/2" Ice	1.92	1.92	0.03
			0.00			1" Ice	2.29	2.29	0.05
						2" Ice	3.06	3.06	0.09
T-Arm Mount [TA 602-3_KCKR]	A	None		0.0000	158.00	No Ice	23.41	23.41	1.05
						1/2" Ice	28.72	28.72	1.42
						1" Ice	34.48	34.48	1.90
						2" Ice	46.49	46.49	3.21

MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.00	0.0000	148.00	No Ice	8.01	4.23	0.11
			0.00			1/2" Ice	8.52	4.69	0.19
			0.00			1" Ice	9.04	5.16	0.29
						2" Ice	10.11	6.12	0.52
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.00	0.0000	148.00	No Ice	8.01	4.23	0.11
			0.00			1/2" Ice	8.52	4.69	0.19
			0.00			1" Ice	9.04	5.16	0.29
						2" Ice	10.11	6.12	0.52

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _A A _A Front	C _A A _A Side	Weight
			Horz	Lateral					
			ft	ft	°	ft	ft ²	ft ²	K
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.00	0.0000	148.00	No Ice	8.01	4.23	0.11
			0.00			1/2" Ice	8.52	4.69	0.19
			0.00			1" Ice	9.04	5.16	0.29
						2" Ice	10.11	6.12	0.52
TA08025-B604	A	From Leg	4.00	0.0000	148.00	No Ice	1.96	0.98	0.06
			0.00			1/2" Ice	2.14	1.11	0.08
			0.00			1" Ice	2.32	1.25	0.10
						2" Ice	2.71	1.55	0.15
TA08025-B604	B	From Leg	4.00	0.0000	148.00	No Ice	1.96	0.98	0.06
			0.00			1/2" Ice	2.14	1.11	0.08
			0.00			1" Ice	2.32	1.25	0.10
						2" Ice	2.71	1.55	0.15
TA08025-B604	C	From Leg	4.00	0.0000	148.00	No Ice	1.96	0.98	0.06
			0.00			1/2" Ice	2.14	1.11	0.08
			0.00			1" Ice	2.32	1.25	0.10
						2" Ice	2.71	1.55	0.15
TA08025-B605	A	From Leg	4.00	0.0000	148.00	No Ice	1.96	1.13	0.08
			0.00			1/2" Ice	2.14	1.27	0.09
			0.00			1" Ice	2.32	1.41	0.11
						2" Ice	2.71	1.72	0.16
TA08025-B605	B	From Leg	4.00	0.0000	148.00	No Ice	1.96	1.13	0.08
			0.00			1/2" Ice	2.14	1.27	0.09
			0.00			1" Ice	2.32	1.41	0.11
						2" Ice	2.71	1.72	0.16
TA08025-B605	C	From Leg	4.00	0.0000	148.00	No Ice	1.96	1.13	0.08
			0.00			1/2" Ice	2.14	1.27	0.09
			0.00			1" Ice	2.32	1.41	0.11
						2" Ice	2.71	1.72	0.16
RDIDC-9181-PF-48	A	From Leg	4.00	0.0000	148.00	No Ice	2.01	1.17	0.02
			0.00			1/2" Ice	2.19	1.31	0.04
			0.00			1" Ice	2.37	1.46	0.06
						2" Ice	2.76	1.78	0.11
(2) 8' x 2" Mount Pipe	A	From Leg	4.00	0.0000	148.00	No Ice	1.90	1.90	0.03
			0.00			1/2" Ice	2.73	2.73	0.04
			0.00			1" Ice	3.40	3.40	0.06
						2" Ice	4.40	4.40	0.12
(2) 8' x 2" Mount Pipe	B	From Leg	4.00	0.0000	148.00	No Ice	1.90	1.90	0.03
			0.00			1/2" Ice	2.73	2.73	0.04
			0.00			1" Ice	3.40	3.40	0.06
						2" Ice	4.40	4.40	0.12
(2) 8' x 2" Mount Pipe	C	From Leg	4.00	0.0000	148.00	No Ice	1.90	1.90	0.03
			0.00			1/2" Ice	2.73	2.73	0.04
			0.00			1" Ice	3.40	3.40	0.06
						2" Ice	4.40	4.40	0.12
8' Platform [MC-PK8-DSH]	A	None		0.0000	148.00	No Ice	26.80	26.80	1.51
						1/2" Ice	32.20	32.20	1.81
						1" Ice	37.60	37.60	2.11
						2" Ice	48.40	48.40	2.72

BXA-70063/4CF w/ Mount Pipe	A	From Leg	4.00	0.0000	138.00	No Ice	4.84	3.54	0.04
			0.00			1/2" Ice	5.35	4.03	0.08
			2.00			1" Ice	5.88	4.53	0.12
						2" Ice	6.99	5.59	0.24
BXA-70063/4CF w/ Mount Pipe	B	From Leg	4.00	0.0000	138.00	No Ice	4.84	3.54	0.04
			0.00			1/2" Ice	5.35	4.03	0.08
			2.00			1" Ice	5.88	4.53	0.12
						2" Ice	6.99	5.59	0.24
BXA-70063/4CF w/ Mount Pipe	C	From Leg	4.00	0.0000	138.00	No Ice	4.84	3.54	0.04
			0.00			1/2" Ice	5.35	4.03	0.08
			2.00			1" Ice	5.88	4.53	0.12
						2" Ice	6.99	5.59	0.24
RFV01U-D1A	A	From Leg	4.00	0.0000	138.00	No Ice	1.88	1.25	0.08
			0.00			1/2" Ice	2.05	1.39	0.10
			2.00			1" Ice	2.22	1.54	0.12
						2" Ice	2.60	1.86	0.18

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _A A		Weight
			Horz Lateral	Vert			Front	Side	
			ft	ft	°	ft	ft ²	ft ²	K
RFV01U-D1A	B	From Leg	4.00	0.0000	138.00	No Ice	1.88	1.25	0.08
			0.00			1/2" Ice	2.05	1.39	0.10
			2.00			1" Ice	2.22	1.54	0.12
						2" Ice	2.60	1.86	0.18
RFV01U-D1A	C	From Leg	4.00	0.0000	138.00	No Ice	1.88	1.25	0.08
			0.00			1/2" Ice	2.05	1.39	0.10
			2.00			1" Ice	2.22	1.54	0.12
						2" Ice	2.60	1.86	0.18
RFV01U-D2A	A	From Leg	4.00	0.0000	138.00	No Ice	1.88	1.01	0.07
			0.00			1/2" Ice	2.05	1.14	0.09
			2.00			1" Ice	2.22	1.28	0.11
						2" Ice	2.60	1.59	0.15
RFV01U-D2A	B	From Leg	4.00	0.0000	138.00	No Ice	1.88	1.01	0.07
			0.00			1/2" Ice	2.05	1.14	0.09
			2.00			1" Ice	2.22	1.28	0.11
						2" Ice	2.60	1.59	0.15
RFV01U-D2A	C	From Leg	4.00	0.0000	138.00	No Ice	1.88	1.01	0.07
			0.00			1/2" Ice	2.05	1.14	0.09
			2.00			1" Ice	2.22	1.28	0.11
						2" Ice	2.60	1.59	0.15
RVZDC-6627-PF-48	A	From Leg	4.00	0.0000	138.00	No Ice	3.79	2.51	0.03
			0.00			1/2" Ice	4.04	2.73	0.06
			2.00			1" Ice	4.30	2.95	0.10
						2" Ice	4.84	3.42	0.18
Platform Mount [LP 303-1]	A	None		0.0000	138.00	No Ice	14.69	14.69	1.25
						1/2" Ice	18.01	18.01	1.57
						1" Ice	21.34	21.34	1.94
						2" Ice	28.08	28.08	2.85
* NHH-65B-R2B w/ Mount Pipe	A	From Leg	4.00	0.0000	138.00	No Ice	4.09	3.29	0.07
			0.00			1/2" Ice	4.48	3.67	0.13
			2.00			1" Ice	4.88	4.06	0.21
						2" Ice	5.70	4.86	0.39
NHH-65B-R2B w/ Mount Pipe	B	From Leg	4.00	0.0000	138.00	No Ice	4.09	3.29	0.07
			0.00			1/2" Ice	4.48	3.67	0.13
			2.00			1" Ice	4.88	4.06	0.21
						2" Ice	5.70	4.86	0.39
NHH-65B-R2B w/ Mount Pipe	C	From Leg	4.00	0.0000	138.00	No Ice	4.09	3.29	0.07
			0.00			1/2" Ice	4.48	3.67	0.13
			2.00			1" Ice	4.88	4.06	0.21
						2" Ice	5.70	4.86	0.39
NHHSS-65B-R2B w/ Mount Pipe	A	From Leg	4.00	0.0000	138.00	No Ice	3.89	3.14	0.09
			0.00			1/2" Ice	4.27	3.50	0.15
			2.00			1" Ice	4.65	3.87	0.23
						2" Ice	5.43	4.63	0.41
NHHSS-65B-R2B w/ Mount Pipe	B	From Leg	4.00	0.0000	138.00	No Ice	3.89	3.14	0.09
			0.00			1/2" Ice	4.27	3.50	0.15
			2.00			1" Ice	4.65	3.87	0.23
						2" Ice	5.43	4.63	0.41
NHHSS-65B-R2B w/ Mount Pipe	C	From Leg	4.00	0.0000	138.00	No Ice	3.89	3.14	0.09
			0.00			1/2" Ice	4.27	3.50	0.15
			2.00			1" Ice	4.65	3.87	0.23
						2" Ice	5.43	4.63	0.41
MT6407-77A w/ Mount Pipe	A	From Leg	4.00	0.0000	138.00	No Ice	4.91	2.68	0.10
			0.00			1/2" Ice	5.26	3.14	0.14
			2.00			1" Ice	5.61	3.62	0.18
						2" Ice	6.36	4.63	0.29
MT6407-77A w/ Mount Pipe	B	From Leg	4.00	0.0000	138.00	No Ice	4.91	2.68	0.10
			0.00			1/2" Ice	5.26	3.14	0.14
			2.00			1" Ice	5.61	3.62	0.18
						2" Ice	6.36	4.63	0.29
MT6407-77A w/ Mount Pipe	C	From Leg	4.00	0.0000	138.00	No Ice	4.91	2.68	0.10
			0.00			1/2" Ice	5.26	3.14	0.14
			2.00			1" Ice	5.61	3.62	0.18
						2" Ice	6.36	4.63	0.29

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral					
CBRS RT4401-48A	A	From Leg	4.00	0.0000	138.00	No Ice	0.99	0.50	0.02
			0.00			1/2" Ice	1.12	0.60	0.03
			2.00			1" Ice	1.26	0.70	0.04
						2" Ice	1.55	0.94	0.06
CBRS RT4401-48A	B	From Leg	4.00	0.0000	138.00	No Ice	0.99	0.50	0.02
			0.00			1/2" Ice	1.12	0.60	0.03
			2.00			1" Ice	1.26	0.70	0.04
						2" Ice	1.55	0.94	0.06
CBRS RT4401-48A	C	From Leg	4.00	0.0000	138.00	No Ice	0.99	0.50	0.02
			0.00			1/2" Ice	1.12	0.60	0.03
			2.00			1" Ice	1.26	0.70	0.04
						2" Ice	1.55	0.94	0.06

6' x 2" Mount Pipe	A	From Leg	4.00	0.0000	128.00	No Ice	1.43	1.43	0.02
			0.00			1/2" Ice	1.92	1.92	0.03
			0.00			1" Ice	2.29	2.29	0.05
						2" Ice	3.06	3.06	0.09
6' x 2" Mount Pipe	B	From Leg	4.00	0.0000	128.00	No Ice	1.43	1.43	0.02
			0.00			1/2" Ice	1.92	1.92	0.03
			0.00			1" Ice	2.29	2.29	0.05
						2" Ice	3.06	3.06	0.09
6' x 2" Mount Pipe	C	From Leg	4.00	0.0000	128.00	No Ice	1.43	1.43	0.02
			0.00			1/2" Ice	1.92	1.92	0.03
			0.00			1" Ice	2.29	2.29	0.05
						2" Ice	3.06	3.06	0.09
Platform Mount [LP 303-1]	A	None		0.0000	128.00	No Ice	14.69	14.69	1.25
						1/2" Ice	18.01	18.01	1.57
						1" Ice	21.34	21.34	1.94
						2" Ice	28.08	28.08	2.85
*									
AIR 32 B2A/B66AA w/ Mount Pipe	A	From Leg	4.00	0.0000	128.00	No Ice	3.76	3.15	0.19
			0.00			1/2" Ice	4.12	3.49	0.25
			2.00			1" Ice	4.48	3.84	0.32
						2" Ice	5.24	4.58	0.48
AIR 32 B2A/B66AA w/ Mount Pipe	B	From Leg	4.00	0.0000	128.00	No Ice	3.76	3.15	0.19
			0.00			1/2" Ice	4.12	3.49	0.25
			2.00			1" Ice	4.48	3.84	0.32
						2" Ice	5.24	4.58	0.48
AIR 32 B2A/B66AA w/ Mount Pipe	C	From Leg	4.00	0.0000	128.00	No Ice	3.76	3.15	0.19
			0.00			1/2" Ice	4.12	3.49	0.25
			2.00			1" Ice	4.48	3.84	0.32
						2" Ice	5.24	4.58	0.48
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.00	0.0000	128.00	No Ice	14.69	6.87	0.19
			0.00			1/2" Ice	15.46	7.55	0.31
			2.00			1" Ice	16.23	8.25	0.46
						2" Ice	17.82	9.67	0.79
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.00	0.0000	128.00	No Ice	14.69	6.87	0.19
			0.00			1/2" Ice	15.46	7.55	0.31
			2.00			1" Ice	16.23	8.25	0.46
						2" Ice	17.82	9.67	0.79
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.00	0.0000	128.00	No Ice	14.69	6.87	0.19
			0.00			1/2" Ice	15.46	7.55	0.31
			2.00			1" Ice	16.23	8.25	0.46
						2" Ice	17.82	9.67	0.79
KRY 112 144/1	A	From Leg	4.00	0.0000	128.00	No Ice	0.35	0.17	0.01
			0.00			1/2" Ice	0.43	0.23	0.01
			2.00			1" Ice	0.51	0.30	0.02
						2" Ice	0.70	0.46	0.03
KRY 112 144/1	B	From Leg	4.00	0.0000	128.00	No Ice	0.35	0.17	0.01
			0.00			1/2" Ice	0.43	0.23	0.01
			2.00			1" Ice	0.51	0.30	0.02
						2" Ice	0.70	0.46	0.03
KRY 112 144/1	C	From Leg	4.00	0.0000	128.00	No Ice	0.35	0.17	0.01
			0.00			1/2" Ice	0.43	0.23	0.01
			2.00			1" Ice	0.51	0.30	0.02
						2" Ice	0.70	0.46	0.03

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
RADIO 4449 B12/B71	A	From Leg	4.00	0.0000	128.00	2" Ice	0.70	0.46	0.03
			0.00			No Ice	1.65	1.16	0.07
			2.00			1/2" Ice	1.81	1.30	0.09
						1" Ice	1.98	1.45	0.11
RADIO 4449 B12/B71	B	From Leg	4.00	0.0000	128.00	2" Ice	2.34	1.76	0.16
			0.00			No Ice	1.65	1.16	0.07
			2.00			1/2" Ice	1.81	1.30	0.09
						1" Ice	1.98	1.45	0.11
RADIO 4449 B12/B71	C	From Leg	4.00	0.0000	128.00	2" Ice	2.34	1.76	0.16
			0.00			No Ice	1.65	1.16	0.07
			2.00			1/2" Ice	1.81	1.30	0.09
						1" Ice	1.98	1.45	0.11

GPS_A	A	From Leg	3.00	0.0000	70.00	No Ice	0.26	0.26	0.00
			0.00			1/2" Ice	0.32	0.32	0.00
			0.00			1" Ice	0.39	0.39	0.01
						2" Ice	0.56	0.56	0.02
Side Arm Mount [SO 701-1]	A	From Leg	1.50	0.0000	70.00	No Ice	0.85	1.67	0.07
			0.00			1/2" Ice	1.14	2.34	0.08
			0.00			1" Ice	1.43	3.01	0.09
						2" Ice	2.01	4.35	0.12

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp

Comb. No.	Description
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	168.5 - 163.5	Pole	Max Tension	27	0.00	-0.00	-0.00
			Max. Compression	26	-15.95	-0.25	-1.98
			Max. Mx	8	-4.11	-37.40	-0.07
			Max. My	14	-4.12	-0.06	-37.01
			Max. Vy	8	8.40	-37.40	-0.07
			Max. Vx	14	8.26	-0.06	-37.01
			Max. Torque	21			1.50
L2	163.5 - 158.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-16.59	-0.26	-2.07
			Max. Mx	8	-4.39	-80.25	-0.09
			Max. My	14	-4.39	-0.06	-79.17
			Max. Vy	8	8.75	-80.25	-0.09
			Max. Vx	14	8.61	-0.06	-79.17
			Max. Torque	21			1.50
L3	158.5 - 153.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-25.29	-0.26	-2.78
			Max. Mx	8	-6.84	-140.89	-0.26
			Max. My	14	-6.83	-0.06	-139.68
			Max. Vy	8	12.66	-140.89	-0.26
			Max. Vx	14	12.61	-0.06	-139.68
			Max. Torque	21			1.50
L4	153.5 - 148.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-25.99	-0.27	-2.87
			Max. Mx	8	-7.21	-205.03	-0.28
			Max. My	14	-7.19	-0.06	-203.61
			Max. Vy	8	13.01	-205.03	-0.28
			Max. Vx	14	12.96	-0.06	-203.61
			Max. Torque	21			1.50
L5	148.5 - 143.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-33.24	-0.32	-2.39
			Max. Mx	8	-10.11	-285.77	-0.20
			Max. My	14	-10.08	-0.07	-284.16
			Max. Vy	8	16.65	-285.77	-0.20
			Max. Vx	14	16.64	-0.07	-284.16
			Max. Torque	21			1.49
L6	143.5 - 138.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-34.04	-0.38	-2.44
			Max. Mx	8	-10.58	-369.77	-0.20
			Max. My	14	-10.55	-0.08	-368.13

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L7	138.5 - 130.667	Pole	Max. Vy	20	-16.97	369.61	-0.20
			Max. Vx	14	16.96	-0.08	-368.13
			Max. Torque	21			1.28
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-43.40	-0.35	-1.52
L8	130.667 - 129.327	Pole	Max. Mx	8	-13.84	-458.20	-0.08
			Max. My	14	-13.79	-0.08	-456.80
			Max. Vy	20	-20.64	458.05	-0.08
			Max. Vx	14	20.77	-0.08	-456.80
			Max. Torque	21			1.27
L9	129.327 - 125.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-44.90	-0.31	-1.51
			Max. Mx	8	-14.67	-562.35	-0.08
			Max. My	14	-14.61	-0.07	-561.76
			Max. Vy	20	-21.03	562.20	-0.08
L10	125.75 - 125.5	Pole	Max. Vx	14	21.24	-0.07	-561.76
			Max. Torque	21			0.80
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-53.70	-0.30	-1.48
			Max. Mx	8	-18.10	-648.42	-0.07
L11	125.5 - 120.5	Pole	Max. My	14	-18.02	-0.08	-648.70
			Max. Vy	20	-24.30	648.27	-0.07
			Max. Vx	14	24.58	-0.08	-648.70
			Max. Torque	21			0.79
			Max Tension	1	0.00	0.00	0.00
L12	120.5 - 120.25	Pole	Max. Compression	26	-53.77	-0.31	-1.48
			Max. Mx	8	-18.16	-654.49	-0.07
			Max. My	14	-18.08	-0.08	-654.84
			Max. Vy	20	-24.30	654.34	-0.07
			Max. Vx	14	24.60	-0.08	-654.84
L13	120.25 - 115.25	Pole	Max. Torque	21			0.79
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-55.23	-0.32	-1.38
			Max. Mx	8	-18.98	-776.62	-0.05
			Max. My	14	-18.90	-0.08	-778.65
L14	115.25 - 113.833	Pole	Max. Vy	20	-24.57	776.45	-0.05
			Max. Vx	2	-24.97	-0.08	778.43
			Max. Torque	21			0.79
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-55.33	-0.33	-1.38
L15	113.833 - 113.483	Pole	Max. Mx	8	-19.07	-782.76	-0.05
			Max. My	14	-18.98	-0.08	-784.88
			Max. Vy	20	-24.58	782.59	-0.05
			Max. Vx	2	-24.98	-0.08	784.67
			Max. Torque	21			0.79
L15	113.833 - 113.483	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-57.77	-0.34	-1.22
			Max. Mx	8	-20.44	-906.65	-0.03
			Max. My	14	-20.34	-0.09	-910.97
			Max. Vy	20	-24.99	906.46	-0.03
L15	113.833 - 113.483	Pole	Max. Vx	2	-25.48	-0.09	910.80
			Max. Torque	21			0.79
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-58.53	-0.35	-1.18
			Max. Mx	8	-20.83	-942.13	-0.03
L15	113.833 - 113.483	Pole	Max. My	14	-20.74	-0.09	-947.15
			Max. Vy	20	-25.11	941.94	-0.03
			Max. Vx	2	-25.63	-0.09	947.00
			Max. Torque	21			0.79
			Max Tension	1	0.00	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L16	113.483 - 113.25	Pole	Max. Compression	26	-58.73	-0.35	-1.17
			Max. Mx	8	-20.96	-950.91	-0.02
			Max. My	14	-20.86	-0.09	-956.12
			Max. Vy	20	-25.13	950.72	-0.02
			Max. Vx	2	-25.66	-0.09	955.97
			Max. Torque	21			0.79
			Max Tension	1	0.00	0.00	0.00
L17	113.25 - 108.25	Pole	Max. Compression	26	-58.86	-0.35	-1.17
			Max. Mx	8	-21.04	-956.77	-0.02
			Max. My	14	-20.94	-0.10	-962.10
			Max. Vy	20	-25.15	956.58	-0.02
			Max. Vx	2	-25.69	-0.10	961.95
			Max. Torque	21			0.79
			Max Tension	1	0.00	0.00	0.00
L18	108.25 - 103.25	Pole	Max. Compression	26	-61.64	-0.37	-1.07
			Max. Mx	8	-22.62	-1083.60	-0.00
			Max. My	14	-22.51	-0.10	-1091.78
			Max. Vy	20	-25.60	1083.40	-0.00
			Max. Vx	2	-26.22	-0.10	1091.67
			Max. Torque	21			0.79
			Max Tension	1	0.00	0.00	0.00
L19	103.25 - 98.25	Pole	Max. Compression	26	-64.39	-0.39	-0.99
			Max. Mx	8	-24.23	-1212.61	0.02
			Max. My	14	-24.12	-0.11	-1224.07
			Max. Vy	20	-26.03	1212.39	0.02
			Max. Vx	2	-26.73	-0.11	1224.01
			Max. Torque	21			0.79
			Max Tension	1	0.00	0.00	0.00
L20	98.25 - 93.25	Pole	Max. Compression	26	-67.16	-0.42	-0.92
			Max. Mx	8	-25.86	-1343.73	0.04
			Max. My	14	-25.75	-0.12	-1358.90
			Max. Vy	20	-26.44	1343.50	0.04
			Max. Vx	2	-27.23	-0.12	1358.89
			Max. Torque	21			0.79
			Max Tension	1	0.00	0.00	0.00
L21	93.25 - 84.717	Pole	Max. Compression	26	-69.95	-0.44	-0.84
			Max. Mx	8	-27.52	-1476.91	0.06
			Max. My	2	-27.40	-0.13	1496.22
			Max. Vy	20	-26.85	1476.65	0.06
			Max. Vx	2	-27.72	-0.13	1496.22
			Max. Torque	21			0.79
			Max Tension	1	0.00	0.00	0.00
L22	84.717 - 83.717	Pole	Max. Compression	26	-72.25	-0.50	-0.81
			Max. Mx	8	-28.84	-1584.17	0.08
			Max. My	2	-28.73	-0.13	1607.03
			Max. Vy	20	-27.18	1583.90	0.08
			Max. Vx	2	-28.09	-0.13	1607.03
			Max. Torque	21			0.79
			Max Tension	1	0.00	0.00	0.00
L23	83.717 - 82.917	Pole	Max. Compression	26	-77.14	-0.57	-0.81
			Max. Mx	8	-31.97	-1736.97	0.10
			Max. My	2	-31.86	-0.13	1765.08
			Max. Vy	20	-27.79	1736.71	0.10
			Max. Vx	2	-28.76	-0.13	1765.08
			Max. Torque	21			0.79
			Max Tension	1	0.00	0.00	0.00
L23	83.717 - 82.917	Pole	Max. Compression	26	-77.64	-0.57	-0.82
			Max. Mx	8	-32.27	-1759.20	0.10
			Max. My	2	-32.16	-0.12	1788.10
			Max. Vy	20	-27.86	1758.97	0.10
			Max. Vx	2	-28.83	-0.12	1788.10

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L24	82.917 - 82.667	Pole	Max. Torque	21			0.79
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-77.81	-0.57	-0.83
			Max. Mx	8	-32.39	-1766.16	0.10
			Max. My	2	-32.28	-0.11	1795.31
			Max. Vy	20	-27.87	1765.93	0.10
			Max. Vx	2	-28.86	-0.11	1795.31
L25	82.667 - 82.5	Pole	Max. Torque	21			0.79
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-77.93	-0.57	-0.84
			Max. Mx	8	-32.46	-1770.82	0.10
			Max. My	2	-32.35	-0.11	1800.13
			Max. Vy	20	-27.89	1770.59	0.10
			Max. Vx	2	-28.89	-0.11	1800.13
L26	82.5 - 82.25	Pole	Max. Torque	21			0.79
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-78.09	-0.57	-0.84
			Max. Mx	8	-32.56	-1777.79	0.09
			Max. My	2	-32.45	-0.11	1807.35
			Max. Vy	20	-27.91	1777.57	0.09
			Max. Vx	2	-28.90	-0.11	1807.35
L27	82.25 - 77.25	Pole	Max. Torque	21			0.79
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-81.24	-0.51	-0.89
			Max. Mx	8	-34.53	-1918.20	0.08
			Max. My	2	-34.42	-0.04	1952.88
			Max. Vy	20	-28.31	1918.12	0.08
			Max. Vx	2	-29.36	-0.04	1952.88
L28	77.25 - 73.417	Pole	Max. Torque	21			0.79
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-83.73	-0.42	-0.90
			Max. Mx	20	-36.07	2027.17	0.06
			Max. My	2	-35.96	0.01	2065.95
			Max. Vy	20	-28.60	2027.17	0.06
			Max. Vx	2	-29.69	0.01	2065.95
L29	73.417 - 73.167	Pole	Max. Torque	21			0.79
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-83.92	-0.41	-0.91
			Max. Mx	20	-36.20	2034.32	0.06
			Max. My	2	-36.10	0.02	2073.37
			Max. Vy	20	-28.61	2034.32	0.06
			Max. Vx	2	-29.71	0.02	2073.37
L30	73.167 - 68.167	Pole	Max. Torque	21			0.79
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-87.80	-0.27	-0.45
			Max. Mx	20	-38.61	2178.67	0.26
			Max. My	2	-38.51	0.09	2223.35
			Max. Vy	20	-29.15	2178.67	0.26
			Max. Vx	2	-30.25	0.09	2223.35
L31	68.167 - 64.25	Pole	Max. Torque	21			0.79
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-90.75	-0.15	-0.48
			Max. Mx	20	-40.47	2293.48	0.24
			Max. My	2	-40.37	0.15	2342.46
			Max. Vy	20	-29.49	2293.48	0.24
			Max. Vx	2	-30.62	0.15	2342.46
L32	64.25 - 64	Pole	Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-90.92	-0.15	-0.49
			Max. Mx	20	-40.58	2300.86	0.24
			Max. Vy	20	-29.49	2300.86	0.24

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L33	64 - 59	Pole	Max. Vx	2	-30.63	0.15	2350.11
			Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-94.16	0.00	-0.50
			Max. Mx	20	-42.62	2449.23	0.22
			Max. My	2	-42.53	0.22	2504.17
			Max. Vy	20	-29.86	2449.23	0.22
L34	59 - 54	Pole	Max. Vx	2	-31.04	0.22	2504.17
			Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-97.40	0.12	-0.51
			Max. Mx	20	-44.69	2599.32	0.20
			Max. My	2	-44.60	0.30	2660.18
			Max. Vy	20	-30.19	2599.32	0.20
L35	54 - 53.5	Pole	Max. Vx	2	-31.42	0.30	2660.18
			Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-97.73	0.13	-0.52
			Max. Mx	20	-44.91	2614.42	0.20
			Max. My	2	-44.82	0.31	2675.88
			Max. Vy	20	-30.21	2614.42	0.20
L36	53.5 - 53.25	Pole	Max. Vx	2	-31.44	0.31	2675.88
			Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-97.91	0.13	-0.53
			Max. Mx	20	-45.03	2621.97	0.19
			Max. My	2	-44.94	0.31	2683.74
			Max. Vy	20	-30.23	2621.97	0.19
L37	53.25 - 43.827	Pole	Max. Vx	2	-31.47	0.31	2683.74
			Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-100.89	0.21	-0.55
			Max. Mx	20	-46.92	2746.03	0.18
			Max. My	2	-46.84	0.38	2812.77
			Max. Vy	20	-30.53	2746.03	0.18
L38	43.827 - 42.827	Pole	Max. Vx	2	-31.78	0.38	2812.77
			Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-107.99	0.34	-0.58
			Max. Mx	20	-51.86	2941.65	0.15
			Max. My	2	-51.78	0.48	3016.28
			Max. Vy	20	-31.14	2941.65	0.15
L39	42.827 - 41.75	Pole	Max. Vx	2	-32.43	0.48	3016.28
			Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-108.75	0.37	-0.58
			Max. Mx	20	-52.37	2975.21	0.14
			Max. My	2	-52.30	0.49	3051.21
			Max. Vy	20	-31.21	2975.21	0.14
L40	41.75 - 41.5	Pole	Max. Vx	2	-32.50	0.49	3051.21
			Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-108.93	0.38	-0.58
			Max. Mx	20	-52.51	2983.01	0.14
			Max. My	2	-52.44	0.50	3059.33
			Max. Vy	20	-31.20	2983.01	0.14
L41	41.5 - 36.5	Pole	Max. Vx	2	-32.51	0.50	3059.33
			Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-112.59	0.53	-0.56
			Max. Mx	20	-55.00	3139.75	0.12
			Max. My	2	-54.93	0.58	3222.51
			Max. Vy	20	-31.49	3139.75	0.12
L42	36.5 - 32.75	Pole	Max. Vx	2	-32.82	0.58	3222.51
			Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L43	32.75 - 32.5	Pole	Max. Compression	26	-115.41	0.58	-0.58
			Max. Mx	20	-56.89	3258.17	0.10
			Max. My	2	-56.83	0.64	3345.85
			Max. Vy	20	-31.69	3258.17	0.10
			Max. Vx	14	33.03	0.64	-3345.69
			Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-115.62	0.58	-0.59
			Max. Mx	20	-57.04	3266.09	0.10
			Max. My	2	-56.99	0.64	3354.10
L44	32.5 - 29.733	Pole	Max. Vy	20	-31.68	3266.09	0.10
			Max. Vx	14	33.03	0.64	-3353.94
			Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-117.83	0.61	-0.63
			Max. Mx	20	-58.47	3354.00	0.09
			Max. My	2	-58.42	0.69	3445.68
			Max. Vy	20	-31.87	3354.00	0.09
			Max. Vx	14	33.22	0.69	-3445.55
			Max. Torque	21			0.53
L45	29.733 - 29.483	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-118.04	0.61	-0.64
			Max. Mx	20	-58.62	3361.96	0.08
			Max. My	2	-58.57	0.69	3453.98
			Max. Vy	20	-31.86	3361.96	0.08
			Max. Vx	14	33.22	0.69	-3453.85
			Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-119.06	0.62	-0.66
			Max. Mx	20	-59.25	3401.31	0.08
L46	29.483 - 28.25	Pole	Max. My	2	-59.20	0.72	3494.95
			Max. Vy	20	-31.96	3401.31	0.08
			Max. Vx	14	33.30	0.72	-3494.84
			Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-119.28	0.62	-0.67
			Max. Mx	20	-59.41	3409.30	0.08
			Max. My	2	-59.36	0.72	3503.27
			Max. Vy	20	-31.95	3409.30	0.08
			Max. Vx	14	33.30	0.72	-3503.16
L47	28.25 - 28	Pole	Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-123.58	0.67	-0.83
			Max. Mx	20	-62.30	3569.82	0.05
			Max. My	2	-62.25	0.80	3670.43
			Max. Vy	20	-32.25	3569.82	0.05
			Max. Vx	14	33.60	0.80	-3670.36
			Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-126.74	0.74	-0.93
L48	28 - 23	Pole	Max. Mx	20	-64.48	3691.08	0.03
			Max. My	2	-64.45	0.87	3796.71
			Max. Vy	20	-32.44	3691.08	0.03
			Max. Vx	14	33.81	0.87	-3796.68
			Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-126.94	0.74	-0.94
			Max. Mx	20	-64.62	3699.19	0.03
			Max. My	2	-64.59	0.87	3805.15
			Max. Vy	20	-32.43	3699.19	0.03
L49	23 - 19.25	Pole	Max. Vx	14	33.80	0.87	-3805.13
			Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-130.63	0.84	-1.03
			Max. Mx	20	-67.20	3861.82	0.01
			Max. My	14	-67.18	0.96	-3974.56
			Max. Vy	20	-32.43	3699.19	0.03
			Max. Vx	14	33.80	0.87	-3805.13
			Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
L50	19.25 - 19	Pole	Max. Compression	26	-130.63	0.84	-1.03
			Max. Mx	20	-67.20	3861.82	0.01
			Max. My	14	-67.18	0.96	-3974.56
			Max. Vy	20	-32.43	3699.19	0.03
			Max. Vx	14	33.80	0.87	-3805.13
			Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-126.94	0.74	-0.94
			Max. Mx	20	-64.62	3699.19	0.03
			Max. My	2	-64.59	0.87	3805.15
L51	19 - 14	Pole	Max. Vy	20	-32.43	3699.19	0.03
			Max. Vx	14	33.80	0.87	-3805.13
			Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-130.63	0.84	-1.03
			Max. Mx	20	-67.20	3861.82	0.01
			Max. My	14	-67.18	0.96	-3974.56
			Max. Vy	20	-32.43	3699.19	0.03
			Max. Vx	14	33.80	0.87	-3805.13
			Max. Torque	21			0.53

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L52	14 - 9	Pole	Max. Vy	20	-32.62	3861.82	0.01
			Max. Vx	14	34.00	0.96	-3974.56
			Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-134.25	0.94	-1.10
			Max. Mx	20	-69.81	4025.28	-0.02
			Max. My	14	-69.79	1.05	-4144.87
			Max. Vy	20	-32.78	4025.28	-0.02
L53	9 - 4	Pole	Max. Vx	14	34.17	1.05	-4144.87
			Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-137.51	1.05	-1.21
			Max. Mx	20	-72.27	4189.52	-0.07
			Max. My	14	-72.26	1.15	-4315.97
			Max. Vy	20	-32.93	4189.52	-0.07
			Max. Vx	14	34.31	1.15	-4315.97
L54	4 - 0	Pole	Max. Torque	21			0.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-139.99	1.15	-1.32
			Max. Mx	20	-74.22	4321.42	-0.12
			Max. My	14	-74.22	1.23	-4453.34
			Max. Vy	20	-33.04	4321.42	-0.12
			Max. Vx	14	34.41	1.23	-4453.34
			Max. Torque	21			0.53

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	33	139.99	-0.00	-9.65
	Max. H _x	21	55.67	33.01	0.00
	Max. H _z	2	74.23	0.00	34.38
	Max. M _x	2	4453.07	0.00	34.38
	Max. M _z	8	4318.95	-33.01	0.00
	Max. Torsion	21	0.53	33.01	0.00
	Min. Vert	19	55.67	28.46	-16.43
	Min. H _x	9	55.67	-33.01	0.00
	Min. H _z	14	74.23	0.00	-34.38
	Min. M _x	14	-4453.34	0.00	-34.38
	Min. M _z	20	-4321.42	33.01	0.00
	Min. Torsion	9	-0.53	-33.01	0.00

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead Only	61.86	0.00	0.00	0.11	1.00	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	74.23	0.00	-34.38	-4453.07	1.23	-0.00
0.9 Dead+1.0 Wind 0 deg - No Ice	55.67	0.00	-34.38	-4374.56	0.92	-0.00
1.2 Dead+1.0 Wind 30 deg - No Ice	74.23	16.48	-28.53	-3739.72	-2158.70	0.26
0.9 Dead+1.0 Wind 30 deg - No Ice	55.67	16.48	-28.53	-3673.23	-2120.58	0.27
1.2 Dead+1.0 Wind 60 deg - No Ice	74.23	28.46	-16.43	-2154.73	-3732.35	0.46
0.9 Dead+1.0 Wind 60 deg - No Ice	55.67	28.46	-16.43	-2116.40	-3666.18	0.46

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
1.2 Dead+1.0 Wind 90 deg - No Ice	74.23	33.01	0.00	0.12	-4318.95	0.53
0.9 Dead+1.0 Wind 90 deg - No Ice	55.67	33.01	0.00	0.09	-4242.42	0.53
1.2 Dead+1.0 Wind 120 deg - No Ice	74.23	28.46	16.43	2154.97	-3732.37	0.45
0.9 Dead+1.0 Wind 120 deg - No Ice	55.67	28.46	16.43	2116.59	-3666.20	0.46
1.2 Dead+1.0 Wind 150 deg - No Ice	74.23	19.05	32.98	4139.31	-2389.27	0.21
0.9 Dead+1.0 Wind 150 deg - No Ice	55.67	19.05	32.98	4067.94	-2348.37	0.21
1.2 Dead+1.0 Wind 180 deg - No Ice	74.23	0.00	34.38	4453.34	1.23	0.00
0.9 Dead+1.0 Wind 180 deg - No Ice	55.67	0.00	34.38	4374.77	0.92	0.00
1.2 Dead+1.0 Wind 210 deg - No Ice	74.23	-16.48	28.53	3739.98	2161.19	-0.26
0.9 Dead+1.0 Wind 210 deg - No Ice	55.67	-16.48	28.53	3673.42	2122.43	-0.26
1.2 Dead+1.0 Wind 240 deg - No Ice	74.23	-28.46	16.43	2154.97	3734.83	-0.45
0.9 Dead+1.0 Wind 240 deg - No Ice	55.67	-28.46	16.43	2116.58	3668.03	-0.46
1.2 Dead+1.0 Wind 270 deg - No Ice	74.23	-33.01	0.00	0.12	4321.42	-0.53
0.9 Dead+1.0 Wind 270 deg - No Ice	55.67	-33.01	0.00	0.09	4244.25	-0.53
1.2 Dead+1.0 Wind 300 deg - No Ice	74.23	-28.46	-16.43	-2154.73	3734.81	-0.46
0.9 Dead+1.0 Wind 300 deg - No Ice	55.67	-28.46	-16.43	-2116.40	3668.02	-0.47
1.2 Dead+1.0 Wind 330 deg - No Ice	74.23	-19.05	-32.98	-4139.04	2391.72	-0.22
0.9 Dead+1.0 Wind 330 deg - No Ice	55.67	-19.05	-32.98	-4067.74	2350.19	-0.22
1.2 Dead+1.0 Ice+1.0 Temp	139.99	0.00	0.00	1.32	1.15	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	139.99	0.00	-9.65	-1392.75	1.19	-0.01
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	139.99	4.81	-8.36	-1205.96	-693.09	0.02
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	139.99	8.34	-4.83	-695.62	-1201.34	0.04
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	139.99	9.63	0.00	1.53	-1387.37	0.05
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	139.99	8.34	4.83	698.67	-1201.34	0.05
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	139.99	5.22	9.07	1288.78	-739.15	0.04
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	139.99	0.00	9.65	1395.80	1.19	0.01
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	139.99	-4.81	8.36	1209.01	695.46	-0.02
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	139.99	-8.34	4.83	698.67	1203.71	-0.04
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	139.99	-9.63	0.00	1.53	1389.74	-0.05
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	139.99	-8.34	-4.83	-695.62	1203.71	-0.05
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	139.99	-5.22	-9.07	-1285.73	741.52	-0.04
Dead+Wind 0 deg - Service	61.86	0.00	-8.10	-1038.95	1.02	-0.00
Dead+Wind 30 deg - Service	61.86	3.88	-6.72	-872.37	-502.88	0.06
Dead+Wind 60 deg - Service	61.86	6.70	-3.87	-502.59	-869.99	0.11
Dead+Wind 90 deg - Service	61.86	7.77	0.00	0.12	-1006.85	0.13
Dead+Wind 120 deg - Service	61.86	6.70	3.87	502.83	-869.99	0.11
Dead+Wind 150 deg - Service	61.86	4.48	7.77	966.28	-556.96	0.05

Load Combination	Vertical	Shear _x	Shear _z	Overturning Moment, M _x	Overturning Moment, M _z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
Dead+Wind 180 deg - Service	61.86	0.00	8.10	1039.19	1.02	0.00
Dead+Wind 210 deg - Service	61.86	-3.88	6.72	872.60	504.93	-0.06
Dead+Wind 240 deg - Service	61.86	-6.70	3.87	502.83	872.04	-0.11
Dead+Wind 270 deg - Service	61.86	-7.77	0.00	0.12	1008.90	-0.13
Dead+Wind 300 deg - Service	61.86	-6.70	-3.87	-502.59	872.04	-0.11
Dead+Wind 330 deg - Service	61.86	-4.48	-7.77	-966.04	559.01	-0.05

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-61.86	0.00	0.00	61.86	0.00	0.000%
2	0.00	-74.23	-34.38	0.00	74.23	34.38	0.000%
3	0.00	-55.67	-34.38	0.00	55.67	34.38	0.000%
4	16.48	-74.23	-28.53	-16.48	74.23	28.53	0.000%
5	16.48	-55.67	-28.53	-16.48	55.67	28.53	0.000%
6	28.46	-74.23	-16.43	-28.46	74.23	16.43	0.000%
7	28.46	-55.67	-16.43	-28.46	55.67	16.43	0.000%
8	33.01	-74.23	0.00	-33.01	74.23	0.00	0.000%
9	33.01	-55.67	0.00	-33.01	55.67	0.00	0.000%
10	28.46	-74.23	16.43	-28.46	74.23	-16.43	0.000%
11	28.46	-55.67	16.43	-28.46	55.67	-16.43	0.000%
12	19.05	-74.23	32.98	-19.05	74.23	-32.98	0.000%
13	19.05	-55.67	32.98	-19.05	55.67	-32.98	0.000%
14	0.00	-74.23	34.38	0.00	74.23	-34.38	0.000%
15	0.00	-55.67	34.38	0.00	55.67	-34.38	0.000%
16	-16.48	-74.23	28.53	16.48	74.23	-28.53	0.000%
17	-16.48	-55.67	28.53	16.48	55.67	-28.53	0.000%
18	-28.46	-74.23	16.43	28.46	74.23	-16.43	0.000%
19	-28.46	-55.67	16.43	28.46	55.67	-16.43	0.000%
20	-33.01	-74.23	0.00	33.01	74.23	0.00	0.000%
21	-33.01	-55.67	0.00	33.01	55.67	0.00	0.000%
22	-28.46	-74.23	-16.43	28.46	74.23	16.43	0.000%
23	-28.46	-55.67	-16.43	28.46	55.67	16.43	0.000%
24	-19.05	-74.23	-32.98	19.05	74.23	32.98	0.000%
25	-19.05	-55.67	-32.98	19.05	55.67	32.98	0.000%
26	0.00	-139.99	0.00	-0.00	139.99	-0.00	0.000%
27	0.00	-139.99	-9.65	-0.00	139.99	9.65	0.000%
28	4.81	-139.99	-8.36	-4.81	139.99	8.36	0.000%
29	8.34	-139.99	-4.83	-8.34	139.99	4.83	0.000%
30	9.63	-139.99	0.00	-9.63	139.99	-0.00	0.000%
31	8.34	-139.99	4.83	-8.34	139.99	-4.83	0.000%
32	5.22	-139.99	9.07	-5.22	139.99	-9.07	0.000%
33	0.00	-139.99	9.65	-0.00	139.99	-9.65	0.000%
34	-4.81	-139.99	8.36	4.81	139.99	-8.36	0.000%
35	-8.34	-139.99	4.83	8.34	139.99	-4.83	0.000%
36	-9.63	-139.99	0.00	9.63	139.99	-0.00	0.000%
37	-8.34	-139.99	-4.83	8.34	139.99	4.83	0.000%
38	-5.22	-139.99	-9.07	5.22	139.99	9.07	0.000%
39	0.00	-61.86	-8.10	0.00	61.86	8.10	0.000%
40	3.88	-61.86	-6.72	-3.88	61.86	6.72	0.000%
41	6.70	-61.86	-3.87	-6.70	61.86	3.87	0.000%
42	7.77	-61.86	0.00	-7.77	61.86	0.00	0.000%
43	6.70	-61.86	3.87	-6.70	61.86	-3.87	0.000%
44	4.48	-61.86	7.77	-4.48	61.86	-7.77	0.000%
45	0.00	-61.86	8.10	0.00	61.86	-8.10	0.000%
46	-3.88	-61.86	6.72	3.88	61.86	-6.72	0.000%
47	-6.70	-61.86	3.87	6.70	61.86	-3.87	0.000%
48	-7.77	-61.86	0.00	7.77	61.86	0.00	0.000%

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
49	-6.70	-61.86	-3.87	6.70	61.86	3.87	0.000%
50	-4.48	-61.86	-7.77	4.48	61.86	7.77	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	5	0.00000001	0.00098218
3	Yes	5	0.00000001	0.00034948
4	Yes	7	0.00000001	0.00072195
5	Yes	7	0.00000001	0.00016377
6	Yes	7	0.00000001	0.00071276
7	Yes	7	0.00000001	0.00016134
8	Yes	6	0.00000001	0.00013433
9	Yes	5	0.00000001	0.00078851
10	Yes	7	0.00000001	0.00072196
11	Yes	7	0.00000001	0.00016395
12	Yes	7	0.00000001	0.00079785
13	Yes	7	0.00000001	0.00017476
14	Yes	5	0.00000001	0.00098198
15	Yes	5	0.00000001	0.00034939
16	Yes	7	0.00000001	0.00071661
17	Yes	7	0.00000001	0.00016224
18	Yes	7	0.00000001	0.00072221
19	Yes	7	0.00000001	0.00016400
20	Yes	6	0.00000001	0.00013437
21	Yes	5	0.00000001	0.00078866
22	Yes	7	0.00000001	0.00071300
23	Yes	7	0.00000001	0.00016139
24	Yes	7	0.00000001	0.00080380
25	Yes	7	0.00000001	0.00017634
26	Yes	4	0.00000001	0.00025393
27	Yes	8	0.00000001	0.00074374
28	Yes	9	0.00000001	0.00025661
29	Yes	9	0.00000001	0.00025585
30	Yes	8	0.00000001	0.00074282
31	Yes	9	0.00000001	0.00025778
32	Yes	9	0.00000001	0.00027806
33	Yes	8	0.00000001	0.00074790
34	Yes	9	0.00000001	0.00025755
35	Yes	9	0.00000001	0.00025766
36	Yes	8	0.00000001	0.00074236
37	Yes	9	0.00000001	0.00025573
38	Yes	9	0.00000001	0.00027713
39	Yes	5	0.00000001	0.00020744
40	Yes	6	0.00000001	0.00014874
41	Yes	6	0.00000001	0.00014447
42	Yes	5	0.00000001	0.00022155
43	Yes	6	0.00000001	0.00014950
44	Yes	6	0.00000001	0.00017606
45	Yes	5	0.00000001	0.00020752
46	Yes	6	0.00000001	0.00014620
47	Yes	6	0.00000001	0.00014964
48	Yes	5	0.00000001	0.00022166
49	Yes	6	0.00000001	0.00014460
50	Yes	6	0.00000001	0.00017909

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	168.5 - 163.5	37.824	44	2.2811	0.0066
L2	163.5 - 158.5	35.440	44	2.2704	0.0056
L3	158.5 - 153.5	33.079	44	2.2382	0.0045
L4	153.5 - 148.5	30.766	50	2.1851	0.0036
L5	148.5 - 143.5	28.519	50	2.1105	0.0027
L6	143.5 - 138.5	26.359	50	2.0165	0.0021
L7	138.5 - 130.667	24.307	50	1.9036	0.0015
L8	134.327 - 129.327	22.690	50	1.7952	0.0012
L9	129.327 - 125.75	20.846	50	1.7168	0.0011
L10	125.75 - 125.5	19.593	50	1.6272	0.0009
L11	125.5 - 120.5	19.508	50	1.6207	0.0009
L12	120.5 - 120.25	17.882	50	1.4850	0.0007
L13	120.25 - 115.25	17.804	50	1.4813	0.0007
L14	115.25 - 113.833	16.294	50	1.4028	0.0006
L15	113.833 - 113.483	15.881	50	1.3798	0.0006
L16	113.483 - 113.25	15.780	50	1.3755	0.0006
L17	113.25 - 108.25	15.713	50	1.3727	0.0006
L18	108.25 - 103.25	14.309	50	1.3090	0.0005
L19	103.25 - 98.25	12.973	50	1.2419	0.0005
L20	98.25 - 93.25	11.709	50	1.1716	0.0004
L21	93.25 - 84.717	10.521	50	1.0983	0.0003
L22	89.277 - 83.717	9.632	50	1.0393	0.0003
L23	83.717 - 82.917	8.446	50	0.9913	0.0003
L24	82.917 - 82.667	8.281	50	0.9798	0.0003
L25	82.667 - 82.5	8.229	50	0.9772	0.0003
L26	82.5 - 82.25	8.195	50	0.9755	0.0003
L27	82.25 - 77.25	8.144	50	0.9720	0.0003
L28	77.25 - 73.417	7.164	50	0.9005	0.0002
L29	73.417 - 73.167	6.464	50	0.8445	0.0002
L30	73.167 - 68.167	6.419	50	0.8419	0.0002
L31	68.167 - 64.25	5.566	50	0.7876	0.0002
L32	64.25 - 64	4.938	50	0.7439	0.0002
L33	64 - 59	4.899	50	0.7406	0.0002
L34	59 - 54	4.158	50	0.6746	0.0001
L35	54 - 53.5	3.487	50	0.6067	0.0001
L36	53.5 - 53.25	3.424	50	0.6000	0.0001
L37	53.25 - 43.827	3.393	50	0.5971	0.0001
L38	49.167 - 42.827	2.903	50	0.5484	0.0001
L39	42.827 - 41.75	2.203	50	0.5005	0.0001
L40	41.75 - 41.5	2.091	50	0.4857	0.0001
L41	41.5 - 36.5	2.066	50	0.4825	0.0001
L42	36.5 - 32.75	1.595	50	0.4163	0.0001
L43	32.75 - 32.5	1.288	50	0.3671	0.0001
L44	32.5 - 29.733	1.269	50	0.3646	0.0001
L45	29.733 - 29.483	1.066	50	0.3342	0.0001
L46	29.483 - 28.25	1.049	50	0.3315	0.0001
L47	28.25 - 28	0.965	50	0.3180	0.0001
L48	28 - 23	0.948	50	0.3154	0.0001
L49	23 - 19.25	0.645	50	0.2639	0.0000
L50	19.25 - 19	0.453	50	0.2253	0.0000
L51	19 - 14	0.441	50	0.2224	0.0000
L52	14 - 9	0.239	50	0.1633	0.0000
L53	9 - 4	0.099	50	0.1050	0.0000
L54	4 - 0	0.020	50	0.0467	0.0000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
168.00	DMP65R-BU6D w/ Mount Pipe	44	37.586	2.2805	0.0065	13192
158.00	APXVSP18-C-A20 w/ Mount Pipe	44	32.845	2.2338	0.0044	6467

Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
148.00	MX08FRO665-21 w/ Mount Pipe	50	28.299	2.1019	0.0027	3346
138.00	BXA-70063/4CF w/ Mount Pipe	50	24.109	1.8900	0.0015	2439
128.00	6' x 2" Mount Pipe	50	20.374	1.6865	0.0010	2477
70.00	GPS_A	50	5.872	0.8074	0.0002	5161

Maximum Tower Deflections - Design Wind

Section No.	Elevation	Horz. Deflection	Gov. Load Comb.	Tilt	Twist
	ft	in		°	°
L1	168.5 - 163.5	161.570	12	9.7695	0.0280
L2	163.5 - 158.5	151.439	12	9.7255	0.0234
L3	158.5 - 153.5	141.402	24	9.5898	0.0189
L4	153.5 - 148.5	131.552	24	9.3647	0.0149
L5	148.5 - 143.5	121.980	24	9.0479	0.0114
L6	143.5 - 138.5	112.773	24	8.6471	0.0087
L7	138.5 - 130.667	104.021	24	8.1646	0.0063
L8	134.327 - 129.327	97.122	24	7.7010	0.0051
L9	129.327 - 125.75	89.247	24	7.3655	0.0045
L10	125.75 - 125.5	83.895	24	6.9816	0.0038
L11	125.5 - 120.5	83.532	24	6.9538	0.0038
L12	120.5 - 120.25	76.578	24	6.3717	0.0029
L13	120.25 - 115.25	76.246	24	6.3556	0.0029
L14	115.25 - 113.833	69.787	24	6.0187	0.0025
L15	113.833 - 113.483	68.021	24	5.9200	0.0024
L16	113.483 - 113.25	67.589	24	5.9017	0.0024
L17	113.25 - 108.25	67.303	24	5.8895	0.0024
L18	108.25 - 103.25	61.295	24	5.6164	0.0021
L19	103.25 - 98.25	55.579	24	5.3283	0.0019
L20	98.25 - 93.25	50.169	24	5.0265	0.0016
L21	93.25 - 84.717	45.080	24	4.7122	0.0014
L22	89.277 - 83.717	41.271	24	4.4586	0.0012
L23	83.717 - 82.917	36.192	24	4.2527	0.0011
L24	82.917 - 82.667	35.485	24	4.2033	0.0011
L25	82.667 - 82.5	35.266	24	4.1922	0.0011
L26	82.5 - 82.25	35.119	24	4.1847	0.0011
L27	82.25 - 77.25	34.901	24	4.1697	0.0011
L28	77.25 - 73.417	30.701	24	3.8629	0.0009
L29	73.417 - 73.167	27.700	24	3.6225	0.0008
L30	73.167 - 68.167	27.511	24	3.6112	0.0008
L31	68.167 - 64.25	23.855	24	3.3780	0.0007
L32	64.25 - 64	21.164	24	3.1907	0.0006
L33	64 - 59	20.997	24	3.1766	0.0006
L34	59 - 54	17.821	24	2.8933	0.0006
L35	54 - 53.5	14.946	24	2.6020	0.0005
L36	53.5 - 53.25	14.675	24	2.5730	0.0005
L37	53.25 - 43.827	14.541	24	2.5604	0.0005
L38	49.167 - 42.827	12.442	24	2.3514	0.0004
L39	42.827 - 41.75	9.439	24	2.1459	0.0004
L40	41.75 - 41.5	8.962	24	2.0828	0.0004
L41	41.5 - 36.5	8.854	24	2.0687	0.0004
L42	36.5 - 32.75	6.837	24	1.7846	0.0003
L43	32.75 - 32.5	5.519	24	1.5735	0.0003
L44	32.5 - 29.733	5.436	24	1.5628	0.0003
L45	29.733 - 29.483	4.569	24	1.4326	0.0002
L46	29.483 - 28.25	4.494	24	1.4209	0.0002
L47	28.25 - 28	4.135	24	1.3629	0.0002
L48	28 - 23	4.064	24	1.3518	0.0002
L49	23 - 19.25	2.764	24	1.1310	0.0002
L50	19.25 - 19	1.941	24	0.9653	0.0002
L51	19 - 14	1.891	24	0.9530	0.0001
L52	14 - 9	1.026	24	0.6998	0.0001
L53	9 - 4	0.424	24	0.4500	0.0001

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L54	4 - 0	0.084	24	0.2002	0.0000

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
168.00	DMP65R-BU6D w/ Mount Pipe	12	160.555	9.7670	0.0275	3295
158.00	APXVSP18-C-A20 w/ Mount Pipe	24	140.407	9.5712	0.0184	1594
148.00	MX08FRO665-21 w/ Mount Pipe	24	121.042	9.0111	0.0111	817
138.00	BXA-70063/4CF w/ Mount Pipe	24	103.175	8.1068	0.0061	590
128.00	6' x 2" Mount Pipe	24	87.230	7.2357	0.0042	595
70.00	GPS_A	24	25.167	3.4633	0.0007	1212

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio P _u / φP _n
L1	168.5 - 163.5 (1)	TP19.8343x19x0.1875	5.00	0.00	0.0	11.692 3	-4.11	684.00	0.006
L2	163.5 - 158.5 (2)	TP20.6685x19.8343x0.18 75	5.00	0.00	0.0	12.188 8	-4.39	713.04	0.006
L3	158.5 - 153.5 (3)	TP21.5028x20.6685x0.18 75	5.00	0.00	0.0	12.685 3	-6.84	742.09	0.009
L4	153.5 - 148.5 (4)	TP22.337x21.5028x0.187 5	5.00	0.00	0.0	13.181 7	-7.21	771.13	0.009
L5	148.5 - 143.5 (5)	TP23.1713x22.337x0.187 5	5.00	0.00	0.0	13.678 2	-10.11	800.18	0.013
L6	143.5 - 138.5 (6)	TP24.0056x23.1713x0.18 75	5.00	0.00	0.0	14.174 7	-10.58	829.22	0.013
L7	138.5 - 130.667 (7)	TP25.3125x24.0056x0.18 75	7.83	0.00	0.0	14.589 1	-13.71	853.46	0.016
L8	130.667 - 129.327 (8)	TP25.1499x24.3268x0.25	5.00	0.00	0.0	19.758 1	-14.54	1155.85	0.013
L9	129.327 - 125.75 (9)	TP25.7387x25.1499x0.25	3.58	0.00	0.0	20.225 3	-17.94	1183.18	0.015
L10	125.75 - 125.5 (10)	TP25.7798x25.7387x0.25	0.25	0.00	0.0	20.257 9	-18.01	1185.09	0.015
L11	125.5 - 120.5 (11)	TP26.6029x25.7798x0.25	5.00	0.00	0.0	20.911 0	-18.81	1223.30	0.015
L12	120.5 - 120.25 (12)	TP26.6441x26.6029x0.48 13	0.25	0.00	0.0	39.963 4	-18.89	2337.86	0.008
L13	120.25 - 115.25 (13)	TP27.4671x26.6441x0.47 5	5.00	0.00	0.0	40.694 7	-20.22	2380.64	0.008
L14	115.25 - 113.833 (14)	TP27.7004x27.4671x0.46 88	1.42	0.00	0.0	40.515 5	-20.60	2370.16	0.009
L15	113.833 - 113.483 (15)	TP27.758x27.7004x0.65	0.35	0.00	0.0	55.926 5	-20.73	3271.70	0.006
L16	113.483 - 113.25 (16)	TP27.7963x27.758x0.65	0.23	0.00	0.0	56.005 6	-20.80	3276.33	0.006
L17	113.25 - 108.25 (17)	TP28.6194x27.7963x0.63 75	5.00	0.00	0.0	56.619 3	-22.33	3312.23	0.007
L18	108.25 - 103.25 (18)	TP29.4425x28.6194x0.62 5	5.00	0.00	0.0	57.166 6	-23.91	3344.25	0.007

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio P _u / φP _n
L19	103.25 - 98.25 (19)	TP30.2655x29.4425x0.6125	5.00	0.00	0.0	57.6477	-25.51	3372.39	0.008
L20	98.25 - 93.25 (20)	TP31.0886x30.2655x0.6	5.00	0.00	0.0	58.0624	-27.14	3396.65	0.008
L21	93.25 - 84.717 (21)	TP32.4932x31.0886x0.6	8.53	0.00	0.0	59.3079	-28.45	3469.51	0.008
L22	84.717 - 83.717 (22)	TP32.1551x31.2426x0.6625	5.56	0.00	0.0	66.2219	-31.55	3873.98	0.008
L23	83.717 - 82.917 (23)	TP32.2864x32.1551x0.6625	0.80	0.00	0.0	66.4980	-31.85	3890.13	0.008
L24	82.917 - 82.667 (24)	TP32.3274x32.2864x0.95	0.25	0.00	0.0	94.6124	-31.97	5534.83	0.006
L25	82.667 - 82.5 (25)	TP32.3549x32.3274x0.95	0.17	0.00	0.0	94.6951	-32.05	5539.66	0.006
L26	82.5 - 82.25 (26)	TP32.3959x32.3549x0.6875	0.25	0.00	0.0	69.1917	-32.14	4047.71	0.008
L27	82.25 - 77.25 (27)	TP33.2165x32.3959x0.675	5.00	0.00	0.0	69.7186	-34.13	4078.54	0.008
L28	77.25 - 73.417 (28)	TP33.8456x33.2165x0.6625	3.83	0.00	0.0	69.7766	-35.68	4081.93	0.009
L29	73.417 - 73.167 (29)	TP33.8866x33.8456x0.9375	0.25	0.00	0.0	98.0443	-35.81	5735.59	0.006
L30	73.167 - 68.167 (30)	TP34.7073x33.8866x0.9125	5.00	0.00	0.0	97.8790	-38.24	5725.92	0.007
L31	68.167 - 64.25 (31)	TP35.3502x34.7073x0.8875	3.92	0.00	0.0	97.0787	-40.10	5679.10	0.007
L32	64.25 - 64 (32)	TP35.3912x35.3502x0.7375	0.25	0.00	0.0	81.1182	-40.22	4745.42	0.008
L33	64 - 59 (33)	TP36.2118x35.3912x0.7375	5.00	0.00	0.0	83.0392	-42.28	4857.79	0.009
L34	59 - 54 (34)	TP37.0324x36.2118x0.7125	5.00	0.00	0.0	82.1367	-44.38	4804.99	0.009
L35	54 - 53.5 (35)	TP37.1145x37.0324x0.7125	0.50	0.00	0.0	82.3222	-44.60	4815.85	0.009
L36	53.5 - 53.25 (36)	TP37.1555x37.1145x0.825	0.25	0.00	0.0	95.1333	-44.72	5565.30	0.008
L37	53.25 - 43.827 (37)	TP38.7021x37.1555x0.8125	9.42	0.00	0.0	95.4523	-46.63	5583.96	0.008
L38	43.827 - 42.827 (38)	TP38.2386x37.2007x0.725	6.34	0.00	0.0	86.3245	-51.58	5049.98	0.010
L39	42.827 - 41.75 (39)	TP38.4149x38.2386x0.725	1.08	0.00	0.0	86.7302	-52.10	5073.72	0.010
L40	41.75 - 41.5 (40)	TP38.4559x38.4149x0.7625	0.25	0.00	0.0	91.2245	-52.24	5336.64	0.010
L41	41.5 - 36.5 (41)	TP39.2744x38.4559x0.754	5.00	0.00	0.0	91.7074	-54.77	5364.88	0.010
L42	36.5 - 32.75 (42)	TP39.8884x39.2744x0.759	3.75	0.00	0.0	93.1689	-56.68	5450.38	0.010
L43	32.75 - 32.5 (43)	TP39.9293x39.8884x1	0.25	0.00	0.0	123.5620	-56.84	7228.35	0.008
L44	32.5 - 29.733 (44)	TP40.3823x39.9293x0.9	2.77	0.00	0.0	112.7850	-58.28	6597.93	0.009
L45	29.733 - 29.483 (45)	TP40.4232x40.3823x0.9	0.25	0.00	0.0	112.9020	-58.43	6604.77	0.009
L46	29.483 - 28.25 (46)	TP40.6251x40.4232x0.8875	1.23	0.00	0.0	111.9380	-59.06	6548.36	0.009
L47	28.25 - 28 (47)	TP40.666x40.6251x0.9560	0.25	0.00	0.0	119.7560	-59.22	7005.71	0.008
L48	28 - 23 (48)	TP41.4846x40.666x0.9540	5.00	0.00	0.0	122.2240	-62.14	7150.10	0.009
L49	23 - 19.25 (49)	TP42.0985x41.4846x0.9375	3.75	0.00	0.0	122.4800	-64.34	7165.06	0.009
L50	19.25 - 19 (50)	TP42.1394x42.0985x0.825	0.25	0.00	0.0	108.1840	-64.49	6328.76	0.010
L51	19 - 14 (51)	TP42.958x42.1394x0.8	5.00	0.00	0.0	107.0480	-67.10	6262.28	0.011
L52	14 - 9 (52)	TP43.7766x42.958x0.860	5.00	0.00	0.0	109.1260	-69.74	6383.88	0.011
L53	9 - 4 (53)	TP44.5951x43.7766x0.78	5.00	0.00	0.0	109.49	-72.24	6405.65	0.011

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
L54	4 - 0 (54)	75 TP45.25x44.5951x0.775	4.00	0.00	0.0	80 109.40 20	-74.21	6400.01	0.012

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{rx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{rx}}$	M _{uy} kip-ft	φM _{ry} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ry}}$
L1	168.5 - 163.5 (1)	TP19.8343x19x0.1875	37.40	341.82	0.109	0.00	341.82	0.000
L2	163.5 - 158.5 (2)	TP20.6685x19.8343x0.1875	80.25	367.36	0.218	0.00	367.36	0.000
L3	158.5 - 153.5 (3)	TP21.5028x20.6685x0.1875	140.89	393.44	0.358	0.00	393.44	0.000
L4	153.5 - 148.5 (4)	TP22.337x21.5028x0.1875	205.03	420.00	0.488	0.00	420.00	0.000
L5	148.5 - 143.5 (5)	TP23.1713x22.337x0.1875	285.77	447.02	0.639	0.00	447.02	0.000
L6	143.5 - 138.5 (6)	TP24.0056x23.1713x0.1875	369.77	474.44	0.779	0.00	474.44	0.000
L7	138.5 - 130.667 (7)	TP25.3125x24.0056x0.1875	458.32	497.60	0.921	0.00	497.60	0.000
L8	130.667 - 129.327 (8)	TP25.1499x24.3268x0.25	562.99	741.46	0.759	0.00	741.46	0.000
L9	129.327 - 125.75 (9)	TP25.7387x25.1499x0.25	649.53	772.47	0.841	0.00	772.47	0.000
L10	125.75 - 125.5 (10)	TP25.7798x25.7387x0.25	655.64	774.66	0.846	0.00	774.66	0.000
L11	125.5 - 120.5 (11)	TP26.6029x25.7798x0.25	778.84	818.72	0.951	0.00	818.72	0.000
L12	120.5 - 120.25 (12)	TP26.6441x26.6029x0.4813	785.06	1580.82	0.497	0.00	1580.82	0.000
L13	120.25 - 115.25 (13)	TP27.4671x26.6441x0.475	911.52	1662.08	0.548	0.00	1662.08	0.000
L14	115.25 - 113.833 (14)	TP27.7004x27.4671x0.4688	948.13	1670.08	0.568	0.00	1670.08	0.000
L15	113.833 - 113.483 (15)	TP27.758x27.7004x0.65	957.24	2279.69	0.420	0.00	2279.69	0.000
L16	113.483 - 113.25 (16)	TP27.7963x27.758x0.65	963.31	2286.22	0.421	0.00	2286.22	0.000
L17	113.25 - 108.25 (17)	TP28.6194x27.7963x0.6375	1095.97	2385.12	0.460	0.00	2385.12	0.000
L18	108.25 - 103.25 (18)	TP29.4425x28.6194x0.625	1233.10	2482.74	0.497	0.00	2482.74	0.000
L19	103.25 - 98.25 (19)	TP30.2655x29.4425x0.6125	1374.63	2578.83	0.533	0.00	2578.83	0.000
L20	98.25 - 93.25 (20)	TP31.0886x30.2655x0.6	1520.53	2673.13	0.569	0.00	2673.13	0.000
L21	93.25 - 84.717 (21)	TP32.4932x31.0886x0.6	1639.55	2790.18	0.588	0.00	2790.18	0.000
L22	84.717 - 83.717 (22)	TP32.1551x31.2426x0.6625	1811.31	3145.00	0.576	0.00	3145.00	0.000
L23	83.717 - 82.917 (23)	TP32.2864x32.1551x0.6625	1836.53	3171.55	0.579	0.00	3171.55	0.000
L24	82.917 - 82.667 (24)	TP32.3274x32.2864x0.95	1844.43	4436.74	0.416	0.00	4436.74	0.000
L25	82.667 - 82.5 (25)	TP32.3549x32.3274x0.95	1849.72	4444.61	0.416	0.00	4444.61	0.000
L26	82.5 - 82.25 (26)	TP32.3959x32.3549x0.6875	1857.63	3306.47	0.562	0.00	3306.47	0.000
L27	82.25 - 77.25 (27)	TP33.2165x32.3959x0.675	2017.46	3422.33	0.589	0.00	3422.33	0.000
L28	77.25 - 73.417 (28)	TP33.8456x33.2165x0.6625	2141.69	3495.38	0.613	0.00	3495.38	0.000

Section No.	Elevation ft	Size	M_{ux}	ϕM_{nx}	Ratio	M_{uy} kip-ft	ϕM_{ny}	Ratio
			kip-ft	kip-ft	$\frac{M_{ux}}{\phi M_{nx}}$		kip-ft	$\frac{M_{uy}}{\phi M_{ny}}$
L29	73.417 - 73.167 (29)	TP33.8866x33.8456x0.9375	2149.85	4836.53	0.445	0.00	4836.53	0.000
L30	73.167 - 68.167 (30)	TP34.7073x33.8866x0.9125	2314.80	4959.29	0.467	0.00	4959.29	0.000
L31	68.167 - 64.25 (31)	TP35.3502x34.7073x0.8875	2445.95	5022.07	0.487	0.00	5022.07	0.000
L32	64.25 - 64 (32)	TP35.3912x35.3502x0.7375	2454.38	4238.13	0.579	0.00	4238.13	0.000
L33	64 - 59 (33)	TP36.2118x35.3912x0.7375	2624.07	4443.38	0.591	0.00	4443.38	0.000
L34	59 - 54 (34)	TP37.0324x36.2118x0.7125	2795.93	4505.02	0.621	0.00	4505.02	0.000
L35	54 - 53.5 (35)	TP37.1145x37.0324x0.7125	2813.22	4525.60	0.622	0.00	4525.60	0.000
L36	53.5 - 53.25 (36)	TP37.1555x37.1145x0.825	2821.88	5203.61	0.542	0.00	5203.61	0.000
L37	53.25 - 43.827 (37)	TP38.7021x37.1555x0.8125	2964.13	5323.10	0.557	0.00	5323.10	0.000
L38	43.827 - 42.827 (38)	TP38.2386x37.2007x0.725	3188.68	4891.72	0.652	0.00	4891.72	0.000
L39	42.827 - 41.75 (39)	TP38.4149x38.2386x0.725	3227.23	4938.25	0.654	0.00	4938.25	0.000
L40	41.75 - 41.5 (40)	TP38.4559x38.4149x0.7625	3236.20	5189.57	0.624	0.00	5189.57	0.000
L41	41.5 - 36.5 (41)	TP39.2744x38.4559x0.75	3416.27	5336.04	0.640	0.00	5336.04	0.000
L42	36.5 - 32.75 (42)	TP39.8884x39.2744x0.75	3552.40	5509.12	0.645	0.00	5509.12	0.000
L43	32.75 - 32.5 (43)	TP39.9293x39.8884x1	3561.51	7220.99	0.493	0.00	7220.99	0.000
L44	32.5 - 29.733 (44)	TP40.3823x39.9293x0.9	3662.64	6703.74	0.546	0.00	6703.74	0.000
L45	29.733 - 29.483 (45)	TP40.4232x40.3823x0.9	3671.82	6717.81	0.547	0.00	6717.81	0.000
L46	29.483 - 28.25 (46)	TP40.6251x40.4232x0.8875	3717.17	6699.42	0.555	0.00	6699.42	0.000
L47	28.25 - 28 (47)	TP40.666x40.6251x0.95	3726.38	7152.33	0.521	0.00	7152.33	0.000
L48	28 - 23 (48)	TP41.4846x40.666x0.95	3911.82	7453.72	0.525	0.00	7453.72	0.000
L49	23 - 19.25 (49)	TP42.0985x41.4846x0.9375	4052.01	7589.64	0.534	0.00	7589.64	0.000
L50	19.25 - 19 (50)	TP42.1394x42.0985x0.825	4061.39	6747.29	0.602	0.00	6747.29	0.000
L51	19 - 14 (51)	TP42.958x42.1394x0.8	4249.45	6819.38	0.623	0.00	6819.38	0.000
L52	14 - 9 (52)	TP43.7766x42.958x0.8	4438.47	7089.28	0.626	0.00	7089.28	0.000
L53	9 - 4 (53)	TP44.5951x43.7766x0.7875	4628.19	7255.57	0.638	0.00	7255.57	0.000
L54	4 - 0 (54)	TP45.25x44.5951x0.775	4780.38	7363.60	0.649	0.00	7363.60	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual	ϕV_n	Ratio	Actual	ϕT_n	Ratio
			V_u K	K	$\frac{V_u}{\phi V_n}$	T_u kip-ft	kip-ft	$\frac{T_u}{\phi T_n}$
L1	168.5 - 163.5 (1)	TP19.8343x19x0.1875	8.40	205.20	0.041	1.50	353.06	0.004
L2	163.5 - 158.5 (2)	TP20.6685x19.8343x0.1875	8.75	213.91	0.041	1.50	383.68	0.004
L3	158.5 - 153.5 (3)	TP21.5028x20.6685x0.1875	12.66	222.63	0.057	1.48	415.57	0.004
L4	153.5 - 148.5 (4)	TP22.337x21.5028x0.1875	13.01	231.34	0.056	1.48	448.74	0.003
L5	148.5 - 143.5 (5)	TP23.1713x22.337x0.1875	16.65	240.05	0.069	1.27	483.18	0.003
L6	143.5 - 138.5	TP24.0056x23.1713x0.1875	16.97	248.77	0.068	1.27	518.89	0.002

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L7	(6) 138.5 - 130.667 (7)	75 TP25.3125x24.0056x0.18	20.75	256.04	0.081	0.39	549.67	0.001
L8	130.667 - 129.327 (8)	75 TP25.1499x24.3268x0.25	21.14	346.75	0.061	0.39	756.13	0.001
L9	129.327 - 125.75 (9)	TP25.7387x25.1499x0.25	24.46	354.95	0.069	0.39	792.32	0.000
L10	125.75 - 125.5 (10)	TP25.7798x25.7387x0.25	24.47	355.53	0.069	0.39	794.88	0.000
L11	125.5 - 120.5 (11)	TP26.6029x25.7798x0.25	24.85	366.99	0.068	0.39	846.96	0.000
L12	120.5 - 120.25 (12)	TP26.6441x26.6029x0.48	24.88	701.36	0.035	0.39	1606.96	0.000
L13	120.25 - 115.25 (13)	13 TP27.4671x26.6441x0.47	25.74	714.19	0.036	0.38	1688.23	0.000
L14	115.25 - 113.833 (14)	5 TP27.7004x27.4671x0.46	25.99	711.05	0.037	0.38	1695.72	0.000
L15	113.833 - 113.483 (15)	88 TP27.758x27.7004x0.65	26.05	981.51	0.027	0.37	2330.08	0.000
L16	113.483 - 113.25 (16)	TP27.7963x27.758x0.65	26.10	982.90	0.027	0.37	2336.68	0.000
L17	113.25 - 108.25 (17)	TP28.6194x27.7963x0.63	27.00	993.67	0.027	0.37	2435.00	0.000
L18	108.25 - 103.25 (18)	75 TP29.4425x28.6194x0.62	27.89	1003.27	0.028	0.36	2531.95	0.000
L19	103.25 - 98.25 (19)	5 TP30.2655x29.4425x0.61	28.76	1011.72	0.028	0.36	2627.29	0.000
L20	98.25 - 93.25 (20)	25 TP31.0886x30.2655x0.6	29.63	1019.00	0.029	0.35	2720.76	0.000
L21	93.25 - 84.717 (21)	TP32.4932x31.0886x0.6	30.33	1040.85	0.029	0.35	2838.73	0.000
L22	84.717 - 83.717 (22)	TP32.1551x31.2426x0.66	31.47	1162.19	0.027	0.34	3205.29	0.000
L23	83.717 - 82.917 (23)	25 TP32.2864x32.1551x0.66	31.60	1167.04	0.027	0.34	3232.07	0.000
L24	82.917 - 82.667 (24)	25 TP32.3274x32.2864x0.95	31.65	1660.45	0.019	0.34	4562.71	0.000
L25	82.667 - 82.5 (25)	TP32.3549x32.3274x0.95	31.69	1661.90	0.019	0.34	4570.68	0.000
L26	82.5 - 82.25 (26)	75 TP32.3959x32.3549x0.68	31.72	1214.31	0.026	0.34	3371.98	0.000
L27	82.25 - 77.25 (27)	5 TP33.2165x32.3959x0.67	32.24	1223.56	0.026	0.35	3486.93	0.000
L28	77.25 - 73.417 (28)	25 TP33.8456x33.2165x0.66	32.62	1224.58	0.027	0.35	3558.64	0.000
L29	73.417 - 73.167 (29)	75 TP33.8866x33.8456x0.93	32.65	1720.68	0.019	0.35	4965.05	0.000
L30	73.167 - 68.167 (30)	25 TP34.7073x33.8866x0.91	33.28	1717.78	0.019	0.22	5083.89	0.000
L31	68.167 - 64.25 (31)	75 TP35.3502x34.7073x0.88	33.71	1703.73	0.020	0.22	5141.98	0.000
L32	64.25 - 64 (32)	75 TP35.3912x35.3502x0.73	33.72	1423.62	0.024	0.22	4320.41	0.000
L33	64 - 59 (33)	75 TP36.2118x35.3912x0.73	34.18	1457.34	0.023	0.22	4527.46	0.000
L34	59 - 54 (34)	25 TP37.0324x36.2118x0.71	34.60	1441.50	0.024	0.22	4585.00	0.000
L35	54 - 53.5 (35)	25 TP37.1145x37.0324x0.71	34.63	1444.76	0.024	0.22	4605.74	0.000
L36	53.5 - 53.25 (36)	5 TP37.1555x37.1145x0.82	34.65	1669.59	0.021	0.22	5312.04	0.000
L37	53.25 - 43.827 (37)	25 TP38.7021x37.1555x0.81	35.04	1675.19	0.021	0.22	5430.00	0.000
L38	43.827 - 42.827 (38)	5 TP38.2386x37.2007x0.72	35.78	1514.99	0.024	0.22	4977.14	0.000
L39	42.827 - 41.75 (39)	5 TP38.4149x38.2386x0.72	35.86	1522.11	0.024	0.22	5024.03	0.000
L40	41.75 - 41.5 (40)	25 TP38.4559x38.4149x0.76	35.86	1600.99	0.022	0.22	5284.86	0.000

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L41	41.5 - 36.5 (41)	TP39.2744x38.4559x0.75	36.20	1609.47	0.022	0.22	5429.98	0.000
L42	36.5 - 32.75 (42)	TP39.8884x39.2744x0.75	36.46	1635.11	0.022	0.22	5604.42	0.000
L43	32.75 - 32.5 (43)	TP39.9293x39.8884x1	36.45	2168.51	0.017	0.22	7392.93	0.000
L44	32.5 - 29.733 (44)	TP40.3823x39.9293x0.9	36.69	1979.38	0.019	0.22	6844.02	0.000
L45	29.733 - 29.483 (45)	TP40.4232x40.3823x0.9	36.70	1981.43	0.019	0.22	6858.22	0.000
L46	29.483 - 28.25 (46)	TP40.6251x40.4232x0.8875	36.90	1964.51	0.019	0.22	6836.52	0.000
L47	28.25 - 28 (47)	TP40.666x40.6251x0.95	36.91	2101.71	0.018	0.22	7310.02	0.000
L48	28 - 23 (48)	TP41.4846x40.666x0.95	37.29	2145.03	0.017	0.22	7614.46	0.000
L49	23 - 19.25 (49)	TP42.0985x41.4846x0.9375	37.52	2149.52	0.017	0.22	7748.32	0.000
L50	19.25 - 19 (50)	TP42.1394x42.0985x0.825	37.51	1898.63	0.020	0.22	6869.44	0.000
L51	19 - 14 (51)	TP42.958x42.1394x0.8	37.74	1878.69	0.020	0.22	6936.08	0.000
L52	14 - 9 (52)	TP43.7766x42.958x0.8	37.91	1915.16	0.020	0.22	7208.05	0.000
L53	9 - 4 (53)	TP44.5951x43.7766x0.7875	38.03	1921.70	0.020	0.22	7372.49	0.000
L54	4 - 0 (54)	TP45.25x44.5951x0.775	38.12	1920.00	0.020	0.22	7478.21	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio P_u	Ratio M_{ux}	Ratio M_{uy}	Ratio V_u	Ratio T_u	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		ϕP_n	ϕM_{nx}	ϕM_{ny}	ϕV_n	ϕT_n			
L1	168.5 - 163.5 (1)	0.006	0.109	0.000	0.041	0.004	0.117	1.050	4.8.2
L2	163.5 - 158.5 (2)	0.006	0.218	0.000	0.041	0.004	0.227	1.050	4.8.2
L3	158.5 - 153.5 (3)	0.009	0.358	0.000	0.057	0.004	0.371	1.050	4.8.2
L4	153.5 - 148.5 (4)	0.009	0.488	0.000	0.056	0.003	0.501	1.050	4.8.2
L5	148.5 - 143.5 (5)	0.013	0.639	0.000	0.069	0.003	0.657	1.050	4.8.2
L6	143.5 - 138.5 (6)	0.013	0.779	0.000	0.068	0.002	0.797	1.050	4.8.2
L7	138.5 - 130.667 (7)	0.016	0.921	0.000	0.081	0.001	0.944	1.050	4.8.2
L8	130.667 - 129.327 (8)	0.013	0.759	0.000	0.061	0.001	0.776	1.050	4.8.2
L9	129.327 - 125.75 (9)	0.015	0.841	0.000	0.069	0.000	0.861	1.050	4.8.2
L10	125.75 - 125.5 (10)	0.015	0.846	0.000	0.069	0.000	0.866	1.050	4.8.2
L11	125.5 - 120.5 (11)	0.015	0.951	0.000	0.068	0.000	0.971	1.050	4.8.2
L12	120.5 - 120.25 (12)	0.008	0.497	0.000	0.035	0.000	0.506	1.050	4.8.2
L13	120.25 - 115.25 (13)	0.008	0.548	0.000	0.036	0.000	0.558	1.050	4.8.2
L14	115.25 - 113.833 (14)	0.009	0.568	0.000	0.037	0.000	0.578	1.050	4.8.2
L15	113.833 - 113.483 (15)	0.006	0.420	0.000	0.027	0.000	0.427	1.050	4.8.2
L16	113.483 - 113.25 (16)	0.006	0.421	0.000	0.027	0.000	0.428	1.050	4.8.2
L17	113.25 -	0.007	0.460	0.000	0.027	0.000	0.467	1.050	4.8.2

Section No.	Elevation ft	Ratio	Ratio	Ratio	Ratio	Ratio	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		P_u ϕP_n	M_{ux} ϕM_{nx}	M_{uy} ϕM_{ny}	V_u ϕV_n	T_u ϕT_n			
L18	108.25 (17) 108.25 - 103.25 (18)	0.007	0.497	0.000	0.028	0.000	0.505	1.050	4.8.2
L19	103.25 - 98.25 (19)	0.008	0.533	0.000	0.028	0.000	0.541	1.050	4.8.2
L20	98.25 - 93.25 (20)	0.008	0.569	0.000	0.029	0.000	0.578	1.050	4.8.2
L21	93.25 - 84.717 (21)	0.008	0.588	0.000	0.029	0.000	0.597	1.050	4.8.2
L22	84.717 - 83.717 (22)	0.008	0.576	0.000	0.027	0.000	0.585	1.050	4.8.2
L23	83.717 - 82.917 (23)	0.008	0.579	0.000	0.027	0.000	0.588	1.050	4.8.2
L24	82.917 - 82.667 (24)	0.006	0.416	0.000	0.019	0.000	0.422	1.050	4.8.2
L25	82.667 - 82.5 (25)	0.006	0.416	0.000	0.019	0.000	0.422	1.050	4.8.2
L26	82.5 - 82.25 (26)	0.008	0.562	0.000	0.026	0.000	0.570	1.050	4.8.2
L27	82.25 - 77.25 (27)	0.008	0.589	0.000	0.026	0.000	0.599	1.050	4.8.2
L28	77.25 - 73.417 (28)	0.009	0.613	0.000	0.027	0.000	0.622	1.050	4.8.2
L29	73.417 - 73.167 (29)	0.006	0.445	0.000	0.019	0.000	0.451	1.050	4.8.2
L30	73.167 - 68.167 (30)	0.007	0.467	0.000	0.019	0.000	0.474	1.050	4.8.2
L31	68.167 - 64.25 (31)	0.007	0.487	0.000	0.020	0.000	0.494	1.050	4.8.2
L32	64.25 - 64 (32)	0.008	0.579	0.000	0.024	0.000	0.588	1.050	4.8.2
L33	64 - 59 (33)	0.009	0.591	0.000	0.023	0.000	0.600	1.050	4.8.2
L34	59 - 54 (34)	0.009	0.621	0.000	0.024	0.000	0.630	1.050	4.8.2
L35	54 - 53.5 (35)	0.009	0.622	0.000	0.024	0.000	0.631	1.050	4.8.2
L36	53.5 - 53.25 (36)	0.008	0.542	0.000	0.021	0.000	0.551	1.050	4.8.2
L37	53.25 - 43.827 (37)	0.008	0.557	0.000	0.021	0.000	0.566	1.050	4.8.2
L38	43.827 - 42.827 (38)	0.010	0.652	0.000	0.024	0.000	0.663	1.050	4.8.2
L39	42.827 - 41.75 (39)	0.010	0.654	0.000	0.024	0.000	0.664	1.050	4.8.2
L40	41.75 - 41.5 (40)	0.010	0.624	0.000	0.022	0.000	0.634	1.050	4.8.2
L41	41.5 - 36.5 (41)	0.010	0.640	0.000	0.022	0.000	0.651	1.050	4.8.2
L42	36.5 - 32.75 (42)	0.010	0.645	0.000	0.022	0.000	0.656	1.050	4.8.2
L43	32.75 - 32.5 (43)	0.008	0.493	0.000	0.017	0.000	0.501	1.050	4.8.2
L44	32.5 - 29.733 (44)	0.009	0.546	0.000	0.019	0.000	0.556	1.050	4.8.2
L45	29.733 - 29.483 (45)	0.009	0.547	0.000	0.019	0.000	0.556	1.050	4.8.2
L46	29.483 - 28.25 (46)	0.009	0.555	0.000	0.019	0.000	0.564	1.050	4.8.2
L47	28.25 - 28 (47)	0.008	0.521	0.000	0.018	0.000	0.530	1.050	4.8.2
L48	28 - 23 (48)	0.009	0.525	0.000	0.017	0.000	0.534	1.050	4.8.2
L49	23 - 19.25 (49)	0.009	0.534	0.000	0.017	0.000	0.543	1.050	4.8.2
L50	19.25 - 19 (50)	0.010	0.602	0.000	0.020	0.000	0.613	1.050	4.8.2
L51	19 - 14 (51)	0.011	0.623	0.000	0.020	0.000	0.634	1.050	4.8.2
L52	14 - 9 (52)	0.011	0.626	0.000	0.020	0.000	0.637	1.050	4.8.2
L53	9 - 4 (53)	0.011	0.638	0.000	0.020	0.000	0.650	1.050	4.8.2
L54	4 - 0 (54)	0.012	0.649	0.000	0.020	0.000	0.661	1.050	4.8.2

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail	
L1	168.5 - 163.5	Pole	TP19.8343x19x0.1875	1	-4.11	718.20	11.2	Pass	
L2	163.5 - 158.5	Pole	TP20.6685x19.8343x0.1875	2	-4.39	748.70	21.6	Pass	
L3	158.5 - 153.5	Pole	TP21.5028x20.6685x0.1875	3	-6.84	779.19	35.3	Pass	
L4	153.5 - 148.5	Pole	TP22.337x21.5028x0.1875	4	-7.21	809.69	47.7	Pass	
L5	148.5 - 143.5	Pole	TP23.1713x22.337x0.1875	5	-10.11	840.18	62.6	Pass	
L6	143.5 - 138.5	Pole	TP24.0056x23.1713x0.1875	6	-10.58	870.68	75.9	Pass	
L7	138.5 - 130.667	Pole	TP25.3125x24.0056x0.1875	7	-13.71	896.14	89.9	Pass	
L8	130.667 - 129.327	Pole	TP25.1499x24.3268x0.25	8	-14.54	1213.64	73.9	Pass	
L9	129.327 - 125.75	Pole	TP25.7387x25.1499x0.25	9	-17.94	1242.34	82.0	Pass	
L10	125.75 - 125.5	Pole	TP25.7798x25.7387x0.25	10	-18.01	1244.34	82.5	Pass	
L11	125.5 - 120.5	Pole	TP26.6029x25.7798x0.25	11	-18.81	1284.46	92.5	Pass	
L12	120.5 - 120.25	Pole	TP26.6441x26.6029x0.4813	12	-18.89	2454.75	48.2	Pass	
L13	120.25 - 115.25	Pole	TP27.4671x26.6441x0.475	13	-20.22	2499.67	53.2	Pass	
L14	115.25 - 113.833	Pole	TP27.7004x27.4671x0.4688	14	-20.60	2488.67	55.0	Pass	
L15	113.833 - 113.483	Pole	TP27.758x27.7004x0.65	15	-20.73	3435.28	40.7	Pass	
L16	113.483 - 113.25	Pole	TP27.7963x27.758x0.65	16	-20.80	3440.15	40.8	Pass	
L17	113.25 - 108.25	Pole	TP28.6194x27.7963x0.6375	17	-22.33	3477.84	44.5	Pass	
L18	108.25 - 103.25	Pole	TP29.4425x28.6194x0.625	18	-23.91	3511.46	48.1	Pass	
L19	103.25 - 98.25	Pole	TP30.2655x29.4425x0.6125	19	-25.51	3541.01	51.6	Pass	
L20	98.25 - 93.25	Pole	TP31.0886x30.2655x0.6	20	-27.14	3566.48	55.0	Pass	
L21	93.25 - 84.717	Pole	TP32.4932x31.0886x0.6	21	-28.45	3642.99	56.8	Pass	
L22	84.717 - 83.717	Pole	TP32.1551x31.2426x0.6625	22	-31.55	4067.68	55.7	Pass	
L23	83.717 - 82.917	Pole	TP32.2864x32.1551x0.6625	23	-31.85	4084.64	56.0	Pass	
L24	82.917 - 82.667	Pole	TP32.3274x32.2864x0.95	24	-31.97	5811.57	40.2	Pass	
L25	82.667 - 82.5	Pole	TP32.3549x32.3274x0.95	25	-32.05	5816.64	40.2	Pass	
L26	82.5 - 82.25	Pole	TP32.3959x32.3549x0.6875	26	-32.14	4250.10	54.3	Pass	
L27	82.25 - 77.25	Pole	TP33.2165x32.3959x0.675	27	-34.13	4282.47	57.0	Pass	
L28	77.25 - 73.417	Pole	TP33.8456x33.2165x0.6625	28	-35.68	4286.03	59.3	Pass	
L29	73.417 - 73.167	Pole	TP33.8866x33.8456x0.9375	29	-35.81	6022.37	43.0	Pass	
L30	73.167 - 68.167	Pole	TP34.7073x33.8866x0.9125	30	-38.24	6012.22	45.1	Pass	
L31	68.167 - 64.25	Pole	TP35.3502x34.7073x0.8875	31	-40.10	5963.05	47.1	Pass	
L32	64.25 - 64	Pole	TP35.3912x35.3502x0.7375	32	-40.22	4982.69	56.0	Pass	
L33	64 - 59	Pole	TP36.2118x35.3912x0.7375	33	-42.28	5100.68	57.1	Pass	
L34	59 - 54	Pole	TP37.0324x36.2118x0.7125	34	-44.38	5045.24	60.0	Pass	
L35	54 - 53.5	Pole	TP37.1145x37.0324x0.7125	35	-44.60	5056.64	60.1	Pass	
L36	53.5 - 53.25	Pole	TP37.1555x37.1145x0.825	36	-44.72	5843.56	52.5	Pass	
L37	53.25 - 43.827	Pole	TP38.7021x37.1555x0.8125	37	-46.63	5863.16	53.9	Pass	
L38	43.827 - 42.827	Pole	TP38.2386x37.2007x0.725	38	-51.58	5302.48	63.1	Pass	
L39	42.827 - 41.75	Pole	TP38.4149x38.2386x0.725	39	-52.10	5327.41	63.3	Pass	
L40	41.75 - 41.5	Pole	TP38.4559x38.4149x0.7625	40	-52.24	5603.47	60.4	Pass	
L41	41.5 - 36.5	Pole	TP39.2744x38.4559x0.75	41	-54.77	5633.12	62.0	Pass	
L42	36.5 - 32.75	Pole	TP39.8884x39.2744x0.75	42	-56.68	5722.90	62.4	Pass	
L43	32.75 - 32.5	Pole	TP39.9293x39.8884x1	43	-56.84	7589.77	47.7	Pass	
L44	32.5 - 29.733	Pole	TP40.3823x39.9293x0.9	44	-58.28	6927.83	52.9	Pass	
L45	29.733 - 29.483	Pole	TP40.4232x40.3823x0.9	45	-58.43	6935.01	52.9	Pass	
L46	29.483 - 28.25	Pole	TP40.6251x40.4232x0.8875	46	-59.06	6875.78	53.7	Pass	
L47	28.25 - 28	Pole	TP40.666x40.6251x0.95	47	-59.22	7356.00	50.5	Pass	
L48	28 - 23	Pole	TP41.4846x40.666x0.95	48	-62.14	7507.60	50.8	Pass	
L49	23 - 19.25	Pole	TP42.0985x41.4846x0.9375	49	-64.34	7523.31	51.7	Pass	
L50	19.25 - 19	Pole	TP42.1394x42.0985x0.825	50	-64.49	6645.20	58.3	Pass	
L51	19 - 14	Pole	TP42.958x42.1394x0.8	51	-67.10	6575.39	60.4	Pass	
L52	14 - 9	Pole	TP43.7766x42.958x0.8	52	-69.74	6703.07	60.7	Pass	
L53	9 - 4	Pole	TP44.5951x43.7766x0.7875	53	-72.24	6725.93	61.9	Pass	
L54	4 - 0	Pole	TP45.25x44.5951x0.775	54	-74.21	6720.01	63.0	Pass	
							Summary		
							Pole (L11)	92.5	Pass
							RATING =	92.5	Pass

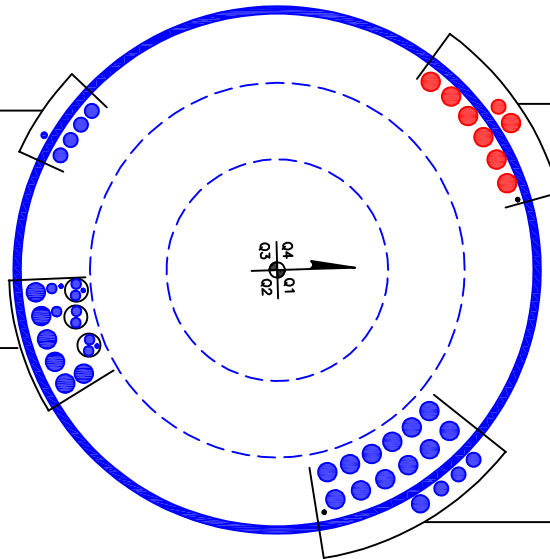
***NOTE: Above stress ratios for reinforced sections are approximate. More exact calculations are presented in Appendix C.**

APPENDIX B
BASE LEVEL DRAWING



(OTHER CONSIDERED EQUIPMENT)
(1) 1/2" TO 70 FT LEVEL
(4) 1-1/4" TO 158 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)
(2) 3/8" TO 168 FT LEVEL
(6) 7/8" TO 168 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) 3/8" TO 168 FT LEVEL
(2) 1" TO 168 FT LEVEL
(6) 1-5/8" TO 168 FT LEVEL



(OTHER CONSIDERED EQUIPMENT)
(1) 3/8" GROUND TO TOWER LIGHTING
(PROPOSED EQUIPMENT CONFIGURATION)
(1) 1-1/4" TO 138 FT LEVEL
(7) 1-5/8" TO 138 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)
(1) 3/8" GROUND TO TOWER LIGHTING
(OTHER CONSIDERED EQUIPMENT)
(3) 1-1/4" TO 128 FT LEVEL
(12) 1-5/8" TO 128 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) 1-1/2" TO 148 FT LEVEL

APPENDIX C
ADDITIONAL CALCULATIONS

Pole Geometry

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	Pole Height Above Base (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Bend Radius (in)	Pole Material
1	168.5	37.833	3.66	18	19	25.3125	0.1875	Auto	A572-65
2	134.327	49.61	4.56	18	24.33	32.4932	0.25	Auto	A572-65
3	89.277	45.45	5.34	18	31.24	38.7021	0.3125	Auto	A572-65
4	49.167	49.167	0	18	37.20	45.25	0.375	Auto	A572-65

Reinforcement Configuration

	Bottom Effective Elevation (ft)	Top Effective Elevation (ft)	Type	Model	Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	87.833	113.833	plate	PL5"x1.25"	3				E2						E2						E2		
2	73.417	85.917	plate	PL5"x1.25"	4			E2					E2						E2				E2
3	47.354	73.417	plate	PL5"x1.25"	4		E2			E2					E2					E2			
4	29.833	45.417	plate	PL6"x1.25"	4			E2					E2						E2				E2
5	0	28.25	plate	PL6"x1.25" (Welded)	4		E2			E2					E2					E2			
6	0	41.75	plate	CCI-CFP-060100	4	E4						E4			E4					E4			
7	41.75	82.917	plate	CCI-CFP-045100	4	E4						E4			E4					E4			
8	19.25	29.83	plate	CCI-SFP-045100	4			E4				E4			E4					E4			E4
9	64.25	73.417	plate	CCI-SFP-045100	4			E4				E4			E4					E4			E4
10	87.9	125.75	plate	CCI-SFP-045100 (MOD)	3			E4															
11	28.25	32.75	plate	CCI-SFP-065125	2					E5										E5			
12	47.5	53.5	plate	CCI-SFP-050125	2					E5										E5			
13	82.5	88.5	plate	CCI-SFP-050125	2					E5										E5			
14	113.5	120.5	plate	CCI-SFP-040125	1									E5									
15	113.5	120.5	plate	PL3.125"x1.25"	1																		E5
16																							

Reinforcement Details

	B (in)	H (in)	Gross Area (in ²)	Pole Face to Centroid (in)	Bottom Termination Type	Bottom Termination Length (in)	Top Termination Type	Top Termination Length (in)	Lu (in)	Net Area (in ²)	Bolt Hole Size (in)	Reinforcement Material
1	5	1.25	6.25	0.625	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	18.000	4.688	1.1875	A572-65
2	5	1.25	6.25	0.625	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	18.000	4.688	1.1875	A572-65
3	5	1.25	6.25	0.625	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	18.000	4.688	1.1875	A572-65
4	6	1.25	7.5	0.625	PC 8.8 - M20 (100)	30	PC 8.8 - M20 (100)	30.000	18.000	5.938	1.1875	A572-65
5	6	1.25	7.5	0.625	Welded	n/a	PC 8.8 - M20 (100)	30.000	18.000	5.938	1.1875	A572-65
6	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	12.000	4.750	1.1875	A572-65
7	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	12.000	3.250	1.1875	A572-65
8	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	20.000	3.250	1.1875	A572-65
9	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	20.000	3.250	1.1875	A572-65
10	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	19.000	20.000	3.250	1.1875	A572-65
11	6.5	1.25	8.125	0.625	PC 8.8 - M20 (100)	33	PC 8.8 - M20 (100)	33.000	19.000	6.563	1.1875	A572-65
12	5	1.25	6.25	0.625	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	23.000	4.688	1.1875	A572-65
13	5	1.25	6.25	0.625	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	23.000	4.688	1.1875	A572-65
14	4	1.25	5	0.625	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	27.000	3.438	1.1875	A572-65
15	3.125	1.25	3.90625	0.625	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	15.000	2.344	1.1875	A572-65

Connection Details for Custom Reinforcements

Reinforcement	End	# Bolts	N or X	Bolt Spacing (in)	Edge Dist (in)	Weld Grade (ksi)	Transverse (Horiz.) Weld Type	Horiz. Weld Length (in)	Horiz. Groove Depth (in)	Horiz. Groove Angle (deg)	Horiz. Fillet Size (in)	Vertical Weld Length (in)	Vertical Fillet Size (in)	Rev H Connection Capacity (kip)
PL5"x1.25"	Top	8	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	8	N	3	3	-	-	-	-	-	-	-	-	-
PL6"x1.25"	Top	10	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	10	N	3	3	-	-	-	-	-	-	-	-	-
PL6"x1.25" (Welded)	Top	10	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	-	-	-	-	70	None	-	-	-	-	36	0.375	-
CCI-CFP-045100	Top	6	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	6	N	3	3	-	-	-	-	-	-	-	-	-
CCI-CFP-060100	Top	8	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	8	N	3	3	-	-	-	-	-	-	-	-	-
CCI-SFP-045100 (MOD)	Top	7	N	3	1	-	-	-	-	-	-	-	-	-
	Bottom	6	N	3	3	-	-	-	-	-	-	-	-	-
PL3.125"x1.25"	Top	6	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	6	N	3	3	-	-	-	-	-	-	-	-	-

TNX Geometry Input

Increment (ft): [Export to TNX](#)

	Section Height (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Tapered Pole Grade	Weight Multiplier
1	168.5 - 163.5	5		18	19.000	19.834	0.1875	A572-65	1.000
2	163.5 - 158.5	5		18	19.834	20.669	0.1875	A572-65	1.000
3	158.5 - 153.5	5		18	20.669	21.503	0.1875	A572-65	1.000
4	153.5 - 148.5	5		18	21.503	22.337	0.1875	A572-65	1.000
5	148.5 - 143.5	5		18	22.337	23.171	0.1875	A572-65	1.000
6	143.5 - 138.5	5		18	23.171	24.006	0.1875	A572-65	1.000
7	138.5 - 134.327	7.833	3.66	18	24.006	25.313	0.1875	A572-65	1.000
8	134.327 - 129.327	5		18	24.327	25.150	0.25	A572-65	1.000
9	129.327 - 125.75	3.577		18	25.150	25.739	0.25	A572-65	1.000
10	125.75 - 125.5	0.25		18	25.739	25.780	0.25	A572-65	1.000
11	125.5 - 120.5	5		18	25.780	26.603	0.25	A572-65	1.000
12	120.5 - 120.25	0.25		18	26.603	26.644	0.48125	A572-65	1.085
13	120.25 - 115.25	5		18	26.644	27.467	0.475	A572-65	1.081
14	115.25 - 113.833	1.417		18	27.467	27.700	0.46875	A572-65	1.091
15	113.833 - 113.483	0.35		18	27.700	27.758	0.65	A572-65	0.967
16	113.483 - 113.25	0.233		18	27.758	27.796	0.65	A572-65	0.966
17	113.25 - 108.25	5		18	27.796	28.619	0.6375	A572-65	0.967
18	108.25 - 103.25	5		18	28.619	29.442	0.625	A572-65	0.969
19	103.25 - 98.25	5		18	29.442	30.266	0.6125	A572-65	0.973
20	98.25 - 93.25	5		18	30.266	31.089	0.6	A572-65	0.977
21	93.25 - 89.277	8.533	4.56	18	31.089	32.493	0.6	A572-65	0.965
22	89.277 - 83.717	5.56		18	31.243	32.155	0.6625	A572-65	1.043
23	83.717 - 82.917	0.8		18	32.155	32.286	0.6625	A572-65	1.041
24	82.917 - 82.667	0.25		18	32.286	32.327	0.95	A572-65	0.922
25	82.667 - 82.5	0.167		18	32.327	32.355	0.95	A572-65	0.922
26	82.5 - 82.25	0.25		18	32.355	32.396	0.6875	A572-65	1.081
27	82.25 - 77.25	5		18	32.396	33.217	0.675	A572-65	1.085
28	77.25 - 73.417	3.833		18	33.217	33.846	0.6625	A572-65	1.093
29	73.417 - 73.167	0.25		18	33.846	33.887	0.9375	A572-65	0.962
30	73.167 - 68.167	5		18	33.887	34.707	0.9125	A572-65	0.972
31	68.167 - 64.25	3.917		18	34.707	35.350	0.8875	A572-65	0.986
32	64.25 - 64	0.25		18	35.350	35.391	0.7375	A572-65	0.959
33	64 - 59	5		18	35.391	36.212	0.7375	A572-65	0.947
34	59 - 54	5		18	36.212	37.032	0.7125	A572-65	0.967
35	54 - 53.5	0.5		18	37.032	37.115	0.7125	A572-65	0.966
36	53.5 - 53.25	0.25		18	37.115	37.156	0.825	A572-65	0.968
37	53.25 - 49.167	9.423	5.34	18	37.156	38.702	0.8125	A572-65	0.971
38	49.167 - 42.827	6.34		18	37.201	38.239	0.725	A572-65	1.078
39	42.827 - 41.75	1.077		18	38.239	38.415	0.725	A572-65	1.076
40	41.75 - 41.5	0.25		18	38.415	38.456	0.7625	A572-65	1.089
41	41.5 - 36.5	5		18	38.456	39.274	0.75	A572-65	1.094
42	36.5 - 32.75	3.75		18	39.274	39.888	0.75	A572-65	1.084
43	32.75 - 32.5	0.25		18	39.888	39.929	1	A572-65	0.950
44	32.5 - 29.733	2.767		18	39.929	40.382	0.9	A572-65	0.939
45	29.733 - 29.483	0.25		18	40.382	40.423	0.9	A572-65	0.938
46	29.483 - 28.25	1.233		18	40.423	40.625	0.8875	A572-65	0.948
47	28.25 - 28	0.25		18	40.625	40.666	0.95	A572-65	1.002
48	28 - 23	5		18	40.666	41.485	0.95	A572-65	0.989
49	23 - 19.25	3.75		18	41.485	42.099	0.9375	A572-65	0.993
50	19.25 - 19	0.25		18	42.099	42.139	0.825	A572-65	0.959
51	19 - 14	5		18	42.139	42.958	0.8	A572-65	0.978
52	14 - 9	5		18	42.958	43.777	0.8	A572-65	0.968
53	9 - 4	5		18	43.777	44.595	0.7875	A572-65	0.974
54	4 - 0	4		18	44.595	45.250	0.775	A572-65	0.982

TNX Section Forces

Increment (ft):		TNX Output			
5		P_u (K)	M_{ux} (kip-ft)	V_u (K)	
	Section Height (ft)				
1	168.5 - 163.5	4.11	37.40	8.40	
2	163.5 - 158.5	4.39	80.25	8.75	
3	158.5 - 153.5	6.84	140.89	12.66	
4	153.5 - 148.5	7.21	205.03	13.01	
5	148.5 - 143.5	10.11	285.77	16.65	
6	143.5 - 138.5	10.58	369.77	16.97	
7	138.5 - 134.327	13.71	458.31	20.75	
8	134.327 - 129.327	14.54	562.99	21.14	
9	129.327 - 125.75	17.94	649.53	24.46	
10	125.75 - 125.5	18.01	655.64	24.47	
11	125.5 - 120.5	18.81	778.84	24.85	
12	120.5 - 120.25	18.89	785.06	24.88	
13	120.25 - 115.25	20.22	911.51	25.74	
14	115.25 - 113.833	20.60	948.14	25.99	
15	113.833 - 113.483	20.73	957.24	26.05	
16	113.483 - 113.25	20.80	963.31	26.10	
17	113.25 - 108.25	22.33	1095.97	27.00	
18	108.25 - 103.25	23.91	1233.10	27.89	
19	103.25 - 98.25	25.51	1374.64	28.76	
20	98.25 - 93.25	27.14	1520.53	29.63	
21	93.25 - 89.277	28.45	1639.55	30.33	
22	89.277 - 83.717	31.55	1811.31	31.47	
23	83.717 - 82.917	31.85	1836.52	31.60	
24	82.917 - 82.667	31.97	1844.43	31.65	
25	82.667 - 82.5	32.05	1849.71	31.69	
26	82.5 - 82.25	32.14	1857.63	31.72	
27	82.25 - 77.25	34.13	2017.46	32.24	
28	77.25 - 73.417	35.68	2141.69	32.62	
29	73.417 - 73.167	35.81	2149.85	32.65	
30	73.167 - 68.167	38.24	2314.80	33.28	
31	68.167 - 64.25	40.10	2445.95	33.71	
32	64.25 - 64	40.22	2454.38	33.72	
33	64 - 59	42.28	2624.07	34.18	
34	59 - 54	44.38	2795.93	34.60	
35	54 - 53.5	44.60	2813.23	34.63	
36	53.5 - 53.25	44.72	2821.89	34.65	
37	53.25 - 49.167	46.63	2964.12	35.04	
38	49.167 - 42.827	51.58	3188.68	35.79	
39	42.827 - 41.75	52.10	3227.24	35.86	
40	41.75 - 41.5	52.24	3236.20	35.86	
41	41.5 - 36.5	54.77	3416.27	36.20	
42	36.5 - 32.75	56.68	3552.40	36.46	
43	32.75 - 32.5	56.84	3561.51	36.45	
44	32.5 - 29.733	58.28	3662.65	36.69	
45	29.733 - 29.483	58.43	3671.81	36.69	
46	29.483 - 28.25	59.06	3717.17	36.90	
47	28.25 - 28	59.22	3726.39	36.91	
48	28 - 23	62.14	3911.82	37.29	
49	23 - 19.25	64.34	4052.01	37.52	
50	19.25 - 19	64.49	4061.39	37.51	
51	19 - 14	67.10	4249.45	37.74	
52	14 - 9	69.74	4438.46	37.91	
53	9 - 4	72.24	4628.19	38.03	
54	4 - 0	74.21	4780.37	38.12	

Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
168.5 - 163.5	Pole	TP19.834x19x0.1875	Pole	11.2%	Pass
163.5 - 158.5	Pole	TP20.669x19.834x0.1875	Pole	21.6%	Pass
158.5 - 153.5	Pole	TP21.503x20.669x0.1875	Pole	35.3%	Pass
153.5 - 148.5	Pole	TP22.337x21.503x0.1875	Pole	47.7%	Pass
148.5 - 143.5	Pole	TP23.171x22.337x0.1875	Pole	62.6%	Pass
143.5 - 138.5	Pole	TP24.006x23.171x0.1875	Pole	75.9%	Pass
138.5 - 134.33	Pole	TP25.313x24.006x0.1875	Pole	89.9%	Pass
134.33 - 129.33	Pole	TP25.15x24.327x0.25	Pole	73.9%	Pass
129.33 - 125.75	Pole	TP25.739x25.15x0.25	Pole	82.0%	Pass
125.75 - 125.5	Pole	TP25.78x25.739x0.25	Pole	82.5%	Pass
125.5 - 120.5	Pole	TP26.603x25.78x0.25	Pole	92.5%	Pass
120.5 - 120.25	Pole + Reinf.	TP26.644x26.603x0.4813	Reinf. 10 Tension Rupture	85.7%	Pass
120.25 - 115.25	Pole + Reinf.	TP27.467x26.644x0.475	Reinf. 10 Tension Rupture	94.9%	Pass
115.25 - 113.83	Pole + Reinf.	TP27.7x27.467x0.4688	Reinf. 10 Tension Rupture	97.4%	Pass
113.83 - 113.48	Pole + Reinf.	TP27.758x27.7x0.65	Reinf. 10 Tension Rupture	68.0%	Pass
113.48 - 113.25	Pole + Reinf.	TP27.796x27.758x0.65	Reinf. 10 Tension Rupture	68.3%	Pass
113.25 - 108.25	Pole + Reinf.	TP28.619x27.796x0.6375	Reinf. 10 Tension Rupture	74.6%	Pass
108.25 - 103.25	Pole + Reinf.	TP29.442x28.619x0.625	Reinf. 10 Tension Rupture	80.7%	Pass
103.25 - 98.25	Pole + Reinf.	TP30.266x29.442x0.6125	Reinf. 10 Tension Rupture	86.5%	Pass
98.25 - 93.25	Pole + Reinf.	TP31.089x30.266x0.6	Reinf. 10 Tension Rupture	92.1%	Pass
93.25 - 89.28	Pole + Reinf.	TP32.493x31.089x0.6	Reinf. 10 Tension Rupture	96.5%	Pass
89.28 - 83.72	Pole + Reinf.	TP32.155x31.243x0.6625	Reinf. 2 Tension Rupture	92.7%	Pass
83.72 - 82.92	Pole + Reinf.	TP32.286x32.155x0.6625	Reinf. 2 Tension Rupture	93.5%	Pass
82.92 - 82.67	Pole + Reinf.	TP32.327x32.286x0.95	Reinf. 2 Tension Rupture	69.0%	Pass
82.67 - 82.5	Pole + Reinf.	TP32.355x32.327x0.95	Reinf. 2 Tension Rupture	69.1%	Pass
82.5 - 82.25	Pole + Reinf.	TP32.396x32.355x0.6875	Reinf. 2 Tension Rupture	91.7%	Pass
82.25 - 77.25	Pole + Reinf.	TP33.217x32.396x0.675	Reinf. 2 Tension Rupture	95.9%	Pass
77.25 - 73.42	Pole + Reinf.	TP33.846x33.217x0.6625	Reinf. 2 Tension Rupture	99.0%	Pass
73.42 - 73.17	Pole + Reinf.	TP33.887x33.846x0.9375	Reinf. 9 Tension Rupture	75.2%	Pass
73.17 - 68.17	Pole + Reinf.	TP34.707x33.887x0.9125	Reinf. 9 Tension Rupture	78.4%	Pass
68.17 - 64.25	Pole + Reinf.	TP35.35x34.707x0.8875	Reinf. 9 Tension Rupture	80.8%	Pass
64.25 - 64	Pole + Reinf.	TP35.391x35.35x0.7375	Reinf. 3 Tension Rupture	92.9%	Pass
64 - 59	Pole + Reinf.	TP36.212x35.391x0.7375	Reinf. 3 Tension Rupture	96.1%	Pass
59 - 54	Pole + Reinf.	TP37.032x36.212x0.7125	Reinf. 3 Tension Rupture	99.1%	Pass
54 - 53.5	Pole + Reinf.	TP37.115x37.032x0.7125	Reinf. 3 Tension Rupture	99.4%	Pass
53.5 - 53.25	Pole + Reinf.	TP37.156x37.115x0.825	Reinf. 7 Tension Rupture	93.9%	Pass
53.25 - 49.17	Pole + Reinf.	TP38.702x37.156x0.8125	Reinf. 7 Tension Rupture	96.2%	Pass
49.17 - 42.83	Pole + Reinf.	TP38.239x37.201x0.725	Reinf. 4 Tension Rupture	99.4%	Pass
42.83 - 41.75	Pole + Reinf.	TP38.415x38.239x0.725	Reinf. 4 Tension Rupture	99.9%	Pass
41.75 - 41.5	Pole + Reinf.	TP38.456x38.415x0.7625	Reinf. 4 Tension Rupture	95.9%	Pass
41.5 - 36.5	Pole + Reinf.	TP39.274x38.456x0.75	Reinf. 4 Tension Rupture	98.1%	Pass
36.5 - 32.75	Pole + Reinf.	TP39.888x39.274x0.75	Reinf. 4 Tension Rupture	99.6%	Pass
32.75 - 32.5	Pole + Reinf.	TP39.929x39.888x1	Reinf. 4 Tension Rupture	76.3%	Pass
32.5 - 29.73	Pole + Reinf.	TP40.382x39.929x0.9	Reinf. 8 Tension Rupture	93.7%	Pass
29.73 - 29.48	Pole + Reinf.	TP40.423x40.382x0.9	Reinf. 8 Tension Rupture	93.8%	Pass
29.48 - 28.25	Pole + Reinf.	TP40.625x40.423x0.8875	Reinf. 8 Tension Rupture	94.3%	Pass
28.25 - 28	Pole + Reinf.	TP40.666x40.625x0.95	Reinf. 8 Tension Rupture	86.1%	Pass
28 - 23	Pole + Reinf.	TP41.485x40.666x0.95	Reinf. 8 Tension Rupture	87.9%	Pass
23 - 19.25	Pole + Reinf.	TP42.099x41.485x0.9375	Reinf. 8 Tension Rupture	89.2%	Pass
19.25 - 19	Pole + Reinf.	TP42.139x42.099x0.825	Reinf. 5 Tension Rupture	92.3%	Pass
19 - 14	Pole + Reinf.	TP42.958x42.139x0.8	Reinf. 5 Tension Rupture	93.9%	Pass
14 - 9	Pole + Reinf.	TP43.777x42.958x0.8	Reinf. 5 Tension Rupture	95.4%	Pass
9 - 4	Pole + Reinf.	TP44.595x43.777x0.7875	Reinf. 5 Tension Rupture	96.8%	Pass
4 - 0	Pole + Reinf.	TP45.25x44.595x0.775	Reinf. 5 Tension Rupture	97.8%	Pass
				Summary	
			Pole	92.5%	Pass
			Reinforcement	99.9%	Pass
			Overall	99.9%	Pass

Monopole Base Plate Connection

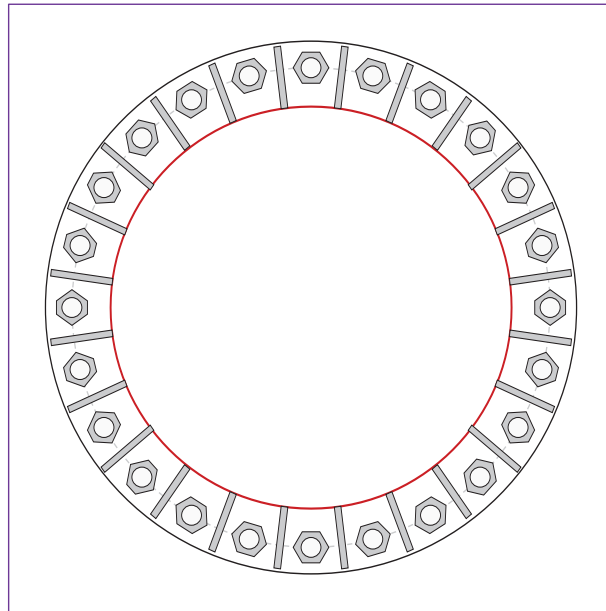


Site Info	
BU #	842859
Site Name	Bristol Center
Order #	574945 Rev. 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	See Custom Sheet
I_{gr} (in)	See Custom Sheet

Applied Loads	
Moment (kip-ft)	4780.37
Axial Force (kips)	74.21
Shear Force (kips)	38.12

*TIA-222-H Section 15.5 Applied



Connection Properties	Analysis Results
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Anchor Rod Data
 GROUP 1: (12) 2-1/4" ϕ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 54" BC
 GROUP 2: (12) 2-1/4" ϕ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 54" BC

Base Plate Data
 60" OD x 2" Plate (A572-60; $F_y=60$ ksi, $F_u=75$ ksi)

Stiffener Data
 (24) 15"H x 7"W x 0.75"T, Notch: 0.75"
 plate: $F_y=65$ ksi ; weld: $F_y=80$ ksi
 horiz. weld: 0.375" groove, 45° dbl bevel, 0.375" fillet
 vert. weld: 0.3125" fillet

Pole Data
 45.25" x 0.375" 18-sided pole (A572-65; $F_y=65$ ksi, $F_u=80$ ksi)

Anchor Rod Summary (units of kips, kip-in)
 GROUP 1:

$Pu_t = 173.83$	$\phi Pn_t = 243.75$	Stress Rating
$Vu = 1.59$	$\phi Vn = 149.1$	67.9%
$Mu = n/a$	$\phi Mn = n/a$	Pass

GROUP 2:

$Pu_t = 173.83$	$\phi Pn_t = 243.75$	Stress Rating
$Vu = 1.59$	$\phi Vn = 149.1$	67.9%
$Mu = n/a$	$\phi Mn = n/a$	Pass

Base Plate Summary

Max Stress (ksi):	29.29	(Roark's Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	51.7%	Pass

Stiffener Summary

Horizontal Weld:	56.4%	Pass
Vertical Weld:	70.9%	Pass
Plate Flexure+Shear:	25.4%	Pass
Plate Tension+Shear:	55.0%	Pass
Plate Compression:	68.6%	Pass

Pole Summary

Punching Shear:	22.9%	Pass
-----------------	--------------	-------------

Elevation (ft) 0 (Base)

note: Bending interaction not considered when Grout Considered = "Yes"

Bolt Group	Resist Axial	Resist Shear	Induce Plate Bending	Grout Considered	Apply at BARB Elevation	BARB CL Elevation (ft)
1	Yes	Yes	Yes	Yes	No	
2	Yes	Yes	Yes	Yes	No	

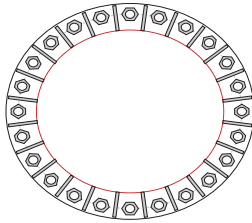
Custom Bolt Connection

Bolt	Bolt Group ID	Location (deg.)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, n _i	l _p (in):	Thread Type	Area Override, in ²	Tension Only
1	1	0	2.25	A615-75	54	0.5	0	N-Included		No
2	1	30	2.25	A615-75	54	0.5	0	N-Included		No
3	1	60	2.25	A615-75	54	0.5	0	N-Included		No
4	1	90	2.25	A615-75	54	0.5	0	N-Included		No
5	1	120	2.25	A615-75	54	0.5	0	N-Included		No
6	1	150	2.25	A615-75	54	0.5	0	N-Included		No
7	1	180	2.25	A615-75	54	0.5	0	N-Included		No
8	1	210	2.25	A615-75	54	0.5	0	N-Included		No
9	1	240	2.25	A615-75	54	0.5	0	N-Included		No
10	1	270	2.25	A615-75	54	0.5	0	N-Included		No
11	1	300	2.25	A615-75	54	0.5	0	N-Included		No
12	1	330	2.25	A615-75	54	0.5	0	N-Included		No
13	2	15	2.25	A615-75	54	0.5	0	N-Included		No
14	2	45	2.25	A615-75	54	0.5	0	N-Included		No
15	2	75	2.25	A615-75	54	0.5	0	N-Included		No
16	2	105	2.25	A615-75	54	0.5	0	N-Included		No
17	2	135	2.25	A615-75	54	0.5	0	N-Included		No
18	2	165	2.25	A615-75	54	0.5	0	N-Included		No
19	2	195	2.25	A615-75	54	0.5	0	N-Included		No
20	2	225	2.25	A615-75	54	0.5	0	N-Included		No
21	2	255	2.25	A615-75	54	0.5	0	N-Included		No
22	2	285	2.25	A615-75	54	0.5	0	N-Included		No
23	2	315	2.25	A615-75	54	0.5	0	N-Included		No
24	2	345	2.25	A615-75	54	0.5	0	N-Included		No

Custom Stiffener Connection

Stiffener	Stiffener Group ID	Location (deg.)	Width (in)	Height (in)	Thickness (in)	H. Notch (in)	V. Notch (in)	Grade (ksi)	Weld Type	Groove Depth (in)	Groove Angle (deg.)	H. Fillet Weld Size (in)	V. Fillet Weld Size (in)	Weld Strength (ksi)
1	1	7.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
2	1	22.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
3	1	37.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
4	1	52.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
5	1	67.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
6	1	82.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
7	1	97.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
8	1	112.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
9	1	127.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
10	1	142.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
11	1	157.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
12	1	172.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
13	1	187.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
14	1	202.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
15	1	217.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
16	1	232.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
17	1	247.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
18	1	262.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
19	1	277.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
20	1	292.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
21	1	307.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
22	1	322.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
23	1	337.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80
24	1	352.5	7	15	0.75	0.75	0.75	65	Both	0.375	45	0.375	0.3125	80

Plot Graphic



Drilled Pier Foundation

BU # :	842859
Site Name:	Bristol Center
Order Number:	574945 Rev. 0
TIA-222 Revison:	H
Tower Type:	Monopole



Applied Loads		
	Comp.	Uplift
Moment (kip-ft)	4780.37	
Axial Force (kips)	74.23	
Shear Force (kips)	38.09	

Material Properties		
Concrete Strength, fc:	4	ksi
Rebar Strength, Fy:	60	ksi
Tie Yield Strength, Fyt:	60	ksi

Pier Design Data	
Depth	26 ft
Ext. Above Grade	1 ft
Pier Section 1	
<i>From 1' above grade to 26' below grade</i>	
Pier Diameter	6.5 ft
Rebar Quantity	16
Rebar Size	11
Rebar Cage Diameter	67 in
Tie Size	5
Tie Spacing	12 in
Rebar Quantity	8
Rebar Size	11
Rebar Cage Diameter	64 in
Pier Section 2	
<i>From below grade to below grade</i>	
Pier Diameter	6.5 ft
Rebar Quantity	16
Rebar Size	11
Rebar Cage Diameter	67 in
Tie Size	5
Tie Spacing	12 in

Rebar 2. Fy Override (ksi)

Rebar & Pier Options

Embedded Pole Inputs

Belled Pier Inputs

Analysis Results		
Soil Lateral Check		
	Compression	Uplift
D _{v=0} (ft from TOC)	8.03	-
Soil Safety Factor	2.06	-
Max Moment (kip-ft)	5050.88	-
Rating*	61.5%	-
Soil Vertical Check		
	Compression	Uplift
Skin Friction (kips)	529.45	-
End Bearing (kips)	412.76	-
Weight of Concrete (kips)	161.27	-
Total Capacity (kips)	942.20	-
Axial (kips)	235.50	-
Rating*	23.8%	-
Reinforced Concrete Flexure		
	Compression	Uplift
Critical Depth (ft from TOC)	7.84	-
Critical Moment (kip-ft)	5050.46	-
Critical Moment Capacity	5475.63	-
Rating*	87.8%	-
Reinforced Concrete Shear		
	Compression	Uplift
Critical Depth (ft from TOC)	20.78	-
Critical Shear (kip)	577.65	-
Critical Shear Capacity	597.47	-
Rating*	92.1%	-
Structural Foundation Rating*		
	92.1%	
Soil Interaction Rating*		
	61.5%	

*Rating per TIA-222-H Section 15.5

Check Limitation	
Apply TIA-222-H Section 15.5:	<input checked="" type="checkbox"/>
N/A	<input type="checkbox"/>
Additional Longitudinal Rebar	
Input Effective Depths (else Actual):	<input type="checkbox"/>
Shear Design Options	
Check Shear along Depth of Pier:	<input checked="" type="checkbox"/>
Utilize Shear-Friction Methodology:	<input type="checkbox"/>
Override Critical Depth:	<input type="checkbox"/>

[Go to Soil Calculations](#)

Soil Profile	
Groundwater Depth	N/A
# of Layers	8

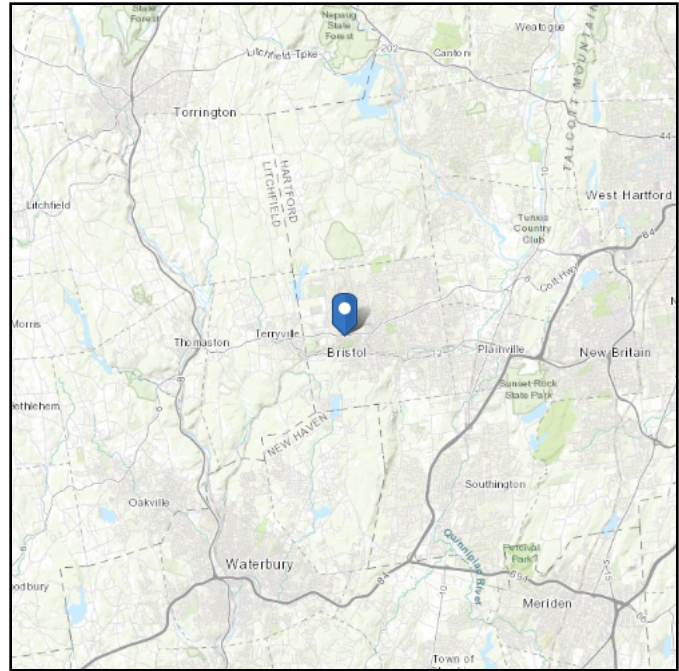
Layer	Top (ft)	Bottom (ft)	Thickness (ft)	V _{soil} (pcf)	V _{concrete} (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Net Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	4	4	105	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
2	4	5	1	110	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
3	5	6	1	110	150	0	30	0.000	0.000	1.35	1.35			Cohesionless
4	6	8	2	115	150	0	31	0.000	0.000	0.57	0.57			Cohesionless
5	8	12	4	120	150	0	33	0.000	0.000	1.19	1.19			Cohesionless
6	12	20	8	115	150	0	31	0.000	0.000	1.73	1.73			Cohesionless
7	20	25	5	125	150	0	35	0.00	0.00	2.22	2.22			Cohesionless
8	25	26	1	130	150	0	37	0.00	0.00	2.38	2.38	13.56		Cohesionless

ASCE 7 Hazards Report

Address:
No Address at This
Location

Standard: ASCE/SEI 7-10
Risk Category: II
Soil Class: D - Stiff Soil

Elevation: 564.8 ft (NAVD 88)
Latitude: 41.679919
Longitude: -72.96255



Wind

Results:

Wind Speed:	120 Vmph
10-year MRI	76 Vmph
25-year MRI	86 Vmph
50-year MRI	91 Vmph
100-year MRI	98 Vmph

Data Source: ASCE/SEI 7-10, Fig. 26.5-1A and Figs. CC-1–CC-4, and Section 26.5.2, incorporating errata of March 12, 2014

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-10 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

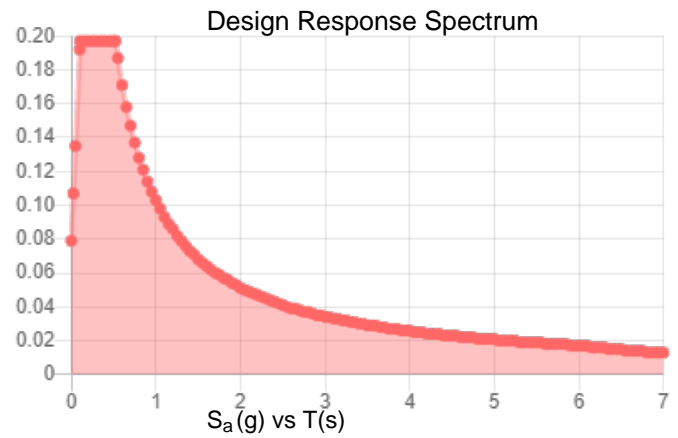
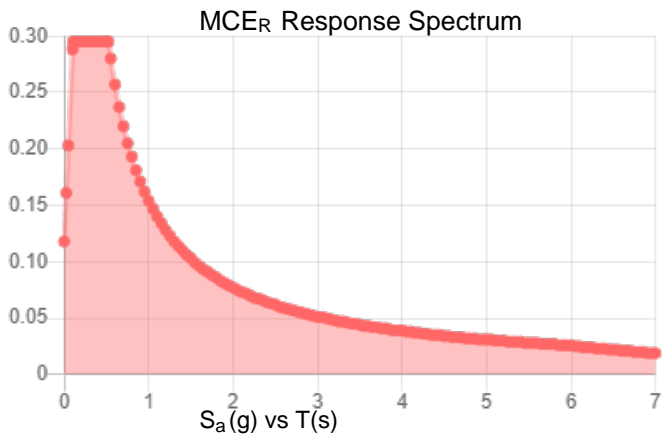
Site is in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class: D - Stiff Soil

Results:

S_S :	0.185	S_{DS} :	0.197
S_1 :	0.064	S_{D1} :	0.103
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.094
S_{MS} :	0.295	PGA _M :	0.151
S_{M1} :	0.154	F _{PGA} :	1.6
		I_e :	1

Seismic Design Category B



Data Accessed:

Tue Jun 15 2021

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness: 1.00 in. Design Ice: 2*1.00 in. = 2.00 in.
Concurrent Temperature: 5 F
Gust Speed: 50 mph

Data Source: Standard ASCE/SEI 7-10, Figs. 10-2 through 10-8

Date Accessed: Tue Jun 15 2021

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 50-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

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Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10089855
Maser Consulting Connecticut Project #: 21781029A

August 4, 2021

Site Information

Site ID: 468192-VZW / BRISTOL W 2 CT
Site Name: BRISTOL W 2 CT
Carrier Name: Verizon Wireless
Address: 371 Terryville Ave
Bristol, Connecticut 06010
Hartford County
Latitude: 41.679972°
Longitude: -72.962444°

Structure Information

Tower Type: 180-Ft Monopole
Mount Type: 11.67-Ft Platform

FUZE ID # 16244104

Analysis Results

Platform: 63.1% Pass

***Contractor PMI Requirements:

Included at the end of this MA report

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

Contractor - Please Review Specific Site PMI Requirements Upon Award

Requirements also Noted on Mount Modification Drawings

Requirements may also be Noted on A & E drawings

Report Prepared By: Devin Castillo



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: 323494, dated May 27, 2021
Mount Mapping Report	Hudson Design Group, LLC., Site ID: 468192, dated June 16, 2021
Previous Mount Analysis Report	Maser Consulting Project #: 21781029A, dated July 21, 2021
Mount Modification Drawings	Maser Consulting Project #: 21781029A dated August 4, 2021

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 116 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 : 0.980
Seismic Parameters:	S_s : 0.186 S_1 : 0.054
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Live Load, L_v : 250 lbs. Maintenance Live Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V17)

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
139.00	140.00	3	Commscope	NHH-65B-R2B	Added
		3	Commscope	NHHSS-65B-R2BT0	
		3	Samsung	MT6407-77A	
		3	Amphenol Antel	BXA-70063-4CF	Retained
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		1	Raycap	RCMDC-6627-PF-48*	

* Equipment is flushed mounted directly to the Monopole. They are not mounted on the platform mount and are not included in this mount analysis.

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:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o Bolts ASTM A325
8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

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

Analysis Results:

Component	Utilization %	Pass/Fail
<i>Support Rail Angle</i>	22.0%	<i>Pass</i>
<i>Support Rail</i>	13.7%	<i>Pass</i>
<i>Mount Pipe</i>	26.5%	<i>Pass</i>
<i>Mount Pipe (2.5)</i>	23.0%	<i>Pass</i>
<i>Face Horizontal</i>	10.8%	<i>Pass</i>
<i>Corner Plate</i>	15.3%	<i>Pass</i>
<i>Cross Arm Plate</i>	30.2%	<i>Pass</i>
<i>Grating Support</i>	14.1%	<i>Pass</i>
<i>Platform Crossmember</i>	15.2%	<i>Pass</i>
<i>Standoff Horizontal</i>	28.8%	<i>Pass</i>
<i>Connection Check</i>	63.1%	<i>Pass</i>

Structure Rating – (Controlling Utilization of all Components)	63.1%
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Recommendation:


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

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

Attachments:

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



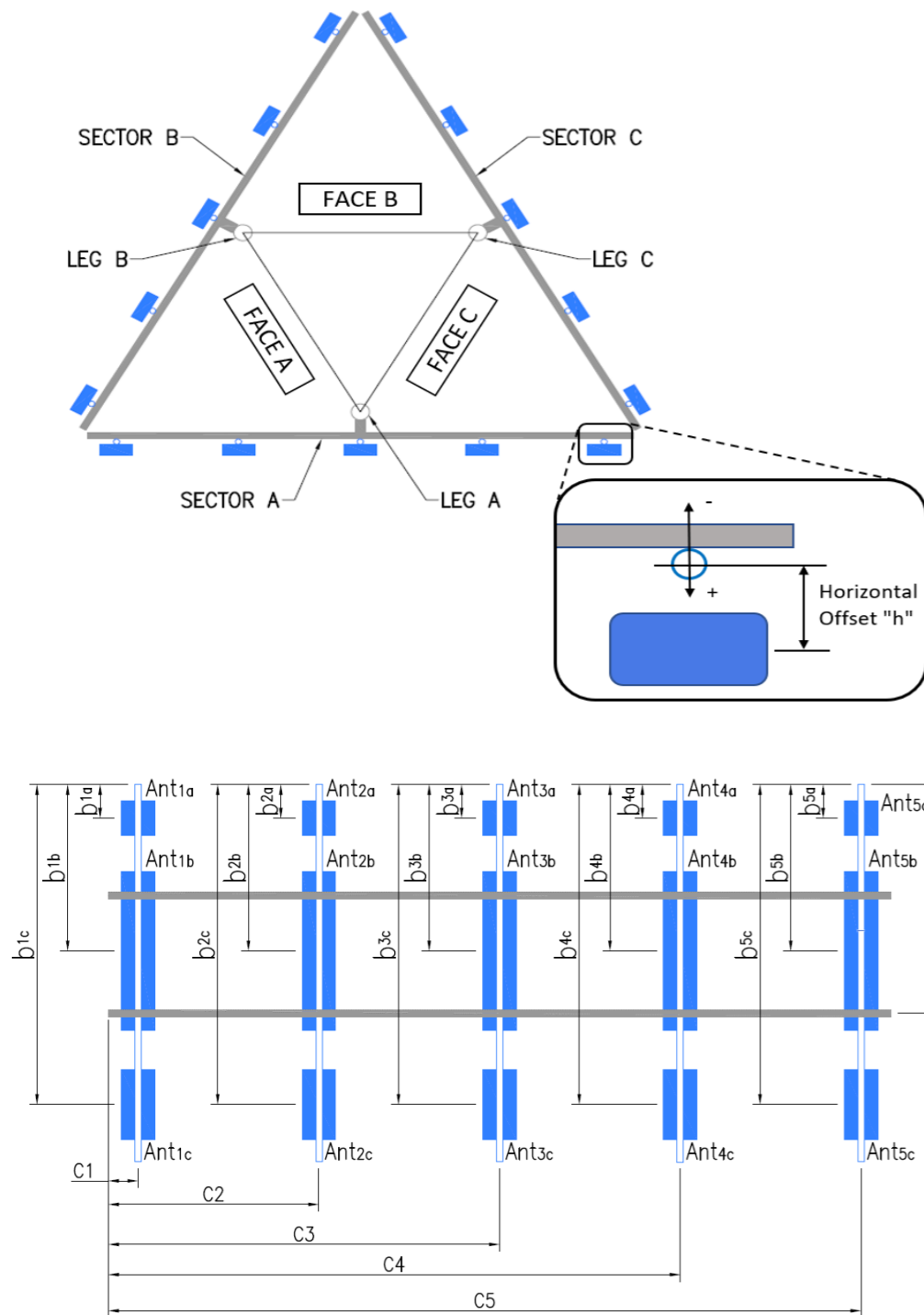
	Antenna Mount Mapping Form (PATENT PENDING)			FCC #
	Tower Owner:	Crown	Mapping Date:	6/16/2021
	Site Name:	BRISTOL W 2 CT	Tower Type:	Monopole
	Site Number or ID:	468192	Tower Height (Ft.):	180
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	Mount Elevation (Ft.):	140	

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

Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	2" STD. PIPE X 72" LONG	40.00	8.00	C1	2" STD. PIPE X 72" LONG	40.00	8.00
A2	2" STD. PIPE X 72" LONG	40.00	43.00	C2	2" STD. PIPE X 72" LONG	40.00	43.00
A3	2" STD. PIPE X 72" LONG	40.00	88.00	C3	2" STD. PIPE X 72" LONG	40.00	88.00
A4	2" STD. PIPE X 72" LONG	40.00	134.00	C4	2" STD. PIPE X 72" LONG	40.00	134.00
A5				C5			
A6				C6			
B1	2" STD. PIPE X 72" LONG	40.00	8.00	D1			
B2	2" STD. PIPE X 72" LONG	40.00	43.00	D2			
B3	2" STD. PIPE X 72" LONG	40.00	88.00	D3			
B4	2" STD. PIPE X 72" LONG	40.00	134.00	D4			
B5				D5			
B6				D6			
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :							
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :							
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) : 7							
Please enter additional information or comments below.							
Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):		24.4			
For T-Arms/Platforms on monopoles, report the weld size from the main standoff to the plate bolting into the collar mount.				0.6			

Ants. Items	Enter antenna model. If not labeled, enter "Unknown".						Mounting Locations [Units are inches and degrees]			Photos of antennas
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b _{1a} , b _{2a} , b _{3a} , b _{1b} ..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
Sector A										
Ant _{1a}	RFV01U-D1A	15.50	12.00	15.50		142.417	11.00	-9.00		61,77
Ant _{1b}	(2) SBNHH - 1D65B w	12.00	7.00	73.00		140.417	35.00	10.00	60.00	61,76
Ant _{1c}										
Ant _{2a}	RFV01U-D2A	15.50	10.00	15.50		142.417	11.00	-8.00		61,78
Ant _{2b}										
Ant _{2c}										
Ant _{3a}										
Ant _{3b}	BXA-70080-6CF	8.00	6.00	71.00		140.667	32.00	12.00	60.00	62,79
Ant _{3c}										
Ant _{4a}										
Ant _{4b}	BXA-70063-4CF	11.00	5.00	47.00		140.667	32.00	9.00	60.00	62,80
Ant _{4c}										
Ant _{5a}										
Ant _{5b}										
Ant _{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										



Antenna Layout (Looking Out From Tower)

Observed Safety and Structural Issues During the Mount Mapping

Issue #	Description of Issue	Photo #
1		
2		
3		
4		
5		
6		
7		
8		

Observed Obstructions to Tower Lighting System

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

Mapping Notes

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

Standard Conditions

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



Antenna Mount Mapping Form (PATENT PENDING)

FCC #

Tower Owner:	Crown	Mapping Date:	6/16/2021
Site Name:	BRISTOL W 2 CT	Tower Type:	Monopole
Site Number or ID:	468192	Tower Height (Ft.):	180
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	Mount Elevation (Ft.):	140

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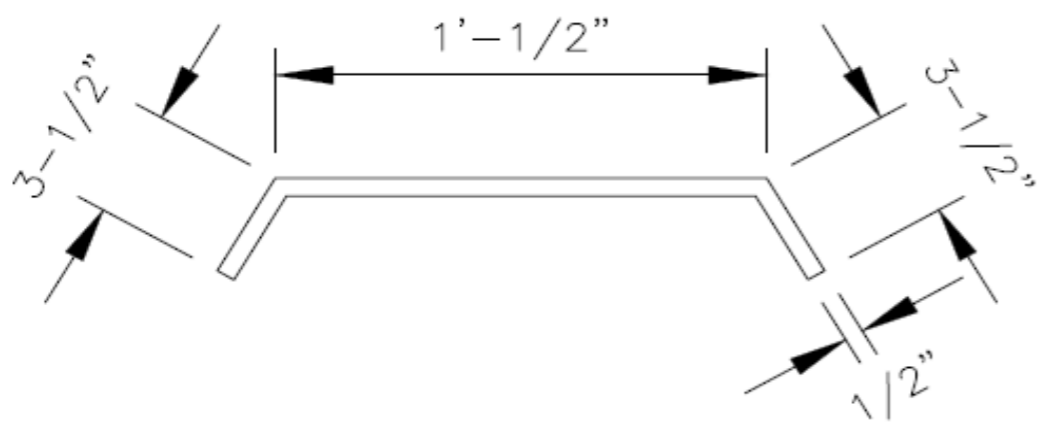
Please Insert Sketches of the Antenna Mount

6/17/2021

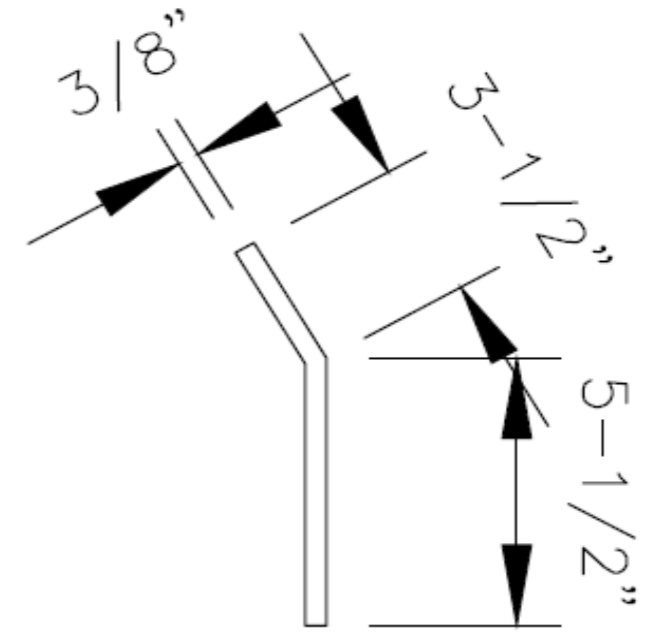


MOUNT MAPPING CHECKLIST

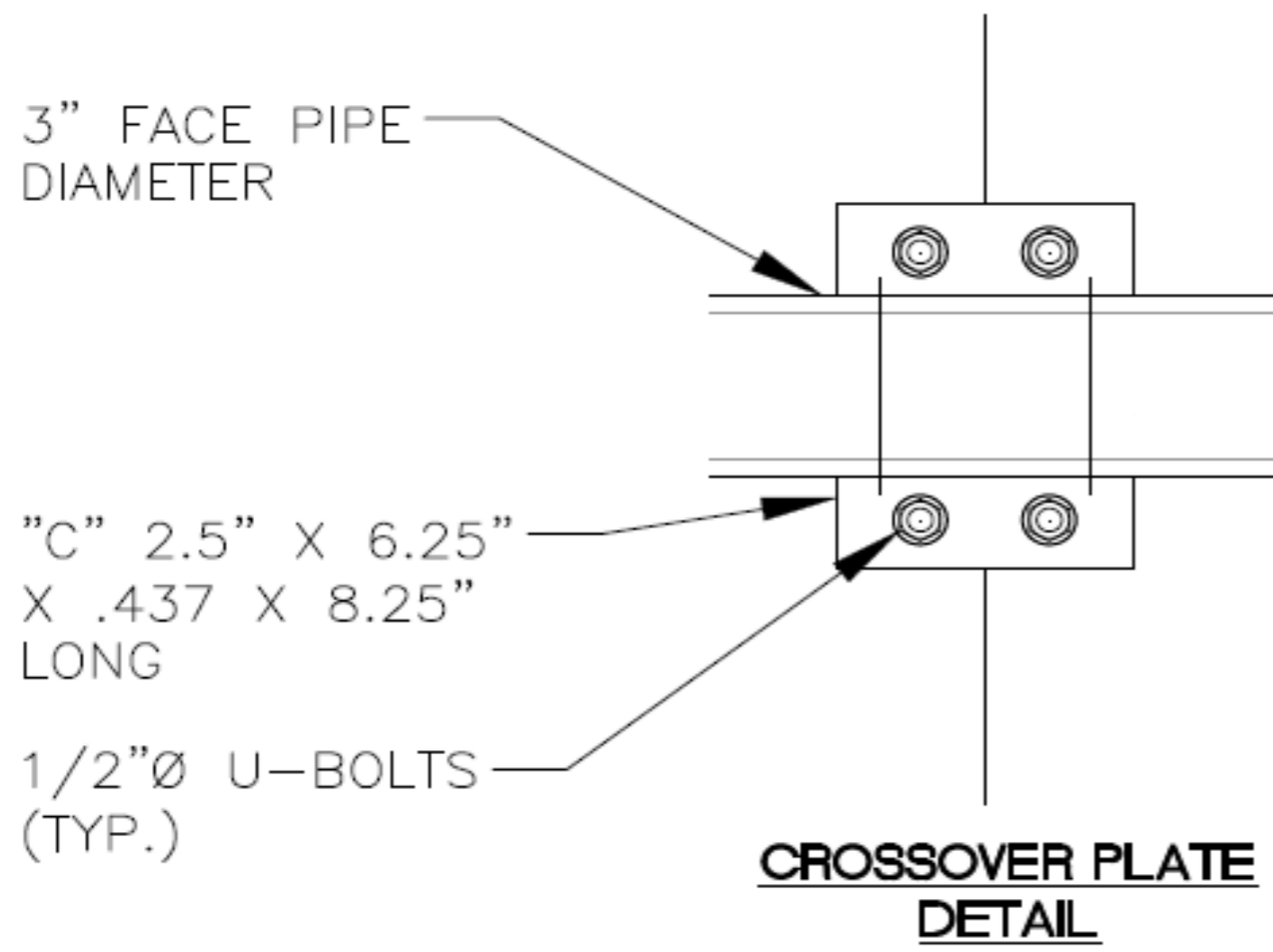
CARRIER:	COLLIER	SITE #:	Bristol W 2 CT	SITE NAME:	
DATE:	6/16/2021	MAPPED BY:	JC	SITE OWNER:	CROWN CASTLE
DESCRIPTION	STATUS	Value	Legend		
A: <u>FACE PIPE CONFIG.</u>	<input type="checkbox"/>	ROUND MAST			
SIZE		3-1/2"			
LENGTH		140"			
B: <u>STAND OFF SIZE</u>	<input type="checkbox"/>	4x4"			
C: <u>ANTENNA PIPE MAST</u>	<input type="checkbox"/>	1/8"			
DIA.		2-3/8"			
LENGTH		72"			
D: <u>MONOPOLE DIA.</u>	<input type="checkbox"/>	24 3/8"			
E: <u>RINGMOUNT</u>	<input type="checkbox"/>	10" x 3/8"			
F: <u>TOWER TO FACE</u>	<input type="checkbox"/>	37"			
G: <u>TOWER TO APEX</u>	<input type="checkbox"/>	70"			
H: <u>HARDWARE</u>	<input type="checkbox"/>	5/8"Ø			
I: <u>U-BOLTS</u>	<input type="checkbox"/>	1/2"Ø			
J: <u>A PLATE</u>	<input type="checkbox"/>	6" x 12.5" x 3.5" x 1/2"			
K: <u>B PLATE</u>	<input type="checkbox"/>	6" x 5.5" x 3.5" x 3/8"			
L: <u>ANGLE</u>	<input type="checkbox"/>	2" X 2" X 3/16"			
M: <u>MOUNTING PLATE</u>	<input type="checkbox"/>	10" x 10" x 5/8"			
N: <u>ALPHA POS 1</u>	<input type="checkbox"/>	(2) SBNHH - 1D65B w/ RFV01			
<u>ALPHA POS 2</u>	<input type="checkbox"/>	RFV01U-D2A			
<u>ALPHA POS 3</u>	<input type="checkbox"/>	BXA-70080-6CF			
<u>ALPHA POS 4</u>	<input type="checkbox"/>	BXA-70063-4CF			
<u>ALPHA POS 5</u>					
O: <u>BETA POS 1</u>	<input type="checkbox"/>	(2) SBNHH - 1D65B w/ RFV01			
<u>BETA POS 2</u>	<input type="checkbox"/>	RFV01U-D2A			
<u>BETA POS 3</u>	<input type="checkbox"/>	BXA-70063-4CF			
<u>BETA POS 4</u>	<input type="checkbox"/>	BXA-70063-4CF			
<u>BETA POS 5</u>					
P: <u>GAMMA POS 1</u>	<input type="checkbox"/>	(2) SBNHH - 1D65B w/ RFV01			
<u>GAMMA POS 2</u>	<input type="checkbox"/>	RFV01U-D2A			
<u>GAMMA POS 3</u>	<input type="checkbox"/>	BXA-70080-6CF			
<u>GAMMA POS 4</u>	<input type="checkbox"/>	BXA-70063-4CF			
<u>GAMMA POS 5</u>					
Q: <u>TMA</u>	<input type="checkbox"/>	None			
R: <u>RADIOS</u>	<input type="checkbox"/>	6			
S: <u>SURGE</u>	<input type="checkbox"/>	1			
T: <u>SECOND MOUNT</u>	<input type="checkbox"/>	None			
COMMENTS:				FACE SKETCH	



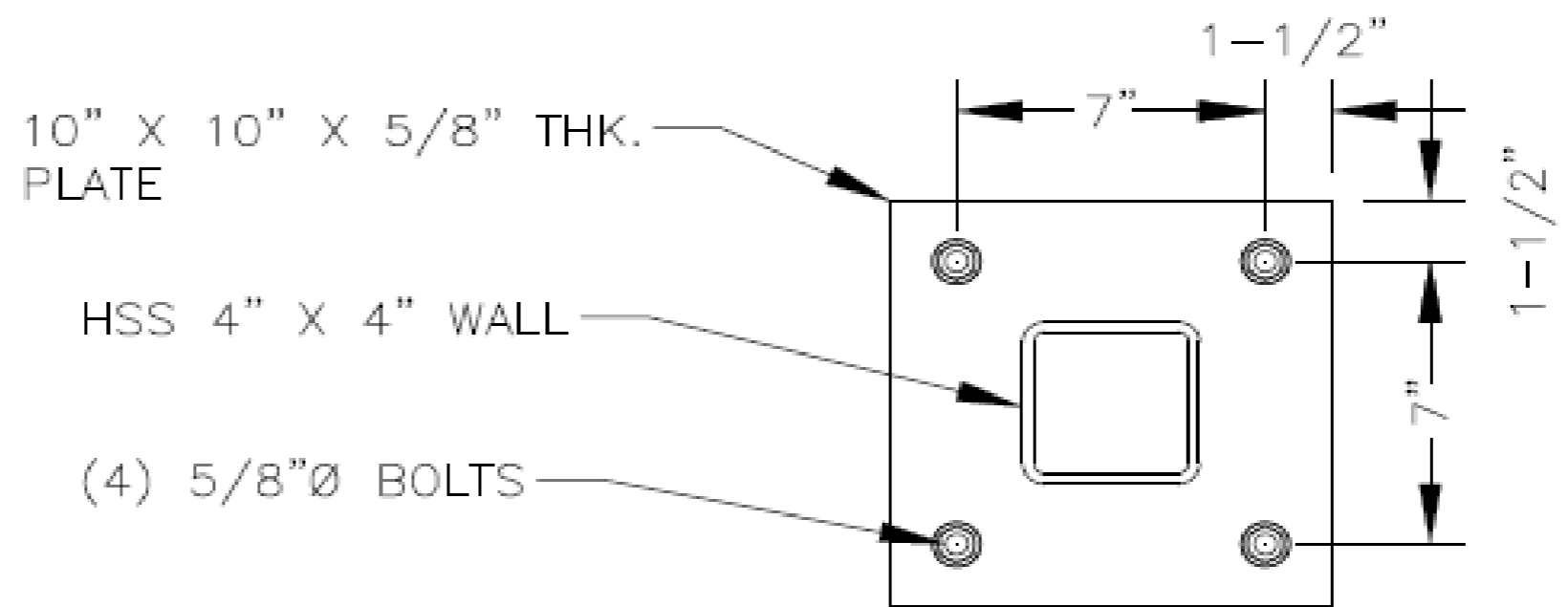
DETAIL J
APEX 'A' PLATE DETAIL



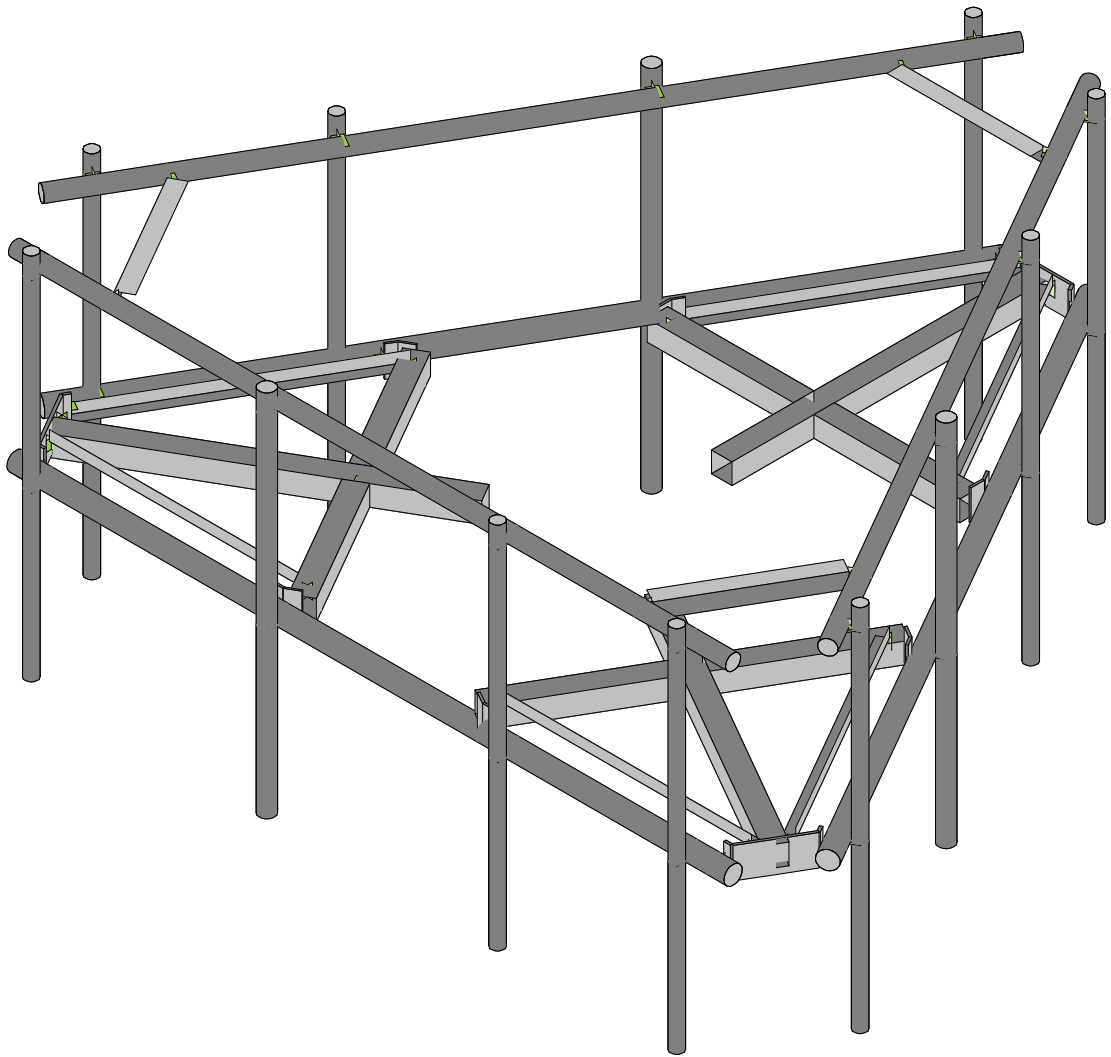
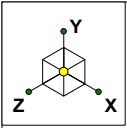
DETAIL K
'B' PLATE DETAIL



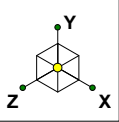
CROSSOVER PLATE
DETAIL



STANDOFF TO RING
MOUNT CONNECTION

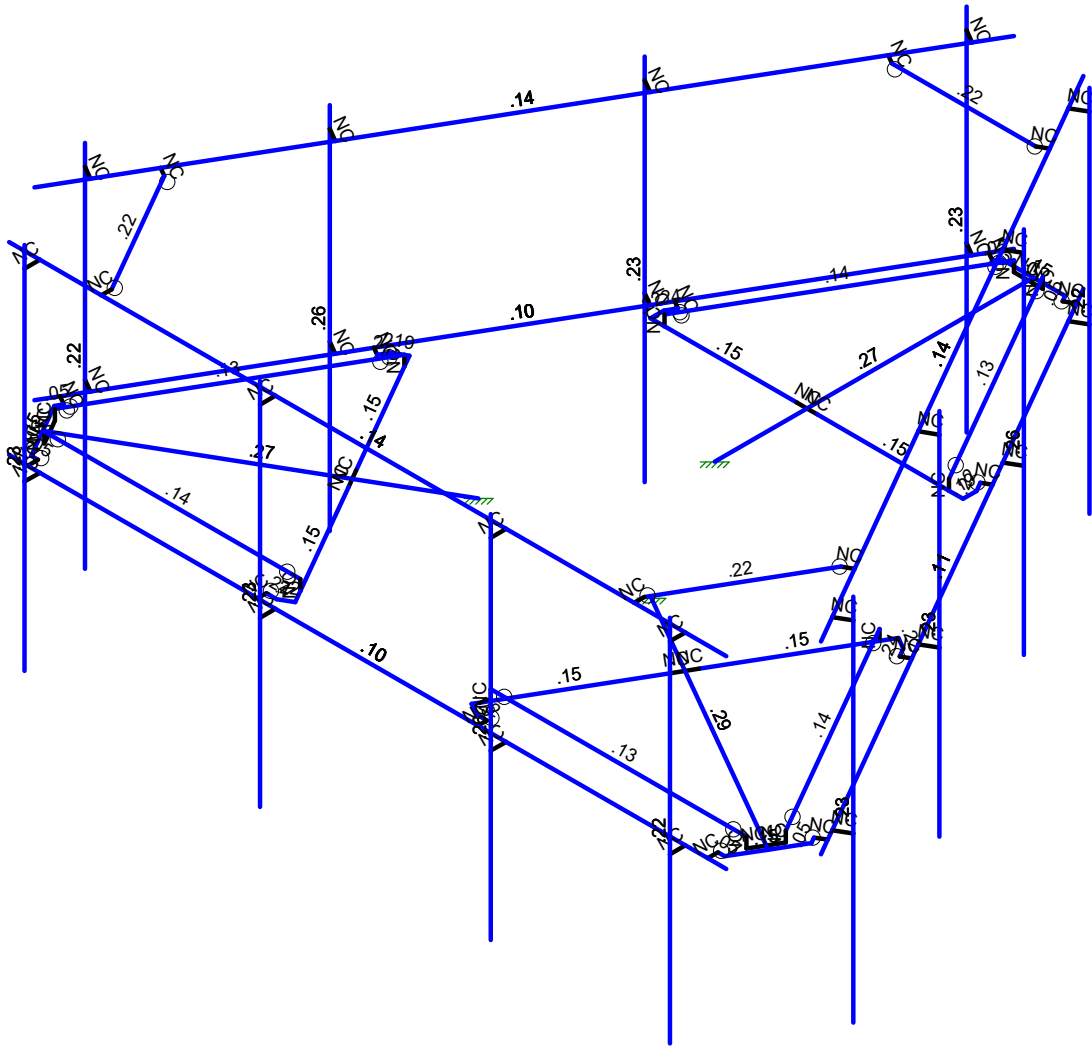


SK - 1
Aug 2, 2021 at 3:24 PM
468192-VZW_MT_LO_H.r3d



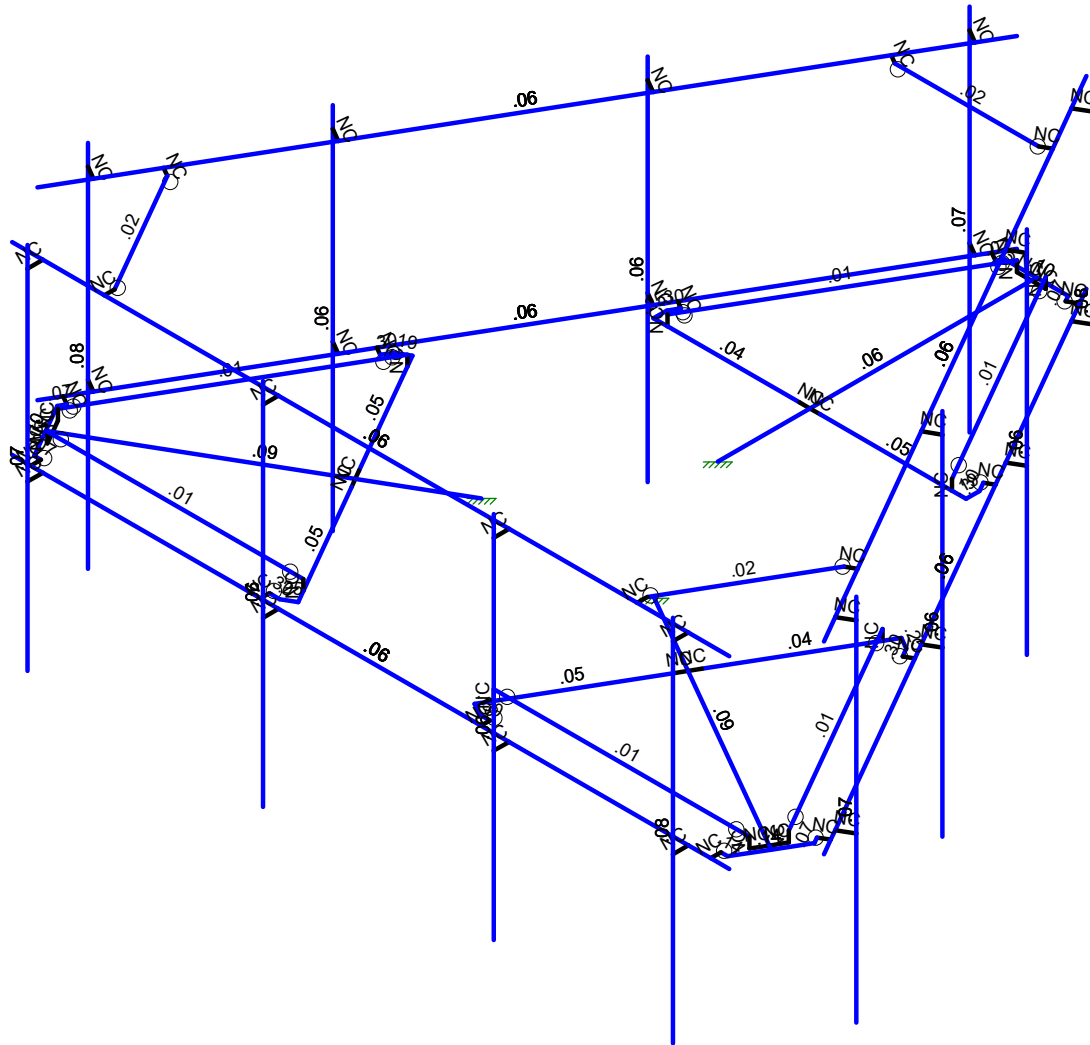
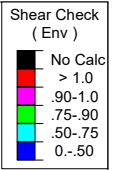
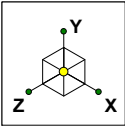
Code Check (Env)

Black	No Calc
Red	> 1.0
Pink	.90-1.0
Green	.75-.90
Cyan	.50-.75
Blue	0-.50



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

		SK - 2
		Aug 2, 2021 at 3:24 PM
		468192-VZW_MT_LO_H.r3d



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

	SK - 3
	Aug 2, 2021 at 3:24 PM
	468192-VZW_MT_LO_H.r3d

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut..	Area(M...	Surface...
1	Antenna D	None					90			
2	Antenna Di	None					90			
3	Antenna Wo (0 Deg)	None					90			
4	Antenna Wo (30 Deg)	None					90			
5	Antenna Wo (60 Deg)	None					90			
6	Antenna Wo (90 Deg)	None					90			
7	Antenna Wo (120 Deg)	None					90			
8	Antenna Wo (150 Deg)	None					90			
9	Antenna Wo (180 Deg)	None					90			
10	Antenna Wo (210 Deg)	None					90			
11	Antenna Wo (240 Deg)	None					90			
12	Antenna Wo (270 Deg)	None					90			
13	Antenna Wo (300 Deg)	None					90			
14	Antenna Wo (330 Deg)	None					90			
15	Antenna Wi (0 Deg)	None					90			
16	Antenna Wi (30 Deg)	None					90			
17	Antenna Wi (60 Deg)	None					90			
18	Antenna Wi (90 Deg)	None					90			
19	Antenna Wi (120 Deg)	None					90			
20	Antenna Wi (150 Deg)	None					90			
21	Antenna Wi (180 Deg)	None					90			
22	Antenna Wi (210 Deg)	None					90			
23	Antenna Wi (240 Deg)	None					90			
24	Antenna Wi (270 Deg)	None					90			
25	Antenna Wi (300 Deg)	None					90			
26	Antenna Wi (330 Deg)	None					90			
27	Antenna Wm (0 Deg)	None					90			
28	Antenna Wm (30 Deg)	None					90			
29	Antenna Wm (60 Deg)	None					90			
30	Antenna Wm (90 Deg)	None					90			
31	Antenna Wm (120 Deg)	None					90			
32	Antenna Wm (150 Deg)	None					90			
33	Antenna Wm (180 Deg)	None					90			
34	Antenna Wm (210 Deg)	None					90			
35	Antenna Wm (240 Deg)	None					90			
36	Antenna Wm (270 Deg)	None					90			
37	Antenna Wm (300 Deg)	None					90			
38	Antenna Wm (330 Deg)	None					90			
39	Structure D	None		-1					3	
40	Structure Di	None						57	3	
41	Structure Wo (0 Deg)	None						114		
42	Structure Wo (30 Deg)	None						114		
43	Structure Wo (60 Deg)	None						114		
44	Structure Wo (90 Deg)	None						114		
45	Structure Wo (120 Deg)	None						114		
46	Structure Wo (150 Deg)	None						114		
47	Structure Wo (180 Deg)	None						114		
48	Structure Wo (210 Deg)	None						114		
49	Structure Wo (240 Deg)	None						114		
50	Structure Wo (270 Deg)	None						114		
51	Structure Wo (300 Deg)	None						114		
52	Structure Wo (330 Deg)	None						114		
53	Structure Wi (0 Deg)	None						114		
54	Structure Wi (30 Deg)	None						114		
55	Structure Wi (60 Deg)	None						114		
56	Structure Wi (90 Deg)	None						114		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distrib.	Area(M...)	Surface...
57	Structure Wi (120 Deg)	None							114	
58	Structure Wi (150 Deg)	None							114	
59	Structure Wi (180 Deg)	None							114	
60	Structure Wi (210 Deg)	None							114	
61	Structure Wi (240 Deg)	None							114	
62	Structure Wi (270 Deg)	None							114	
63	Structure Wi (300 Deg)	None							114	
64	Structure Wi (330 Deg)	None							114	
65	Structure Wm (0 Deg)	None							114	
66	Structure Wm (30 Deg)	None							114	
67	Structure Wm (60 Deg)	None							114	
68	Structure Wm (90 Deg)	None							114	
69	Structure Wm (120 Deg)	None							114	
70	Structure Wm (150 Deg)	None							114	
71	Structure Wm (180 Deg)	None							114	
72	Structure Wm (210 Deg)	None							114	
73	Structure Wm (240 Deg)	None							114	
74	Structure Wm (270 Deg)	None							114	
75	Structure Wm (300 Deg)	None							114	
76	Structure Wm (330 Deg)	None							114	
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	BLC 39 Transient Area Loads	None							30	
82	BLC 40 Transient Area Loads	None							30	

Load Combinations

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

Load Combinations (Continued)

Description	S...	PDelta	S...	B...	F...	BLC	F...	BLC	F...	B...	F...	B...	F...	B...	F...	B...	F...	B...	F...
27	1.2D + 1.5Lm1 + 1.0Wm (60 Deg)	Y...	Y	1	1.2	39	1.2	77	1.5	29	1	67	1						
28	1.2D + 1.5Lm1 + 1.0Wm (90 Deg)	Y...	Y	1	1.2	39	1.2	77	1.5	30	1	68	1						
29	1.2D + 1.5Lm1 + 1.0Wm (120 D...)	Y...	Y	1	1.2	39	1.2	77	1.5	31	1	69	1						
30	1.2D + 1.5Lm1 + 1.0Wm (150 D...)	Y...	Y	1	1.2	39	1.2	77	1.5	32	1	70	1						
31	1.2D + 1.5Lm1 + 1.0Wm (180 D...)	Y...	Y	1	1.2	39	1.2	77	1.5	33	1	71	1						
32	1.2D + 1.5Lm1 + 1.0Wm (210 D...)	Y...	Y	1	1.2	39	1.2	77	1.5	34	1	72	1						
33	1.2D + 1.5Lm1 + 1.0Wm (240 D...)	Y...	Y	1	1.2	39	1.2	77	1.5	35	1	73	1						
34	1.2D + 1.5Lm1 + 1.0Wm (270 D...)	Y...	Y	1	1.2	39	1.2	77	1.5	36	1	74	1						
35	1.2D + 1.5Lm1 + 1.0Wm (300 D...)	Y...	Y	1	1.2	39	1.2	77	1.5	37	1	75	1						
36	1.2D + 1.5Lm1 + 1.0Wm (330 D...)	Y...	Y	1	1.2	39	1.2	77	1.5	38	1	76	1						
37	1.2D + 1.5Lm2 + 1.0Wm (0 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	27	1	65	1						
38	1.2D + 1.5Lm2 + 1.0Wm (30 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	28	1	66	1						
39	1.2D + 1.5Lm2 + 1.0Wm (60 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	29	1	67	1						
40	1.2D + 1.5Lm2 + 1.0Wm (90 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	30	1	68	1						
41	1.2D + 1.5Lm2 + 1.0Wm (120 D...)	Y...	Y	1	1.2	39	1.2	78	1.5	31	1	69	1						
42	1.2D + 1.5Lm2 + 1.0Wm (150 D...)	Y...	Y	1	1.2	39	1.2	78	1.5	32	1	70	1						
43	1.2D + 1.5Lm2 + 1.0Wm (180 D...)	Y...	Y	1	1.2	39	1.2	78	1.5	33	1	71	1						
44	1.2D + 1.5Lm2 + 1.0Wm (210 D...)	Y...	Y	1	1.2	39	1.2	78	1.5	34	1	72	1						
45	1.2D + 1.5Lm2 + 1.0Wm (240 D...)	Y...	Y	1	1.2	39	1.2	78	1.5	35	1	73	1						
46	1.2D + 1.5Lm2 + 1.0Wm (270 D...)	Y...	Y	1	1.2	39	1.2	78	1.5	36	1	74	1						
47	1.2D + 1.5Lm2 + 1.0Wm (300 D...)	Y...	Y	1	1.2	39	1.2	78	1.5	37	1	75	1						
48	1.2D + 1.5Lm2 + 1.0Wm (330 D...)	Y...	Y	1	1.2	39	1.2	78	1.5	38	1	76	1						
49	1.2D + 1.5Lv1	Y...	Y	1	1.2	39	1.2	79	1.5										
50	1.2D + 1.5Lv2	Y...	Y	1	1.2	39	1.2	80	1.5										
51	1.4D	Y...	Y	1	1.4	39	1.4												
52	Seismic Mass		Y	1	1	39	1												
53	1.2D + 1.0Ev + 1.0Eh (0 Deg)		Y	1	1.2	39	1.2	SX		SY	1	SZ	-1						
54	1.2D + 1.0Ev + 1.0Eh (30 Deg)		Y	1	1.2	39	1.2	SX	.5	SY	1	SZ	----						
55	1.2D + 1.0Ev + 1.0Eh (60 Deg)		Y	1	1.2	39	1.2	SX	.8...	SY	1	SZ	-.5						
56	1.2D + 1.0Ev + 1.0Eh (90 Deg)		Y	1	1.2	39	1.2	SX	1	SY	1	SZ							
57	1.2D + 1.0Ev + 1.0Eh (120 Deg)		Y	1	1.2	39	1.2	SX	.8...	SY	1	SZ	.5						
58	1.2D + 1.0Ev + 1.0Eh (150 Deg)		Y	1	1.2	39	1.2	SX	.5	SY	1	SZ	.8...						
59	1.2D + 1.0Ev + 1.0Eh (180 Deg)		Y	1	1.2	39	1.2	SX		SY	1	SZ	1						
60	1.2D + 1.0Ev + 1.0Eh (210 Deg)		Y	1	1.2	39	1.2	SX	-.5	SY	1	SZ	.8...						
61	1.2D + 1.0Ev + 1.0Eh (240 Deg)		Y	1	1.2	39	1.2	SX	----	SY	1	SZ	.5						
62	1.2D + 1.0Ev + 1.0Eh (270 Deg)		Y	1	1.2	39	1.2	SX	-1	SY	1	SZ							
63	1.2D + 1.0Ev + 1.0Eh (300 Deg)		Y	1	1.2	39	1.2	SX	----	SY	1	SZ	-.5						
64	1.2D + 1.0Ev + 1.0Eh (330 Deg)		Y	1	1.2	39	1.2	SX	-.5	SY	1	SZ	----						

Joint Coordinates and Temperatures

Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	5.833333	0	4.018857	0
2	N2	-5.833333	0	4.018857	0
3	N3	0	0	-1.625	0
4	N5	-2.541667	0	-3.125	0
5	N6	2.315104	0.166667	-3.125	0
6	N7	-2.315104	0.166667	-3.125	0
7	N8	5.166667	0	4.018857	0
8	N9	5.166667	0	4.268857	0
9	N22	5.166667	-2.666667	4.268857	0
10	N23	5.166667	3.333333	4.268857	0
11	N24	0	0	-3.125	0
12	N27	0	0	-6.8125	0
13	CP	0	0	0	0
14	N29	2.315104	0	-3.125	0



Company :
 Designer :
 Job Number :
 Model Name :

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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
15	N30	-2.315104	0	-3.125	0	
16	N101	2.541667	0	-3.125	0	
17	N102	-0.166667	0	-3.125	0	
18	N103A	0.166667	0	-3.125	0	
19	N104A	-2.541667	0	-3.34375	0	
20	N105	2.541667	0	-3.34375	0	
21	N131	2.458333	0	-3.488088	0	
22	N135	0.571615	0	-6.715523	0	
23	N144	-2.458333	0	-3.488088	0	
24	N148	-0.571615	0	-6.715523	0	
25	N86A	2.584629	0	-3.561004	0	
26	N86B	-2.584629	0	-3.561004	0	
27	N86C	-0.515625	0	-6.8125	0	
28	N87A	0.515625	0	-6.8125	0	
29	N86D	0.715429	0	-6.798554	0	
30	N86E	-0.715429	0	-6.798554	0	
31	N88A	0	0	-6.729167	0	
32	N87C	0.234238	0.166667	-6.729167	0	
33	N86G	0.234238	0	-6.729167	0	
34	N87B	-0.234238	0.166667	-6.729167	0	
35	N88C	-0.234238	0	-6.729167	0	
36	N36	-1.407291	0	0.8125	0	
37	N37	-1.435496	0	3.763648	0	
38	N38	-3.863881	0.166667	-0.442439	0	
39	N39	-1.548777	0.166667	3.567439	0	
40	N40	-2.706329	0	1.5625	0	
41	N41	-5.899798	0	3.40625	0	
42	N42	-3.863881	0	-0.442439	0	
43	N43	-1.548777	0	3.567439	0	
44	N44	-3.977163	0	-0.638648	0	
45	N45	-2.622996	0	1.706838	0	
46	N46	-2.789663	0	1.418162	0	
47	N47	-1.624939	0	3.873023	0	
48	N48	-4.166606	0	-0.529273	0	
49	N49	-4.249939	0	-0.384935	0	
50	N50	-6.101621	0	2.862729	0	
51	N51	-1.791606	0	3.873023	0	
52	N52	-5.530006	0	3.852794	0	
53	N53	-4.376235	0	-0.457852	0	
54	N54	-1.791606	0	4.018857	0	
55	N55	-5.641986	0	3.852794	0	
56	N56	-6.157611	0	2.959706	0	
57	N57	-6.245435	0	2.779698	0	
58	N58	-5.530006	0	4.018857	0	
59	N59	-5.827629	0	3.364583	0	
60	N60	-5.944748	0.166667	3.161728	0	
61	N61	-5.944748	0	3.161728	0	
62	N62	-5.71051	0.166667	3.567439	0	
63	N63	-5.71051	0	3.567439	0	
64	N64	1.407291	0	0.8125	0	
65	N65	3.977163	0	-0.638648	0	
66	N66	1.548777	0.166667	3.567439	0	
67	N67	3.863881	0.166667	-0.442439	0	
68	N68	2.706329	0	1.5625	0	
69	N69	5.899798	0	3.40625	0	
70	N70	1.548777	0	3.567439	0	
71	N71	3.863881	0	-0.442439	0	



Company :
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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
72	N72	1.435496	0	3.763648	0	
73	N73	2.789663	0	1.418162	0	
74	N74	2.622996	0	1.706838	0	
75	N75	4.166606	0	-0.529273	0	
76	N76	1.624939	0	3.873023	0	
77	N77	1.791606	0	3.873023	0	
78	N78	5.530006	0	3.852794	0	
79	N79	4.249939	0	-0.384935	0	
80	N80	6.101621	0	2.862729	0	
81	N81	1.791606	0	4.018857	0	
82	N82	4.376235	0	-0.457852	0	
83	N83	6.157611	0	2.959706	0	
84	N84	5.641986	0	3.852794	0	
85	N85	5.530006	0	4.018857	0	
86	N86	6.245435	0	2.779698	0	
87	N87	5.827629	0	3.364583	0	
88	N88	5.71051	0.166667	3.567439	0	
89	N89	5.71051	0	3.567439	0	
90	N90	5.944748	0.166667	3.161728	0	
91	N91	5.944748	0	3.161728	0	
92	N92	2.25	0	4.018857	0	
93	N93	2.25	0	4.268857	0	
94	N94	2.25	-2.666667	4.268857	0	
95	N95	2.25	3.333333	4.268857	0	
96	N96	-1.5	0	4.018857	0	
97	N97	-1.5	0	4.268857	0	
98	N98	-1.5	-2.666667	4.268857	0	
99	N99	-1.5	3.333333	4.268857	0	
100	N100	-5.333333	0	4.018857	0	
101	N101A	-5.333333	0	4.268857	0	
102	N102A	-5.333333	-2.666667	4.268857	0	
103	N103	-5.333333	3.333333	4.268857	0	
104	N104	0.563765	0	-7.061243	0	
105	N105A	6.397099	0	3.042387	0	
106	N106	0.897099	0	-6.483893	0	
107	N107	1.113605	0	-6.608893	0	
108	N108	1.113605	-2.666667	-6.608893	0	
109	N109	1.113605	3.333333	-6.608893	0	
110	N110	2.355432	0	-3.957985	0	
111	N111	2.571938	0	-4.082985	0	
112	N112	2.571938	-2.666667	-4.082985	0	
113	N113	2.571938	3.333333	-4.082985	0	
114	N114	4.230432	0	-0.71039	0	
115	N115	4.446938	0	-0.83539	0	
116	N116	4.446938	-2.666667	-0.83539	0	
117	N117	4.446938	3.333333	-0.83539	0	
118	N118	6.147099	0	2.609374	0	
119	N119	6.363605	0	2.484374	0	
120	N120	6.363605	-2.666667	2.484374	0	
121	N121	6.363605	3.333333	2.484374	0	
122	N122	-6.397099	0	3.042387	0	
123	N123	-0.563765	0	-7.061243	0	
124	N124	-6.063765	0	2.465036	0	
125	N125	-6.280272	0	2.340036	0	
126	N126	-6.280272	-2.666667	2.340036	0	
127	N127	-6.280272	3.333333	2.340036	0	
128	N128	-4.605432	0	-0.060871	0	



Company :
 Designer :
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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
129	N129	-4.821938	0	-0.185871	0	
130	N130	-4.821938	-2.666667	-0.185871	0	
131	N131A	-4.821938	3.333333	-0.185871	0	
132	N132	-2.730432	0	-3.308466	0	
133	N133	-2.946938	0	-3.433466	0	
134	N134	-2.946938	-2.666667	-3.433466	0	
135	N135A	-2.946938	3.333333	-3.433466	0	
136	N136	-0.813765	0	-6.62823	0	
137	N137	-1.030272	0	-6.75323	0	
138	N138	-1.030272	-2.666667	-6.75323	0	
139	N139	-1.030272	3.333333	-6.75323	0	
140	N140	0.563765	3	-7.061243	0	
141	N141	6.397099	3	3.042387	0	
142	N142	0.897099	3	-6.483893	0	
143	N143	1.113605	3	-6.608893	0	
144	N144A	2.355432	3	-3.957985	0	
145	N145	2.571938	3	-4.082985	0	
146	N146	4.230432	3	-0.71039	0	
147	N147	4.446938	3	-0.83539	0	
148	N148A	6.147099	3	2.609374	0	
149	N149	6.363605	3	2.484374	0	
150	N150	-6.397099	3	3.042387	0	
151	N151	-0.563765	3	-7.061243	0	
152	N152	-6.063765	3	2.465036	0	
153	N153	-6.280272	3	2.340036	0	
154	N154	-4.605432	3	-0.060871	0	
155	N155	-4.821938	3	-0.185871	0	
156	N156	-2.730432	3	-3.308466	0	
157	N157	-2.946938	3	-3.433466	0	
158	N158	-0.813765	3	-6.62823	0	
159	N159	-1.030272	3	-6.75323	0	
160	N160	5.833333	3	4.018857	0	
161	N161	-5.833333	3	4.018857	0	
162	N162	5.166667	3	4.018857	0	
163	N163	5.166667	3	4.268857	0	
164	N164	2.25	3	4.018857	0	
165	N165	2.25	3	4.268857	0	
166	N166	-1.5	3	4.018857	0	
167	N167	-1.5	3	4.268857	0	
168	N168	-5.333333	3	4.018857	0	
169	N169	-5.333333	3	4.268857	0	
170	N170	4.333333	3	4.018857	0	
171	N171	-4.333333	3	4.018857	0	
172	N172	4.333333	3	3.85219	0	
173	N173	-4.333333	3	3.85219	0	
174	N174	1.313765	3	-5.762205	0	
175	N175	5.647099	3	1.743348	0	
176	N176	1.169428	3	-5.678872	0	
177	N177	5.502761	3	1.826682	0	
178	N178	-5.647099	3	1.743348	0	
179	N179	-1.313765	3	-5.762205	0	
180	N180	-5.502761	3	1.826682	0	
181	N181	-1.169428	3	-5.678872	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rules	A [in2]	Iyy [i...]	Izz [i...]	J [in4]
1	Face Horizontal	PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2	Support Rail	PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
3	Standoff Horizontal	HSS4X4X4	Beam	SquareTube	A500 Gr.B ...	Typical	3.37	7.8	7.8	12.8
4	Corner Plate	PL1/2x6	Beam	BAR	A36 Gr.36	Typical	3	.063	9	.237
5	Platform Crossm...	HSS4X4X4	Beam	SquareTube	A500 Gr.B ...	Typical	3.37	7.8	7.8	12.8
6	Grating Support	L2x2x3	Beam	Single Angle	A36 Gr.36	Typical	.722	.271	.271	.009
7	Support Rail Angle	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
8	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
9	Mount Pipe (2.5)	PIPE 2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
10	Cross Arm Plate	PL3/8x6	Column	RECT	A36 Gr.36	Typical	2.25	.026	6.75	.101

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	FACE	N1	N2			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
2	M4	N3	N27			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
3	M10	N101	N103A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
4	LIVE2	N8	N9			RIGID	None	None	RIGID	Typical
5	MP1A	N23	N22			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
6	M43	N102	N5			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
7	M46	N86C	N87A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
8	M35A	N7	N30			RIGID	None	None	RIGID	Typical
9	M36A	N6	N29			RIGID	None	None	RIGID	Typical
10	M51B	N87C	N6			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
11	M52B	N7	N87B			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
12	M52	N87B	N88C			RIGID	None	None	RIGID	Typical
13	M58	N102	N24			RIGID	None	None	RIGID	Typical
14	M59	N24	N103A			RIGID	None	None	RIGID	Typical
15	M76	N101	N105			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
16	M77	N105	N131			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
17	M79	N131	N86A			RIGID	None	None	RIGID	Typical
18	M80	N87A	N135			Corner Plate	Beam	BAR	A36 Gr.36	Typical
19	M83	N135	N86D			RIGID	None	None	RIGID	Typical
20	M84	N5	N104A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
21	M85	N104A	N144			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
22	M88	N144	N86B			RIGID	None	None	RIGID	Typical
23	M91	N86C	N148			Corner Plate	Beam	BAR	A36 Gr.36	Typical
24	M92	N148	N86E			RIGID	None	None	RIGID	Typical
25	M50	N88C	N88A			RIGID	None	None	RIGID	Typical
26	M51	N88A	N86G			RIGID	None	None	RIGID	Typical
27	M51A	N87C	N86G			RIGID	None	None	RIGID	Typical
28	M28	N36	N41			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
29	M29	N44	N46			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
30	M30	N45	N37			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
31	M31	N55	N56			Corner Plate	Beam	BAR	A36 Gr.36	Typical
32	M32	N39	N43			RIGID	None	None	RIGID	Typical
33	M33	N38	N42			RIGID	None	None	RIGID	Typical
34	M34	N60	N38			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
35	M35	N39	N62			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
36	M36	N62	N63			RIGID	None	None	RIGID	Typical
37	M37	N45	N40			RIGID	None	None	RIGID	Typical
38	M38	N40	N46			RIGID	None	None	RIGID	Typical
39	M39	N44	N48			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
40	M40	N48	N49			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
41	M41	N49	N53			RIGID	None	None	RIGID	Typical
42	M42	N56	N50			Corner Plate	Beam	BAR	A36 Gr.36	Typical
43	M43A	N50	N57			RIGID	None	None	RIGID	Typical
44	M44	N37	N47			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
45	M45	N47	N51			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
46	M46A	N51	N54			RIGID	None	None	RIGID	Typical
47	M47	N55	N52			Corner Plate	Beam	BAR	A36 Gr.36	Typical
48	M48	N52	N58			RIGID	None	None	RIGID	Typical
49	M49	N63	N59			RIGID	None	None	RIGID	Typical
50	M50A	N59	N61			RIGID	None	None	RIGID	Typical
51	M51C	N60	N61			RIGID	None	None	RIGID	Typical
52	M52A	N64	N69			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
53	M53	N72	N74			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
54	M54	N73	N65			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
55	M55	N83	N84			Corner Plate	Beam	BAR	A36 Gr.36	Typical
56	M56	N67	N71			RIGID	None	None	RIGID	Typical
57	M57	N66	N70			RIGID	None	None	RIGID	Typical
58	M58A	N88	N66			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
59	M59A	N67	N90			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
60	M60	N90	N91			RIGID	None	None	RIGID	Typical
61	M61	N73	N68			RIGID	None	None	RIGID	Typical
62	M62	N68	N74			RIGID	None	None	RIGID	Typical
63	M63	N72	N76			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
64	M64	N76	N77			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
65	M65	N77	N81			RIGID	None	None	RIGID	Typical
66	M66	N84	N78			Corner Plate	Beam	BAR	A36 Gr.36	Typical
67	M67	N78	N85			RIGID	None	None	RIGID	Typical
68	M68	N65	N75			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
69	M69	N75	N79			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
70	M70	N79	N82			RIGID	None	None	RIGID	Typical
71	M71	N83	N80			Corner Plate	Beam	BAR	A36 Gr.36	Typical
72	M72	N80	N86			RIGID	None	None	RIGID	Typical
73	M73	N91	N87			RIGID	None	None	RIGID	Typical
74	M74	N87	N89			RIGID	None	None	RIGID	Typical
75	M75	N88	N89			RIGID	None	None	RIGID	Typical
76	M76A	N92	N93			RIGID	None	None	RIGID	Typical
77	MP2A	N95	N94			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
78	LIVE1	N96	N97			RIGID	None	None	RIGID	Typical
79	MP3A	N99	N98			Mount Pipe (2.5)	Column	Pipe	A53 Gr.B	Typical
80	M80A	N100	N101A			RIGID	None	None	RIGID	Typical
81	MP4A	N103	N102A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
82	M82	N104	N105A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
83	M83A	N106	N107			RIGID	None	None	RIGID	Typical
84	MP1C	N109	N108			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
85	M85A	N110	N111			RIGID	None	None	RIGID	Typical
86	MP2C	N113	N112			Mount Pipe	Column	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
87	M87	N114	N115			RIGID	None	None	RIGID	Typical
88	MP3C	N117	N116			Mount Pipe (2.5)	Column	Pipe	A53 Gr.B	Typical
89	M89	N118	N119			RIGID	None	None	RIGID	Typical
90	MP4C	N121	N120			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
91	M91A	N122	N123			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
92	M92A	N124	N125			RIGID	None	None	RIGID	Typical
93	MP1B	N127	N126			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
94	M94	N128	N129			RIGID	None	None	RIGID	Typical
95	MP2B	N131A	N130			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
96	M96	N132	N133			RIGID	None	None	RIGID	Typical
97	MP3B	N135A	N134			Mount Pipe (2.5)	Column	Pipe	A53 Gr.B	Typical
98	M98	N136	N137			RIGID	None	None	RIGID	Typical
99	MP4B	N139	N138			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
100	M100	N140	N141			Support Rail	Beam	Pipe	A53 Gr.B	Typical
101	M101	N142	N143			RIGID	None	None	RIGID	Typical
102	M102	N144A	N145			RIGID	None	None	RIGID	Typical
103	M103	N146	N147			RIGID	None	None	RIGID	Typical
104	M104	N148A	N149			RIGID	None	None	RIGID	Typical
105	M105	N150	N151			Support Rail	Beam	Pipe	A53 Gr.B	Typical
106	M106	N152	N153			RIGID	None	None	RIGID	Typical
107	M107	N154	N155			RIGID	None	None	RIGID	Typical
108	M108	N156	N157			RIGID	None	None	RIGID	Typical
109	M109	N158	N159			RIGID	None	None	RIGID	Typical
110	M110	N160	N161			Support Rail	Beam	Pipe	A53 Gr.B	Typical
111	M111	N162	N163			RIGID	None	None	RIGID	Typical
112	M112	N164	N165			RIGID	None	None	RIGID	Typical
113	M113	N166	N167			RIGID	None	None	RIGID	Typical
114	M114	N168	N169			RIGID	None	None	RIGID	Typical
115	M115	N171	N173			RIGID	None	None	RIGID	Typical
116	M116	N170	N172			RIGID	None	None	RIGID	Typical
117	M117	N175	N177			RIGID	None	None	RIGID	Typical
118	M118	N174	N176			RIGID	None	None	RIGID	Typical
119	M119	N179	N181			RIGID	None	None	RIGID	Typical
120	M120	N178	N180			RIGID	None	None	RIGID	Typical
121	M121	N173	N180		90	Support Rail A...	Beam	Single Angle	A36 Gr.36	Typical
122	M128	N177	N172		90	Support Rail A...	Beam	Single Angle	A36 Gr.36	Typical
123	M135	N181	N176		90	Support Rail A...	Beam	Single Angle	A36 Gr.36	Typical

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp t...	Lcomp b...	L-tor...	Kyy	Kzz	Cb	Function
1	FACE	Face Horizontal	11.667			Lbyy						Lateral
2	M4	Standoff Horizontal	5.188			Lbyy						Lateral
3	M10	Platform Crossmember	2.375			Lbyy						Lateral
4	MP1A	Mount Pipe	6			Lbyy						Lateral
5	M43	Platform Crossmember	2.375			Lbyy						Lateral
6	M46	Corner Plate	1.031			Lbyy						Lateral
7	M51B	Grating Support	4.162			Lbyy						Lateral
8	M52B	Grating Support	4.162			Lbyy						Lateral
9	M76	Cross Arm Plate	.219									Lateral
10	M77	Cross Arm Plate	.167									Lateral
11	M80	Corner Plate	.112			Lbyy						Lateral
12	M84	Cross Arm Plate	.219									Lateral
13	M85	Cross Arm Plate	.167									Lateral
14	M91	Corner Plate	.112			Lbyy						Lateral
15	M28	Standoff Horizontal	5.188			Lbyy						Lateral

Hot Rolled Steel Design Parameters (Continued)

Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp t...	Lcomp b...	L-tor...	Kyy	Kzz	Cb	Function
16	M29	Platform Crossmember	2.375		Lbyy						Lateral
17	M30	Platform Crossmember	2.375		Lbyy						Lateral
18	M31	Corner Plate	1.031		Lbyy						Lateral
19	M34	Grating Support	4.162		Lbyy						Lateral
20	M35	Grating Support	4.162		Lbyy						Lateral
21	M39	Cross Arm Plate	.219								Lateral
22	M40	Cross Arm Plate	.167								Lateral
23	M42	Corner Plate	.112		Lbyy						Lateral
24	M44	Cross Arm Plate	.219								Lateral
25	M45	Cross Arm Plate	.167								Lateral
26	M47	Corner Plate	.112		Lbyy						Lateral
27	M52A	Standoff Horizontal	5.188		Lbyy						Lateral
28	M53	Platform Crossmember	2.375		Lbyy						Lateral
29	M54	Platform Crossmember	2.375		Lbyy						Lateral
30	M55	Corner Plate	1.031		Lbyy						Lateral
31	M58A	Grating Support	4.162		Lbyy						Lateral
32	M59A	Grating Support	4.162		Lbyy						Lateral
33	M63	Cross Arm Plate	.219								Lateral
34	M64	Cross Arm Plate	.167								Lateral
35	M66	Corner Plate	.112		Lbyy						Lateral
36	M68	Cross Arm Plate	.219								Lateral
37	M69	Cross Arm Plate	.167								Lateral
38	M71	Corner Plate	.112		Lbyy						Lateral
39	MP2A	Mount Pipe	6		Lbyy						Lateral
40	MP3A	Mount Pipe (2.5)	6		Lbyy						Lateral
41	MP4A	Mount Pipe	6		Lbyy						Lateral
42	M82	Face Horizontal	11.667		Lbyy						Lateral
43	MP1C	Mount Pipe	6		Lbyy						Lateral
44	MP2C	Mount Pipe	6		Lbyy						Lateral
45	MP3C	Mount Pipe (2.5)	6		Lbyy						Lateral
46	MP4C	Mount Pipe	6		Lbyy						Lateral
47	M91A	Face Horizontal	11.667		Lbyy						Lateral
48	MP1B	Mount Pipe	6		Lbyy						Lateral
49	MP2B	Mount Pipe	6		Lbyy						Lateral
50	MP3B	Mount Pipe (2.5)	6		Lbyy						Lateral
51	MP4B	Mount Pipe	6		Lbyy						Lateral
52	M100	Support Rail	11.667		Lbyy						Lateral
53	M105	Support Rail	11.667		Lbyy						Lateral
54	M110	Support Rail	11.667		Lbyy						Lateral
55	M121	Support Rail Angle	2.339		Lbyy						Lateral
56	M128	Support Rail Angle	2.339		Lbyy						Lateral
57	M135	Support Rail Angle	2.339		Lbyy						Lateral

Member Point Loads (BLC 1 : Antenna D)

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP3A	Y	-21.85 .5
2	MP3A	My	-.011 .5
3	MP3A	Mz	-.013 .5
4	MP3A	Y	-21.85 4.5
5	MP3A	My	-.011 4.5
6	MP3A	Mz	-.013 4.5
7	MP3B	Y	-21.85 .5
8	MP3B	My	.017 .5
9	MP3B	Mz	-.003 .5
10	MP3B	Y	-21.85 4.5



Company :
 Designer :
 Job Number :
 Model Name :

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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
11	MP3B	My	.017 4.5
12	MP3B	Mz	-.003 4.5
13	MP3C	Y	-21.85 .5
14	MP3C	My	-.006 .5
15	MP3C	Mz	.016 .5
16	MP3C	Y	-21.85 4.5
17	MP3C	My	-.006 4.5
18	MP3C	Mz	.016 4.5
19	MP3A	Y	-32.3 .5
20	MP3A	My	-.016 .5
21	MP3A	Mz	.019 .5
22	MP3A	Y	-32.3 4.5
23	MP3A	My	-.016 4.5
24	MP3A	Mz	.019 4.5
25	MP3B	Y	-32.3 .5
26	MP3B	My	-.008 .5
27	MP3B	Mz	-.023 .5
28	MP3B	Y	-32.3 4.5
29	MP3B	My	-.008 4.5
30	MP3B	Mz	-.023 4.5
31	MP3C	Y	-32.3 .5
32	MP3C	My	.024 .5
33	MP3C	Mz	.005 .5
34	MP3C	Y	-32.3 4.5
35	MP3C	My	.024 4.5
36	MP3C	Mz	.005 4.5
37	MP1A	Y	-43.55 1.5
38	MP1A	My	-.022 1.5
39	MP1A	Mz	0 1.5
40	MP1A	Y	-43.55 3.5
41	MP1A	My	-.022 3.5
42	MP1A	Mz	0 3.5
43	MP1B	Y	-43.55 1.5
44	MP1B	My	.011 1.5
45	MP1B	Mz	-.019 1.5
46	MP1B	Y	-43.55 3.5
47	MP1B	My	.011 3.5
48	MP1B	Mz	-.019 3.5
49	MP1C	Y	-43.55 1.5
50	MP1C	My	.011 1.5
51	MP1C	Mz	.019 1.5
52	MP1C	Y	-43.55 3.5
53	MP1C	My	.011 3.5
54	MP1C	Mz	.019 3.5
55	MP4A	Y	-4.95 1.5
56	MP4A	My	-.002 1.5
57	MP4A	Mz	0 1.5
58	MP4A	Y	-4.95 3.5
59	MP4A	My	-.002 3.5
60	MP4A	Mz	0 3.5
61	MP4B	Y	-4.95 1.5
62	MP4B	My	.001 1.5
63	MP4B	Mz	-.002 1.5
64	MP4B	Y	-4.95 3.5
65	MP4B	My	.001 3.5
66	MP4B	Mz	-.002 3.5
67	MP4C	Y	-4.95 1.5



Company :
 Designer :
 Job Number :
 Model Name :

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
68	MP4C	My	.001	1.5
69	MP4C	Mz	.002	1.5
70	MP4C	Y	-4.95	3.5
71	MP4C	My	.001	3.5
72	MP4C	Mz	.002	3.5
73	MP1A	Y	-84.4	1
74	MP1A	My	.042	1
75	MP1A	Mz	0	1
76	MP1B	Y	-84.4	1
77	MP1B	My	-.021	1
78	MP1B	Mz	.037	1
79	MP1C	Y	-84.4	1
80	MP1C	My	-.021	1
81	MP1C	Mz	-.037	1
82	MP2A	Y	-70.3	1
83	MP2A	My	.035	1
84	MP2A	Mz	0	1
85	MP2B	Y	-70.3	1
86	MP2B	My	-.018	1
87	MP2B	Mz	.03	1
88	MP2C	Y	-70.3	1
89	MP2C	My	-.018	1
90	MP2C	Mz	-.03	1

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	Y	-60.727	.5
2	MP3A	My	-.03	.5
3	MP3A	Mz	-.035	.5
4	MP3A	Y	-60.727	4.5
5	MP3A	My	-.03	4.5
6	MP3A	Mz	-.035	4.5
7	MP3B	Y	-60.727	.5
8	MP3B	My	.046	.5
9	MP3B	Mz	-.009	.5
10	MP3B	Y	-60.727	4.5
11	MP3B	My	.046	4.5
12	MP3B	Mz	-.009	4.5
13	MP3C	Y	-60.727	.5
14	MP3C	My	-.015	.5
15	MP3C	Mz	.044	.5
16	MP3C	Y	-60.727	4.5
17	MP3C	My	-.015	4.5
18	MP3C	Mz	.044	4.5
19	MP3A	Y	-60.727	.5
20	MP3A	My	-.03	.5
21	MP3A	Mz	.035	.5
22	MP3A	Y	-60.727	4.5
23	MP3A	My	-.03	4.5
24	MP3A	Mz	.035	4.5
25	MP3B	Y	-60.727	.5
26	MP3B	My	-.015	.5
27	MP3B	Mz	-.044	.5
28	MP3B	Y	-60.727	4.5
29	MP3B	My	-.015	4.5
30	MP3B	Mz	-.044	4.5



Company :
 Designer :
 Job Number :
 Model Name :

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
31	MP3C	Y	-60.727	.5
32	MP3C	My	.046	.5
33	MP3C	Mz	.009	.5
34	MP3C	Y	-60.727	4.5
35	MP3C	My	.046	4.5
36	MP3C	Mz	.009	4.5
37	MP1A	Y	-35.636	1.5
38	MP1A	My	-.018	1.5
39	MP1A	Mz	0	1.5
40	MP1A	Y	-35.636	3.5
41	MP1A	My	-.018	3.5
42	MP1A	Mz	0	3.5
43	MP1B	Y	-35.636	1.5
44	MP1B	My	.009	1.5
45	MP1B	Mz	-.015	1.5
46	MP1B	Y	-35.636	3.5
47	MP1B	My	.009	3.5
48	MP1B	Mz	-.015	3.5
49	MP1C	Y	-35.636	1.5
50	MP1C	My	.009	1.5
51	MP1C	Mz	.015	1.5
52	MP1C	Y	-35.636	3.5
53	MP1C	My	.009	3.5
54	MP1C	Mz	.015	3.5
55	MP4A	Y	-35.702	1.5
56	MP4A	My	-.018	1.5
57	MP4A	Mz	0	1.5
58	MP4A	Y	-35.702	3.5
59	MP4A	My	-.018	3.5
60	MP4A	Mz	0	3.5
61	MP4B	Y	-35.702	1.5
62	MP4B	My	.009	1.5
63	MP4B	Mz	-.015	1.5
64	MP4B	Y	-35.702	3.5
65	MP4B	My	.009	3.5
66	MP4B	Mz	-.015	3.5
67	MP4C	Y	-35.702	1.5
68	MP4C	My	.009	1.5
69	MP4C	Mz	.015	1.5
70	MP4C	Y	-35.702	3.5
71	MP4C	My	.009	3.5
72	MP4C	Mz	.015	3.5
73	MP1A	Y	-44.929	1
74	MP1A	My	.022	1
75	MP1A	Mz	0	1
76	MP1B	Y	-44.929	1
77	MP1B	My	-.011	1
78	MP1B	Mz	.019	1
79	MP1C	Y	-44.929	1
80	MP1C	My	-.011	1
81	MP1C	Mz	-.019	1
82	MP2A	Y	-40.405	1
83	MP2A	My	.02	1
84	MP2A	Mz	0	1
85	MP2B	Y	-40.405	1
86	MP2B	My	-.01	1
87	MP2B	Mz	.017	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
88	MP2C	Y	-40.405	1
89	MP2C	My	-.01	1
90	MP2C	Mz	-.017	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	0	.5
2	MP3A	Z	-158.639	.5
3	MP3A	Mx	.093	.5
4	MP3A	X	0	4.5
5	MP3A	Z	-158.639	4.5
6	MP3A	Mx	.093	4.5
7	MP3B	X	0	.5
8	MP3B	Z	-118.317	.5
9	MP3B	Mx	.017	.5
10	MP3B	X	0	4.5
11	MP3B	Z	-118.317	4.5
12	MP3B	Mx	.017	4.5
13	MP3C	X	0	.5
14	MP3C	Z	-118.317	.5
15	MP3C	Mx	-.086	.5
16	MP3C	X	0	4.5
17	MP3C	Z	-118.317	4.5
18	MP3C	Mx	-.086	4.5
19	MP3A	X	0	.5
20	MP3A	Z	-158.05	.5
21	MP3A	Mx	-.092	.5
22	MP3A	X	0	4.5
23	MP3A	Z	-158.05	4.5
24	MP3A	Mx	-.092	4.5
25	MP3B	X	0	.5
26	MP3B	Z	-118.169	.5
27	MP3B	Mx	.086	.5
28	MP3B	X	0	4.5
29	MP3B	Z	-118.169	4.5
30	MP3B	Mx	.086	4.5
31	MP3C	X	0	.5
32	MP3C	Z	-118.169	.5
33	MP3C	Mx	-.017	.5
34	MP3C	X	0	4.5
35	MP3C	Z	-118.169	4.5
36	MP3C	Mx	-.017	4.5
37	MP1A	X	0	1.5
38	MP1A	Z	-92.001	1.5
39	MP1A	Mx	0	1.5
40	MP1A	X	0	3.5
41	MP1A	Z	-92.001	3.5
42	MP1A	Mx	0	3.5
43	MP1B	X	0	1.5
44	MP1B	Z	-50.014	1.5
45	MP1B	Mx	.022	1.5
46	MP1B	X	0	3.5
47	MP1B	Z	-50.014	3.5
48	MP1B	Mx	.022	3.5
49	MP1C	X	0	1.5
50	MP1C	Z	-50.014	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
51	MP1C	Mx	-.022	1.5
52	MP1C	X	0	3.5
53	MP1C	Z	-50.014	3.5
54	MP1C	Mx	-.022	3.5
55	MP4A	X	0	1.5
56	MP4A	Z	-92.392	1.5
57	MP4A	Mx	0	1.5
58	MP4A	X	0	3.5
59	MP4A	Z	-92.392	3.5
60	MP4A	Mx	0	3.5
61	MP4B	X	0	1.5
62	MP4B	Z	-60.05	1.5
63	MP4B	Mx	.026	1.5
64	MP4B	X	0	3.5
65	MP4B	Z	-60.05	3.5
66	MP4B	Mx	.026	3.5
67	MP4C	X	0	1.5
68	MP4C	Z	-60.05	1.5
69	MP4C	Mx	-.026	1.5
70	MP4C	X	0	3.5
71	MP4C	Z	-60.05	3.5
72	MP4C	Mx	-.026	3.5
73	MP1A	X	0	1
74	MP1A	Z	-73.209	1
75	MP1A	Mx	0	1
76	MP1B	X	0	1
77	MP1B	Z	-55.005	1
78	MP1B	Mx	-.024	1
79	MP1C	X	0	1
80	MP1C	Z	-55.005	1
81	MP1C	Mx	.024	1
82	MP2A	X	0	1
83	MP2A	Z	-73.209	1
84	MP2A	Mx	0	1
85	MP2B	X	0	1
86	MP2B	Z	-48.031	1
87	MP2B	Mx	-.021	1
88	MP2C	X	0	1
89	MP2C	Z	-48.031	1
90	MP2C	Mx	.021	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	72.599	.5
2	MP3A	Z	-125.745	.5
3	MP3A	Mx	.037	.5
4	MP3A	X	72.599	4.5
5	MP3A	Z	-125.745	4.5
6	MP3A	Mx	.037	4.5
7	MP3B	X	52.438	.5
8	MP3B	Z	-90.825	.5
9	MP3B	Mx	.052	.5
10	MP3B	X	52.438	4.5
11	MP3B	Z	-90.825	4.5
12	MP3B	Mx	.052	4.5
13	MP3C	X	72.599	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
14	MP3C	Z	-125.745	.5
15	MP3C	Mx	-.11	.5
16	MP3C	X	72.599	4.5
17	MP3C	Z	-125.745	4.5
18	MP3C	Mx	-.11	4.5
19	MP3A	X	72.378	.5
20	MP3A	Z	-125.363	.5
21	MP3A	Mx	-.109	.5
22	MP3A	X	72.378	4.5
23	MP3A	Z	-125.363	4.5
24	MP3A	Mx	-.109	4.5
25	MP3B	X	52.438	.5
26	MP3B	Z	-90.825	.5
27	MP3B	Mx	.052	.5
28	MP3B	X	52.438	4.5
29	MP3B	Z	-90.825	4.5
30	MP3B	Mx	.052	4.5
31	MP3C	X	72.378	.5
32	MP3C	Z	-125.363	.5
33	MP3C	Mx	.037	.5
34	MP3C	X	72.378	4.5
35	MP3C	Z	-125.363	4.5
36	MP3C	Mx	.037	4.5
37	MP1A	X	39.002	1.5
38	MP1A	Z	-67.554	1.5
39	MP1A	Mx	-.02	1.5
40	MP1A	X	39.002	3.5
41	MP1A	Z	-67.554	3.5
42	MP1A	Mx	-.02	3.5
43	MP1B	X	18.009	1.5
44	MP1B	Z	-31.193	1.5
45	MP1B	Mx	.018	1.5
46	MP1B	X	18.009	3.5
47	MP1B	Z	-31.193	3.5
48	MP1B	Mx	.018	3.5
49	MP1C	X	39.002	1.5
50	MP1C	Z	-67.554	1.5
51	MP1C	Mx	-.02	1.5
52	MP1C	X	39.002	3.5
53	MP1C	Z	-67.554	3.5
54	MP1C	Mx	-.02	3.5
55	MP4A	X	40.806	1.5
56	MP4A	Z	-70.678	1.5
57	MP4A	Mx	-.02	1.5
58	MP4A	X	40.806	3.5
59	MP4A	Z	-70.678	3.5
60	MP4A	Mx	-.02	3.5
61	MP4B	X	24.635	1.5
62	MP4B	Z	-42.669	1.5
63	MP4B	Mx	.025	1.5
64	MP4B	X	24.635	3.5
65	MP4B	Z	-42.669	3.5
66	MP4B	Mx	.025	3.5
67	MP4C	X	40.806	1.5
68	MP4C	Z	-70.678	1.5
69	MP4C	Mx	-.02	1.5
70	MP4C	X	40.806	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
71	MP4C	Z	-70.678	3.5
72	MP4C	Mx	-.02	3.5
73	MP1A	X	33.57	1
74	MP1A	Z	-58.146	1
75	MP1A	Mx	.017	1
76	MP1B	X	24.468	1
77	MP1B	Z	-42.38	1
78	MP1B	Mx	-.024	1
79	MP1C	X	33.57	1
80	MP1C	Z	-58.146	1
81	MP1C	Mx	.017	1
82	MP2A	X	32.408	1
83	MP2A	Z	-56.133	1
84	MP2A	Mx	.016	1
85	MP2B	X	19.819	1
86	MP2B	Z	-34.328	1
87	MP2B	Mx	-.02	1
88	MP2C	X	32.408	1
89	MP2C	Z	-56.133	1
90	MP2C	Mx	.016	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	102.465	.5
2	MP3A	Z	-59.158	.5
3	MP3A	Mx	-.017	.5
4	MP3A	X	102.465	4.5
5	MP3A	Z	-59.158	4.5
6	MP3A	Mx	-.017	4.5
7	MP3B	X	102.465	.5
8	MP3B	Z	-59.158	.5
9	MP3B	Mx	.086	.5
10	MP3B	X	102.465	4.5
11	MP3B	Z	-59.158	4.5
12	MP3B	Mx	.086	4.5
13	MP3C	X	137.385	.5
14	MP3C	Z	-79.32	.5
15	MP3C	Mx	-.093	.5
16	MP3C	X	137.385	4.5
17	MP3C	Z	-79.32	4.5
18	MP3C	Mx	-.093	4.5
19	MP3A	X	102.338	.5
20	MP3A	Z	-59.085	.5
21	MP3A	Mx	-.086	.5
22	MP3A	X	102.338	4.5
23	MP3A	Z	-59.085	4.5
24	MP3A	Mx	-.086	4.5
25	MP3B	X	102.338	.5
26	MP3B	Z	-59.085	.5
27	MP3B	Mx	.017	.5
28	MP3B	X	102.338	4.5
29	MP3B	Z	-59.085	4.5
30	MP3B	Mx	.017	4.5
31	MP3C	X	136.875	.5
32	MP3C	Z	-79.025	.5
33	MP3C	Mx	.092	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
34	MP3C	X	136.875	4.5
35	MP3C	Z	-79.025	4.5
36	MP3C	Mx	.092	4.5
37	MP1A	X	43.313	1.5
38	MP1A	Z	-25.007	1.5
39	MP1A	Mx	-.022	1.5
40	MP1A	X	43.313	3.5
41	MP1A	Z	-25.007	3.5
42	MP1A	Mx	-.022	3.5
43	MP1B	X	43.313	1.5
44	MP1B	Z	-25.007	1.5
45	MP1B	Mx	.022	1.5
46	MP1B	X	43.313	3.5
47	MP1B	Z	-25.007	3.5
48	MP1B	Mx	.022	3.5
49	MP1C	X	79.675	1.5
50	MP1C	Z	-46	1.5
51	MP1C	Mx	0	1.5
52	MP1C	X	79.675	3.5
53	MP1C	Z	-46	3.5
54	MP1C	Mx	0	3.5
55	MP4A	X	52.005	1.5
56	MP4A	Z	-30.025	1.5
57	MP4A	Mx	-.026	1.5
58	MP4A	X	52.005	3.5
59	MP4A	Z	-30.025	3.5
60	MP4A	Mx	-.026	3.5
61	MP4B	X	52.005	1.5
62	MP4B	Z	-30.025	1.5
63	MP4B	Mx	.026	1.5
64	MP4B	X	52.005	3.5
65	MP4B	Z	-30.025	3.5
66	MP4B	Mx	.026	3.5
67	MP4C	X	80.014	1.5
68	MP4C	Z	-46.196	1.5
69	MP4C	Mx	0	1.5
70	MP4C	X	80.014	3.5
71	MP4C	Z	-46.196	3.5
72	MP4C	Mx	0	3.5
73	MP1A	X	47.635	1
74	MP1A	Z	-27.502	1
75	MP1A	Mx	.024	1
76	MP1B	X	47.635	1
77	MP1B	Z	-27.502	1
78	MP1B	Mx	-.024	1
79	MP1C	X	63.401	1
80	MP1C	Z	-36.604	1
81	MP1C	Mx	0	1
82	MP2A	X	41.596	1
83	MP2A	Z	-24.016	1
84	MP2A	Mx	.021	1
85	MP2B	X	41.596	1
86	MP2B	Z	-24.016	1
87	MP2B	Mx	-.021	1
88	MP2C	X	63.401	1
89	MP2C	Z	-36.604	1
90	MP2C	Mx	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	104.876	.5
2	MP3A	Z	0	.5
3	MP3A	Mx	-.052	.5
4	MP3A	X	104.876	4.5
5	MP3A	Z	0	4.5
6	MP3A	Mx	-.052	4.5
7	MP3B	X	145.198	.5
8	MP3B	Z	0	.5
9	MP3B	Mx	.11	.5
10	MP3B	X	145.198	4.5
11	MP3B	Z	0	4.5
12	MP3B	Mx	.11	4.5
13	MP3C	X	145.198	.5
14	MP3C	Z	0	.5
15	MP3C	Mx	-.037	.5
16	MP3C	X	145.198	4.5
17	MP3C	Z	0	4.5
18	MP3C	Mx	-.037	4.5
19	MP3A	X	104.876	.5
20	MP3A	Z	0	.5
21	MP3A	Mx	-.052	.5
22	MP3A	X	104.876	4.5
23	MP3A	Z	0	4.5
24	MP3A	Mx	-.052	4.5
25	MP3B	X	144.756	.5
26	MP3B	Z	0	.5
27	MP3B	Mx	-.037	.5
28	MP3B	X	144.756	4.5
29	MP3B	Z	0	4.5
30	MP3B	Mx	-.037	4.5
31	MP3C	X	144.756	.5
32	MP3C	Z	0	.5
33	MP3C	Mx	.109	.5
34	MP3C	X	144.756	4.5
35	MP3C	Z	0	4.5
36	MP3C	Mx	.109	4.5
37	MP1A	X	36.018	1.5
38	MP1A	Z	0	1.5
39	MP1A	Mx	-.018	1.5
40	MP1A	X	36.018	3.5
41	MP1A	Z	0	3.5
42	MP1A	Mx	-.018	3.5
43	MP1B	X	78.005	1.5
44	MP1B	Z	0	1.5
45	MP1B	Mx	.02	1.5
46	MP1B	X	78.005	3.5
47	MP1B	Z	0	3.5
48	MP1B	Mx	.02	3.5
49	MP1C	X	78.005	1.5
50	MP1C	Z	0	1.5
51	MP1C	Mx	.02	1.5
52	MP1C	X	78.005	3.5
53	MP1C	Z	0	3.5
54	MP1C	Mx	.02	3.5
55	MP4A	X	49.27	1.5
56	MP4A	Z	0	1.5
57	MP4A	Mx	-.025	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP4A	X	49.27	3.5
59	MP4A	Z	0	3.5
60	MP4A	Mx	-.025	3.5
61	MP4B	X	81.611	1.5
62	MP4B	Z	0	1.5
63	MP4B	Mx	.02	1.5
64	MP4B	X	81.611	3.5
65	MP4B	Z	0	3.5
66	MP4B	Mx	.02	3.5
67	MP4C	X	81.611	1.5
68	MP4C	Z	0	1.5
69	MP4C	Mx	.02	1.5
70	MP4C	X	81.611	3.5
71	MP4C	Z	0	3.5
72	MP4C	Mx	.02	3.5
73	MP1A	X	48.936	1
74	MP1A	Z	0	1
75	MP1A	Mx	.024	1
76	MP1B	X	67.141	1
77	MP1B	Z	0	1
78	MP1B	Mx	-.017	1
79	MP1C	X	67.141	1
80	MP1C	Z	0	1
81	MP1C	Mx	-.017	1
82	MP2A	X	39.639	1
83	MP2A	Z	0	1
84	MP2A	Mx	.02	1
85	MP2B	X	64.816	1
86	MP2B	Z	0	1
87	MP2B	Mx	-.016	1
88	MP2C	X	64.816	1
89	MP2C	Z	0	1
90	MP2C	Mx	-.016	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	102.465	.5
2	MP3A	Z	59.158	.5
3	MP3A	Mx	-.086	.5
4	MP3A	X	102.465	4.5
5	MP3A	Z	59.158	4.5
6	MP3A	Mx	-.086	4.5
7	MP3B	X	137.385	.5
8	MP3B	Z	79.32	.5
9	MP3B	Mx	.093	.5
10	MP3B	X	137.385	4.5
11	MP3B	Z	79.32	4.5
12	MP3B	Mx	.093	4.5
13	MP3C	X	102.465	.5
14	MP3C	Z	59.158	.5
15	MP3C	Mx	.017	.5
16	MP3C	X	102.465	4.5
17	MP3C	Z	59.158	4.5
18	MP3C	Mx	.017	4.5
19	MP3A	X	102.338	.5
20	MP3A	Z	59.085	.5

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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
21	MP3A	Mx	.5
22	MP3A	X	4.5
23	MP3A	Z	4.5
24	MP3A	Mx	4.5
25	MP3B	X	.5
26	MP3B	Z	.5
27	MP3B	Mx	.5
28	MP3B	X	4.5
29	MP3B	Z	4.5
30	MP3B	Mx	4.5
31	MP3C	X	.5
32	MP3C	Z	.5
33	MP3C	Mx	.5
34	MP3C	X	4.5
35	MP3C	Z	4.5
36	MP3C	Mx	4.5
37	MP1A	X	1.5
38	MP1A	Z	1.5
39	MP1A	Mx	1.5
40	MP1A	X	3.5
41	MP1A	Z	3.5
42	MP1A	Mx	3.5
43	MP1B	X	1.5
44	MP1B	Z	1.5
45	MP1B	Mx	1.5
46	MP1B	X	3.5
47	MP1B	Z	3.5
48	MP1B	Mx	3.5
49	MP1C	X	1.5
50	MP1C	Z	1.5
51	MP1C	Mx	1.5
52	MP1C	X	3.5
53	MP1C	Z	3.5
54	MP1C	Mx	3.5
55	MP4A	X	1.5
56	MP4A	Z	1.5
57	MP4A	Mx	1.5
58	MP4A	X	3.5
59	MP4A	Z	3.5
60	MP4A	Mx	3.5
61	MP4B	X	1.5
62	MP4B	Z	1.5
63	MP4B	Mx	1.5
64	MP4B	X	3.5
65	MP4B	Z	3.5
66	MP4B	Mx	3.5
67	MP4C	X	1.5
68	MP4C	Z	1.5
69	MP4C	Mx	1.5
70	MP4C	X	3.5
71	MP4C	Z	3.5
72	MP4C	Mx	3.5
73	MP1A	X	1
74	MP1A	Z	1
75	MP1A	Mx	1
76	MP1B	X	1
77	MP1B	Z	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
78	MP1B	Mx	0	1
79	MP1C	X	47.635	1
80	MP1C	Z	27.502	1
81	MP1C	Mx	-.024	1
82	MP2A	X	41.596	1
83	MP2A	Z	24.016	1
84	MP2A	Mx	.021	1
85	MP2B	X	63.401	1
86	MP2B	Z	36.604	1
87	MP2B	Mx	0	1
88	MP2C	X	41.596	1
89	MP2C	Z	24.016	1
90	MP2C	Mx	-.021	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	72.599	.5
2	MP3A	Z	125.745	.5
3	MP3A	Mx	-.11	.5
4	MP3A	X	72.599	4.5
5	MP3A	Z	125.745	4.5
6	MP3A	Mx	-.11	4.5
7	MP3B	X	72.599	.5
8	MP3B	Z	125.745	.5
9	MP3B	Mx	.037	.5
10	MP3B	X	72.599	4.5
11	MP3B	Z	125.745	4.5
12	MP3B	Mx	.037	4.5
13	MP3C	X	52.438	.5
14	MP3C	Z	90.825	.5
15	MP3C	Mx	.052	.5
16	MP3C	X	52.438	4.5
17	MP3C	Z	90.825	4.5
18	MP3C	Mx	.052	4.5
19	MP3A	X	72.378	.5
20	MP3A	Z	125.363	.5
21	MP3A	Mx	.037	.5
22	MP3A	X	72.378	4.5
23	MP3A	Z	125.363	4.5
24	MP3A	Mx	.037	4.5
25	MP3B	X	72.378	.5
26	MP3B	Z	125.363	.5
27	MP3B	Mx	-.109	.5
28	MP3B	X	72.378	4.5
29	MP3B	Z	125.363	4.5
30	MP3B	Mx	-.109	4.5
31	MP3C	X	52.438	.5
32	MP3C	Z	90.825	.5
33	MP3C	Mx	.052	.5
34	MP3C	X	52.438	4.5
35	MP3C	Z	90.825	4.5
36	MP3C	Mx	.052	4.5
37	MP1A	X	39.002	1.5
38	MP1A	Z	67.554	1.5
39	MP1A	Mx	-.02	1.5
40	MP1A	X	39.002	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
41	MP1A	Z	67.554	3.5
42	MP1A	Mx	-.02	3.5
43	MP1B	X	39.002	1.5
44	MP1B	Z	67.554	1.5
45	MP1B	Mx	-.02	1.5
46	MP1B	X	39.002	3.5
47	MP1B	Z	67.554	3.5
48	MP1B	Mx	-.02	3.5
49	MP1C	X	18.009	1.5
50	MP1C	Z	31.193	1.5
51	MP1C	Mx	.018	1.5
52	MP1C	X	18.009	3.5
53	MP1C	Z	31.193	3.5
54	MP1C	Mx	.018	3.5
55	MP4A	X	40.806	1.5
56	MP4A	Z	70.678	1.5
57	MP4A	Mx	-.02	1.5
58	MP4A	X	40.806	3.5
59	MP4A	Z	70.678	3.5
60	MP4A	Mx	-.02	3.5
61	MP4B	X	40.806	1.5
62	MP4B	Z	70.678	1.5
63	MP4B	Mx	-.02	1.5
64	MP4B	X	40.806	3.5
65	MP4B	Z	70.678	3.5
66	MP4B	Mx	-.02	3.5
67	MP4C	X	24.635	1.5
68	MP4C	Z	42.669	1.5
69	MP4C	Mx	.025	1.5
70	MP4C	X	24.635	3.5
71	MP4C	Z	42.669	3.5
72	MP4C	Mx	.025	3.5
73	MP1A	X	33.57	1
74	MP1A	Z	58.146	1
75	MP1A	Mx	.017	1
76	MP1B	X	33.57	1
77	MP1B	Z	58.146	1
78	MP1B	Mx	.017	1
79	MP1C	X	24.468	1
80	MP1C	Z	42.38	1
81	MP1C	Mx	-.024	1
82	MP2A	X	32.408	1
83	MP2A	Z	56.133	1
84	MP2A	Mx	.016	1
85	MP2B	X	32.408	1
86	MP2B	Z	56.133	1
87	MP2B	Mx	.016	1
88	MP2C	X	19.819	1
89	MP2C	Z	34.328	1
90	MP2C	Mx	-.02	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	0	.5
2	MP3A	Z	158.639	.5
3	MP3A	Mx	-.093	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
4	MP3A	X	0	4.5
5	MP3A	Z	158.639	4.5
6	MP3A	Mx	-.093	4.5
7	MP3B	X	0	.5
8	MP3B	Z	118.317	.5
9	MP3B	Mx	-.017	.5
10	MP3B	X	0	4.5
11	MP3B	Z	118.317	4.5
12	MP3B	Mx	-.017	4.5
13	MP3C	X	0	.5
14	MP3C	Z	118.317	.5
15	MP3C	Mx	.086	.5
16	MP3C	X	0	4.5
17	MP3C	Z	118.317	4.5
18	MP3C	Mx	.086	4.5
19	MP3A	X	0	.5
20	MP3A	Z	158.05	.5
21	MP3A	Mx	.092	.5
22	MP3A	X	0	4.5
23	MP3A	Z	158.05	4.5
24	MP3A	Mx	.092	4.5
25	MP3B	X	0	.5
26	MP3B	Z	118.169	.5
27	MP3B	Mx	-.086	.5
28	MP3B	X	0	4.5
29	MP3B	Z	118.169	4.5
30	MP3B	Mx	-.086	4.5
31	MP3C	X	0	.5
32	MP3C	Z	118.169	.5
33	MP3C	Mx	.017	.5
34	MP3C	X	0	4.5
35	MP3C	Z	118.169	4.5
36	MP3C	Mx	.017	4.5
37	MP1A	X	0	1.5
38	MP1A	Z	92.001	1.5
39	MP1A	Mx	0	1.5
40	MP1A	X	0	3.5
41	MP1A	Z	92.001	3.5
42	MP1A	Mx	0	3.5
43	MP1B	X	0	1.5
44	MP1B	Z	50.014	1.5
45	MP1B	Mx	-.022	1.5
46	MP1B	X	0	3.5
47	MP1B	Z	50.014	3.5
48	MP1B	Mx	-.022	3.5
49	MP1C	X	0	1.5
50	MP1C	Z	50.014	1.5
51	MP1C	Mx	.022	1.5
52	MP1C	X	0	3.5
53	MP1C	Z	50.014	3.5
54	MP1C	Mx	.022	3.5
55	MP4A	X	0	1.5
56	MP4A	Z	92.392	1.5
57	MP4A	Mx	0	1.5
58	MP4A	X	0	3.5
59	MP4A	Z	92.392	3.5
60	MP4A	Mx	0	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
61	MP4B	X	0	1.5
62	MP4B	Z	60.05	1.5
63	MP4B	Mx	-.026	1.5
64	MP4B	X	0	3.5
65	MP4B	Z	60.05	3.5
66	MP4B	Mx	-.026	3.5
67	MP4C	X	0	1.5
68	MP4C	Z	60.05	1.5
69	MP4C	Mx	.026	1.5
70	MP4C	X	0	3.5
71	MP4C	Z	60.05	3.5
72	MP4C	Mx	.026	3.5
73	MP1A	X	0	1
74	MP1A	Z	73.209	1
75	MP1A	Mx	0	1
76	MP1B	X	0	1
77	MP1B	Z	55.005	1
78	MP1B	Mx	.024	1
79	MP1C	X	0	1
80	MP1C	Z	55.005	1
81	MP1C	Mx	-.024	1
82	MP2A	X	0	1
83	MP2A	Z	73.209	1
84	MP2A	Mx	0	1
85	MP2B	X	0	1
86	MP2B	Z	48.031	1
87	MP2B	Mx	.021	1
88	MP2C	X	0	1
89	MP2C	Z	48.031	1
90	MP2C	Mx	-.021	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-72.599	.5
2	MP3A	Z	125.745	.5
3	MP3A	Mx	-.037	.5
4	MP3A	X	-72.599	4.5
5	MP3A	Z	125.745	4.5
6	MP3A	Mx	-.037	4.5
7	MP3B	X	-52.438	.5
8	MP3B	Z	90.825	.5
9	MP3B	Mx	-.052	.5
10	MP3B	X	-52.438	4.5
11	MP3B	Z	90.825	4.5
12	MP3B	Mx	-.052	4.5
13	MP3C	X	-72.599	.5
14	MP3C	Z	125.745	.5
15	MP3C	Mx	.11	.5
16	MP3C	X	-72.599	4.5
17	MP3C	Z	125.745	4.5
18	MP3C	Mx	.11	4.5
19	MP3A	X	-72.378	.5
20	MP3A	Z	125.363	.5
21	MP3A	Mx	.109	.5
22	MP3A	X	-72.378	4.5
23	MP3A	Z	125.363	4.5

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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
24	MP3A	Mx	.109 4.5
25	MP3B	X	-52.438 .5
26	MP3B	Z	90.825 .5
27	MP3B	Mx	-.052 .5
28	MP3B	X	-52.438 4.5
29	MP3B	Z	90.825 4.5
30	MP3B	Mx	-.052 4.5
31	MP3C	X	-72.378 .5
32	MP3C	Z	125.363 .5
33	MP3C	Mx	-.037 .5
34	MP3C	X	-72.378 4.5
35	MP3C	Z	125.363 4.5
36	MP3C	Mx	-.037 4.5
37	MP1A	X	-39.002 1.5
38	MP1A	Z	67.554 1.5
39	MP1A	Mx	.02 1.5
40	MP1A	X	-39.002 3.5
41	MP1A	Z	67.554 3.5
42	MP1A	Mx	.02 3.5
43	MP1B	X	-18.009 1.5
44	MP1B	Z	31.193 1.5
45	MP1B	Mx	-.018 1.5
46	MP1B	X	-18.009 3.5
47	MP1B	Z	31.193 3.5
48	MP1B	Mx	-.018 3.5
49	MP1C	X	-39.002 1.5
50	MP1C	Z	67.554 1.5
51	MP1C	Mx	.02 1.5
52	MP1C	X	-39.002 3.5
53	MP1C	Z	67.554 3.5
54	MP1C	Mx	.02 3.5
55	MP4A	X	-40.806 1.5
56	MP4A	Z	70.678 1.5
57	MP4A	Mx	.02 1.5
58	MP4A	X	-40.806 3.5
59	MP4A	Z	70.678 3.5
60	MP4A	Mx	.02 3.5
61	MP4B	X	-24.635 1.5
62	MP4B	Z	42.669 1.5
63	MP4B	Mx	-.025 1.5
64	MP4B	X	-24.635 3.5
65	MP4B	Z	42.669 3.5
66	MP4B	Mx	-.025 3.5
67	MP4C	X	-40.806 1.5
68	MP4C	Z	70.678 1.5
69	MP4C	Mx	.02 1.5
70	MP4C	X	-40.806 3.5
71	MP4C	Z	70.678 3.5
72	MP4C	Mx	.02 3.5
73	MP1A	X	-33.57 1
74	MP1A	Z	58.146 1
75	MP1A	Mx	-.017 1
76	MP1B	X	-24.468 1
77	MP1B	Z	42.38 1
78	MP1B	Mx	.024 1
79	MP1C	X	-33.57 1
80	MP1C	Z	58.146 1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
81	MP1C	Mx	-.017	1
82	MP2A	X	-32.408	1
83	MP2A	Z	56.133	1
84	MP2A	Mx	-.016	1
85	MP2B	X	-19.819	1
86	MP2B	Z	34.328	1
87	MP2B	Mx	.02	1
88	MP2C	X	-32.408	1
89	MP2C	Z	56.133	1
90	MP2C	Mx	-.016	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-102.465	.5
2	MP3A	Z	59.158	.5
3	MP3A	Mx	.017	.5
4	MP3A	X	-102.465	4.5
5	MP3A	Z	59.158	4.5
6	MP3A	Mx	.017	4.5
7	MP3B	X	-102.465	.5
8	MP3B	Z	59.158	.5
9	MP3B	Mx	-.086	.5
10	MP3B	X	-102.465	4.5
11	MP3B	Z	59.158	4.5
12	MP3B	Mx	-.086	4.5
13	MP3C	X	-137.385	.5
14	MP3C	Z	79.32	.5
15	MP3C	Mx	.093	.5
16	MP3C	X	-137.385	4.5
17	MP3C	Z	79.32	4.5
18	MP3C	Mx	.093	4.5
19	MP3A	X	-102.338	.5
20	MP3A	Z	59.085	.5
21	MP3A	Mx	.086	.5
22	MP3A	X	-102.338	4.5
23	MP3A	Z	59.085	4.5
24	MP3A	Mx	.086	4.5
25	MP3B	X	-102.338	.5
26	MP3B	Z	59.085	.5
27	MP3B	Mx	-.017	.5
28	MP3B	X	-102.338	4.5
29	MP3B	Z	59.085	4.5
30	MP3B	Mx	-.017	4.5
31	MP3C	X	-136.875	.5
32	MP3C	Z	79.025	.5
33	MP3C	Mx	-.092	.5
34	MP3C	X	-136.875	4.5
35	MP3C	Z	79.025	4.5
36	MP3C	Mx	-.092	4.5
37	MP1A	X	-43.313	1.5
38	MP1A	Z	25.007	1.5
39	MP1A	Mx	.022	1.5
40	MP1A	X	-43.313	3.5
41	MP1A	Z	25.007	3.5
42	MP1A	Mx	.022	3.5
43	MP1B	X	-43.313	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
44	MP1B	Z	25.007	1.5
45	MP1B	Mx	-.022	1.5
46	MP1B	X	-43.313	3.5
47	MP1B	Z	25.007	3.5
48	MP1B	Mx	-.022	3.5
49	MP1C	X	-79.675	1.5
50	MP1C	Z	46	1.5
51	MP1C	Mx	0	1.5
52	MP1C	X	-79.675	3.5
53	MP1C	Z	46	3.5
54	MP1C	Mx	0	3.5
55	MP4A	X	-52.005	1.5
56	MP4A	Z	30.025	1.5
57	MP4A	Mx	.026	1.5
58	MP4A	X	-52.005	3.5
59	MP4A	Z	30.025	3.5
60	MP4A	Mx	.026	3.5
61	MP4B	X	-52.005	1.5
62	MP4B	Z	30.025	1.5
63	MP4B	Mx	-.026	1.5
64	MP4B	X	-52.005	3.5
65	MP4B	Z	30.025	3.5
66	MP4B	Mx	-.026	3.5
67	MP4C	X	-80.014	1.5
68	MP4C	Z	46.196	1.5
69	MP4C	Mx	0	1.5
70	MP4C	X	-80.014	3.5
71	MP4C	Z	46.196	3.5
72	MP4C	Mx	0	3.5
73	MP1A	X	-47.635	1
74	MP1A	Z	27.502	1
75	MP1A	Mx	-.024	1
76	MP1B	X	-47.635	1
77	MP1B	Z	27.502	1
78	MP1B	Mx	.024	1
79	MP1C	X	-63.401	1
80	MP1C	Z	36.604	1
81	MP1C	Mx	0	1
82	MP2A	X	-41.596	1
83	MP2A	Z	24.016	1
84	MP2A	Mx	-.021	1
85	MP2B	X	-41.596	1
86	MP2B	Z	24.016	1
87	MP2B	Mx	.021	1
88	MP2C	X	-63.401	1
89	MP2C	Z	36.604	1
90	MP2C	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-104.876	.5
2	MP3A	Z	0	.5
3	MP3A	Mx	.052	.5
4	MP3A	X	-104.876	4.5
5	MP3A	Z	0	4.5
6	MP3A	Mx	.052	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
7	MP3B	X	-145.198	.5
8	MP3B	Z	0	.5
9	MP3B	Mx	-.11	.5
10	MP3B	X	-145.198	4.5
11	MP3B	Z	0	4.5
12	MP3B	Mx	-.11	4.5
13	MP3C	X	-145.198	.5
14	MP3C	Z	0	.5
15	MP3C	Mx	.037	.5
16	MP3C	X	-145.198	4.5
17	MP3C	Z	0	4.5
18	MP3C	Mx	.037	4.5
19	MP3A	X	-104.876	.5
20	MP3A	Z	0	.5
21	MP3A	Mx	.052	.5
22	MP3A	X	-104.876	4.5
23	MP3A	Z	0	4.5
24	MP3A	Mx	.052	4.5
25	MP3B	X	-144.756	.5
26	MP3B	Z	0	.5
27	MP3B	Mx	.037	.5
28	MP3B	X	-144.756	4.5
29	MP3B	Z	0	4.5
30	MP3B	Mx	.037	4.5
31	MP3C	X	-144.756	.5
32	MP3C	Z	0	.5
33	MP3C	Mx	-.109	.5
34	MP3C	X	-144.756	4.5
35	MP3C	Z	0	4.5
36	MP3C	Mx	-.109	4.5
37	MP1A	X	-36.018	1.5
38	MP1A	Z	0	1.5
39	MP1A	Mx	.018	1.5
40	MP1A	X	-36.018	3.5
41	MP1A	Z	0	3.5
42	MP1A	Mx	.018	3.5
43	MP1B	X	-78.005	1.5
44	MP1B	Z	0	1.5
45	MP1B	Mx	-.02	1.5
46	MP1B	X	-78.005	3.5
47	MP1B	Z	0	3.5
48	MP1B	Mx	-.02	3.5
49	MP1C	X	-78.005	1.5
50	MP1C	Z	0	1.5
51	MP1C	Mx	-.02	1.5
52	MP1C	X	-78.005	3.5
53	MP1C	Z	0	3.5
54	MP1C	Mx	-.02	3.5
55	MP4A	X	-49.27	1.5
56	MP4A	Z	0	1.5
57	MP4A	Mx	.025	1.5
58	MP4A	X	-49.27	3.5
59	MP4A	Z	0	3.5
60	MP4A	Mx	.025	3.5
61	MP4B	X	-81.611	1.5
62	MP4B	Z	0	1.5
63	MP4B	Mx	-.02	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
64	MP4B	X	-81.611	3.5
65	MP4B	Z	0	3.5
66	MP4B	Mx	-.02	3.5
67	MP4C	X	-81.611	1.5
68	MP4C	Z	0	1.5
69	MP4C	Mx	-.02	1.5
70	MP4C	X	-81.611	3.5
71	MP4C	Z	0	3.5
72	MP4C	Mx	-.02	3.5
73	MP1A	X	-48.936	1
74	MP1A	Z	0	1
75	MP1A	Mx	-.024	1
76	MP1B	X	-67.141	1
77	MP1B	Z	0	1
78	MP1B	Mx	.017	1
79	MP1C	X	-67.141	1
80	MP1C	Z	0	1
81	MP1C	Mx	.017	1
82	MP2A	X	-39.639	1
83	MP2A	Z	0	1
84	MP2A	Mx	-.02	1
85	MP2B	X	-64.816	1
86	MP2B	Z	0	1
87	MP2B	Mx	.016	1
88	MP2C	X	-64.816	1
89	MP2C	Z	0	1
90	MP2C	Mx	.016	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-102.465	.5
2	MP3A	Z	-59.158	.5
3	MP3A	Mx	.086	.5
4	MP3A	X	-102.465	4.5
5	MP3A	Z	-59.158	4.5
6	MP3A	Mx	.086	4.5
7	MP3B	X	-137.385	.5
8	MP3B	Z	-79.32	.5
9	MP3B	Mx	-.093	.5
10	MP3B	X	-137.385	4.5
11	MP3B	Z	-79.32	4.5
12	MP3B	Mx	-.093	4.5
13	MP3C	X	-102.465	.5
14	MP3C	Z	-59.158	.5
15	MP3C	Mx	-.017	.5
16	MP3C	X	-102.465	4.5
17	MP3C	Z	-59.158	4.5
18	MP3C	Mx	-.017	4.5
19	MP3A	X	-102.338	.5
20	MP3A	Z	-59.085	.5
21	MP3A	Mx	.017	.5
22	MP3A	X	-102.338	4.5
23	MP3A	Z	-59.085	4.5
24	MP3A	Mx	.017	4.5
25	MP3B	X	-136.875	.5
26	MP3B	Z	-79.025	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
27	MP3B	Mx	.092	.5
28	MP3B	X	-136.875	4.5
29	MP3B	Z	-79.025	4.5
30	MP3B	Mx	.092	4.5
31	MP3C	X	-102.338	.5
32	MP3C	Z	-59.085	.5
33	MP3C	Mx	-.086	.5
34	MP3C	X	-102.338	4.5
35	MP3C	Z	-59.085	4.5
36	MP3C	Mx	-.086	4.5
37	MP1A	X	-43.313	1.5
38	MP1A	Z	-25.007	1.5
39	MP1A	Mx	.022	1.5
40	MP1A	X	-43.313	3.5
41	MP1A	Z	-25.007	3.5
42	MP1A	Mx	.022	3.5
43	MP1B	X	-79.675	1.5
44	MP1B	Z	-46	1.5
45	MP1B	Mx	0	1.5
46	MP1B	X	-79.675	3.5
47	MP1B	Z	-46	3.5
48	MP1B	Mx	0	3.5
49	MP1C	X	-43.313	1.5
50	MP1C	Z	-25.007	1.5
51	MP1C	Mx	-.022	1.5
52	MP1C	X	-43.313	3.5
53	MP1C	Z	-25.007	3.5
54	MP1C	Mx	-.022	3.5
55	MP4A	X	-52.005	1.5
56	MP4A	Z	-30.025	1.5
57	MP4A	Mx	.026	1.5
58	MP4A	X	-52.005	3.5
59	MP4A	Z	-30.025	3.5
60	MP4A	Mx	.026	3.5
61	MP4B	X	-80.014	1.5
62	MP4B	Z	-46.196	1.5
63	MP4B	Mx	0	1.5
64	MP4B	X	-80.014	3.5
65	MP4B	Z	-46.196	3.5
66	MP4B	Mx	0	3.5
67	MP4C	X	-52.005	1.5
68	MP4C	Z	-30.025	1.5
69	MP4C	Mx	-.026	1.5
70	MP4C	X	-52.005	3.5
71	MP4C	Z	-30.025	3.5
72	MP4C	Mx	-.026	3.5
73	MP1A	X	-47.635	1
74	MP1A	Z	-27.502	1
75	MP1A	Mx	-.024	1
76	MP1B	X	-63.401	1
77	MP1B	Z	-36.604	1
78	MP1B	Mx	0	1
79	MP1C	X	-47.635	1
80	MP1C	Z	-27.502	1
81	MP1C	Mx	.024	1
82	MP2A	X	-41.596	1
83	MP2A	Z	-24.016	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
84	MP2A	Mx	-.021	1
85	MP2B	X	-63.401	1
86	MP2B	Z	-36.604	1
87	MP2B	Mx	0	1
88	MP2C	X	-41.596	1
89	MP2C	Z	-24.016	1
90	MP2C	Mx	.021	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-72.599	.5
2	MP3A	Z	-125.745	.5
3	MP3A	Mx	.11	.5
4	MP3A	X	-72.599	4.5
5	MP3A	Z	-125.745	4.5
6	MP3A	Mx	.11	4.5
7	MP3B	X	-72.599	.5
8	MP3B	Z	-125.745	.5
9	MP3B	Mx	-.037	.5
10	MP3B	X	-72.599	4.5
11	MP3B	Z	-125.745	4.5
12	MP3B	Mx	-.037	4.5
13	MP3C	X	-52.438	.5
14	MP3C	Z	-90.825	.5
15	MP3C	Mx	-.052	.5
16	MP3C	X	-52.438	4.5
17	MP3C	Z	-90.825	4.5
18	MP3C	Mx	-.052	4.5
19	MP3A	X	-72.378	.5
20	MP3A	Z	-125.363	.5
21	MP3A	Mx	-.037	.5
22	MP3A	X	-72.378	4.5
23	MP3A	Z	-125.363	4.5
24	MP3A	Mx	-.037	4.5
25	MP3B	X	-72.378	.5
26	MP3B	Z	-125.363	.5
27	MP3B	Mx	.109	.5
28	MP3B	X	-72.378	4.5
29	MP3B	Z	-125.363	4.5
30	MP3B	Mx	.109	4.5
31	MP3C	X	-52.438	.5
32	MP3C	Z	-90.825	.5
33	MP3C	Mx	-.052	.5
34	MP3C	X	-52.438	4.5
35	MP3C	Z	-90.825	4.5
36	MP3C	Mx	-.052	4.5
37	MP1A	X	-39.002	1.5
38	MP1A	Z	-67.554	1.5
39	MP1A	Mx	.02	1.5
40	MP1A	X	-39.002	3.5
41	MP1A	Z	-67.554	3.5
42	MP1A	Mx	.02	3.5
43	MP1B	X	-39.002	1.5
44	MP1B	Z	-67.554	1.5
45	MP1B	Mx	.02	1.5
46	MP1B	X	-39.002	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
47	MP1B	Z	-67.554	3.5
48	MP1B	Mx	.02	3.5
49	MP1C	X	-18.009	1.5
50	MP1C	Z	-31.193	1.5
51	MP1C	Mx	-.018	1.5
52	MP1C	X	-18.009	3.5
53	MP1C	Z	-31.193	3.5
54	MP1C	Mx	-.018	3.5
55	MP4A	X	-40.806	1.5
56	MP4A	Z	-70.678	1.5
57	MP4A	Mx	.02	1.5
58	MP4A	X	-40.806	3.5
59	MP4A	Z	-70.678	3.5
60	MP4A	Mx	.02	3.5
61	MP4B	X	-40.806	1.5
62	MP4B	Z	-70.678	1.5
63	MP4B	Mx	.02	1.5
64	MP4B	X	-40.806	3.5
65	MP4B	Z	-70.678	3.5
66	MP4B	Mx	.02	3.5
67	MP4C	X	-24.635	1.5
68	MP4C	Z	-42.669	1.5
69	MP4C	Mx	-.025	1.5
70	MP4C	X	-24.635	3.5
71	MP4C	Z	-42.669	3.5
72	MP4C	Mx	-.025	3.5
73	MP1A	X	-33.57	1
74	MP1A	Z	-58.146	1
75	MP1A	Mx	-.017	1
76	MP1B	X	-33.57	1
77	MP1B	Z	-58.146	1
78	MP1B	Mx	-.017	1
79	MP1C	X	-24.468	1
80	MP1C	Z	-42.38	1
81	MP1C	Mx	.024	1
82	MP2A	X	-32.408	1
83	MP2A	Z	-56.133	1
84	MP2A	Mx	-.016	1
85	MP2B	X	-32.408	1
86	MP2B	Z	-56.133	1
87	MP2B	Mx	-.016	1
88	MP2C	X	-19.819	1
89	MP2C	Z	-34.328	1
90	MP2C	Mx	.02	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	0	.5
2	MP3A	Z	-32.518	.5
3	MP3A	Mx	.019	.5
4	MP3A	X	0	4.5
5	MP3A	Z	-32.518	4.5
6	MP3A	Mx	.019	4.5
7	MP3B	X	0	.5
8	MP3B	Z	-24.949	.5
9	MP3B	Mx	.004	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
10	MP3B	X	0	4.5
11	MP3B	Z	-24.949	4.5
12	MP3B	Mx	.004	4.5
13	MP3C	X	0	.5
14	MP3C	Z	-24.949	.5
15	MP3C	Mx	-.018	.5
16	MP3C	X	0	4.5
17	MP3C	Z	-24.949	4.5
18	MP3C	Mx	-.018	4.5
19	MP3A	X	0	.5
20	MP3A	Z	-32.518	.5
21	MP3A	Mx	-.019	.5
22	MP3A	X	0	4.5
23	MP3A	Z	-32.518	4.5
24	MP3A	Mx	-.019	4.5
25	MP3B	X	0	.5
26	MP3B	Z	-24.949	.5
27	MP3B	Mx	.018	.5
28	MP3B	X	0	4.5
29	MP3B	Z	-24.949	4.5
30	MP3B	Mx	.018	4.5
31	MP3C	X	0	.5
32	MP3C	Z	-24.949	.5
33	MP3C	Mx	-.004	.5
34	MP3C	X	0	4.5
35	MP3C	Z	-24.949	4.5
36	MP3C	Mx	-.004	4.5
37	MP1A	X	0	1.5
38	MP1A	Z	-19.311	1.5
39	MP1A	Mx	0	1.5
40	MP1A	X	0	3.5
41	MP1A	Z	-19.311	3.5
42	MP1A	Mx	0	3.5
43	MP1B	X	0	1.5
44	MP1B	Z	-10.997	1.5
45	MP1B	Mx	.005	1.5
46	MP1B	X	0	3.5
47	MP1B	Z	-10.997	3.5
48	MP1B	Mx	.005	3.5
49	MP1C	X	0	1.5
50	MP1C	Z	-10.997	1.5
51	MP1C	Mx	-.005	1.5
52	MP1C	X	0	3.5
53	MP1C	Z	-10.997	3.5
54	MP1C	Mx	-.005	3.5
55	MP4A	X	0	1.5
56	MP4A	Z	-19.372	1.5
57	MP4A	Mx	0	1.5
58	MP4A	X	0	3.5
59	MP4A	Z	-19.372	3.5
60	MP4A	Mx	0	3.5
61	MP4B	X	0	1.5
62	MP4B	Z	-13.201	1.5
63	MP4B	Mx	.006	1.5
64	MP4B	X	0	3.5
65	MP4B	Z	-13.201	3.5
66	MP4B	Mx	.006	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
67	MP4C	X	0	1.5
68	MP4C	Z	-13.201	1.5
69	MP4C	Mx	-.006	1.5
70	MP4C	X	0	3.5
71	MP4C	Z	-13.201	3.5
72	MP4C	Mx	-.006	3.5
73	MP1A	X	0	1
74	MP1A	Z	-16.276	1
75	MP1A	Mx	0	1
76	MP1B	X	0	1
77	MP1B	Z	-12.56	1
78	MP1B	Mx	-.005	1
79	MP1C	X	0	1
80	MP1C	Z	-12.56	1
81	MP1C	Mx	.005	1
82	MP2A	X	0	1
83	MP2A	Z	-16.276	1
84	MP2A	Mx	0	1
85	MP2B	X	0	1
86	MP2B	Z	-11.148	1
87	MP2B	Mx	-.005	1
88	MP2C	X	0	1
89	MP2C	Z	-11.148	1
90	MP2C	Mx	.005	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	14.998	.5
2	MP3A	Z	-25.977	.5
3	MP3A	Mx	.008	.5
4	MP3A	X	14.998	4.5
5	MP3A	Z	-25.977	4.5
6	MP3A	Mx	.008	4.5
7	MP3B	X	11.213	.5
8	MP3B	Z	-19.421	.5
9	MP3B	Mx	.011	.5
10	MP3B	X	11.213	4.5
11	MP3B	Z	-19.421	4.5
12	MP3B	Mx	.011	4.5
13	MP3C	X	14.998	.5
14	MP3C	Z	-25.977	.5
15	MP3C	Mx	-.023	.5
16	MP3C	X	14.998	4.5
17	MP3C	Z	-25.977	4.5
18	MP3C	Mx	-.023	4.5
19	MP3A	X	14.998	.5
20	MP3A	Z	-25.977	.5
21	MP3A	Mx	-.023	.5
22	MP3A	X	14.998	4.5
23	MP3A	Z	-25.977	4.5
24	MP3A	Mx	-.023	4.5
25	MP3B	X	11.213	.5
26	MP3B	Z	-19.421	.5
27	MP3B	Mx	.011	.5
28	MP3B	X	11.213	4.5
29	MP3B	Z	-19.421	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP3B	Mx	.011	4.5
31	MP3C	X	14.998	.5
32	MP3C	Z	-25.977	.5
33	MP3C	Mx	.008	.5
34	MP3C	X	14.998	4.5
35	MP3C	Z	-25.977	4.5
36	MP3C	Mx	.008	4.5
37	MP1A	X	8.27	1.5
38	MP1A	Z	-14.324	1.5
39	MP1A	Mx	-.004	1.5
40	MP1A	X	8.27	3.5
41	MP1A	Z	-14.324	3.5
42	MP1A	Mx	-.004	3.5
43	MP1B	X	4.113	1.5
44	MP1B	Z	-7.124	1.5
45	MP1B	Mx	.004	1.5
46	MP1B	X	4.113	3.5
47	MP1B	Z	-7.124	3.5
48	MP1B	Mx	.004	3.5
49	MP1C	X	8.27	1.5
50	MP1C	Z	-14.324	1.5
51	MP1C	Mx	-.004	1.5
52	MP1C	X	8.27	3.5
53	MP1C	Z	-14.324	3.5
54	MP1C	Mx	-.004	3.5
55	MP4A	X	8.658	1.5
56	MP4A	Z	-14.995	1.5
57	MP4A	Mx	-.004	1.5
58	MP4A	X	8.658	3.5
59	MP4A	Z	-14.995	3.5
60	MP4A	Mx	-.004	3.5
61	MP4B	X	5.572	1.5
62	MP4B	Z	-9.652	1.5
63	MP4B	Mx	.006	1.5
64	MP4B	X	5.572	3.5
65	MP4B	Z	-9.652	3.5
66	MP4B	Mx	.006	3.5
67	MP4C	X	8.658	1.5
68	MP4C	Z	-14.995	1.5
69	MP4C	Mx	-.004	1.5
70	MP4C	X	8.658	3.5
71	MP4C	Z	-14.995	3.5
72	MP4C	Mx	-.004	3.5
73	MP1A	X	7.519	1
74	MP1A	Z	-13.023	1
75	MP1A	Mx	.004	1
76	MP1B	X	5.661	1
77	MP1B	Z	-9.805	1
78	MP1B	Mx	-.006	1
79	MP1C	X	7.519	1
80	MP1C	Z	-13.023	1
81	MP1C	Mx	.004	1
82	MP2A	X	7.283	1
83	MP2A	Z	-12.615	1
84	MP2A	Mx	.004	1
85	MP2B	X	4.72	1
86	MP2B	Z	-8.175	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
87	MP2B	Mx	-.005	1
88	MP2C	X	7.283	1
89	MP2C	Z	-12.615	1
90	MP2C	Mx	.004	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	21.606	.5
2	MP3A	Z	-12.474	.5
3	MP3A	Mx	-.004	.5
4	MP3A	X	21.606	4.5
5	MP3A	Z	-12.474	4.5
6	MP3A	Mx	-.004	4.5
7	MP3B	X	21.606	.5
8	MP3B	Z	-12.474	.5
9	MP3B	Mx	.018	.5
10	MP3B	X	21.606	4.5
11	MP3B	Z	-12.474	4.5
12	MP3B	Mx	.018	4.5
13	MP3C	X	28.162	.5
14	MP3C	Z	-16.259	.5
15	MP3C	Mx	-.019	.5
16	MP3C	X	28.162	4.5
17	MP3C	Z	-16.259	4.5
18	MP3C	Mx	-.019	4.5
19	MP3A	X	21.606	.5
20	MP3A	Z	-12.474	.5
21	MP3A	Mx	-.018	.5
22	MP3A	X	21.606	4.5
23	MP3A	Z	-12.474	4.5
24	MP3A	Mx	-.018	4.5
25	MP3B	X	21.606	.5
26	MP3B	Z	-12.474	.5
27	MP3B	Mx	.004	.5
28	MP3B	X	21.606	4.5
29	MP3B	Z	-12.474	4.5
30	MP3B	Mx	.004	4.5
31	MP3C	X	28.162	.5
32	MP3C	Z	-16.259	.5
33	MP3C	Mx	.019	.5
34	MP3C	X	28.162	4.5
35	MP3C	Z	-16.259	4.5
36	MP3C	Mx	.019	4.5
37	MP1A	X	9.524	1.5
38	MP1A	Z	-5.499	1.5
39	MP1A	Mx	-.005	1.5
40	MP1A	X	9.524	3.5
41	MP1A	Z	-5.499	3.5
42	MP1A	Mx	-.005	3.5
43	MP1B	X	9.524	1.5
44	MP1B	Z	-5.499	1.5
45	MP1B	Mx	.005	1.5
46	MP1B	X	9.524	3.5
47	MP1B	Z	-5.499	3.5
48	MP1B	Mx	.005	3.5
49	MP1C	X	16.724	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
50	MP1C	Z	-9.656	1.5
51	MP1C	Mx	0	1.5
52	MP1C	X	16.724	3.5
53	MP1C	Z	-9.656	3.5
54	MP1C	Mx	0	3.5
55	MP4A	X	11.433	1.5
56	MP4A	Z	-6.601	1.5
57	MP4A	Mx	-.006	1.5
58	MP4A	X	11.433	3.5
59	MP4A	Z	-6.601	3.5
60	MP4A	Mx	-.006	3.5
61	MP4B	X	11.433	1.5
62	MP4B	Z	-6.601	1.5
63	MP4B	Mx	.006	1.5
64	MP4B	X	11.433	3.5
65	MP4B	Z	-6.601	3.5
66	MP4B	Mx	.006	3.5
67	MP4C	X	16.776	1.5
68	MP4C	Z	-9.686	1.5
69	MP4C	Mx	0	1.5
70	MP4C	X	16.776	3.5
71	MP4C	Z	-9.686	3.5
72	MP4C	Mx	0	3.5
73	MP1A	X	10.878	1
74	MP1A	Z	-6.28	1
75	MP1A	Mx	.005	1
76	MP1B	X	10.878	1
77	MP1B	Z	-6.28	1
78	MP1B	Mx	-.005	1
79	MP1C	X	14.095	1
80	MP1C	Z	-8.138	1
81	MP1C	Mx	0	1
82	MP2A	X	9.655	1
83	MP2A	Z	-5.574	1
84	MP2A	Mx	.005	1
85	MP2B	X	9.655	1
86	MP2B	Z	-5.574	1
87	MP2B	Mx	-.005	1
88	MP2C	X	14.095	1
89	MP2C	Z	-8.138	1
90	MP2C	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	22.426	.5
2	MP3A	Z	0	.5
3	MP3A	Mx	-.011	.5
4	MP3A	X	22.426	4.5
5	MP3A	Z	0	4.5
6	MP3A	Mx	-.011	4.5
7	MP3B	X	29.995	.5
8	MP3B	Z	0	.5
9	MP3B	Mx	.023	.5
10	MP3B	X	29.995	4.5
11	MP3B	Z	0	4.5
12	MP3B	Mx	.023	4.5

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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]	
13	MP3C	X	29.995	.5
14	MP3C	Z	0	.5
15	MP3C	Mx	-.008	.5
16	MP3C	X	29.995	4.5
17	MP3C	Z	0	4.5
18	MP3C	Mx	-.008	4.5
19	MP3A	X	22.426	.5
20	MP3A	Z	0	.5
21	MP3A	Mx	-.011	.5
22	MP3A	X	22.426	4.5
23	MP3A	Z	0	4.5
24	MP3A	Mx	-.011	4.5
25	MP3B	X	29.995	.5
26	MP3B	Z	0	.5
27	MP3B	Mx	-.008	.5
28	MP3B	X	29.995	4.5
29	MP3B	Z	0	4.5
30	MP3B	Mx	-.008	4.5
31	MP3C	X	29.995	.5
32	MP3C	Z	0	.5
33	MP3C	Mx	.023	.5
34	MP3C	X	29.995	4.5
35	MP3C	Z	0	4.5
36	MP3C	Mx	.023	4.5
37	MP1A	X	8.226	1.5
38	MP1A	Z	0	1.5
39	MP1A	Mx	-.004	1.5
40	MP1A	X	8.226	3.5
41	MP1A	Z	0	3.5
42	MP1A	Mx	-.004	3.5
43	MP1B	X	16.54	1.5
44	MP1B	Z	0	1.5
45	MP1B	Mx	.004	1.5
46	MP1B	X	16.54	3.5
47	MP1B	Z	0	3.5
48	MP1B	Mx	.004	3.5
49	MP1C	X	16.54	1.5
50	MP1C	Z	0	1.5
51	MP1C	Mx	.004	1.5
52	MP1C	X	16.54	3.5
53	MP1C	Z	0	3.5
54	MP1C	Mx	.004	3.5
55	MP4A	X	11.145	1.5
56	MP4A	Z	0	1.5
57	MP4A	Mx	-.006	1.5
58	MP4A	X	11.145	3.5
59	MP4A	Z	0	3.5
60	MP4A	Mx	-.006	3.5
61	MP4B	X	17.315	1.5
62	MP4B	Z	0	1.5
63	MP4B	Mx	.004	1.5
64	MP4B	X	17.315	3.5
65	MP4B	Z	0	3.5
66	MP4B	Mx	.004	3.5
67	MP4C	X	17.315	1.5
68	MP4C	Z	0	1.5
69	MP4C	Mx	.004	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
70	MP4C	X	17.315	3.5
71	MP4C	Z	0	3.5
72	MP4C	Mx	.004	3.5
73	MP1A	X	11.322	1
74	MP1A	Z	0	1
75	MP1A	Mx	.006	1
76	MP1B	X	15.037	1
77	MP1B	Z	0	1
78	MP1B	Mx	-.004	1
79	MP1C	X	15.037	1
80	MP1C	Z	0	1
81	MP1C	Mx	-.004	1
82	MP2A	X	9.439	1
83	MP2A	Z	0	1
84	MP2A	Mx	.005	1
85	MP2B	X	14.567	1
86	MP2B	Z	0	1
87	MP2B	Mx	-.004	1
88	MP2C	X	14.567	1
89	MP2C	Z	0	1
90	MP2C	Mx	-.004	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	21.606	.5
2	MP3A	Z	12.474	.5
3	MP3A	Mx	-.018	.5
4	MP3A	X	21.606	4.5
5	MP3A	Z	12.474	4.5
6	MP3A	Mx	-.018	4.5
7	MP3B	X	28.162	.5
8	MP3B	Z	16.259	.5
9	MP3B	Mx	.019	.5
10	MP3B	X	28.162	4.5
11	MP3B	Z	16.259	4.5
12	MP3B	Mx	.019	4.5
13	MP3C	X	21.606	.5
14	MP3C	Z	12.474	.5
15	MP3C	Mx	.004	.5
16	MP3C	X	21.606	4.5
17	MP3C	Z	12.474	4.5
18	MP3C	Mx	.004	4.5
19	MP3A	X	21.606	.5
20	MP3A	Z	12.474	.5
21	MP3A	Mx	-.004	.5
22	MP3A	X	21.606	4.5
23	MP3A	Z	12.474	4.5
24	MP3A	Mx	-.004	4.5
25	MP3B	X	28.162	.5
26	MP3B	Z	16.259	.5
27	MP3B	Mx	-.019	.5
28	MP3B	X	28.162	4.5
29	MP3B	Z	16.259	4.5
30	MP3B	Mx	-.019	4.5
31	MP3C	X	21.606	.5
32	MP3C	Z	12.474	.5



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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]	
33	MP3C	Mx	.018	.5
34	MP3C	X	21.606	4.5
35	MP3C	Z	12.474	4.5
36	MP3C	Mx	.018	4.5
37	MP1A	X	9.524	1.5
38	MP1A	Z	5.499	1.5
39	MP1A	Mx	-.005	1.5
40	MP1A	X	9.524	3.5
41	MP1A	Z	5.499	3.5
42	MP1A	Mx	-.005	3.5
43	MP1B	X	16.724	1.5
44	MP1B	Z	9.656	1.5
45	MP1B	Mx	0	1.5
46	MP1B	X	16.724	3.5
47	MP1B	Z	9.656	3.5
48	MP1B	Mx	0	3.5
49	MP1C	X	9.524	1.5
50	MP1C	Z	5.499	1.5
51	MP1C	Mx	.005	1.5
52	MP1C	X	9.524	3.5
53	MP1C	Z	5.499	3.5
54	MP1C	Mx	.005	3.5
55	MP4A	X	11.433	1.5
56	MP4A	Z	6.601	1.5
57	MP4A	Mx	-.006	1.5
58	MP4A	X	11.433	3.5
59	MP4A	Z	6.601	3.5
60	MP4A	Mx	-.006	3.5
61	MP4B	X	16.776	1.5
62	MP4B	Z	9.686	1.5
63	MP4B	Mx	0	1.5
64	MP4B	X	16.776	3.5
65	MP4B	Z	9.686	3.5
66	MP4B	Mx	0	3.5
67	MP4C	X	11.433	1.5
68	MP4C	Z	6.601	1.5
69	MP4C	Mx	.006	1.5
70	MP4C	X	11.433	3.5
71	MP4C	Z	6.601	3.5
72	MP4C	Mx	.006	3.5
73	MP1A	X	10.878	1
74	MP1A	Z	6.28	1
75	MP1A	Mx	.005	1
76	MP1B	X	14.095	1
77	MP1B	Z	8.138	1
78	MP1B	Mx	0	1
79	MP1C	X	10.878	1
80	MP1C	Z	6.28	1
81	MP1C	Mx	-.005	1
82	MP2A	X	9.655	1
83	MP2A	Z	5.574	1
84	MP2A	Mx	.005	1
85	MP2B	X	14.095	1
86	MP2B	Z	8.138	1
87	MP2B	Mx	0	1
88	MP2C	X	9.655	1
89	MP2C	Z	5.574	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
90	MP2C	Mx	-.005	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	14.998	.5
2	MP3A	Z	25.977	.5
3	MP3A	Mx	-.023	.5
4	MP3A	X	14.998	4.5
5	MP3A	Z	25.977	4.5
6	MP3A	Mx	-.023	4.5
7	MP3B	X	14.998	.5
8	MP3B	Z	25.977	.5
9	MP3B	Mx	.008	.5
10	MP3B	X	14.998	4.5
11	MP3B	Z	25.977	4.5
12	MP3B	Mx	.008	4.5
13	MP3C	X	11.213	.5
14	MP3C	Z	19.421	.5
15	MP3C	Mx	.011	.5
16	MP3C	X	11.213	4.5
17	MP3C	Z	19.421	4.5
18	MP3C	Mx	.011	4.5
19	MP3A	X	14.998	.5
20	MP3A	Z	25.977	.5
21	MP3A	Mx	.008	.5
22	MP3A	X	14.998	4.5
23	MP3A	Z	25.977	4.5
24	MP3A	Mx	.008	4.5
25	MP3B	X	14.998	.5
26	MP3B	Z	25.977	.5
27	MP3B	Mx	-.023	.5
28	MP3B	X	14.998	4.5
29	MP3B	Z	25.977	4.5
30	MP3B	Mx	-.023	4.5
31	MP3C	X	11.213	.5
32	MP3C	Z	19.421	.5
33	MP3C	Mx	.011	.5
34	MP3C	X	11.213	4.5
35	MP3C	Z	19.421	4.5
36	MP3C	Mx	.011	4.5
37	MP1A	X	8.27	1.5
38	MP1A	Z	14.324	1.5
39	MP1A	Mx	-.004	1.5
40	MP1A	X	8.27	3.5
41	MP1A	Z	14.324	3.5
42	MP1A	Mx	-.004	3.5
43	MP1B	X	8.27	1.5
44	MP1B	Z	14.324	1.5
45	MP1B	Mx	-.004	1.5
46	MP1B	X	8.27	3.5
47	MP1B	Z	14.324	3.5
48	MP1B	Mx	-.004	3.5
49	MP1C	X	4.113	1.5
50	MP1C	Z	7.124	1.5
51	MP1C	Mx	.004	1.5
52	MP1C	X	4.113	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
53	MP1C	Z	7.124	3.5
54	MP1C	Mx	.004	3.5
55	MP4A	X	8.658	1.5
56	MP4A	Z	14.995	1.5
57	MP4A	Mx	-.004	1.5
58	MP4A	X	8.658	3.5
59	MP4A	Z	14.995	3.5
60	MP4A	Mx	-.004	3.5
61	MP4B	X	8.658	1.5
62	MP4B	Z	14.995	1.5
63	MP4B	Mx	-.004	1.5
64	MP4B	X	8.658	3.5
65	MP4B	Z	14.995	3.5
66	MP4B	Mx	-.004	3.5
67	MP4C	X	5.572	1.5
68	MP4C	Z	9.652	1.5
69	MP4C	Mx	.006	1.5
70	MP4C	X	5.572	3.5
71	MP4C	Z	9.652	3.5
72	MP4C	Mx	.006	3.5
73	MP1A	X	7.519	1
74	MP1A	Z	13.023	1
75	MP1A	Mx	.004	1
76	MP1B	X	7.519	1
77	MP1B	Z	13.023	1
78	MP1B	Mx	.004	1
79	MP1C	X	5.661	1
80	MP1C	Z	9.805	1
81	MP1C	Mx	-.006	1
82	MP2A	X	7.283	1
83	MP2A	Z	12.615	1
84	MP2A	Mx	.004	1
85	MP2B	X	7.283	1
86	MP2B	Z	12.615	1
87	MP2B	Mx	.004	1
88	MP2C	X	4.72	1
89	MP2C	Z	8.175	1
90	MP2C	Mx	-.005	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	0	.5
2	MP3A	Z	32.518	.5
3	MP3A	Mx	-.019	.5
4	MP3A	X	0	4.5
5	MP3A	Z	32.518	4.5
6	MP3A	Mx	-.019	4.5
7	MP3B	X	0	.5
8	MP3B	Z	24.949	.5
9	MP3B	Mx	-.004	.5
10	MP3B	X	0	4.5
11	MP3B	Z	24.949	4.5
12	MP3B	Mx	-.004	4.5
13	MP3C	X	0	.5
14	MP3C	Z	24.949	.5
15	MP3C	Mx	.018	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
16	MP3C	X	0	4.5
17	MP3C	Z	24.949	4.5
18	MP3C	Mx	.018	4.5
19	MP3A	X	0	.5
20	MP3A	Z	32.518	.5
21	MP3A	Mx	.019	.5
22	MP3A	X	0	4.5
23	MP3A	Z	32.518	4.5
24	MP3A	Mx	.019	4.5
25	MP3B	X	0	.5
26	MP3B	Z	24.949	.5
27	MP3B	Mx	-.018	.5
28	MP3B	X	0	4.5
29	MP3B	Z	24.949	4.5
30	MP3B	Mx	-.018	4.5
31	MP3C	X	0	.5
32	MP3C	Z	24.949	.5
33	MP3C	Mx	.004	.5
34	MP3C	X	0	4.5
35	MP3C	Z	24.949	4.5
36	MP3C	Mx	.004	4.5
37	MP1A	X	0	1.5
38	MP1A	Z	19.311	1.5
39	MP1A	Mx	0	1.5
40	MP1A	X	0	3.5
41	MP1A	Z	19.311	3.5
42	MP1A	Mx	0	3.5
43	MP1B	X	0	1.5
44	MP1B	Z	10.997	1.5
45	MP1B	Mx	-.005	1.5
46	MP1B	X	0	3.5
47	MP1B	Z	10.997	3.5
48	MP1B	Mx	-.005	3.5
49	MP1C	X	0	1.5
50	MP1C	Z	10.997	1.5
51	MP1C	Mx	.005	1.5
52	MP1C	X	0	3.5
53	MP1C	Z	10.997	3.5
54	MP1C	Mx	.005	3.5
55	MP4A	X	0	1.5
56	MP4A	Z	19.372	1.5
57	MP4A	Mx	0	1.5
58	MP4A	X	0	3.5
59	MP4A	Z	19.372	3.5
60	MP4A	Mx	0	3.5
61	MP4B	X	0	1.5
62	MP4B	Z	13.201	1.5
63	MP4B	Mx	-.006	1.5
64	MP4B	X	0	3.5
65	MP4B	Z	13.201	3.5
66	MP4B	Mx	-.006	3.5
67	MP4C	X	0	1.5
68	MP4C	Z	13.201	1.5
69	MP4C	Mx	.006	1.5
70	MP4C	X	0	3.5
71	MP4C	Z	13.201	3.5
72	MP4C	Mx	.006	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
73	MP1A	X	0	1
74	MP1A	Z	16.276	1
75	MP1A	Mx	0	1
76	MP1B	X	0	1
77	MP1B	Z	12.56	1
78	MP1B	Mx	.005	1
79	MP1C	X	0	1
80	MP1C	Z	12.56	1
81	MP1C	Mx	-.005	1
82	MP2A	X	0	1
83	MP2A	Z	16.276	1
84	MP2A	Mx	0	1
85	MP2B	X	0	1
86	MP2B	Z	11.148	1
87	MP2B	Mx	.005	1
88	MP2C	X	0	1
89	MP2C	Z	11.148	1
90	MP2C	Mx	-.005	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-14.998	.5
2	MP3A	Z	25.977	.5
3	MP3A	Mx	-.008	.5
4	MP3A	X	-14.998	4.5
5	MP3A	Z	25.977	4.5
6	MP3A	Mx	-.008	4.5
7	MP3B	X	-11.213	.5
8	MP3B	Z	19.421	.5
9	MP3B	Mx	-.011	.5
10	MP3B	X	-11.213	4.5
11	MP3B	Z	19.421	4.5
12	MP3B	Mx	-.011	4.5
13	MP3C	X	-14.998	.5
14	MP3C	Z	25.977	.5
15	MP3C	Mx	.023	.5
16	MP3C	X	-14.998	4.5
17	MP3C	Z	25.977	4.5
18	MP3C	Mx	.023	4.5
19	MP3A	X	-14.998	.5
20	MP3A	Z	25.977	.5
21	MP3A	Mx	.023	.5
22	MP3A	X	-14.998	4.5
23	MP3A	Z	25.977	4.5
24	MP3A	Mx	.023	4.5
25	MP3B	X	-11.213	.5
26	MP3B	Z	19.421	.5
27	MP3B	Mx	-.011	.5
28	MP3B	X	-11.213	4.5
29	MP3B	Z	19.421	4.5
30	MP3B	Mx	-.011	4.5
31	MP3C	X	-14.998	.5
32	MP3C	Z	25.977	.5
33	MP3C	Mx	-.008	.5
34	MP3C	X	-14.998	4.5
35	MP3C	Z	25.977	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
36	MP3C	Mx	-.008	4.5
37	MP1A	X	-8.27	1.5
38	MP1A	Z	14.324	1.5
39	MP1A	Mx	.004	1.5
40	MP1A	X	-8.27	3.5
41	MP1A	Z	14.324	3.5
42	MP1A	Mx	.004	3.5
43	MP1B	X	-4.113	1.5
44	MP1B	Z	7.124	1.5
45	MP1B	Mx	-.004	1.5
46	MP1B	X	-4.113	3.5
47	MP1B	Z	7.124	3.5
48	MP1B	Mx	-.004	3.5
49	MP1C	X	-8.27	1.5
50	MP1C	Z	14.324	1.5
51	MP1C	Mx	.004	1.5
52	MP1C	X	-8.27	3.5
53	MP1C	Z	14.324	3.5
54	MP1C	Mx	.004	3.5
55	MP4A	X	-8.658	1.5
56	MP4A	Z	14.995	1.5
57	MP4A	Mx	.004	1.5
58	MP4A	X	-8.658	3.5
59	MP4A	Z	14.995	3.5
60	MP4A	Mx	.004	3.5
61	MP4B	X	-5.572	1.5
62	MP4B	Z	9.652	1.5
63	MP4B	Mx	-.006	1.5
64	MP4B	X	-5.572	3.5
65	MP4B	Z	9.652	3.5
66	MP4B	Mx	-.006	3.5
67	MP4C	X	-8.658	1.5
68	MP4C	Z	14.995	1.5
69	MP4C	Mx	.004	1.5
70	MP4C	X	-8.658	3.5
71	MP4C	Z	14.995	3.5
72	MP4C	Mx	.004	3.5
73	MP1A	X	-7.519	1
74	MP1A	Z	13.023	1
75	MP1A	Mx	-.004	1
76	MP1B	X	-5.661	1
77	MP1B	Z	9.805	1
78	MP1B	Mx	.006	1
79	MP1C	X	-7.519	1
80	MP1C	Z	13.023	1
81	MP1C	Mx	-.004	1
82	MP2A	X	-7.283	1
83	MP2A	Z	12.615	1
84	MP2A	Mx	-.004	1
85	MP2B	X	-4.72	1
86	MP2B	Z	8.175	1
87	MP2B	Mx	.005	1
88	MP2C	X	-7.283	1
89	MP2C	Z	12.615	1
90	MP2C	Mx	-.004	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-21.606	.5
2	MP3A	Z	12.474	.5
3	MP3A	Mx	.004	.5
4	MP3A	X	-21.606	4.5
5	MP3A	Z	12.474	4.5
6	MP3A	Mx	.004	4.5
7	MP3B	X	-21.606	.5
8	MP3B	Z	12.474	.5
9	MP3B	Mx	-.018	.5
10	MP3B	X	-21.606	4.5
11	MP3B	Z	12.474	4.5
12	MP3B	Mx	-.018	4.5
13	MP3C	X	-28.162	.5
14	MP3C	Z	16.259	.5
15	MP3C	Mx	.019	.5
16	MP3C	X	-28.162	4.5
17	MP3C	Z	16.259	4.5
18	MP3C	Mx	.019	4.5
19	MP3A	X	-21.606	.5
20	MP3A	Z	12.474	.5
21	MP3A	Mx	.018	.5
22	MP3A	X	-21.606	4.5
23	MP3A	Z	12.474	4.5
24	MP3A	Mx	.018	4.5
25	MP3B	X	-21.606	.5
26	MP3B	Z	12.474	.5
27	MP3B	Mx	-.004	.5
28	MP3B	X	-21.606	4.5
29	MP3B	Z	12.474	4.5
30	MP3B	Mx	-.004	4.5
31	MP3C	X	-28.162	.5
32	MP3C	Z	16.259	.5
33	MP3C	Mx	-.019	.5
34	MP3C	X	-28.162	4.5
35	MP3C	Z	16.259	4.5
36	MP3C	Mx	-.019	4.5
37	MP1A	X	-9.524	1.5
38	MP1A	Z	5.499	1.5
39	MP1A	Mx	.005	1.5
40	MP1A	X	-9.524	3.5
41	MP1A	Z	5.499	3.5
42	MP1A	Mx	.005	3.5
43	MP1B	X	-9.524	1.5
44	MP1B	Z	5.499	1.5
45	MP1B	Mx	-.005	1.5
46	MP1B	X	-9.524	3.5
47	MP1B	Z	5.499	3.5
48	MP1B	Mx	-.005	3.5
49	MP1C	X	-16.724	1.5
50	MP1C	Z	9.656	1.5
51	MP1C	Mx	0	1.5
52	MP1C	X	-16.724	3.5
53	MP1C	Z	9.656	3.5
54	MP1C	Mx	0	3.5
55	MP4A	X	-11.433	1.5
56	MP4A	Z	6.601	1.5
57	MP4A	Mx	.006	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP4A	X	-11.433	3.5
59	MP4A	Z	6.601	3.5
60	MP4A	Mx	.006	3.5
61	MP4B	X	-11.433	1.5
62	MP4B	Z	6.601	1.5
63	MP4B	Mx	-.006	1.5
64	MP4B	X	-11.433	3.5
65	MP4B	Z	6.601	3.5
66	MP4B	Mx	-.006	3.5
67	MP4C	X	-16.776	1.5
68	MP4C	Z	9.686	1.5
69	MP4C	Mx	0	1.5
70	MP4C	X	-16.776	3.5
71	MP4C	Z	9.686	3.5
72	MP4C	Mx	0	3.5
73	MP1A	X	-10.878	1
74	MP1A	Z	6.28	1
75	MP1A	Mx	-.005	1
76	MP1B	X	-10.878	1
77	MP1B	Z	6.28	1
78	MP1B	Mx	.005	1
79	MP1C	X	-14.095	1
80	MP1C	Z	8.138	1
81	MP1C	Mx	0	1
82	MP2A	X	-9.655	1
83	MP2A	Z	5.574	1
84	MP2A	Mx	-.005	1
85	MP2B	X	-9.655	1
86	MP2B	Z	5.574	1
87	MP2B	Mx	.005	1
88	MP2C	X	-14.095	1
89	MP2C	Z	8.138	1
90	MP2C	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-22.426	.5
2	MP3A	Z	0	.5
3	MP3A	Mx	.011	.5
4	MP3A	X	-22.426	4.5
5	MP3A	Z	0	4.5
6	MP3A	Mx	.011	4.5
7	MP3B	X	-29.995	.5
8	MP3B	Z	0	.5
9	MP3B	Mx	-.023	.5
10	MP3B	X	-29.995	4.5
11	MP3B	Z	0	4.5
12	MP3B	Mx	-.023	4.5
13	MP3C	X	-29.995	.5
14	MP3C	Z	0	.5
15	MP3C	Mx	.008	.5
16	MP3C	X	-29.995	4.5
17	MP3C	Z	0	4.5
18	MP3C	Mx	.008	4.5
19	MP3A	X	-22.426	.5
20	MP3A	Z	0	.5

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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]	
21	MP3A	Mx	.011	.5
22	MP3A	X	-22.426	4.5
23	MP3A	Z	0	4.5
24	MP3A	Mx	.011	4.5
25	MP3B	X	-29.995	.5
26	MP3B	Z	0	.5
27	MP3B	Mx	.008	.5
28	MP3B	X	-29.995	4.5
29	MP3B	Z	0	4.5
30	MP3B	Mx	.008	4.5
31	MP3C	X	-29.995	.5
32	MP3C	Z	0	.5
33	MP3C	Mx	-.023	.5
34	MP3C	X	-29.995	4.5
35	MP3C	Z	0	4.5
36	MP3C	Mx	-.023	4.5
37	MP1A	X	-8.226	1.5
38	MP1A	Z	0	1.5
39	MP1A	Mx	.004	1.5
40	MP1A	X	-8.226	3.5
41	MP1A	Z	0	3.5
42	MP1A	Mx	.004	3.5
43	MP1B	X	-16.54	1.5
44	MP1B	Z	0	1.5
45	MP1B	Mx	-.004	1.5
46	MP1B	X	-16.54	3.5
47	MP1B	Z	0	3.5
48	MP1B	Mx	-.004	3.5
49	MP1C	X	-16.54	1.5
50	MP1C	Z	0	1.5
51	MP1C	Mx	-.004	1.5
52	MP1C	X	-16.54	3.5
53	MP1C	Z	0	3.5
54	MP1C	Mx	-.004	3.5
55	MP4A	X	-11.145	1.5
56	MP4A	Z	0	1.5
57	MP4A	Mx	.006	1.5
58	MP4A	X	-11.145	3.5
59	MP4A	Z	0	3.5
60	MP4A	Mx	.006	3.5
61	MP4B	X	-17.315	1.5
62	MP4B	Z	0	1.5
63	MP4B	Mx	-.004	1.5
64	MP4B	X	-17.315	3.5
65	MP4B	Z	0	3.5
66	MP4B	Mx	-.004	3.5
67	MP4C	X	-17.315	1.5
68	MP4C	Z	0	1.5
69	MP4C	Mx	-.004	1.5
70	MP4C	X	-17.315	3.5
71	MP4C	Z	0	3.5
72	MP4C	Mx	-.004	3.5
73	MP1A	X	-11.322	1
74	MP1A	Z	0	1
75	MP1A	Mx	-.006	1
76	MP1B	X	-15.037	1
77	MP1B	Z	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
78	MP1B	Mx	.004	1
79	MP1C	X	-15.037	1
80	MP1C	Z	0	1
81	MP1C	Mx	.004	1
82	MP2A	X	-9.439	1
83	MP2A	Z	0	1
84	MP2A	Mx	-.005	1
85	MP2B	X	-14.567	1
86	MP2B	Z	0	1
87	MP2B	Mx	.004	1
88	MP2C	X	-14.567	1
89	MP2C	Z	0	1
90	MP2C	Mx	.004	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-21.606	.5
2	MP3A	Z	-12.474	.5
3	MP3A	Mx	.018	.5
4	MP3A	X	-21.606	4.5
5	MP3A	Z	-12.474	4.5
6	MP3A	Mx	.018	4.5
7	MP3B	X	-28.162	.5
8	MP3B	Z	-16.259	.5
9	MP3B	Mx	-.019	.5
10	MP3B	X	-28.162	4.5
11	MP3B	Z	-16.259	4.5
12	MP3B	Mx	-.019	4.5
13	MP3C	X	-21.606	.5
14	MP3C	Z	-12.474	.5
15	MP3C	Mx	-.004	.5
16	MP3C	X	-21.606	4.5
17	MP3C	Z	-12.474	4.5
18	MP3C	Mx	-.004	4.5
19	MP3A	X	-21.606	.5
20	MP3A	Z	-12.474	.5
21	MP3A	Mx	.004	.5
22	MP3A	X	-21.606	4.5
23	MP3A	Z	-12.474	4.5
24	MP3A	Mx	.004	4.5
25	MP3B	X	-28.162	.5
26	MP3B	Z	-16.259	.5
27	MP3B	Mx	.019	.5
28	MP3B	X	-28.162	4.5
29	MP3B	Z	-16.259	4.5
30	MP3B	Mx	.019	4.5
31	MP3C	X	-21.606	.5
32	MP3C	Z	-12.474	.5
33	MP3C	Mx	-.018	.5
34	MP3C	X	-21.606	4.5
35	MP3C	Z	-12.474	4.5
36	MP3C	Mx	-.018	4.5
37	MP1A	X	-9.524	1.5
38	MP1A	Z	-5.499	1.5
39	MP1A	Mx	.005	1.5
40	MP1A	X	-9.524	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
41	MP1A	Z	-5.499	3.5
42	MP1A	Mx	.005	3.5
43	MP1B	X	-16.724	1.5
44	MP1B	Z	-9.656	1.5
45	MP1B	Mx	0	1.5
46	MP1B	X	-16.724	3.5
47	MP1B	Z	-9.656	3.5
48	MP1B	Mx	0	3.5
49	MP1C	X	-9.524	1.5
50	MP1C	Z	-5.499	1.5
51	MP1C	Mx	-.005	1.5
52	MP1C	X	-9.524	3.5
53	MP1C	Z	-5.499	3.5
54	MP1C	Mx	-.005	3.5
55	MP4A	X	-11.433	1.5
56	MP4A	Z	-6.601	1.5
57	MP4A	Mx	.006	1.5
58	MP4A	X	-11.433	3.5
59	MP4A	Z	-6.601	3.5
60	MP4A	Mx	.006	3.5
61	MP4B	X	-16.776	1.5
62	MP4B	Z	-9.686	1.5
63	MP4B	Mx	0	1.5
64	MP4B	X	-16.776	3.5
65	MP4B	Z	-9.686	3.5
66	MP4B	Mx	0	3.5
67	MP4C	X	-11.433	1.5
68	MP4C	Z	-6.601	1.5
69	MP4C	Mx	-.006	1.5
70	MP4C	X	-11.433	3.5
71	MP4C	Z	-6.601	3.5
72	MP4C	Mx	-.006	3.5
73	MP1A	X	-10.878	1
74	MP1A	Z	-6.28	1
75	MP1A	Mx	-.005	1
76	MP1B	X	-14.095	1
77	MP1B	Z	-8.138	1
78	MP1B	Mx	0	1
79	MP1C	X	-10.878	1
80	MP1C	Z	-6.28	1
81	MP1C	Mx	.005	1
82	MP2A	X	-9.655	1
83	MP2A	Z	-5.574	1
84	MP2A	Mx	-.005	1
85	MP2B	X	-14.095	1
86	MP2B	Z	-8.138	1
87	MP2B	Mx	0	1
88	MP2C	X	-9.655	1
89	MP2C	Z	-5.574	1
90	MP2C	Mx	.005	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-14.998	.5
2	MP3A	Z	-25.977	.5
3	MP3A	Mx	.023	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
4	MP3A	X	-14.998	4.5
5	MP3A	Z	-25.977	4.5
6	MP3A	Mx	.023	4.5
7	MP3B	X	-14.998	.5
8	MP3B	Z	-25.977	.5
9	MP3B	Mx	-.008	.5
10	MP3B	X	-14.998	4.5
11	MP3B	Z	-25.977	4.5
12	MP3B	Mx	-.008	4.5
13	MP3C	X	-11.213	.5
14	MP3C	Z	-19.421	.5
15	MP3C	Mx	-.011	.5
16	MP3C	X	-11.213	4.5
17	MP3C	Z	-19.421	4.5
18	MP3C	Mx	-.011	4.5
19	MP3A	X	-14.998	.5
20	MP3A	Z	-25.977	.5
21	MP3A	Mx	-.008	.5
22	MP3A	X	-14.998	4.5
23	MP3A	Z	-25.977	4.5
24	MP3A	Mx	-.008	4.5
25	MP3B	X	-14.998	.5
26	MP3B	Z	-25.977	.5
27	MP3B	Mx	.023	.5
28	MP3B	X	-14.998	4.5
29	MP3B	Z	-25.977	4.5
30	MP3B	Mx	.023	4.5
31	MP3C	X	-11.213	.5
32	MP3C	Z	-19.421	.5
33	MP3C	Mx	-.011	.5
34	MP3C	X	-11.213	4.5
35	MP3C	Z	-19.421	4.5
36	MP3C	Mx	-.011	4.5
37	MP1A	X	-8.27	1.5
38	MP1A	Z	-14.324	1.5
39	MP1A	Mx	.004	1.5
40	MP1A	X	-8.27	3.5
41	MP1A	Z	-14.324	3.5
42	MP1A	Mx	.004	3.5
43	MP1B	X	-8.27	1.5
44	MP1B	Z	-14.324	1.5
45	MP1B	Mx	.004	1.5
46	MP1B	X	-8.27	3.5
47	MP1B	Z	-14.324	3.5
48	MP1B	Mx	.004	3.5
49	MP1C	X	-4.113	1.5
50	MP1C	Z	-7.124	1.5
51	MP1C	Mx	-.004	1.5
52	MP1C	X	-4.113	3.5
53	MP1C	Z	-7.124	3.5
54	MP1C	Mx	-.004	3.5
55	MP4A	X	-8.658	1.5
56	MP4A	Z	-14.995	1.5
57	MP4A	Mx	.004	1.5
58	MP4A	X	-8.658	3.5
59	MP4A	Z	-14.995	3.5
60	MP4A	Mx	.004	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
61	MP4B	X	-8.658	1.5
62	MP4B	Z	-14.995	1.5
63	MP4B	Mx	.004	1.5
64	MP4B	X	-8.658	3.5
65	MP4B	Z	-14.995	3.5
66	MP4B	Mx	.004	3.5
67	MP4C	X	-5.572	1.5
68	MP4C	Z	-9.652	1.5
69	MP4C	Mx	-.006	1.5
70	MP4C	X	-5.572	3.5
71	MP4C	Z	-9.652	3.5
72	MP4C	Mx	-.006	3.5
73	MP1A	X	-7.519	1
74	MP1A	Z	-13.023	1
75	MP1A	Mx	-.004	1
76	MP1B	X	-7.519	1
77	MP1B	Z	-13.023	1
78	MP1B	Mx	-.004	1
79	MP1C	X	-5.661	1
80	MP1C	Z	-9.805	1
81	MP1C	Mx	.006	1
82	MP2A	X	-7.283	1
83	MP2A	Z	-12.615	1
84	MP2A	Mx	-.004	1
85	MP2B	X	-7.283	1
86	MP2B	Z	-12.615	1
87	MP2B	Mx	-.004	1
88	MP2C	X	-4.72	1
89	MP2C	Z	-8.175	1
90	MP2C	Mx	.005	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	0	.5
2	MP3A	Z	-10.611	.5
3	MP3A	Mx	.006	.5
4	MP3A	X	0	4.5
5	MP3A	Z	-10.611	4.5
6	MP3A	Mx	.006	4.5
7	MP3B	X	0	.5
8	MP3B	Z	-7.914	.5
9	MP3B	Mx	.001	.5
10	MP3B	X	0	4.5
11	MP3B	Z	-7.914	4.5
12	MP3B	Mx	.001	4.5
13	MP3C	X	0	.5
14	MP3C	Z	-7.914	.5
15	MP3C	Mx	-.006	.5
16	MP3C	X	0	4.5
17	MP3C	Z	-7.914	4.5
18	MP3C	Mx	-.006	4.5
19	MP3A	X	0	.5
20	MP3A	Z	-10.571	.5
21	MP3A	Mx	-.006	.5
22	MP3A	X	0	4.5
23	MP3A	Z	-10.571	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
24	MP3A	Mx	-.006	4.5
25	MP3B	X	0	.5
26	MP3B	Z	-7.904	.5
27	MP3B	Mx	.006	.5
28	MP3B	X	0	4.5
29	MP3B	Z	-7.904	4.5
30	MP3B	Mx	.006	4.5
31	MP3C	X	0	.5
32	MP3C	Z	-7.904	.5
33	MP3C	Mx	-.001	.5
34	MP3C	X	0	4.5
35	MP3C	Z	-7.904	4.5
36	MP3C	Mx	-.001	4.5
37	MP1A	X	0	1.5
38	MP1A	Z	-6.153	1.5
39	MP1A	Mx	0	1.5
40	MP1A	X	0	3.5
41	MP1A	Z	-6.153	3.5
42	MP1A	Mx	0	3.5
43	MP1B	X	0	1.5
44	MP1B	Z	-3.345	1.5
45	MP1B	Mx	.001	1.5
46	MP1B	X	0	3.5
47	MP1B	Z	-3.345	3.5
48	MP1B	Mx	.001	3.5
49	MP1C	X	0	1.5
50	MP1C	Z	-3.345	1.5
51	MP1C	Mx	-.001	1.5
52	MP1C	X	0	3.5
53	MP1C	Z	-3.345	3.5
54	MP1C	Mx	-.001	3.5
55	MP4A	X	0	1.5
56	MP4A	Z	-6.18	1.5
57	MP4A	Mx	0	1.5
58	MP4A	X	0	3.5
59	MP4A	Z	-6.18	3.5
60	MP4A	Mx	0	3.5
61	MP4B	X	0	1.5
62	MP4B	Z	-4.016	1.5
63	MP4B	Mx	.002	1.5
64	MP4B	X	0	3.5
65	MP4B	Z	-4.016	3.5
66	MP4B	Mx	.002	3.5
67	MP4C	X	0	1.5
68	MP4C	Z	-4.016	1.5
69	MP4C	Mx	-.002	1.5
70	MP4C	X	0	3.5
71	MP4C	Z	-4.016	3.5
72	MP4C	Mx	-.002	3.5
73	MP1A	X	0	1
74	MP1A	Z	-4.897	1
75	MP1A	Mx	0	1
76	MP1B	X	0	1
77	MP1B	Z	-3.679	1
78	MP1B	Mx	-.002	1
79	MP1C	X	0	1
80	MP1C	Z	-3.679	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
81	MP1C	Mx	.002	1
82	MP2A	X	0	1
83	MP2A	Z	-4.897	1
84	MP2A	Mx	0	1
85	MP2B	X	0	1
86	MP2B	Z	-3.213	1
87	MP2B	Mx	-.001	1
88	MP2C	X	0	1
89	MP2C	Z	-3.213	1
90	MP2C	Mx	.001	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	4.856	.5
2	MP3A	Z	-8.41	.5
3	MP3A	Mx	.002	.5
4	MP3A	X	4.856	4.5
5	MP3A	Z	-8.41	4.5
6	MP3A	Mx	.002	4.5
7	MP3B	X	3.507	.5
8	MP3B	Z	-6.075	.5
9	MP3B	Mx	.004	.5
10	MP3B	X	3.507	4.5
11	MP3B	Z	-6.075	4.5
12	MP3B	Mx	.004	4.5
13	MP3C	X	4.856	.5
14	MP3C	Z	-8.41	.5
15	MP3C	Mx	-.007	.5
16	MP3C	X	4.856	4.5
17	MP3C	Z	-8.41	4.5
18	MP3C	Mx	-.007	4.5
19	MP3A	X	4.841	.5
20	MP3A	Z	-8.385	.5
21	MP3A	Mx	-.007	.5
22	MP3A	X	4.841	4.5
23	MP3A	Z	-8.385	4.5
24	MP3A	Mx	-.007	4.5
25	MP3B	X	3.507	.5
26	MP3B	Z	-6.075	.5
27	MP3B	Mx	.004	.5
28	MP3B	X	3.507	4.5
29	MP3B	Z	-6.075	4.5
30	MP3B	Mx	.004	4.5
31	MP3C	X	4.841	.5
32	MP3C	Z	-8.385	.5
33	MP3C	Mx	.002	.5
34	MP3C	X	4.841	4.5
35	MP3C	Z	-8.385	4.5
36	MP3C	Mx	.002	4.5
37	MP1A	X	2.609	1.5
38	MP1A	Z	-4.518	1.5
39	MP1A	Mx	-.001	1.5
40	MP1A	X	2.609	3.5
41	MP1A	Z	-4.518	3.5
42	MP1A	Mx	-.001	3.5
43	MP1B	X	1.205	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
44	MP1B	Z	-2.086	1.5
45	MP1B	Mx	.001	1.5
46	MP1B	X	1.205	3.5
47	MP1B	Z	-2.086	3.5
48	MP1B	Mx	.001	3.5
49	MP1C	X	2.609	1.5
50	MP1C	Z	-4.518	1.5
51	MP1C	Mx	-.001	1.5
52	MP1C	X	2.609	3.5
53	MP1C	Z	-4.518	3.5
54	MP1C	Mx	-.001	3.5
55	MP4A	X	2.729	1.5
56	MP4A	Z	-4.727	1.5
57	MP4A	Mx	-.001	1.5
58	MP4A	X	2.729	3.5
59	MP4A	Z	-4.727	3.5
60	MP4A	Mx	-.001	3.5
61	MP4B	X	1.648	1.5
62	MP4B	Z	-2.854	1.5
63	MP4B	Mx	.002	1.5
64	MP4B	X	1.648	3.5
65	MP4B	Z	-2.854	3.5
66	MP4B	Mx	.002	3.5
67	MP4C	X	2.729	1.5
68	MP4C	Z	-4.727	1.5
69	MP4C	Mx	-.001	1.5
70	MP4C	X	2.729	3.5
71	MP4C	Z	-4.727	3.5
72	MP4C	Mx	-.001	3.5
73	MP1A	X	2.245	1
74	MP1A	Z	-3.889	1
75	MP1A	Mx	.001	1
76	MP1B	X	1.637	1
77	MP1B	Z	-2.835	1
78	MP1B	Mx	-.002	1
79	MP1C	X	2.245	1
80	MP1C	Z	-3.889	1
81	MP1C	Mx	.001	1
82	MP2A	X	2.168	1
83	MP2A	Z	-3.754	1
84	MP2A	Mx	.001	1
85	MP2B	X	1.326	1
86	MP2B	Z	-2.296	1
87	MP2B	Mx	-.001	1
88	MP2C	X	2.168	1
89	MP2C	Z	-3.754	1
90	MP2C	Mx	.001	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	6.853	.5
2	MP3A	Z	-3.957	.5
3	MP3A	Mx	-.001	.5
4	MP3A	X	6.853	4.5
5	MP3A	Z	-3.957	4.5
6	MP3A	Mx	-.001	4.5

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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
7	MP3B	X	6.853 .5
8	MP3B	Z	-3.957 .5
9	MP3B	Mx	.006 .5
10	MP3B	X	6.853 4.5
11	MP3B	Z	-3.957 4.5
12	MP3B	Mx	.006 4.5
13	MP3C	X	9.189 .5
14	MP3C	Z	-5.305 .5
15	MP3C	Mx	-.006 .5
16	MP3C	X	9.189 4.5
17	MP3C	Z	-5.305 4.5
18	MP3C	Mx	-.006 4.5
19	MP3A	X	6.845 .5
20	MP3A	Z	-3.952 .5
21	MP3A	Mx	-.006 .5
22	MP3A	X	6.845 4.5
23	MP3A	Z	-3.952 4.5
24	MP3A	Mx	-.006 4.5
25	MP3B	X	6.845 .5
26	MP3B	Z	-3.952 .5
27	MP3B	Mx	.001 .5
28	MP3B	X	6.845 4.5
29	MP3B	Z	-3.952 4.5
30	MP3B	Mx	.001 4.5
31	MP3C	X	9.155 .5
32	MP3C	Z	-5.286 .5
33	MP3C	Mx	.006 .5
34	MP3C	X	9.155 4.5
35	MP3C	Z	-5.286 4.5
36	MP3C	Mx	.006 4.5
37	MP1A	X	2.897 1.5
38	MP1A	Z	-1.673 1.5
39	MP1A	Mx	-.001 1.5
40	MP1A	X	2.897 3.5
41	MP1A	Z	-1.673 3.5
42	MP1A	Mx	-.001 3.5
43	MP1B	X	2.897 1.5
44	MP1B	Z	-1.673 1.5
45	MP1B	Mx	.001 1.5
46	MP1B	X	2.897 3.5
47	MP1B	Z	-1.673 3.5
48	MP1B	Mx	.001 3.5
49	MP1C	X	5.329 1.5
50	MP1C	Z	-3.077 1.5
51	MP1C	Mx	0 1.5
52	MP1C	X	5.329 3.5
53	MP1C	Z	-3.077 3.5
54	MP1C	Mx	0 3.5
55	MP4A	X	3.478 1.5
56	MP4A	Z	-2.008 1.5
57	MP4A	Mx	-.002 1.5
58	MP4A	X	3.478 3.5
59	MP4A	Z	-2.008 3.5
60	MP4A	Mx	-.002 3.5
61	MP4B	X	3.478 1.5
62	MP4B	Z	-2.008 1.5
63	MP4B	Mx	.002 1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
64	MP4B	X	3.478	3.5
65	MP4B	Z	-2.008	3.5
66	MP4B	Mx	.002	3.5
67	MP4C	X	5.352	1.5
68	MP4C	Z	-3.09	1.5
69	MP4C	Mx	0	1.5
70	MP4C	X	5.352	3.5
71	MP4C	Z	-3.09	3.5
72	MP4C	Mx	0	3.5
73	MP1A	X	3.186	1
74	MP1A	Z	-1.839	1
75	MP1A	Mx	.002	1
76	MP1B	X	3.186	1
77	MP1B	Z	-1.839	1
78	MP1B	Mx	-.002	1
79	MP1C	X	4.241	1
80	MP1C	Z	-2.448	1
81	MP1C	Mx	0	1
82	MP2A	X	2.782	1
83	MP2A	Z	-1.606	1
84	MP2A	Mx	.001	1
85	MP2B	X	2.782	1
86	MP2B	Z	-1.606	1
87	MP2B	Mx	-.001	1
88	MP2C	X	4.241	1
89	MP2C	Z	-2.448	1
90	MP2C	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	7.015	.5
2	MP3A	Z	0	.5
3	MP3A	Mx	-.004	.5
4	MP3A	X	7.015	4.5
5	MP3A	Z	0	4.5
6	MP3A	Mx	-.004	4.5
7	MP3B	X	9.712	.5
8	MP3B	Z	0	.5
9	MP3B	Mx	.007	.5
10	MP3B	X	9.712	4.5
11	MP3B	Z	0	4.5
12	MP3B	Mx	.007	4.5
13	MP3C	X	9.712	.5
14	MP3C	Z	0	.5
15	MP3C	Mx	-.002	.5
16	MP3C	X	9.712	4.5
17	MP3C	Z	0	4.5
18	MP3C	Mx	-.002	4.5
19	MP3A	X	7.015	.5
20	MP3A	Z	0	.5
21	MP3A	Mx	-.004	.5
22	MP3A	X	7.015	4.5
23	MP3A	Z	0	4.5
24	MP3A	Mx	-.004	4.5
25	MP3B	X	9.682	.5
26	MP3B	Z	0	.5

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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
27	MP3B	Mx	.5
28	MP3B	X	4.5
29	MP3B	Z	4.5
30	MP3B	Mx	4.5
31	MP3C	X	.5
32	MP3C	Z	.5
33	MP3C	Mx	.5
34	MP3C	X	4.5
35	MP3C	Z	4.5
36	MP3C	Mx	4.5
37	MP1A	X	1.5
38	MP1A	Z	1.5
39	MP1A	Mx	1.5
40	MP1A	X	3.5
41	MP1A	Z	3.5
42	MP1A	Mx	3.5
43	MP1B	X	1.5
44	MP1B	Z	1.5
45	MP1B	Mx	1.5
46	MP1B	X	3.5
47	MP1B	Z	3.5
48	MP1B	Mx	3.5
49	MP1C	X	1.5
50	MP1C	Z	1.5
51	MP1C	Mx	1.5
52	MP1C	X	3.5
53	MP1C	Z	3.5
54	MP1C	Mx	3.5
55	MP4A	X	1.5
56	MP4A	Z	1.5
57	MP4A	Mx	1.5
58	MP4A	X	3.5
59	MP4A	Z	3.5
60	MP4A	Mx	3.5
61	MP4B	X	1.5
62	MP4B	Z	1.5
63	MP4B	Mx	1.5
64	MP4B	X	3.5
65	MP4B	Z	3.5
66	MP4B	Mx	3.5
67	MP4C	X	1.5
68	MP4C	Z	1.5
69	MP4C	Mx	1.5
70	MP4C	X	3.5
71	MP4C	Z	3.5
72	MP4C	Mx	3.5
73	MP1A	X	1
74	MP1A	Z	1
75	MP1A	Mx	1
76	MP1B	X	1
77	MP1B	Z	1
78	MP1B	Mx	1
79	MP1C	X	1
80	MP1C	Z	1
81	MP1C	Mx	1
82	MP2A	X	1
83	MP2A	Z	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
84	MP2A	Mx	.001	1
85	MP2B	X	4.335	1
86	MP2B	Z	0	1
87	MP2B	Mx	-.001	1
88	MP2C	X	4.335	1
89	MP2C	Z	0	1
90	MP2C	Mx	-.001	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	6.853	.5
2	MP3A	Z	3.957	.5
3	MP3A	Mx	-.006	.5
4	MP3A	X	6.853	4.5
5	MP3A	Z	3.957	4.5
6	MP3A	Mx	-.006	4.5
7	MP3B	X	9.189	.5
8	MP3B	Z	5.305	.5
9	MP3B	Mx	.006	.5
10	MP3B	X	9.189	4.5
11	MP3B	Z	5.305	4.5
12	MP3B	Mx	.006	4.5
13	MP3C	X	6.853	.5
14	MP3C	Z	3.957	.5
15	MP3C	Mx	.001	.5
16	MP3C	X	6.853	4.5
17	MP3C	Z	3.957	4.5
18	MP3C	Mx	.001	4.5
19	MP3A	X	6.845	.5
20	MP3A	Z	3.952	.5
21	MP3A	Mx	-.001	.5
22	MP3A	X	6.845	4.5
23	MP3A	Z	3.952	4.5
24	MP3A	Mx	-.001	4.5
25	MP3B	X	9.155	.5
26	MP3B	Z	5.286	.5
27	MP3B	Mx	-.006	.5
28	MP3B	X	9.155	4.5
29	MP3B	Z	5.286	4.5
30	MP3B	Mx	-.006	4.5
31	MP3C	X	6.845	.5
32	MP3C	Z	3.952	.5
33	MP3C	Mx	.006	.5
34	MP3C	X	6.845	4.5
35	MP3C	Z	3.952	4.5
36	MP3C	Mx	.006	4.5
37	MP1A	X	2.897	1.5
38	MP1A	Z	1.673	1.5
39	MP1A	Mx	-.001	1.5
40	MP1A	X	2.897	3.5
41	MP1A	Z	1.673	3.5
42	MP1A	Mx	-.001	3.5
43	MP1B	X	5.329	1.5
44	MP1B	Z	3.077	1.5
45	MP1B	Mx	0	1.5
46	MP1B	X	5.329	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
47	MP1B	Z	3.077	3.5
48	MP1B	Mx	0	3.5
49	MP1C	X	2.897	1.5
50	MP1C	Z	1.673	1.5
51	MP1C	Mx	.001	1.5
52	MP1C	X	2.897	3.5
53	MP1C	Z	1.673	3.5
54	MP1C	Mx	.001	3.5
55	MP4A	X	3.478	1.5
56	MP4A	Z	2.008	1.5
57	MP4A	Mx	-.002	1.5
58	MP4A	X	3.478	3.5
59	MP4A	Z	2.008	3.5
60	MP4A	Mx	-.002	3.5
61	MP4B	X	5.352	1.5
62	MP4B	Z	3.09	1.5
63	MP4B	Mx	0	1.5
64	MP4B	X	5.352	3.5
65	MP4B	Z	3.09	3.5
66	MP4B	Mx	0	3.5
67	MP4C	X	3.478	1.5
68	MP4C	Z	2.008	1.5
69	MP4C	Mx	.002	1.5
70	MP4C	X	3.478	3.5
71	MP4C	Z	2.008	3.5
72	MP4C	Mx	.002	3.5
73	MP1A	X	3.186	1
74	MP1A	Z	1.839	1
75	MP1A	Mx	.002	1
76	MP1B	X	4.241	1
77	MP1B	Z	2.448	1
78	MP1B	Mx	0	1
79	MP1C	X	3.186	1
80	MP1C	Z	1.839	1
81	MP1C	Mx	-.002	1
82	MP2A	X	2.782	1
83	MP2A	Z	1.606	1
84	MP2A	Mx	.001	1
85	MP2B	X	4.241	1
86	MP2B	Z	2.448	1
87	MP2B	Mx	0	1
88	MP2C	X	2.782	1
89	MP2C	Z	1.606	1
90	MP2C	Mx	-.001	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	4.856	.5
2	MP3A	Z	8.41	.5
3	MP3A	Mx	-.007	.5
4	MP3A	X	4.856	4.5
5	MP3A	Z	8.41	4.5
6	MP3A	Mx	-.007	4.5
7	MP3B	X	4.856	.5
8	MP3B	Z	8.41	.5
9	MP3B	Mx	.002	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
10	MP3B	X	4.856	4.5
11	MP3B	Z	8.41	4.5
12	MP3B	Mx	.002	4.5
13	MP3C	X	3.507	.5
14	MP3C	Z	6.075	.5
15	MP3C	Mx	.004	.5
16	MP3C	X	3.507	4.5
17	MP3C	Z	6.075	4.5
18	MP3C	Mx	.004	4.5
19	MP3A	X	4.841	.5
20	MP3A	Z	8.385	.5
21	MP3A	Mx	.002	.5
22	MP3A	X	4.841	4.5
23	MP3A	Z	8.385	4.5
24	MP3A	Mx	.002	4.5
25	MP3B	X	4.841	.5
26	MP3B	Z	8.385	.5
27	MP3B	Mx	-.007	.5
28	MP3B	X	4.841	4.5
29	MP3B	Z	8.385	4.5
30	MP3B	Mx	-.007	4.5
31	MP3C	X	3.507	.5
32	MP3C	Z	6.075	.5
33	MP3C	Mx	.004	.5
34	MP3C	X	3.507	4.5
35	MP3C	Z	6.075	4.5
36	MP3C	Mx	.004	4.5
37	MP1A	X	2.609	1.5
38	MP1A	Z	4.518	1.5
39	MP1A	Mx	-.001	1.5
40	MP1A	X	2.609	3.5
41	MP1A	Z	4.518	3.5
42	MP1A	Mx	-.001	3.5
43	MP1B	X	2.609	1.5
44	MP1B	Z	4.518	1.5
45	MP1B	Mx	-.001	1.5
46	MP1B	X	2.609	3.5
47	MP1B	Z	4.518	3.5
48	MP1B	Mx	-.001	3.5
49	MP1C	X	1.205	1.5
50	MP1C	Z	2.086	1.5
51	MP1C	Mx	.001	1.5
52	MP1C	X	1.205	3.5
53	MP1C	Z	2.086	3.5
54	MP1C	Mx	.001	3.5
55	MP4A	X	2.729	1.5
56	MP4A	Z	4.727	1.5
57	MP4A	Mx	-.001	1.5
58	MP4A	X	2.729	3.5
59	MP4A	Z	4.727	3.5
60	MP4A	Mx	-.001	3.5
61	MP4B	X	2.729	1.5
62	MP4B	Z	4.727	1.5
63	MP4B	Mx	-.001	1.5
64	MP4B	X	2.729	3.5
65	MP4B	Z	4.727	3.5
66	MP4B	Mx	-.001	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
67	MP4C	X	1.648	1.5
68	MP4C	Z	2.854	1.5
69	MP4C	Mx	.002	1.5
70	MP4C	X	1.648	3.5
71	MP4C	Z	2.854	3.5
72	MP4C	Mx	.002	3.5
73	MP1A	X	2.245	1
74	MP1A	Z	3.889	1
75	MP1A	Mx	.001	1
76	MP1B	X	2.245	1
77	MP1B	Z	3.889	1
78	MP1B	Mx	.001	1
79	MP1C	X	1.637	1
80	MP1C	Z	2.835	1
81	MP1C	Mx	-.002	1
82	MP2A	X	2.168	1
83	MP2A	Z	3.754	1
84	MP2A	Mx	.001	1
85	MP2B	X	2.168	1
86	MP2B	Z	3.754	1
87	MP2B	Mx	.001	1
88	MP2C	X	1.326	1
89	MP2C	Z	2.296	1
90	MP2C	Mx	-.001	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	0	.5
2	MP3A	Z	10.611	.5
3	MP3A	Mx	-.006	.5
4	MP3A	X	0	4.5
5	MP3A	Z	10.611	4.5
6	MP3A	Mx	-.006	4.5
7	MP3B	X	0	.5
8	MP3B	Z	7.914	.5
9	MP3B	Mx	-.001	.5
10	MP3B	X	0	4.5
11	MP3B	Z	7.914	4.5
12	MP3B	Mx	-.001	4.5
13	MP3C	X	0	.5
14	MP3C	Z	7.914	.5
15	MP3C	Mx	.006	.5
16	MP3C	X	0	4.5
17	MP3C	Z	7.914	4.5
18	MP3C	Mx	.006	4.5
19	MP3A	X	0	.5
20	MP3A	Z	10.571	.5
21	MP3A	Mx	.006	.5
22	MP3A	X	0	4.5
23	MP3A	Z	10.571	4.5
24	MP3A	Mx	.006	4.5
25	MP3B	X	0	.5
26	MP3B	Z	7.904	.5
27	MP3B	Mx	-.006	.5
28	MP3B	X	0	4.5
29	MP3B	Z	7.904	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP3B	Mx	-.006	4.5
31	MP3C	X	0	.5
32	MP3C	Z	7.904	.5
33	MP3C	Mx	.001	.5
34	MP3C	X	0	4.5
35	MP3C	Z	7.904	4.5
36	MP3C	Mx	.001	4.5
37	MP1A	X	0	1.5
38	MP1A	Z	6.153	1.5
39	MP1A	Mx	0	1.5
40	MP1A	X	0	3.5
41	MP1A	Z	6.153	3.5
42	MP1A	Mx	0	3.5
43	MP1B	X	0	1.5
44	MP1B	Z	3.345	1.5
45	MP1B	Mx	-.001	1.5
46	MP1B	X	0	3.5
47	MP1B	Z	3.345	3.5
48	MP1B	Mx	-.001	3.5
49	MP1C	X	0	1.5
50	MP1C	Z	3.345	1.5
51	MP1C	Mx	.001	1.5
52	MP1C	X	0	3.5
53	MP1C	Z	3.345	3.5
54	MP1C	Mx	.001	3.5
55	MP4A	X	0	1.5
56	MP4A	Z	6.18	1.5
57	MP4A	Mx	0	1.5
58	MP4A	X	0	3.5
59	MP4A	Z	6.18	3.5
60	MP4A	Mx	0	3.5
61	MP4B	X	0	1.5
62	MP4B	Z	4.016	1.5
63	MP4B	Mx	-.002	1.5
64	MP4B	X	0	3.5
65	MP4B	Z	4.016	3.5
66	MP4B	Mx	-.002	3.5
67	MP4C	X	0	1.5
68	MP4C	Z	4.016	1.5
69	MP4C	Mx	.002	1.5
70	MP4C	X	0	3.5
71	MP4C	Z	4.016	3.5
72	MP4C	Mx	.002	3.5
73	MP1A	X	0	1
74	MP1A	Z	4.897	1
75	MP1A	Mx	0	1
76	MP1B	X	0	1
77	MP1B	Z	3.679	1
78	MP1B	Mx	.002	1
79	MP1C	X	0	1
80	MP1C	Z	3.679	1
81	MP1C	Mx	-.002	1
82	MP2A	X	0	1
83	MP2A	Z	4.897	1
84	MP2A	Mx	0	1
85	MP2B	X	0	1
86	MP2B	Z	3.213	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
87	MP2B	Mx	.001	1
88	MP2C	X	0	1
89	MP2C	Z	3.213	1
90	MP2C	Mx	-.001	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-4.856	.5
2	MP3A	Z	8.41	.5
3	MP3A	Mx	-.002	.5
4	MP3A	X	-4.856	4.5
5	MP3A	Z	8.41	4.5
6	MP3A	Mx	-.002	4.5
7	MP3B	X	-3.507	.5
8	MP3B	Z	6.075	.5
9	MP3B	Mx	-.004	.5
10	MP3B	X	-3.507	4.5
11	MP3B	Z	6.075	4.5
12	MP3B	Mx	-.004	4.5
13	MP3C	X	-4.856	.5
14	MP3C	Z	8.41	.5
15	MP3C	Mx	.007	.5
16	MP3C	X	-4.856	4.5
17	MP3C	Z	8.41	4.5
18	MP3C	Mx	.007	4.5
19	MP3A	X	-4.841	.5
20	MP3A	Z	8.385	.5
21	MP3A	Mx	.007	.5
22	MP3A	X	-4.841	4.5
23	MP3A	Z	8.385	4.5
24	MP3A	Mx	.007	4.5
25	MP3B	X	-3.507	.5
26	MP3B	Z	6.075	.5
27	MP3B	Mx	-.004	.5
28	MP3B	X	-3.507	4.5
29	MP3B	Z	6.075	4.5
30	MP3B	Mx	-.004	4.5
31	MP3C	X	-4.841	.5
32	MP3C	Z	8.385	.5
33	MP3C	Mx	-.002	.5
34	MP3C	X	-4.841	4.5
35	MP3C	Z	8.385	4.5
36	MP3C	Mx	-.002	4.5
37	MP1A	X	-2.609	1.5
38	MP1A	Z	4.518	1.5
39	MP1A	Mx	.001	1.5
40	MP1A	X	-2.609	3.5
41	MP1A	Z	4.518	3.5
42	MP1A	Mx	.001	3.5
43	MP1B	X	-1.205	1.5
44	MP1B	Z	2.086	1.5
45	MP1B	Mx	-.001	1.5
46	MP1B	X	-1.205	3.5
47	MP1B	Z	2.086	3.5
48	MP1B	Mx	-.001	3.5
49	MP1C	X	-2.609	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
50	MP1C	Z	4.518	1.5
51	MP1C	Mx	.001	1.5
52	MP1C	X	-2.609	3.5
53	MP1C	Z	4.518	3.5
54	MP1C	Mx	.001	3.5
55	MP4A	X	-2.729	1.5
56	MP4A	Z	4.727	1.5
57	MP4A	Mx	.001	1.5
58	MP4A	X	-2.729	3.5
59	MP4A	Z	4.727	3.5
60	MP4A	Mx	.001	3.5
61	MP4B	X	-1.648	1.5
62	MP4B	Z	2.854	1.5
63	MP4B	Mx	-.002	1.5
64	MP4B	X	-1.648	3.5
65	MP4B	Z	2.854	3.5
66	MP4B	Mx	-.002	3.5
67	MP4C	X	-2.729	1.5
68	MP4C	Z	4.727	1.5
69	MP4C	Mx	.001	1.5
70	MP4C	X	-2.729	3.5
71	MP4C	Z	4.727	3.5
72	MP4C	Mx	.001	3.5
73	MP1A	X	-2.245	1
74	MP1A	Z	3.889	1
75	MP1A	Mx	-.001	1
76	MP1B	X	-1.637	1
77	MP1B	Z	2.835	1
78	MP1B	Mx	.002	1
79	MP1C	X	-2.245	1
80	MP1C	Z	3.889	1
81	MP1C	Mx	-.001	1
82	MP2A	X	-2.168	1
83	MP2A	Z	3.754	1
84	MP2A	Mx	-.001	1
85	MP2B	X	-1.326	1
86	MP2B	Z	2.296	1
87	MP2B	Mx	.001	1
88	MP2C	X	-2.168	1
89	MP2C	Z	3.754	1
90	MP2C	Mx	-.001	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-6.853	.5
2	MP3A	Z	3.957	.5
3	MP3A	Mx	.001	.5
4	MP3A	X	-6.853	4.5
5	MP3A	Z	3.957	4.5
6	MP3A	Mx	.001	4.5
7	MP3B	X	-6.853	.5
8	MP3B	Z	3.957	.5
9	MP3B	Mx	-.006	.5
10	MP3B	X	-6.853	4.5
11	MP3B	Z	3.957	4.5
12	MP3B	Mx	-.006	4.5

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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]	
13	MP3C	X	-9.189	.5
14	MP3C	Z	5.305	.5
15	MP3C	Mx	.006	.5
16	MP3C	X	-9.189	4.5
17	MP3C	Z	5.305	4.5
18	MP3C	Mx	.006	4.5
19	MP3A	X	-6.845	.5
20	MP3A	Z	3.952	.5
21	MP3A	Mx	.006	.5
22	MP3A	X	-6.845	4.5
23	MP3A	Z	3.952	4.5
24	MP3A	Mx	.006	4.5
25	MP3B	X	-6.845	.5
26	MP3B	Z	3.952	.5
27	MP3B	Mx	-.001	.5
28	MP3B	X	-6.845	4.5
29	MP3B	Z	3.952	4.5
30	MP3B	Mx	-.001	4.5
31	MP3C	X	-9.155	.5
32	MP3C	Z	5.286	.5
33	MP3C	Mx	-.006	.5
34	MP3C	X	-9.155	4.5
35	MP3C	Z	5.286	4.5
36	MP3C	Mx	-.006	4.5
37	MP1A	X	-2.897	1.5
38	MP1A	Z	1.673	1.5
39	MP1A	Mx	.001	1.5
40	MP1A	X	-2.897	3.5
41	MP1A	Z	1.673	3.5
42	MP1A	Mx	.001	3.5
43	MP1B	X	-2.897	1.5
44	MP1B	Z	1.673	1.5
45	MP1B	Mx	-.001	1.5
46	MP1B	X	-2.897	3.5
47	MP1B	Z	1.673	3.5
48	MP1B	Mx	-.001	3.5
49	MP1C	X	-5.329	1.5
50	MP1C	Z	3.077	1.5
51	MP1C	Mx	0	1.5
52	MP1C	X	-5.329	3.5
53	MP1C	Z	3.077	3.5
54	MP1C	Mx	0	3.5
55	MP4A	X	-3.478	1.5
56	MP4A	Z	2.008	1.5
57	MP4A	Mx	.002	1.5
58	MP4A	X	-3.478	3.5
59	MP4A	Z	2.008	3.5
60	MP4A	Mx	.002	3.5
61	MP4B	X	-3.478	1.5
62	MP4B	Z	2.008	1.5
63	MP4B	Mx	-.002	1.5
64	MP4B	X	-3.478	3.5
65	MP4B	Z	2.008	3.5
66	MP4B	Mx	-.002	3.5
67	MP4C	X	-5.352	1.5
68	MP4C	Z	3.09	1.5
69	MP4C	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
70	MP4C	X	-5.352	3.5
71	MP4C	Z	3.09	3.5
72	MP4C	Mx	0	3.5
73	MP1A	X	-3.186	1
74	MP1A	Z	1.839	1
75	MP1A	Mx	-.002	1
76	MP1B	X	-3.186	1
77	MP1B	Z	1.839	1
78	MP1B	Mx	.002	1
79	MP1C	X	-4.241	1
80	MP1C	Z	2.448	1
81	MP1C	Mx	0	1
82	MP2A	X	-2.782	1
83	MP2A	Z	1.606	1
84	MP2A	Mx	-.001	1
85	MP2B	X	-2.782	1
86	MP2B	Z	1.606	1
87	MP2B	Mx	.001	1
88	MP2C	X	-4.241	1
89	MP2C	Z	2.448	1
90	MP2C	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-7.015	.5
2	MP3A	Z	0	.5
3	MP3A	Mx	.004	.5
4	MP3A	X	-7.015	4.5
5	MP3A	Z	0	4.5
6	MP3A	Mx	.004	4.5
7	MP3B	X	-9.712	.5
8	MP3B	Z	0	.5
9	MP3B	Mx	-.007	.5
10	MP3B	X	-9.712	4.5
11	MP3B	Z	0	4.5
12	MP3B	Mx	-.007	4.5
13	MP3C	X	-9.712	.5
14	MP3C	Z	0	.5
15	MP3C	Mx	.002	.5
16	MP3C	X	-9.712	4.5
17	MP3C	Z	0	4.5
18	MP3C	Mx	.002	4.5
19	MP3A	X	-7.015	.5
20	MP3A	Z	0	.5
21	MP3A	Mx	.004	.5
22	MP3A	X	-7.015	4.5
23	MP3A	Z	0	4.5
24	MP3A	Mx	.004	4.5
25	MP3B	X	-9.682	.5
26	MP3B	Z	0	.5
27	MP3B	Mx	.002	.5
28	MP3B	X	-9.682	4.5
29	MP3B	Z	0	4.5
30	MP3B	Mx	.002	4.5
31	MP3C	X	-9.682	.5
32	MP3C	Z	0	.5

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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
33	MP3C	Mx	.5
34	MP3C	X	4.5
35	MP3C	Z	4.5
36	MP3C	Mx	4.5
37	MP1A	X	1.5
38	MP1A	Z	1.5
39	MP1A	Mx	1.5
40	MP1A	X	3.5
41	MP1A	Z	3.5
42	MP1A	Mx	3.5
43	MP1B	X	1.5
44	MP1B	Z	1.5
45	MP1B	Mx	1.5
46	MP1B	X	3.5
47	MP1B	Z	3.5
48	MP1B	Mx	3.5
49	MP1C	X	1.5
50	MP1C	Z	1.5
51	MP1C	Mx	1.5
52	MP1C	X	3.5
53	MP1C	Z	3.5
54	MP1C	Mx	3.5
55	MP4A	X	1.5
56	MP4A	Z	1.5
57	MP4A	Mx	1.5
58	MP4A	X	3.5
59	MP4A	Z	3.5
60	MP4A	Mx	3.5
61	MP4B	X	1.5
62	MP4B	Z	1.5
63	MP4B	Mx	1.5
64	MP4B	X	3.5
65	MP4B	Z	3.5
66	MP4B	Mx	3.5
67	MP4C	X	1.5
68	MP4C	Z	1.5
69	MP4C	Mx	1.5
70	MP4C	X	3.5
71	MP4C	Z	3.5
72	MP4C	Mx	3.5
73	MP1A	X	1
74	MP1A	Z	1
75	MP1A	Mx	1
76	MP1B	X	1
77	MP1B	Z	1
78	MP1B	Mx	1
79	MP1C	X	1
80	MP1C	Z	1
81	MP1C	Mx	1
82	MP2A	X	1
83	MP2A	Z	1
84	MP2A	Mx	1
85	MP2B	X	1
86	MP2B	Z	1
87	MP2B	Mx	1
88	MP2C	X	1
89	MP2C	Z	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
90	MP2C	Mx	.001	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-6.853	.5
2	MP3A	Z	-3.957	.5
3	MP3A	Mx	.006	.5
4	MP3A	X	-6.853	4.5
5	MP3A	Z	-3.957	4.5
6	MP3A	Mx	.006	4.5
7	MP3B	X	-9.189	.5
8	MP3B	Z	-5.305	.5
9	MP3B	Mx	-.006	.5
10	MP3B	X	-9.189	4.5
11	MP3B	Z	-5.305	4.5
12	MP3B	Mx	-.006	4.5
13	MP3C	X	-6.853	.5
14	MP3C	Z	-3.957	.5
15	MP3C	Mx	-.001	.5
16	MP3C	X	-6.853	4.5
17	MP3C	Z	-3.957	4.5
18	MP3C	Mx	-.001	4.5
19	MP3A	X	-6.845	.5
20	MP3A	Z	-3.952	.5
21	MP3A	Mx	.001	.5
22	MP3A	X	-6.845	4.5
23	MP3A	Z	-3.952	4.5
24	MP3A	Mx	.001	4.5
25	MP3B	X	-9.155	.5
26	MP3B	Z	-5.286	.5
27	MP3B	Mx	.006	.5
28	MP3B	X	-9.155	4.5
29	MP3B	Z	-5.286	4.5
30	MP3B	Mx	.006	4.5
31	MP3C	X	-6.845	.5
32	MP3C	Z	-3.952	.5
33	MP3C	Mx	-.006	.5
34	MP3C	X	-6.845	4.5
35	MP3C	Z	-3.952	4.5
36	MP3C	Mx	-.006	4.5
37	MP1A	X	-2.897	1.5
38	MP1A	Z	-1.673	1.5
39	MP1A	Mx	.001	1.5
40	MP1A	X	-2.897	3.5
41	MP1A	Z	-1.673	3.5
42	MP1A	Mx	.001	3.5
43	MP1B	X	-5.329	1.5
44	MP1B	Z	-3.077	1.5
45	MP1B	Mx	0	1.5
46	MP1B	X	-5.329	3.5
47	MP1B	Z	-3.077	3.5
48	MP1B	Mx	0	3.5
49	MP1C	X	-2.897	1.5
50	MP1C	Z	-1.673	1.5
51	MP1C	Mx	-.001	1.5
52	MP1C	X	-2.897	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
53	MP1C	Z	-1.673	3.5
54	MP1C	Mx	-.001	3.5
55	MP4A	X	-3.478	1.5
56	MP4A	Z	-2.008	1.5
57	MP4A	Mx	.002	1.5
58	MP4A	X	-3.478	3.5
59	MP4A	Z	-2.008	3.5
60	MP4A	Mx	.002	3.5
61	MP4B	X	-5.352	1.5
62	MP4B	Z	-3.09	1.5
63	MP4B	Mx	0	1.5
64	MP4B	X	-5.352	3.5
65	MP4B	Z	-3.09	3.5
66	MP4B	Mx	0	3.5
67	MP4C	X	-3.478	1.5
68	MP4C	Z	-2.008	1.5
69	MP4C	Mx	-.002	1.5
70	MP4C	X	-3.478	3.5
71	MP4C	Z	-2.008	3.5
72	MP4C	Mx	-.002	3.5
73	MP1A	X	-3.186	1
74	MP1A	Z	-1.839	1
75	MP1A	Mx	-.002	1
76	MP1B	X	-4.241	1
77	MP1B	Z	-2.448	1
78	MP1B	Mx	0	1
79	MP1C	X	-3.186	1
80	MP1C	Z	-1.839	1
81	MP1C	Mx	.002	1
82	MP2A	X	-2.782	1
83	MP2A	Z	-1.606	1
84	MP2A	Mx	-.001	1
85	MP2B	X	-4.241	1
86	MP2B	Z	-2.448	1
87	MP2B	Mx	0	1
88	MP2C	X	-2.782	1
89	MP2C	Z	-1.606	1
90	MP2C	Mx	.001	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-4.856	.5
2	MP3A	Z	-8.41	.5
3	MP3A	Mx	.007	.5
4	MP3A	X	-4.856	4.5
5	MP3A	Z	-8.41	4.5
6	MP3A	Mx	.007	4.5
7	MP3B	X	-4.856	.5
8	MP3B	Z	-8.41	.5
9	MP3B	Mx	-.002	.5
10	MP3B	X	-4.856	4.5
11	MP3B	Z	-8.41	4.5
12	MP3B	Mx	-.002	4.5
13	MP3C	X	-3.507	.5
14	MP3C	Z	-6.075	.5
15	MP3C	Mx	-.004	.5



Company :
 Designer :
 Job Number :
 Model Name :

Aug 2, 2021
 3:24 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
16	MP3C	X	-3.507	4.5
17	MP3C	Z	-6.075	4.5
18	MP3C	Mx	-.004	4.5
19	MP3A	X	-4.841	.5
20	MP3A	Z	-8.385	.5
21	MP3A	Mx	-.002	.5
22	MP3A	X	-4.841	4.5
23	MP3A	Z	-8.385	4.5
24	MP3A	Mx	-.002	4.5
25	MP3B	X	-4.841	.5
26	MP3B	Z	-8.385	.5
27	MP3B	Mx	.007	.5
28	MP3B	X	-4.841	4.5
29	MP3B	Z	-8.385	4.5
30	MP3B	Mx	.007	4.5
31	MP3C	X	-3.507	.5
32	MP3C	Z	-6.075	.5
33	MP3C	Mx	-.004	.5
34	MP3C	X	-3.507	4.5
35	MP3C	Z	-6.075	4.5
36	MP3C	Mx	-.004	4.5
37	MP1A	X	-2.609	1.5
38	MP1A	Z	-4.518	1.5
39	MP1A	Mx	.001	1.5
40	MP1A	X	-2.609	3.5
41	MP1A	Z	-4.518	3.5
42	MP1A	Mx	.001	3.5
43	MP1B	X	-2.609	1.5
44	MP1B	Z	-4.518	1.5
45	MP1B	Mx	.001	1.5
46	MP1B	X	-2.609	3.5
47	MP1B	Z	-4.518	3.5
48	MP1B	Mx	.001	3.5
49	MP1C	X	-1.205	1.5
50	MP1C	Z	-2.086	1.5
51	MP1C	Mx	-.001	1.5
52	MP1C	X	-1.205	3.5
53	MP1C	Z	-2.086	3.5
54	MP1C	Mx	-.001	3.5
55	MP4A	X	-2.729	1.5
56	MP4A	Z	-4.727	1.5
57	MP4A	Mx	.001	1.5
58	MP4A	X	-2.729	3.5
59	MP4A	Z	-4.727	3.5
60	MP4A	Mx	.001	3.5
61	MP4B	X	-2.729	1.5
62	MP4B	Z	-4.727	1.5
63	MP4B	Mx	.001	1.5
64	MP4B	X	-2.729	3.5
65	MP4B	Z	-4.727	3.5
66	MP4B	Mx	.001	3.5
67	MP4C	X	-1.648	1.5
68	MP4C	Z	-2.854	1.5
69	MP4C	Mx	-.002	1.5
70	MP4C	X	-1.648	3.5
71	MP4C	Z	-2.854	3.5
72	MP4C	Mx	-.002	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
73	MP1A	X	-2.245	1
74	MP1A	Z	-3.889	1
75	MP1A	Mx	-.001	1
76	MP1B	X	-2.245	1
77	MP1B	Z	-3.889	1
78	MP1B	Mx	-.001	1
79	MP1C	X	-1.637	1
80	MP1C	Z	-2.835	1
81	MP1C	Mx	.002	1
82	MP2A	X	-2.168	1
83	MP2A	Z	-3.754	1
84	MP2A	Mx	-.001	1
85	MP2B	X	-2.168	1
86	MP2B	Z	-3.754	1
87	MP2B	Mx	-.001	1
88	MP2C	X	-1.326	1
89	MP2C	Z	-2.296	1
90	MP2C	Mx	.001	1

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	LIVE2	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	LIVE1	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

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

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location...	End Location[f...
1	FACE	Y	-6.566	-6.566	0	%100
2	M4	Y	-9.609	-9.609	0	%100
3	M10	Y	-9.609	-9.609	0	%100
4	MP1A	Y	-4.979	-4.979	0	%100
5	M43	Y	-9.609	-9.609	0	%100
6	M46	Y	-10.122	-10.122	0	%100
7	M51B	Y	-5.619	-5.619	0	%100
8	M52B	Y	-5.619	-5.619	0	%100
9	M76	Y	-10.109	-10.109	0	%100
10	M77	Y	-10.109	-10.109	0	%100
11	M80	Y	-10.122	-10.122	0	%100
12	M84	Y	-10.109	-10.109	0	%100
13	M85	Y	-10.109	-10.109	0	%100
14	M91	Y	-10.122	-10.122	0	%100
15	M28	Y	-9.609	-9.609	0	%100
16	M29	Y	-9.609	-9.609	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
17	M30	Y	-9.609	-9.609	0	%100
18	M31	Y	-10.122	-10.122	0	%100
19	M34	Y	-5.619	-5.619	0	%100
20	M35	Y	-5.619	-5.619	0	%100
21	M39	Y	-10.109	-10.109	0	%100
22	M40	Y	-10.109	-10.109	0	%100
23	M42	Y	-10.122	-10.122	0	%100
24	M44	Y	-10.109	-10.109	0	%100
25	M45	Y	-10.109	-10.109	0	%100
26	M47	Y	-10.122	-10.122	0	%100
27	M52A	Y	-9.609	-9.609	0	%100
28	M53	Y	-9.609	-9.609	0	%100
29	M54	Y	-9.609	-9.609	0	%100
30	M55	Y	-10.122	-10.122	0	%100
31	M58A	Y	-5.619	-5.619	0	%100
32	M59A	Y	-5.619	-5.619	0	%100
33	M63	Y	-10.109	-10.109	0	%100
34	M64	Y	-10.109	-10.109	0	%100
35	M66	Y	-10.122	-10.122	0	%100
36	M68	Y	-10.109	-10.109	0	%100
37	M69	Y	-10.109	-10.109	0	%100
38	M71	Y	-10.122	-10.122	0	%100
39	MP2A	Y	-4.979	-4.979	0	%100
40	MP3A	Y	-5.685	-5.685	0	%100
41	MP4A	Y	-4.979	-4.979	0	%100
42	M82	Y	-6.566	-6.566	0	%100
43	MP1C	Y	-4.979	-4.979	0	%100
44	MP2C	Y	-4.979	-4.979	0	%100
45	MP3C	Y	-5.685	-5.685	0	%100
46	MP4C	Y	-4.979	-4.979	0	%100
47	M91A	Y	-6.566	-6.566	0	%100
48	MP1B	Y	-4.979	-4.979	0	%100
49	MP2B	Y	-4.979	-4.979	0	%100
50	MP3B	Y	-5.685	-5.685	0	%100
51	MP4B	Y	-4.979	-4.979	0	%100
52	M100	Y	-5.685	-5.685	0	%100
53	M105	Y	-5.685	-5.685	0	%100
54	M110	Y	-5.685	-5.685	0	%100
55	M121	Y	-7.614	-7.614	0	%100
56	M128	Y	-7.614	-7.614	0	%100
57	M135	Y	-7.614	-7.614	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
1	FACE	X	0	0	0	%100
2	FACE	Z	-13.7	-13.7	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-11.776	-11.776	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	-9.298	-9.298	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	-11.776	-11.776	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	-23.49	-23.49	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
13	M51B	X	0	0	%100
14	M51B	Z	-3.261	-3.261	0
15	M52B	X	0	0	%100
16	M52B	Z	-3.261	-3.261	0
17	M76	X	0	0	%100
18	M76	Z	0	0	%100
19	M77	X	0	0	%100
20	M77	Z	-5.981	-5.981	0
21	M80	X	0	0	%100
22	M80	Z	-6.3	-6.3	0
23	M84	X	0	0	%100
24	M84	Z	0	0	%100
25	M85	X	0	0	%100
26	M85	Z	-5.981	-5.981	0
27	M91	X	0	0	%100
28	M91	Z	-6.3	-6.3	0
29	M28	X	0	0	%100
30	M28	Z	-10.438	-10.438	0
31	M29	X	0	0	%100
32	M29	Z	-2.944	-2.944	0
33	M30	X	0	0	%100
34	M30	Z	-2.944	-2.944	0
35	M31	X	0	0	%100
36	M31	Z	-5.872	-5.872	0
37	M34	X	0	0	%100
38	M34	Z	-3.261	-3.261	0
39	M35	X	0	0	%100
40	M35	Z	-13.043	-13.043	0
41	M39	X	0	0	%100
42	M39	Z	-17.617	-17.617	0
43	M40	X	0	0	%100
44	M40	Z	-5.981	-5.981	0
45	M42	X	0	0	%100
46	M42	Z	-6.3	-6.3	0
47	M44	X	0	0	%100
48	M44	Z	-17.617	-17.617	0
49	M45	X	0	0	%100
50	M45	Z	-23.924	-23.924	0
51	M47	X	0	0	%100
52	M47	Z	-25.199	-25.199	0
53	M52A	X	0	0	%100
54	M52A	Z	-10.438	-10.438	0
55	M53	X	0	0	%100
56	M53	Z	-2.944	-2.944	0
57	M54	X	0	0	%100
58	M54	Z	-2.944	-2.944	0
59	M55	X	0	0	%100
60	M55	Z	-5.872	-5.872	0
61	M58A	X	0	0	%100
62	M58A	Z	-13.043	-13.043	0
63	M59A	X	0	0	%100
64	M59A	Z	-3.261	-3.261	0
65	M63	X	0	0	%100
66	M63	Z	-17.617	-17.617	0
67	M64	X	0	0	%100
68	M64	Z	-23.924	-23.924	0
69	M66	X	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
70	M66	Z	-25.199	0	%100
71	M68	X	0	0	%100
72	M68	Z	-17.617	0	%100
73	M69	X	0	0	%100
74	M69	Z	-5.981	0	%100
75	M71	X	0	0	%100
76	M71	Z	-6.3	0	%100
77	MP2A	X	0	0	%100
78	MP2A	Z	-9.298	0	%100
79	MP3A	X	0	0	%100
80	MP3A	Z	-11.255	0	%100
81	MP4A	X	0	0	%100
82	MP4A	Z	-9.298	0	%100
83	M82	X	0	0	%100
84	M82	Z	-3.425	0	%100
85	MP1C	X	0	0	%100
86	MP1C	Z	-9.298	0	%100
87	MP2C	X	0	0	%100
88	MP2C	Z	-9.298	0	%100
89	MP3C	X	0	0	%100
90	MP3C	Z	-11.255	0	%100
91	MP4C	X	0	0	%100
92	MP4C	Z	-9.298	0	%100
93	M91A	X	0	0	%100
94	M91A	Z	-3.425	0	%100
95	MP1B	X	0	0	%100
96	MP1B	Z	-9.298	0	%100
97	MP2B	X	0	0	%100
98	MP2B	Z	-9.298	0	%100
99	MP3B	X	0	0	%100
100	MP3B	Z	-11.255	0	%100
101	MP4B	X	0	0	%100
102	MP4B	Z	-9.298	0	%100
103	M100	X	0	0	%100
104	M100	Z	-2.814	0	%100
105	M105	X	0	0	%100
106	M105	Z	-2.814	0	%100
107	M110	X	0	0	%100
108	M110	Z	-11.255	0	%100
109	M121	X	0	0	%100
110	M121	Z	-3.618	0	%100
111	M128	X	0	0	%100
112	M128	Z	-3.618	0	%100
113	M135	X	0	0	%100
114	M135	Z	-14.471	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
1	FACE	X	5.137	0	%100
2	FACE	Z	-8.898	0	%100
3	M4	X	1.74	0	%100
4	M4	Z	-3.013	0	%100
5	M10	X	4.416	0	%100
6	M10	Z	-7.649	0	%100
7	MP1A	X	4.649	0	%100
8	MP1A	Z	-8.052	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
9	M43	X	4.416	4.416	0	%100
10	M43	Z	-7.649	-7.649	0	%100
11	M46	X	8.809	8.809	0	%100
12	M46	Z	-15.257	-15.257	0	%100
13	M51B	X	4.891	4.891	0	%100
14	M51B	Z	-8.472	-8.472	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	2.936	2.936	0	%100
18	M76	Z	-5.086	-5.086	0	%100
19	M77	X	8.972	8.972	0	%100
20	M77	Z	-15.539	-15.539	0	%100
21	M80	X	9.45	9.45	0	%100
22	M80	Z	-16.367	-16.367	0	%100
23	M84	X	2.936	2.936	0	%100
24	M84	Z	-5.086	-5.086	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	0	0	0	%100
29	M28	X	1.74	1.74	0	%100
30	M28	Z	-3.013	-3.013	0	%100
31	M29	X	4.416	4.416	0	%100
32	M29	Z	-7.649	-7.649	0	%100
33	M30	X	4.416	4.416	0	%100
34	M30	Z	-7.649	-7.649	0	%100
35	M31	X	8.809	8.809	0	%100
36	M31	Z	-15.257	-15.257	0	%100
37	M34	X	0	0	0	%100
38	M34	Z	0	0	0	%100
39	M35	X	4.891	4.891	0	%100
40	M35	Z	-8.472	-8.472	0	%100
41	M39	X	2.936	2.936	0	%100
42	M39	Z	-5.086	-5.086	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	0	0	0	%100
47	M44	X	2.936	2.936	0	%100
48	M44	Z	-5.086	-5.086	0	%100
49	M45	X	8.972	8.972	0	%100
50	M45	Z	-15.539	-15.539	0	%100
51	M47	X	9.45	9.45	0	%100
52	M47	Z	-16.367	-16.367	0	%100
53	M52A	X	6.959	6.959	0	%100
54	M52A	Z	-12.053	-12.053	0	%100
55	M53	X	0	0	0	%100
56	M53	Z	0	0	0	%100
57	M54	X	0	0	0	%100
58	M54	Z	0	0	0	%100
59	M55	X	0	0	0	%100
60	M55	Z	0	0	0	%100
61	M58A	X	4.891	4.891	0	%100
62	M58A	Z	-8.472	-8.472	0	%100
63	M59A	X	4.891	4.891	0	%100
64	M59A	Z	-8.472	-8.472	0	%100
65	M63	X	11.745	11.745	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location...	End Locationf...
66	M63	Z	-20.343	-20.343	0 %100
67	M64	X	8.972	8.972	0 %100
68	M64	Z	-15.539	-15.539	0 %100
69	M66	X	9.45	9.45	0 %100
70	M66	Z	-16.367	-16.367	0 %100
71	M68	X	11.745	11.745	0 %100
72	M68	Z	-20.343	-20.343	0 %100
73	M69	X	8.972	8.972	0 %100
74	M69	Z	-15.539	-15.539	0 %100
75	M71	X	9.45	9.45	0 %100
76	M71	Z	-16.367	-16.367	0 %100
77	MP2A	X	4.649	4.649	0 %100
78	MP2A	Z	-8.052	-8.052	0 %100
79	MP3A	X	5.628	5.628	0 %100
80	MP3A	Z	-9.747	-9.747	0 %100
81	MP4A	X	4.649	4.649	0 %100
82	MP4A	Z	-8.052	-8.052	0 %100
83	M82	X	5.137	5.137	0 %100
84	M82	Z	-8.898	-8.898	0 %100
85	MP1C	X	4.649	4.649	0 %100
86	MP1C	Z	-8.052	-8.052	0 %100
87	MP2C	X	4.649	4.649	0 %100
88	MP2C	Z	-8.052	-8.052	0 %100
89	MP3C	X	5.628	5.628	0 %100
90	MP3C	Z	-9.747	-9.747	0 %100
91	MP4C	X	4.649	4.649	0 %100
92	MP4C	Z	-8.052	-8.052	0 %100
93	M91A	X	0	0	0 %100
94	M91A	Z	0	0	0 %100
95	MP1B	X	4.649	4.649	0 %100
96	MP1B	Z	-8.052	-8.052	0 %100
97	MP2B	X	4.649	4.649	0 %100
98	MP2B	Z	-8.052	-8.052	0 %100
99	MP3B	X	5.628	5.628	0 %100
100	MP3B	Z	-9.747	-9.747	0 %100
101	MP4B	X	4.649	4.649	0 %100
102	MP4B	Z	-8.052	-8.052	0 %100
103	M100	X	4.221	4.221	0 %100
104	M100	Z	-7.311	-7.311	0 %100
105	M105	X	0	0	0 %100
106	M105	Z	0	0	0 %100
107	M110	X	4.221	4.221	0 %100
108	M110	Z	-7.311	-7.311	0 %100
109	M121	X	5.426	5.426	0 %100
110	M121	Z	-9.399	-9.399	0 %100
111	M128	X	0	0	0 %100
112	M128	Z	0	0	0 %100
113	M135	X	5.426	5.426	0 %100
114	M135	Z	-9.399	-9.399	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location...	End Locationf...
1	FACE	X	2.966	2.966	0 %100
2	FACE	Z	-1.712	-1.712	0 %100
3	M4	X	9.04	9.04	0 %100
4	M4	Z	-5.219	-5.219	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
5	M10	X	2.55	2.55	0 %100
6	M10	Z	-1.472	-1.472	0 %100
7	MP1A	X	8.052	8.052	0 %100
8	MP1A	Z	-4.649	-4.649	0 %100
9	M43	X	2.55	2.55	0 %100
10	M43	Z	-1.472	-1.472	0 %100
11	M46	X	5.086	5.086	0 %100
12	M46	Z	-2.936	-2.936	0 %100
13	M51B	X	11.296	11.296	0 %100
14	M51B	Z	-6.522	-6.522	0 %100
15	M52B	X	2.824	2.824	0 %100
16	M52B	Z	-1.63	-1.63	0 %100
17	M76	X	15.257	15.257	0 %100
18	M76	Z	-8.809	-8.809	0 %100
19	M77	X	20.719	20.719	0 %100
20	M77	Z	-11.962	-11.962	0 %100
21	M80	X	21.823	21.823	0 %100
22	M80	Z	-12.6	-12.6	0 %100
23	M84	X	15.257	15.257	0 %100
24	M84	Z	-8.809	-8.809	0 %100
25	M85	X	5.18	5.18	0 %100
26	M85	Z	-2.991	-2.991	0 %100
27	M91	X	5.456	5.456	0 %100
28	M91	Z	-3.15	-3.15	0 %100
29	M28	X	0	0	0 %100
30	M28	Z	0	0	0 %100
31	M29	X	10.199	10.199	0 %100
32	M29	Z	-5.888	-5.888	0 %100
33	M30	X	10.199	10.199	0 %100
34	M30	Z	-5.888	-5.888	0 %100
35	M31	X	20.343	20.343	0 %100
36	M31	Z	-11.745	-11.745	0 %100
37	M34	X	2.824	2.824	0 %100
38	M34	Z	-1.63	-1.63	0 %100
39	M35	X	2.824	2.824	0 %100
40	M35	Z	-1.63	-1.63	0 %100
41	M39	X	0	0	0 %100
42	M39	Z	0	0	0 %100
43	M40	X	5.18	5.18	0 %100
44	M40	Z	-2.991	-2.991	0 %100
45	M42	X	5.456	5.456	0 %100
46	M42	Z	-3.15	-3.15	0 %100
47	M44	X	0	0	0 %100
48	M44	Z	0	0	0 %100
49	M45	X	5.18	5.18	0 %100
50	M45	Z	-2.991	-2.991	0 %100
51	M47	X	5.456	5.456	0 %100
52	M47	Z	-3.15	-3.15	0 %100
53	M52A	X	9.04	9.04	0 %100
54	M52A	Z	-5.219	-5.219	0 %100
55	M53	X	2.55	2.55	0 %100
56	M53	Z	-1.472	-1.472	0 %100
57	M54	X	2.55	2.55	0 %100
58	M54	Z	-1.472	-1.472	0 %100
59	M55	X	5.086	5.086	0 %100
60	M55	Z	-2.936	-2.936	0 %100
61	M58A	X	2.824	2.824	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...]
62	M58A	Z	-1.63	0	%100
63	M59A	X	11.296	0	%100
64	M59A	Z	-6.522	0	%100
65	M63	X	15.257	0	%100
66	M63	Z	-8.809	0	%100
67	M64	X	5.18	0	%100
68	M64	Z	-2.991	0	%100
69	M66	X	5.456	0	%100
70	M66	Z	-3.15	0	%100
71	M68	X	15.257	0	%100
72	M68	Z	-8.809	0	%100
73	M69	X	20.719	0	%100
74	M69	Z	-11.962	0	%100
75	M71	X	21.823	0	%100
76	M71	Z	-12.6	0	%100
77	MP2A	X	8.052	0	%100
78	MP2A	Z	-4.649	0	%100
79	MP3A	X	9.747	0	%100
80	MP3A	Z	-5.628	0	%100
81	MP4A	X	8.052	0	%100
82	MP4A	Z	-4.649	0	%100
83	M82	X	11.864	0	%100
84	M82	Z	-6.85	0	%100
85	MP1C	X	8.052	0	%100
86	MP1C	Z	-4.649	0	%100
87	MP2C	X	8.052	0	%100
88	MP2C	Z	-4.649	0	%100
89	MP3C	X	9.747	0	%100
90	MP3C	Z	-5.628	0	%100
91	MP4C	X	8.052	0	%100
92	MP4C	Z	-4.649	0	%100
93	M91A	X	2.966	0	%100
94	M91A	Z	-1.712	0	%100
95	MP1B	X	8.052	0	%100
96	MP1B	Z	-4.649	0	%100
97	MP2B	X	8.052	0	%100
98	MP2B	Z	-4.649	0	%100
99	MP3B	X	9.747	0	%100
100	MP3B	Z	-5.628	0	%100
101	MP4B	X	8.052	0	%100
102	MP4B	Z	-4.649	0	%100
103	M100	X	9.747	0	%100
104	M100	Z	-5.628	0	%100
105	M105	X	2.437	0	%100
106	M105	Z	-1.407	0	%100
107	M110	X	2.437	0	%100
108	M110	Z	-1.407	0	%100
109	M121	X	12.532	0	%100
110	M121	Z	-7.235	0	%100
111	M128	X	3.133	0	%100
112	M128	Z	-1.809	0	%100
113	M135	X	3.133	0	%100
114	M135	Z	-1.809	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...]
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Member Distributed Loads (BLC 44 : Structure Wo (90 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
1	FACE	X	0	0	%100
2	FACE	Z	0	0	%100
3	M4	X	13.917	13.917	0
4	M4	Z	0	0	%100
5	M10	X	0	0	%100
6	M10	Z	0	0	%100
7	MP1A	X	9.298	9.298	0
8	MP1A	Z	0	0	%100
9	M43	X	0	0	%100
10	M43	Z	0	0	%100
11	M46	X	0	0	%100
12	M46	Z	0	0	%100
13	M51B	X	9.782	9.782	0
14	M51B	Z	0	0	%100
15	M52B	X	9.782	9.782	0
16	M52B	Z	0	0	%100
17	M76	X	23.49	23.49	0
18	M76	Z	0	0	%100
19	M77	X	17.943	17.943	0
20	M77	Z	0	0	%100
21	M80	X	18.899	18.899	0
22	M80	Z	0	0	%100
23	M84	X	23.49	23.49	0
24	M84	Z	0	0	%100
25	M85	X	17.943	17.943	0
26	M85	Z	0	0	%100
27	M91	X	18.899	18.899	0
28	M91	Z	0	0	%100
29	M28	X	3.479	3.479	0
30	M28	Z	0	0	%100
31	M29	X	8.832	8.832	0
32	M29	Z	0	0	%100
33	M30	X	8.832	8.832	0
34	M30	Z	0	0	%100
35	M31	X	17.617	17.617	0
36	M31	Z	0	0	%100
37	M34	X	9.782	9.782	0
38	M34	Z	0	0	%100
39	M35	X	0	0	%100
40	M35	Z	0	0	%100
41	M39	X	5.872	5.872	0
42	M39	Z	0	0	%100
43	M40	X	17.943	17.943	0
44	M40	Z	0	0	%100
45	M42	X	18.899	18.899	0
46	M42	Z	0	0	%100
47	M44	X	5.872	5.872	0
48	M44	Z	0	0	%100
49	M45	X	0	0	%100
50	M45	Z	0	0	%100
51	M47	X	0	0	%100
52	M47	Z	0	0	%100
53	M52A	X	3.479	3.479	0
54	M52A	Z	0	0	%100
55	M53	X	8.832	8.832	0
56	M53	Z	0	0	%100
57	M54	X	8.832	8.832	0

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	0	0	%100
59	M55	X	17.617	17.617	%100
60	M55	Z	0	0	%100
61	M58A	X	0	0	%100
62	M58A	Z	0	0	%100
63	M59A	X	9.782	9.782	%100
64	M59A	Z	0	0	%100
65	M63	X	5.872	5.872	%100
66	M63	Z	0	0	%100
67	M64	X	0	0	%100
68	M64	Z	0	0	%100
69	M66	X	0	0	%100
70	M66	Z	0	0	%100
71	M68	X	5.872	5.872	%100
72	M68	Z	0	0	%100
73	M69	X	17.943	17.943	%100
74	M69	Z	0	0	%100
75	M71	X	18.899	18.899	%100
76	M71	Z	0	0	%100
77	MP2A	X	9.298	9.298	%100
78	MP2A	Z	0	0	%100
79	MP3A	X	11.255	11.255	%100
80	MP3A	Z	0	0	%100
81	MP4A	X	9.298	9.298	%100
82	MP4A	Z	0	0	%100
83	M82	X	10.275	10.275	%100
84	M82	Z	0	0	%100
85	MP1C	X	9.298	9.298	%100
86	MP1C	Z	0	0	%100
87	MP2C	X	9.298	9.298	%100
88	MP2C	Z	0	0	%100
89	MP3C	X	11.255	11.255	%100
90	MP3C	Z	0	0	%100
91	MP4C	X	9.298	9.298	%100
92	MP4C	Z	0	0	%100
93	M91A	X	10.275	10.275	%100
94	M91A	Z	0	0	%100
95	MP1B	X	9.298	9.298	%100
96	MP1B	Z	0	0	%100
97	MP2B	X	9.298	9.298	%100
98	MP2B	Z	0	0	%100
99	MP3B	X	11.255	11.255	%100
100	MP3B	Z	0	0	%100
101	MP4B	X	9.298	9.298	%100
102	MP4B	Z	0	0	%100
103	M100	X	8.442	8.442	%100
104	M100	Z	0	0	%100
105	M105	X	8.442	8.442	%100
106	M105	Z	0	0	%100
107	M110	X	0	0	%100
108	M110	Z	0	0	%100
109	M121	X	10.853	10.853	%100
110	M121	Z	0	0	%100
111	M128	X	10.853	10.853	%100
112	M128	Z	0	0	%100
113	M135	X	0	0	%100
114	M135	Z	0	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[...
1	FACE	X	2.966	2.966	0 %100
2	FACE	Z	1.712	1.712	0 %100
3	M4	X	9.04	9.04	0 %100
4	M4	Z	5.219	5.219	0 %100
5	M10	X	2.55	2.55	0 %100
6	M10	Z	1.472	1.472	0 %100
7	MP1A	X	8.052	8.052	0 %100
8	MP1A	Z	4.649	4.649	0 %100
9	M43	X	2.55	2.55	0 %100
10	M43	Z	1.472	1.472	0 %100
11	M46	X	5.086	5.086	0 %100
12	M46	Z	2.936	2.936	0 %100
13	M51B	X	2.824	2.824	0 %100
14	M51B	Z	1.63	1.63	0 %100
15	M52B	X	11.296	11.296	0 %100
16	M52B	Z	6.522	6.522	0 %100
17	M76	X	15.257	15.257	0 %100
18	M76	Z	8.809	8.809	0 %100
19	M77	X	5.18	5.18	0 %100
20	M77	Z	2.991	2.991	0 %100
21	M80	X	5.456	5.456	0 %100
22	M80	Z	3.15	3.15	0 %100
23	M84	X	15.257	15.257	0 %100
24	M84	Z	8.809	8.809	0 %100
25	M85	X	20.719	20.719	0 %100
26	M85	Z	11.962	11.962	0 %100
27	M91	X	21.823	21.823	0 %100
28	M91	Z	12.6	12.6	0 %100
29	M28	X	9.04	9.04	0 %100
30	M28	Z	5.219	5.219	0 %100
31	M29	X	2.55	2.55	0 %100
32	M29	Z	1.472	1.472	0 %100
33	M30	X	2.55	2.55	0 %100
34	M30	Z	1.472	1.472	0 %100
35	M31	X	5.086	5.086	0 %100
36	M31	Z	2.936	2.936	0 %100
37	M34	X	11.296	11.296	0 %100
38	M34	Z	6.522	6.522	0 %100
39	M35	X	2.824	2.824	0 %100
40	M35	Z	1.63	1.63	0 %100
41	M39	X	15.257	15.257	0 %100
42	M39	Z	8.809	8.809	0 %100
43	M40	X	20.719	20.719	0 %100
44	M40	Z	11.962	11.962	0 %100
45	M42	X	21.823	21.823	0 %100
46	M42	Z	12.6	12.6	0 %100
47	M44	X	15.257	15.257	0 %100
48	M44	Z	8.809	8.809	0 %100
49	M45	X	5.18	5.18	0 %100
50	M45	Z	2.991	2.991	0 %100
51	M47	X	5.456	5.456	0 %100
52	M47	Z	3.15	3.15	0 %100
53	M52A	X	0	0	0 %100
54	M52A	Z	0	0	0 %100
55	M53	X	10.199	10.199	0 %100
56	M53	Z	5.888	5.888	0 %100
57	M54	X	10.199	10.199	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	5.888	5.888	0 %100
59	M55	X	20.343	20.343	0 %100
60	M55	Z	11.745	11.745	0 %100
61	M58A	X	2.824	2.824	0 %100
62	M58A	Z	1.63	1.63	0 %100
63	M59A	X	2.824	2.824	0 %100
64	M59A	Z	1.63	1.63	0 %100
65	M63	X	0	0	0 %100
66	M63	Z	0	0	0 %100
67	M64	X	5.18	5.18	0 %100
68	M64	Z	2.991	2.991	0 %100
69	M66	X	5.456	5.456	0 %100
70	M66	Z	3.15	3.15	0 %100
71	M68	X	0	0	0 %100
72	M68	Z	0	0	0 %100
73	M69	X	5.18	5.18	0 %100
74	M69	Z	2.991	2.991	0 %100
75	M71	X	5.456	5.456	0 %100
76	M71	Z	3.15	3.15	0 %100
77	MP2A	X	8.052	8.052	0 %100
78	MP2A	Z	4.649	4.649	0 %100
79	MP3A	X	9.747	9.747	0 %100
80	MP3A	Z	5.628	5.628	0 %100
81	MP4A	X	8.052	8.052	0 %100
82	MP4A	Z	4.649	4.649	0 %100
83	M82	X	2.966	2.966	0 %100
84	M82	Z	1.712	1.712	0 %100
85	MP1C	X	8.052	8.052	0 %100
86	MP1C	Z	4.649	4.649	0 %100
87	MP2C	X	8.052	8.052	0 %100
88	MP2C	Z	4.649	4.649	0 %100
89	MP3C	X	9.747	9.747	0 %100
90	MP3C	Z	5.628	5.628	0 %100
91	MP4C	X	8.052	8.052	0 %100
92	MP4C	Z	4.649	4.649	0 %100
93	M91A	X	11.864	11.864	0 %100
94	M91A	Z	6.85	6.85	0 %100
95	MP1B	X	8.052	8.052	0 %100
96	MP1B	Z	4.649	4.649	0 %100
97	MP2B	X	8.052	8.052	0 %100
98	MP2B	Z	4.649	4.649	0 %100
99	MP3B	X	9.747	9.747	0 %100
100	MP3B	Z	5.628	5.628	0 %100
101	MP4B	X	8.052	8.052	0 %100
102	MP4B	Z	4.649	4.649	0 %100
103	M100	X	2.437	2.437	0 %100
104	M100	Z	1.407	1.407	0 %100
105	M105	X	9.747	9.747	0 %100
106	M105	Z	5.628	5.628	0 %100
107	M110	X	2.437	2.437	0 %100
108	M110	Z	1.407	1.407	0 %100
109	M121	X	3.133	3.133	0 %100
110	M121	Z	1.809	1.809	0 %100
111	M128	X	12.532	12.532	0 %100
112	M128	Z	7.235	7.235	0 %100
113	M135	X	3.133	3.133	0 %100
114	M135	Z	1.809	1.809	0 %100



Company :
 Designer :
 Job Number :
 Model Name :

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
1	FACE	X	5.137	5.137	0	%100
2	FACE	Z	8.898	8.898	0	%100
3	M4	X	1.74	1.74	0	%100
4	M4	Z	3.013	3.013	0	%100
5	M10	X	4.416	4.416	0	%100
6	M10	Z	7.649	7.649	0	%100
7	MP1A	X	4.649	4.649	0	%100
8	MP1A	Z	8.052	8.052	0	%100
9	M43	X	4.416	4.416	0	%100
10	M43	Z	7.649	7.649	0	%100
11	M46	X	8.809	8.809	0	%100
12	M46	Z	15.257	15.257	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	4.891	4.891	0	%100
16	M52B	Z	8.472	8.472	0	%100
17	M76	X	2.936	2.936	0	%100
18	M76	Z	5.086	5.086	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	2.936	2.936	0	%100
24	M84	Z	5.086	5.086	0	%100
25	M85	X	8.972	8.972	0	%100
26	M85	Z	15.539	15.539	0	%100
27	M91	X	9.45	9.45	0	%100
28	M91	Z	16.367	16.367	0	%100
29	M28	X	6.959	6.959	0	%100
30	M28	Z	12.053	12.053	0	%100
31	M29	X	0	0	0	%100
32	M29	Z	0	0	0	%100
33	M30	X	0	0	0	%100
34	M30	Z	0	0	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	0	0	0	%100
37	M34	X	4.891	4.891	0	%100
38	M34	Z	8.472	8.472	0	%100
39	M35	X	4.891	4.891	0	%100
40	M35	Z	8.472	8.472	0	%100
41	M39	X	11.745	11.745	0	%100
42	M39	Z	20.343	20.343	0	%100
43	M40	X	8.972	8.972	0	%100
44	M40	Z	15.539	15.539	0	%100
45	M42	X	9.45	9.45	0	%100
46	M42	Z	16.367	16.367	0	%100
47	M44	X	11.745	11.745	0	%100
48	M44	Z	20.343	20.343	0	%100
49	M45	X	8.972	8.972	0	%100
50	M45	Z	15.539	15.539	0	%100
51	M47	X	9.45	9.45	0	%100
52	M47	Z	16.367	16.367	0	%100
53	M52A	X	1.74	1.74	0	%100
54	M52A	Z	3.013	3.013	0	%100
55	M53	X	4.416	4.416	0	%100
56	M53	Z	7.649	7.649	0	%100
57	M54	X	4.416	4.416	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	7.649	7.649	0 %100
59	M55	X	8.809	8.809	0 %100
60	M55	Z	15.257	15.257	0 %100
61	M58A	X	4.891	4.891	0 %100
62	M58A	Z	8.472	8.472	0 %100
63	M59A	X	0	0	0 %100
64	M59A	Z	0	0	0 %100
65	M63	X	2.936	2.936	0 %100
66	M63	Z	5.086	5.086	0 %100
67	M64	X	8.972	8.972	0 %100
68	M64	Z	15.539	15.539	0 %100
69	M66	X	9.45	9.45	0 %100
70	M66	Z	16.367	16.367	0 %100
71	M68	X	2.936	2.936	0 %100
72	M68	Z	5.086	5.086	0 %100
73	M69	X	0	0	0 %100
74	M69	Z	0	0	0 %100
75	M71	X	0	0	0 %100
76	M71	Z	0	0	0 %100
77	MP2A	X	4.649	4.649	0 %100
78	MP2A	Z	8.052	8.052	0 %100
79	MP3A	X	5.628	5.628	0 %100
80	MP3A	Z	9.747	9.747	0 %100
81	MP4A	X	4.649	4.649	0 %100
82	MP4A	Z	8.052	8.052	0 %100
83	M82	X	0	0	0 %100
84	M82	Z	0	0	0 %100
85	MP1C	X	4.649	4.649	0 %100
86	MP1C	Z	8.052	8.052	0 %100
87	MP2C	X	4.649	4.649	0 %100
88	MP2C	Z	8.052	8.052	0 %100
89	MP3C	X	5.628	5.628	0 %100
90	MP3C	Z	9.747	9.747	0 %100
91	MP4C	X	4.649	4.649	0 %100
92	MP4C	Z	8.052	8.052	0 %100
93	M91A	X	5.137	5.137	0 %100
94	M91A	Z	8.898	8.898	0 %100
95	MP1B	X	4.649	4.649	0 %100
96	MP1B	Z	8.052	8.052	0 %100
97	MP2B	X	4.649	4.649	0 %100
98	MP2B	Z	8.052	8.052	0 %100
99	MP3B	X	5.628	5.628	0 %100
100	MP3B	Z	9.747	9.747	0 %100
101	MP4B	X	4.649	4.649	0 %100
102	MP4B	Z	8.052	8.052	0 %100
103	M100	X	0	0	0 %100
104	M100	Z	0	0	0 %100
105	M105	X	4.221	4.221	0 %100
106	M105	Z	7.311	7.311	0 %100
107	M110	X	4.221	4.221	0 %100
108	M110	Z	7.311	7.311	0 %100
109	M121	X	0	0	0 %100
110	M121	Z	0	0	0 %100
111	M128	X	5.426	5.426	0 %100
112	M128	Z	9.399	9.399	0 %100
113	M135	X	5.426	5.426	0 %100
114	M135	Z	9.399	9.399	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
1	FACE	X	0	0	%100
2	FACE	Z	13.7	13.7	%100
3	M4	X	0	0	%100
4	M4	Z	0	0	%100
5	M10	X	0	0	%100
6	M10	Z	11.776	11.776	%100
7	MP1A	X	0	0	%100
8	MP1A	Z	9.298	9.298	%100
9	M43	X	0	0	%100
10	M43	Z	11.776	11.776	%100
11	M46	X	0	0	%100
12	M46	Z	23.49	23.49	%100
13	M51B	X	0	0	%100
14	M51B	Z	3.261	3.261	%100
15	M52B	X	0	0	%100
16	M52B	Z	3.261	3.261	%100
17	M76	X	0	0	%100
18	M76	Z	0	0	%100
19	M77	X	0	0	%100
20	M77	Z	5.981	5.981	%100
21	M80	X	0	0	%100
22	M80	Z	6.3	6.3	%100
23	M84	X	0	0	%100
24	M84	Z	0	0	%100
25	M85	X	0	0	%100
26	M85	Z	5.981	5.981	%100
27	M91	X	0	0	%100
28	M91	Z	6.3	6.3	%100
29	M28	X	0	0	%100
30	M28	Z	10.438	10.438	%100
31	M29	X	0	0	%100
32	M29	Z	2.944	2.944	%100
33	M30	X	0	0	%100
34	M30	Z	2.944	2.944	%100
35	M31	X	0	0	%100
36	M31	Z	5.872	5.872	%100
37	M34	X	0	0	%100
38	M34	Z	3.261	3.261	%100
39	M35	X	0	0	%100
40	M35	Z	13.043	13.043	%100
41	M39	X	0	0	%100
42	M39	Z	17.617	17.617	%100
43	M40	X	0	0	%100
44	M40	Z	5.981	5.981	%100
45	M42	X	0	0	%100
46	M42	Z	6.3	6.3	%100
47	M44	X	0	0	%100
48	M44	Z	17.617	17.617	%100
49	M45	X	0	0	%100
50	M45	Z	23.924	23.924	%100
51	M47	X	0	0	%100
52	M47	Z	25.199	25.199	%100
53	M52A	X	0	0	%100
54	M52A	Z	10.438	10.438	%100
55	M53	X	0	0	%100
56	M53	Z	2.944	2.944	%100
57	M54	X	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	2.944	2.944	0 %100
59	M55	X	0	0	0 %100
60	M55	Z	5.872	5.872	0 %100
61	M58A	X	0	0	0 %100
62	M58A	Z	13.043	13.043	0 %100
63	M59A	X	0	0	0 %100
64	M59A	Z	3.261	3.261	0 %100
65	M63	X	0	0	0 %100
66	M63	Z	17.617	17.617	0 %100
67	M64	X	0	0	0 %100
68	M64	Z	23.924	23.924	0 %100
69	M66	X	0	0	0 %100
70	M66	Z	25.199	25.199	0 %100
71	M68	X	0	0	0 %100
72	M68	Z	17.617	17.617	0 %100
73	M69	X	0	0	0 %100
74	M69	Z	5.981	5.981	0 %100
75	M71	X	0	0	0 %100
76	M71	Z	6.3	6.3	0 %100
77	MP2A	X	0	0	0 %100
78	MP2A	Z	9.298	9.298	0 %100
79	MP3A	X	0	0	0 %100
80	MP3A	Z	11.255	11.255	0 %100
81	MP4A	X	0	0	0 %100
82	MP4A	Z	9.298	9.298	0 %100
83	M82	X	0	0	0 %100
84	M82	Z	3.425	3.425	0 %100
85	MP1C	X	0	0	0 %100
86	MP1C	Z	9.298	9.298	0 %100
87	MP2C	X	0	0	0 %100
88	MP2C	Z	9.298	9.298	0 %100
89	MP3C	X	0	0	0 %100
90	MP3C	Z	11.255	11.255	0 %100
91	MP4C	X	0	0	0 %100
92	MP4C	Z	9.298	9.298	0 %100
93	M91A	X	0	0	0 %100
94	M91A	Z	3.425	3.425	0 %100
95	MP1B	X	0	0	0 %100
96	MP1B	Z	9.298	9.298	0 %100
97	MP2B	X	0	0	0 %100
98	MP2B	Z	9.298	9.298	0 %100
99	MP3B	X	0	0	0 %100
100	MP3B	Z	11.255	11.255	0 %100
101	MP4B	X	0	0	0 %100
102	MP4B	Z	9.298	9.298	0 %100
103	M100	X	0	0	0 %100
104	M100	Z	2.814	2.814	0 %100
105	M105	X	0	0	0 %100
106	M105	Z	2.814	2.814	0 %100
107	M110	X	0	0	0 %100
108	M110	Z	11.255	11.255	0 %100
109	M121	X	0	0	0 %100
110	M121	Z	3.618	3.618	0 %100
111	M128	X	0	0	0 %100
112	M128	Z	3.618	3.618	0 %100
113	M135	X	0	0	0 %100
114	M135	Z	14.471	14.471	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[...
1	FACE	X	-5.137	0	%100
2	FACE	Z	8.898	0	%100
3	M4	X	-1.74	0	%100
4	M4	Z	3.013	0	%100
5	M10	X	-4.416	0	%100
6	M10	Z	7.649	0	%100
7	MP1A	X	-4.649	0	%100
8	MP1A	Z	8.052	0	%100
9	M43	X	-4.416	0	%100
10	M43	Z	7.649	0	%100
11	M46	X	-8.809	0	%100
12	M46	Z	15.257	0	%100
13	M51B	X	-4.891	0	%100
14	M51B	Z	8.472	0	%100
15	M52B	X	0	0	%100
16	M52B	Z	0	0	%100
17	M76	X	-2.936	0	%100
18	M76	Z	5.086	0	%100
19	M77	X	-8.972	0	%100
20	M77	Z	15.539	0	%100
21	M80	X	-9.45	0	%100
22	M80	Z	16.367	0	%100
23	M84	X	-2.936	0	%100
24	M84	Z	5.086	0	%100
25	M85	X	0	0	%100
26	M85	Z	0	0	%100
27	M91	X	0	0	%100
28	M91	Z	0	0	%100
29	M28	X	-1.74	0	%100
30	M28	Z	3.013	0	%100
31	M29	X	-4.416	0	%100
32	M29	Z	7.649	0	%100
33	M30	X	-4.416	0	%100
34	M30	Z	7.649	0	%100
35	M31	X	-8.809	0	%100
36	M31	Z	15.257	0	%100
37	M34	X	0	0	%100
38	M34	Z	0	0	%100
39	M35	X	-4.891	0	%100
40	M35	Z	8.472	0	%100
41	M39	X	-2.936	0	%100
42	M39	Z	5.086	0	%100
43	M40	X	0	0	%100
44	M40	Z	0	0	%100
45	M42	X	0	0	%100
46	M42	Z	0	0	%100
47	M44	X	-2.936	0	%100
48	M44	Z	5.086	0	%100
49	M45	X	-8.972	0	%100
50	M45	Z	15.539	0	%100
51	M47	X	-9.45	0	%100
52	M47	Z	16.367	0	%100
53	M52A	X	-6.959	0	%100
54	M52A	Z	12.053	0	%100
55	M53	X	0	0	%100
56	M53	Z	0	0	%100
57	M54	X	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location	End Location	...
58	M54	Z	0	0	0	%100
59	M55	X	0	0	0	%100
60	M55	Z	0	0	0	%100
61	M58A	X	-4.891	-4.891	0	%100
62	M58A	Z	8.472	8.472	0	%100
63	M59A	X	-4.891	-4.891	0	%100
64	M59A	Z	8.472	8.472	0	%100
65	M63	X	-11.745	-11.745	0	%100
66	M63	Z	20.343	20.343	0	%100
67	M64	X	-8.972	-8.972	0	%100
68	M64	Z	15.539	15.539	0	%100
69	M66	X	-9.45	-9.45	0	%100
70	M66	Z	16.367	16.367	0	%100
71	M68	X	-11.745	-11.745	0	%100
72	M68	Z	20.343	20.343	0	%100
73	M69	X	-8.972	-8.972	0	%100
74	M69	Z	15.539	15.539	0	%100
75	M71	X	-9.45	-9.45	0	%100
76	M71	Z	16.367	16.367	0	%100
77	MP2A	X	-4.649	-4.649	0	%100
78	MP2A	Z	8.052	8.052	0	%100
79	MP3A	X	-5.628	-5.628	0	%100
80	MP3A	Z	9.747	9.747	0	%100
81	MP4A	X	-4.649	-4.649	0	%100
82	MP4A	Z	8.052	8.052	0	%100
83	M82	X	-5.137	-5.137	0	%100
84	M82	Z	8.898	8.898	0	%100
85	MP1C	X	-4.649	-4.649	0	%100
86	MP1C	Z	8.052	8.052	0	%100
87	MP2C	X	-4.649	-4.649	0	%100
88	MP2C	Z	8.052	8.052	0	%100
89	MP3C	X	-5.628	-5.628	0	%100
90	MP3C	Z	9.747	9.747	0	%100
91	MP4C	X	-4.649	-4.649	0	%100
92	MP4C	Z	8.052	8.052	0	%100
93	M91A	X	0	0	0	%100
94	M91A	Z	0	0	0	%100
95	MP1B	X	-4.649	-4.649	0	%100
96	MP1B	Z	8.052	8.052	0	%100
97	MP2B	X	-4.649	-4.649	0	%100
98	MP2B	Z	8.052	8.052	0	%100
99	MP3B	X	-5.628	-5.628	0	%100
100	MP3B	Z	9.747	9.747	0	%100
101	MP4B	X	-4.649	-4.649	0	%100
102	MP4B	Z	8.052	8.052	0	%100
103	M100	X	-4.221	-4.221	0	%100
104	M100	Z	7.311	7.311	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	0	0	0	%100
107	M110	X	-4.221	-4.221	0	%100
108	M110	Z	7.311	7.311	0	%100
109	M121	X	-5.426	-5.426	0	%100
110	M121	Z	9.399	9.399	0	%100
111	M128	X	0	0	0	%100
112	M128	Z	0	0	0	%100
113	M135	X	-5.426	-5.426	0	%100
114	M135	Z	9.399	9.399	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
1	FACE	X	-2.966	-2.966	0 %100
2	FACE	Z	1.712	1.712	0 %100
3	M4	X	-9.04	-9.04	0 %100
4	M4	Z	5.219	5.219	0 %100
5	M10	X	-2.55	-2.55	0 %100
6	M10	Z	1.472	1.472	0 %100
7	MP1A	X	-8.052	-8.052	0 %100
8	MP1A	Z	4.649	4.649	0 %100
9	M43	X	-2.55	-2.55	0 %100
10	M43	Z	1.472	1.472	0 %100
11	M46	X	-5.086	-5.086	0 %100
12	M46	Z	2.936	2.936	0 %100
13	M51B	X	-11.296	-11.296	0 %100
14	M51B	Z	6.522	6.522	0 %100
15	M52B	X	-2.824	-2.824	0 %100
16	M52B	Z	1.63	1.63	0 %100
17	M76	X	-15.257	-15.257	0 %100
18	M76	Z	8.809	8.809	0 %100
19	M77	X	-20.719	-20.719	0 %100
20	M77	Z	11.962	11.962	0 %100
21	M80	X	-21.823	-21.823	0 %100
22	M80	Z	12.6	12.6	0 %100
23	M84	X	-15.257	-15.257	0 %100
24	M84	Z	8.809	8.809	0 %100
25	M85	X	-5.18	-5.18	0 %100
26	M85	Z	2.991	2.991	0 %100
27	M91	X	-5.456	-5.456	0 %100
28	M91	Z	3.15	3.15	0 %100
29	M28	X	0	0	0 %100
30	M28	Z	0	0	0 %100
31	M29	X	-10.199	-10.199	0 %100
32	M29	Z	5.888	5.888	0 %100
33	M30	X	-10.199	-10.199	0 %100
34	M30	Z	5.888	5.888	0 %100
35	M31	X	-20.343	-20.343	0 %100
36	M31	Z	11.745	11.745	0 %100
37	M34	X	-2.824	-2.824	0 %100
38	M34	Z	1.63	1.63	0 %100
39	M35	X	-2.824	-2.824	0 %100
40	M35	Z	1.63	1.63	0 %100
41	M39	X	0	0	0 %100
42	M39	Z	0	0	0 %100
43	M40	X	-5.18	-5.18	0 %100
44	M40	Z	2.991	2.991	0 %100
45	M42	X	-5.456	-5.456	0 %100
46	M42	Z	3.15	3.15	0 %100
47	M44	X	0	0	0 %100
48	M44	Z	0	0	0 %100
49	M45	X	-5.18	-5.18	0 %100
50	M45	Z	2.991	2.991	0 %100
51	M47	X	-5.456	-5.456	0 %100
52	M47	Z	3.15	3.15	0 %100
53	M52A	X	-9.04	-9.04	0 %100
54	M52A	Z	5.219	5.219	0 %100
55	M53	X	-2.55	-2.55	0 %100
56	M53	Z	1.472	1.472	0 %100
57	M54	X	-2.55	-2.55	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	1.472	1.472	0 %100
59	M55	X	-5.086	-5.086	0 %100
60	M55	Z	2.936	2.936	0 %100
61	M58A	X	-2.824	-2.824	0 %100
62	M58A	Z	1.63	1.63	0 %100
63	M59A	X	-11.296	-11.296	0 %100
64	M59A	Z	6.522	6.522	0 %100
65	M63	X	-15.257	-15.257	0 %100
66	M63	Z	8.809	8.809	0 %100
67	M64	X	-5.18	-5.18	0 %100
68	M64	Z	2.991	2.991	0 %100
69	M66	X	-5.456	-5.456	0 %100
70	M66	Z	3.15	3.15	0 %100
71	M68	X	-15.257	-15.257	0 %100
72	M68	Z	8.809	8.809	0 %100
73	M69	X	-20.719	-20.719	0 %100
74	M69	Z	11.962	11.962	0 %100
75	M71	X	-21.823	-21.823	0 %100
76	M71	Z	12.6	12.6	0 %100
77	MP2A	X	-8.052	-8.052	0 %100
78	MP2A	Z	4.649	4.649	0 %100
79	MP3A	X	-9.747	-9.747	0 %100
80	MP3A	Z	5.628	5.628	0 %100
81	MP4A	X	-8.052	-8.052	0 %100
82	MP4A	Z	4.649	4.649	0 %100
83	M82	X	-11.864	-11.864	0 %100
84	M82	Z	6.85	6.85	0 %100
85	MP1C	X	-8.052	-8.052	0 %100
86	MP1C	Z	4.649	4.649	0 %100
87	MP2C	X	-8.052	-8.052	0 %100
88	MP2C	Z	4.649	4.649	0 %100
89	MP3C	X	-9.747	-9.747	0 %100
90	MP3C	Z	5.628	5.628	0 %100
91	MP4C	X	-8.052	-8.052	0 %100
92	MP4C	Z	4.649	4.649	0 %100
93	M91A	X	-2.966	-2.966	0 %100
94	M91A	Z	1.712	1.712	0 %100
95	MP1B	X	-8.052	-8.052	0 %100
96	MP1B	Z	4.649	4.649	0 %100
97	MP2B	X	-8.052	-8.052	0 %100
98	MP2B	Z	4.649	4.649	0 %100
99	MP3B	X	-9.747	-9.747	0 %100
100	MP3B	Z	5.628	5.628	0 %100
101	MP4B	X	-8.052	-8.052	0 %100
102	MP4B	Z	4.649	4.649	0 %100
103	M100	X	-9.747	-9.747	0 %100
104	M100	Z	5.628	5.628	0 %100
105	M105	X	-2.437	-2.437	0 %100
106	M105	Z	1.407	1.407	0 %100
107	M110	X	-2.437	-2.437	0 %100
108	M110	Z	1.407	1.407	0 %100
109	M121	X	-12.532	-12.532	0 %100
110	M121	Z	7.235	7.235	0 %100
111	M128	X	-3.133	-3.133	0 %100
112	M128	Z	1.809	1.809	0 %100
113	M135	X	-3.133	-3.133	0 %100
114	M135	Z	1.809	1.809	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
1	FACE	X	0	0	%100
2	FACE	Z	0	0	%100
3	M4	X	-13.917	-13.917	0
4	M4	Z	0	0	%100
5	M10	X	0	0	%100
6	M10	Z	0	0	%100
7	MP1A	X	-9.298	-9.298	0
8	MP1A	Z	0	0	%100
9	M43	X	0	0	%100
10	M43	Z	0	0	%100
11	M46	X	0	0	%100
12	M46	Z	0	0	%100
13	M51B	X	-9.782	-9.782	0
14	M51B	Z	0	0	%100
15	M52B	X	-9.782	-9.782	0
16	M52B	Z	0	0	%100
17	M76	X	-23.49	-23.49	0
18	M76	Z	0	0	%100
19	M77	X	-17.943	-17.943	0
20	M77	Z	0	0	%100
21	M80	X	-18.899	-18.899	0
22	M80	Z	0	0	%100
23	M84	X	-23.49	-23.49	0
24	M84	Z	0	0	%100
25	M85	X	-17.943	-17.943	0
26	M85	Z	0	0	%100
27	M91	X	-18.899	-18.899	0
28	M91	Z	0	0	%100
29	M28	X	-3.479	-3.479	0
30	M28	Z	0	0	%100
31	M29	X	-8.832	-8.832	0
32	M29	Z	0	0	%100
33	M30	X	-8.832	-8.832	0
34	M30	Z	0	0	%100
35	M31	X	-17.617	-17.617	0
36	M31	Z	0	0	%100
37	M34	X	-9.782	-9.782	0
38	M34	Z	0	0	%100
39	M35	X	0	0	%100
40	M35	Z	0	0	%100
41	M39	X	-5.872	-5.872	0
42	M39	Z	0	0	%100
43	M40	X	-17.943	-17.943	0
44	M40	Z	0	0	%100
45	M42	X	-18.899	-18.899	0
46	M42	Z	0	0	%100
47	M44	X	-5.872	-5.872	0
48	M44	Z	0	0	%100
49	M45	X	0	0	%100
50	M45	Z	0	0	%100
51	M47	X	0	0	%100
52	M47	Z	0	0	%100
53	M52A	X	-3.479	-3.479	0
54	M52A	Z	0	0	%100
55	M53	X	-8.832	-8.832	0
56	M53	Z	0	0	%100
57	M54	X	-8.832	-8.832	0

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	0	0	%100
59	M55	X	-17.617	-17.617	0
60	M55	Z	0	0	%100
61	M58A	X	0	0	%100
62	M58A	Z	0	0	%100
63	M59A	X	-9.782	-9.782	0
64	M59A	Z	0	0	%100
65	M63	X	-5.872	-5.872	0
66	M63	Z	0	0	%100
67	M64	X	0	0	%100
68	M64	Z	0	0	%100
69	M66	X	0	0	%100
70	M66	Z	0	0	%100
71	M68	X	-5.872	-5.872	0
72	M68	Z	0	0	%100
73	M69	X	-17.943	-17.943	0
74	M69	Z	0	0	%100
75	M71	X	-18.899	-18.899	0
76	M71	Z	0	0	%100
77	MP2A	X	-9.298	-9.298	0
78	MP2A	Z	0	0	%100
79	MP3A	X	-11.255	-11.255	0
80	MP3A	Z	0	0	%100
81	MP4A	X	-9.298	-9.298	0
82	MP4A	Z	0	0	%100
83	M82	X	-10.275	-10.275	0
84	M82	Z	0	0	%100
85	MP1C	X	-9.298	-9.298	0
86	MP1C	Z	0	0	%100
87	MP2C	X	-9.298	-9.298	0
88	MP2C	Z	0	0	%100
89	MP3C	X	-11.255	-11.255	0
90	MP3C	Z	0	0	%100
91	MP4C	X	-9.298	-9.298	0
92	MP4C	Z	0	0	%100
93	M91A	X	-10.275	-10.275	0
94	M91A	Z	0	0	%100
95	MP1B	X	-9.298	-9.298	0
96	MP1B	Z	0	0	%100
97	MP2B	X	-9.298	-9.298	0
98	MP2B	Z	0	0	%100
99	MP3B	X	-11.255	-11.255	0
100	MP3B	Z	0	0	%100
101	MP4B	X	-9.298	-9.298	0
102	MP4B	Z	0	0	%100
103	M100	X	-8.442	-8.442	0
104	M100	Z	0	0	%100
105	M105	X	-8.442	-8.442	0
106	M105	Z	0	0	%100
107	M110	X	0	0	%100
108	M110	Z	0	0	%100
109	M121	X	-10.853	-10.853	0
110	M121	Z	0	0	%100
111	M128	X	-10.853	-10.853	0
112	M128	Z	0	0	%100
113	M135	X	0	0	%100
114	M135	Z	0	0	%100



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 Designer :
 Job Number :
 Model Name :

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[...
1	FACE	X	-2.966	-2.966	0 %100
2	FACE	Z	-1.712	-1.712	0 %100
3	M4	X	-9.04	-9.04	0 %100
4	M4	Z	-5.219	-5.219	0 %100
5	M10	X	-2.55	-2.55	0 %100
6	M10	Z	-1.472	-1.472	0 %100
7	MP1A	X	-8.052	-8.052	0 %100
8	MP1A	Z	-4.649	-4.649	0 %100
9	M43	X	-2.55	-2.55	0 %100
10	M43	Z	-1.472	-1.472	0 %100
11	M46	X	-5.086	-5.086	0 %100
12	M46	Z	-2.936	-2.936	0 %100
13	M51B	X	-2.824	-2.824	0 %100
14	M51B	Z	-1.63	-1.63	0 %100
15	M52B	X	-11.296	-11.296	0 %100
16	M52B	Z	-6.522	-6.522	0 %100
17	M76	X	-15.257	-15.257	0 %100
18	M76	Z	-8.809	-8.809	0 %100
19	M77	X	-5.18	-5.18	0 %100
20	M77	Z	-2.991	-2.991	0 %100
21	M80	X	-5.456	-5.456	0 %100
22	M80	Z	-3.15	-3.15	0 %100
23	M84	X	-15.257	-15.257	0 %100
24	M84	Z	-8.809	-8.809	0 %100
25	M85	X	-20.719	-20.719	0 %100
26	M85	Z	-11.962	-11.962	0 %100
27	M91	X	-21.823	-21.823	0 %100
28	M91	Z	-12.6	-12.6	0 %100
29	M28	X	-9.04	-9.04	0 %100
30	M28	Z	-5.219	-5.219	0 %100
31	M29	X	-2.55	-2.55	0 %100
32	M29	Z	-1.472	-1.472	0 %100
33	M30	X	-2.55	-2.55	0 %100
34	M30	Z	-1.472	-1.472	0 %100
35	M31	X	-5.086	-5.086	0 %100
36	M31	Z	-2.936	-2.936	0 %100
37	M34	X	-11.296	-11.296	0 %100
38	M34	Z	-6.522	-6.522	0 %100
39	M35	X	-2.824	-2.824	0 %100
40	M35	Z	-1.63	-1.63	0 %100
41	M39	X	-15.257	-15.257	0 %100
42	M39	Z	-8.809	-8.809	0 %100
43	M40	X	-20.719	-20.719	0 %100
44	M40	Z	-11.962	-11.962	0 %100
45	M42	X	-21.823	-21.823	0 %100
46	M42	Z	-12.6	-12.6	0 %100
47	M44	X	-15.257	-15.257	0 %100
48	M44	Z	-8.809	-8.809	0 %100
49	M45	X	-5.18	-5.18	0 %100
50	M45	Z	-2.991	-2.991	0 %100
51	M47	X	-5.456	-5.456	0 %100
52	M47	Z	-3.15	-3.15	0 %100
53	M52A	X	0	0	0 %100
54	M52A	Z	0	0	0 %100
55	M53	X	-10.199	-10.199	0 %100
56	M53	Z	-5.888	-5.888	0 %100
57	M54	X	-10.199	-10.199	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location	End Location
58	M54	Z	-5.888	0	%100
59	M55	X	-20.343	0	%100
60	M55	Z	-11.745	0	%100
61	M58A	X	-2.824	0	%100
62	M58A	Z	-1.63	0	%100
63	M59A	X	-2.824	0	%100
64	M59A	Z	-1.63	0	%100
65	M63	X	0	0	%100
66	M63	Z	0	0	%100
67	M64	X	-5.18	0	%100
68	M64	Z	-2.991	0	%100
69	M66	X	-5.456	0	%100
70	M66	Z	-3.15	0	%100
71	M68	X	0	0	%100
72	M68	Z	0	0	%100
73	M69	X	-5.18	0	%100
74	M69	Z	-2.991	0	%100
75	M71	X	-5.456	0	%100
76	M71	Z	-3.15	0	%100
77	MP2A	X	-8.052	0	%100
78	MP2A	Z	-4.649	0	%100
79	MP3A	X	-9.747	0	%100
80	MP3A	Z	-5.628	0	%100
81	MP4A	X	-8.052	0	%100
82	MP4A	Z	-4.649	0	%100
83	M82	X	-2.966	0	%100
84	M82	Z	-1.712	0	%100
85	MP1C	X	-8.052	0	%100
86	MP1C	Z	-4.649	0	%100
87	MP2C	X	-8.052	0	%100
88	MP2C	Z	-4.649	0	%100
89	MP3C	X	-9.747	0	%100
90	MP3C	Z	-5.628	0	%100
91	MP4C	X	-8.052	0	%100
92	MP4C	Z	-4.649	0	%100
93	M91A	X	-11.864	0	%100
94	M91A	Z	-6.85	0	%100
95	MP1B	X	-8.052	0	%100
96	MP1B	Z	-4.649	0	%100
97	MP2B	X	-8.052	0	%100
98	MP2B	Z	-4.649	0	%100
99	MP3B	X	-9.747	0	%100
100	MP3B	Z	-5.628	0	%100
101	MP4B	X	-8.052	0	%100
102	MP4B	Z	-4.649	0	%100
103	M100	X	-2.437	0	%100
104	M100	Z	-1.407	0	%100
105	M105	X	-9.747	0	%100
106	M105	Z	-5.628	0	%100
107	M110	X	-2.437	0	%100
108	M110	Z	-1.407	0	%100
109	M121	X	-3.133	0	%100
110	M121	Z	-1.809	0	%100
111	M128	X	-12.532	0	%100
112	M128	Z	-7.235	0	%100
113	M135	X	-3.133	0	%100
114	M135	Z	-1.809	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
1	FACE	X	-5.137	0	%100
2	FACE	Z	-8.898	0	%100
3	M4	X	-1.74	0	%100
4	M4	Z	-3.013	0	%100
5	M10	X	-4.416	0	%100
6	M10	Z	-7.649	0	%100
7	MP1A	X	-4.649	0	%100
8	MP1A	Z	-8.052	0	%100
9	M43	X	-4.416	0	%100
10	M43	Z	-7.649	0	%100
11	M46	X	-8.809	0	%100
12	M46	Z	-15.257	0	%100
13	M51B	X	0	0	%100
14	M51B	Z	0	0	%100
15	M52B	X	-4.891	0	%100
16	M52B	Z	-8.472	0	%100
17	M76	X	-2.936	0	%100
18	M76	Z	-5.086	0	%100
19	M77	X	0	0	%100
20	M77	Z	0	0	%100
21	M80	X	0	0	%100
22	M80	Z	0	0	%100
23	M84	X	-2.936	0	%100
24	M84	Z	-5.086	0	%100
25	M85	X	-8.972	0	%100
26	M85	Z	-15.539	0	%100
27	M91	X	-9.45	0	%100
28	M91	Z	-16.367	0	%100
29	M28	X	-6.959	0	%100
30	M28	Z	-12.053	0	%100
31	M29	X	0	0	%100
32	M29	Z	0	0	%100
33	M30	X	0	0	%100
34	M30	Z	0	0	%100
35	M31	X	0	0	%100
36	M31	Z	0	0	%100
37	M34	X	-4.891	0	%100
38	M34	Z	-8.472	0	%100
39	M35	X	-4.891	0	%100
40	M35	Z	-8.472	0	%100
41	M39	X	-11.745	0	%100
42	M39	Z	-20.343	0	%100
43	M40	X	-8.972	0	%100
44	M40	Z	-15.539	0	%100
45	M42	X	-9.45	0	%100
46	M42	Z	-16.367	0	%100
47	M44	X	-11.745	0	%100
48	M44	Z	-20.343	0	%100
49	M45	X	-8.972	0	%100
50	M45	Z	-15.539	0	%100
51	M47	X	-9.45	0	%100
52	M47	Z	-16.367	0	%100
53	M52A	X	-1.74	0	%100
54	M52A	Z	-3.013	0	%100
55	M53	X	-4.416	0	%100
56	M53	Z	-7.649	0	%100
57	M54	X	-4.416	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	-7.649	0	%100
59	M55	X	-8.809	0	%100
60	M55	Z	-15.257	0	%100
61	M58A	X	-4.891	0	%100
62	M58A	Z	-8.472	0	%100
63	M59A	X	0	0	%100
64	M59A	Z	0	0	%100
65	M63	X	-2.936	0	%100
66	M63	Z	-5.086	0	%100
67	M64	X	-8.972	0	%100
68	M64	Z	-15.539	0	%100
69	M66	X	-9.45	0	%100
70	M66	Z	-16.367	0	%100
71	M68	X	-2.936	0	%100
72	M68	Z	-5.086	0	%100
73	M69	X	0	0	%100
74	M69	Z	0	0	%100
75	M71	X	0	0	%100
76	M71	Z	0	0	%100
77	MP2A	X	-4.649	0	%100
78	MP2A	Z	-8.052	0	%100
79	MP3A	X	-5.628	0	%100
80	MP3A	Z	-9.747	0	%100
81	MP4A	X	-4.649	0	%100
82	MP4A	Z	-8.052	0	%100
83	M82	X	0	0	%100
84	M82	Z	0	0	%100
85	MP1C	X	-4.649	0	%100
86	MP1C	Z	-8.052	0	%100
87	MP2C	X	-4.649	0	%100
88	MP2C	Z	-8.052	0	%100
89	MP3C	X	-5.628	0	%100
90	MP3C	Z	-9.747	0	%100
91	MP4C	X	-4.649	0	%100
92	MP4C	Z	-8.052	0	%100
93	M91A	X	-5.137	0	%100
94	M91A	Z	-8.898	0	%100
95	MP1B	X	-4.649	0	%100
96	MP1B	Z	-8.052	0	%100
97	MP2B	X	-4.649	0	%100
98	MP2B	Z	-8.052	0	%100
99	MP3B	X	-5.628	0	%100
100	MP3B	Z	-9.747	0	%100
101	MP4B	X	-4.649	0	%100
102	MP4B	Z	-8.052	0	%100
103	M100	X	0	0	%100
104	M100	Z	0	0	%100
105	M105	X	-4.221	0	%100
106	M105	Z	-7.311	0	%100
107	M110	X	-4.221	0	%100
108	M110	Z	-7.311	0	%100
109	M121	X	0	0	%100
110	M121	Z	0	0	%100
111	M128	X	-5.426	0	%100
112	M128	Z	-9.399	0	%100
113	M135	X	-5.426	0	%100
114	M135	Z	-9.399	0	%100



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 Designer :
 Job Number :
 Model Name :

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
1	FACE	X	0	0	0	%100
2	FACE	Z	-4.225	-4.225	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-3.474	-3.474	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	-3.407	-3.407	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	-3.474	-3.474	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	-5.433	-5.433	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	-1	-1	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	-1	-1	0	%100
17	M76	X	0	0	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	-1.356	-1.356	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	-1.415	-1.415	0	%100
23	M84	X	0	0	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	-1.356	-1.356	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	-1.415	-1.415	0	%100
29	M28	X	0	0	0	%100
30	M28	Z	-3.199	-3.199	0	%100
31	M29	X	0	0	0	%100
32	M29	Z	-0.868	-0.868	0	%100
33	M30	X	0	0	0	%100
34	M30	Z	-0.868	-0.868	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	-1.358	-1.358	0	%100
37	M34	X	0	0	0	%100
38	M34	Z	-1	-1	0	%100
39	M35	X	0	0	0	%100
40	M35	Z	-3.998	-3.998	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	-4.008	-4.008	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	-1.356	-1.356	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	-1.415	-1.415	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	-4.008	-4.008	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	-5.425	-5.425	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-5.662	-5.662	0	%100
53	M52A	X	0	0	0	%100
54	M52A	Z	-3.199	-3.199	0	%100
55	M53	X	0	0	0	%100
56	M53	Z	-0.868	-0.868	0	%100
57	M54	X	0	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	- .868	0	%100
59	M55	X	0	0	%100
60	M55	Z	-1.358	0	%100
61	M58A	X	0	0	%100
62	M58A	Z	-3.998	0	%100
63	M59A	X	0	0	%100
64	M59A	Z	-1	0	%100
65	M63	X	0	0	%100
66	M63	Z	-4.008	0	%100
67	M64	X	0	0	%100
68	M64	Z	-5.425	0	%100
69	M66	X	0	0	%100
70	M66	Z	-5.662	0	%100
71	M68	X	0	0	%100
72	M68	Z	-4.008	0	%100
73	M69	X	0	0	%100
74	M69	Z	-1.356	0	%100
75	M71	X	0	0	%100
76	M71	Z	-1.415	0	%100
77	MP2A	X	0	0	%100
78	MP2A	Z	-3.407	0	%100
79	MP3A	X	0	0	%100
80	MP3A	Z	-3.771	0	%100
81	MP4A	X	0	0	%100
82	MP4A	Z	-3.407	0	%100
83	M82	X	0	0	%100
84	M82	Z	-1.056	0	%100
85	MP1C	X	0	0	%100
86	MP1C	Z	-3.407	0	%100
87	MP2C	X	0	0	%100
88	MP2C	Z	-3.407	0	%100
89	MP3C	X	0	0	%100
90	MP3C	Z	-3.771	0	%100
91	MP4C	X	0	0	%100
92	MP4C	Z	-3.407	0	%100
93	M91A	X	0	0	%100
94	M91A	Z	-1.056	0	%100
95	MP1B	X	0	0	%100
96	MP1B	Z	-3.407	0	%100
97	MP2B	X	0	0	%100
98	MP2B	Z	-3.407	0	%100
99	MP3B	X	0	0	%100
100	MP3B	Z	-3.771	0	%100
101	MP4B	X	0	0	%100
102	MP4B	Z	-3.407	0	%100
103	M100	X	0	0	%100
104	M100	Z	-.943	0	%100
105	M105	X	0	0	%100
106	M105	Z	-.943	0	%100
107	M110	X	0	0	%100
108	M110	Z	-3.771	0	%100
109	M121	X	0	0	%100
110	M121	Z	-.992	0	%100
111	M128	X	0	0	%100
112	M128	Z	-.992	0	%100
113	M135	X	0	0	%100
114	M135	Z	-3.969	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[...
1	FACE	X	1.585	1.585	0 %100
2	FACE	Z	-2.744	-2.744	0 %100
3	M4	X	.533	.533	0 %100
4	M4	Z	-.923	-.923	0 %100
5	M10	X	1.303	1.303	0 %100
6	M10	Z	-2.256	-2.256	0 %100
7	MP1A	X	1.704	1.704	0 %100
8	MP1A	Z	-2.951	-2.951	0 %100
9	M43	X	1.303	1.303	0 %100
10	M43	Z	-2.256	-2.256	0 %100
11	M46	X	2.037	2.037	0 %100
12	M46	Z	-3.529	-3.529	0 %100
13	M51B	X	1.499	1.499	0 %100
14	M51B	Z	-2.597	-2.597	0 %100
15	M52B	X	0	0	0 %100
16	M52B	Z	0	0	0 %100
17	M76	X	.668	.668	0 %100
18	M76	Z	-1.157	-1.157	0 %100
19	M77	X	2.034	2.034	0 %100
20	M77	Z	-3.523	-3.523	0 %100
21	M80	X	2.123	2.123	0 %100
22	M80	Z	-3.677	-3.677	0 %100
23	M84	X	.668	.668	0 %100
24	M84	Z	-1.157	-1.157	0 %100
25	M85	X	0	0	0 %100
26	M85	Z	0	0	0 %100
27	M91	X	0	0	0 %100
28	M91	Z	0	0	0 %100
29	M28	X	.533	.533	0 %100
30	M28	Z	-.923	-.923	0 %100
31	M29	X	1.303	1.303	0 %100
32	M29	Z	-2.256	-2.256	0 %100
33	M30	X	1.303	1.303	0 %100
34	M30	Z	-2.256	-2.256	0 %100
35	M31	X	2.037	2.037	0 %100
36	M31	Z	-3.529	-3.529	0 %100
37	M34	X	0	0	0 %100
38	M34	Z	0	0	0 %100
39	M35	X	1.499	1.499	0 %100
40	M35	Z	-2.597	-2.597	0 %100
41	M39	X	.668	.668	0 %100
42	M39	Z	-1.157	-1.157	0 %100
43	M40	X	0	0	0 %100
44	M40	Z	0	0	0 %100
45	M42	X	0	0	0 %100
46	M42	Z	0	0	0 %100
47	M44	X	.668	.668	0 %100
48	M44	Z	-1.157	-1.157	0 %100
49	M45	X	2.034	2.034	0 %100
50	M45	Z	-3.523	-3.523	0 %100
51	M47	X	2.123	2.123	0 %100
52	M47	Z	-3.677	-3.677	0 %100
53	M52A	X	2.133	2.133	0 %100
54	M52A	Z	-3.694	-3.694	0 %100
55	M53	X	0	0	0 %100
56	M53	Z	0	0	0 %100
57	M54	X	0	0	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	0	0	%100
59	M55	X	0	0	%100
60	M55	Z	0	0	%100
61	M58A	X	1.499	1.499	0
62	M58A	Z	-2.597	-2.597	0
63	M59A	X	1.499	1.499	0
64	M59A	Z	-2.597	-2.597	0
65	M63	X	2.672	2.672	0
66	M63	Z	-4.628	-4.628	0
67	M64	X	2.034	2.034	0
68	M64	Z	-3.523	-3.523	0
69	M66	X	2.123	2.123	0
70	M66	Z	-3.677	-3.677	0
71	M68	X	2.672	2.672	0
72	M68	Z	-4.628	-4.628	0
73	M69	X	2.034	2.034	0
74	M69	Z	-3.523	-3.523	0
75	M71	X	2.123	2.123	0
76	M71	Z	-3.677	-3.677	0
77	MP2A	X	1.704	1.704	0
78	MP2A	Z	-2.951	-2.951	0
79	MP3A	X	1.885	1.885	0
80	MP3A	Z	-3.266	-3.266	0
81	MP4A	X	1.704	1.704	0
82	MP4A	Z	-2.951	-2.951	0
83	M82	X	1.585	1.585	0
84	M82	Z	-2.744	-2.744	0
85	MP1C	X	1.704	1.704	0
86	MP1C	Z	-2.951	-2.951	0
87	MP2C	X	1.704	1.704	0
88	MP2C	Z	-2.951	-2.951	0
89	MP3C	X	1.885	1.885	0
90	MP3C	Z	-3.266	-3.266	0
91	MP4C	X	1.704	1.704	0
92	MP4C	Z	-2.951	-2.951	0
93	M91A	X	0	0	0
94	M91A	Z	0	0	0
95	MP1B	X	1.704	1.704	0
96	MP1B	Z	-2.951	-2.951	0
97	MP2B	X	1.704	1.704	0
98	MP2B	Z	-2.951	-2.951	0
99	MP3B	X	1.885	1.885	0
100	MP3B	Z	-3.266	-3.266	0
101	MP4B	X	1.704	1.704	0
102	MP4B	Z	-2.951	-2.951	0
103	M100	X	1.414	1.414	0
104	M100	Z	-2.449	-2.449	0
105	M105	X	0	0	0
106	M105	Z	0	0	0
107	M110	X	1.414	1.414	0
108	M110	Z	-2.449	-2.449	0
109	M121	X	1.488	1.488	0
110	M121	Z	-2.578	-2.578	0
111	M128	X	0	0	0
112	M128	Z	0	0	0
113	M135	X	1.488	1.488	0
114	M135	Z	-2.578	-2.578	0



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
1	FACE	X	.915	.915	0 %100
2	FACE	Z	-.528	-.528	0 %100
3	M4	X	2.77	2.77	0 %100
4	M4	Z	-1.6	-1.6	0 %100
5	M10	X	.752	.752	0 %100
6	M10	Z	-.434	-.434	0 %100
7	MP1A	X	2.951	2.951	0 %100
8	MP1A	Z	-1.704	-1.704	0 %100
9	M43	X	.752	.752	0 %100
10	M43	Z	-.434	-.434	0 %100
11	M46	X	1.176	1.176	0 %100
12	M46	Z	-.679	-.679	0 %100
13	M51B	X	3.462	3.462	0 %100
14	M51B	Z	-1.999	-1.999	0 %100
15	M52B	X	.866	.866	0 %100
16	M52B	Z	-.5	-.5	0 %100
17	M76	X	3.471	3.471	0 %100
18	M76	Z	-2.004	-2.004	0 %100
19	M77	X	4.698	4.698	0 %100
20	M77	Z	-2.712	-2.712	0 %100
21	M80	X	4.903	4.903	0 %100
22	M80	Z	-2.831	-2.831	0 %100
23	M84	X	3.471	3.471	0 %100
24	M84	Z	-2.004	-2.004	0 %100
25	M85	X	1.174	1.174	0 %100
26	M85	Z	-.678	-.678	0 %100
27	M91	X	1.226	1.226	0 %100
28	M91	Z	-.708	-.708	0 %100
29	M28	X	0	0	0 %100
30	M28	Z	0	0	0 %100
31	M29	X	3.008	3.008	0 %100
32	M29	Z	-1.737	-1.737	0 %100
33	M30	X	3.008	3.008	0 %100
34	M30	Z	-1.737	-1.737	0 %100
35	M31	X	4.705	4.705	0 %100
36	M31	Z	-2.716	-2.716	0 %100
37	M34	X	.866	.866	0 %100
38	M34	Z	-.5	-.5	0 %100
39	M35	X	.866	.866	0 %100
40	M35	Z	-.5	-.5	0 %100
41	M39	X	0	0	0 %100
42	M39	Z	0	0	0 %100
43	M40	X	1.174	1.174	0 %100
44	M40	Z	-.678	-.678	0 %100
45	M42	X	1.226	1.226	0 %100
46	M42	Z	-.708	-.708	0 %100
47	M44	X	0	0	0 %100
48	M44	Z	0	0	0 %100
49	M45	X	1.174	1.174	0 %100
50	M45	Z	-.678	-.678	0 %100
51	M47	X	1.226	1.226	0 %100
52	M47	Z	-.708	-.708	0 %100
53	M52A	X	2.77	2.77	0 %100
54	M52A	Z	-1.6	-1.6	0 %100
55	M53	X	.752	.752	0 %100
56	M53	Z	-.434	-.434	0 %100
57	M54	X	.752	.752	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	- .434	0	%100
59	M55	X	1.176	0	%100
60	M55	Z	- .679	0	%100
61	M58A	X	.866	0	%100
62	M58A	Z	- .5	0	%100
63	M59A	X	3.462	0	%100
64	M59A	Z	-1.999	0	%100
65	M63	X	3.471	0	%100
66	M63	Z	-2.004	0	%100
67	M64	X	1.174	0	%100
68	M64	Z	- .678	0	%100
69	M66	X	1.226	0	%100
70	M66	Z	- .708	0	%100
71	M68	X	3.471	0	%100
72	M68	Z	-2.004	0	%100
73	M69	X	4.698	0	%100
74	M69	Z	-2.712	0	%100
75	M71	X	4.903	0	%100
76	M71	Z	-2.831	0	%100
77	MP2A	X	2.951	0	%100
78	MP2A	Z	-1.704	0	%100
79	MP3A	X	3.266	0	%100
80	MP3A	Z	-1.885	0	%100
81	MP4A	X	2.951	0	%100
82	MP4A	Z	-1.704	0	%100
83	M82	X	3.659	0	%100
84	M82	Z	-2.113	0	%100
85	MP1C	X	2.951	0	%100
86	MP1C	Z	-1.704	0	%100
87	MP2C	X	2.951	0	%100
88	MP2C	Z	-1.704	0	%100
89	MP3C	X	3.266	0	%100
90	MP3C	Z	-1.885	0	%100
91	MP4C	X	2.951	0	%100
92	MP4C	Z	-1.704	0	%100
93	M91A	X	.915	0	%100
94	M91A	Z	- .528	0	%100
95	MP1B	X	2.951	0	%100
96	MP1B	Z	-1.704	0	%100
97	MP2B	X	2.951	0	%100
98	MP2B	Z	-1.704	0	%100
99	MP3B	X	3.266	0	%100
100	MP3B	Z	-1.885	0	%100
101	MP4B	X	2.951	0	%100
102	MP4B	Z	-1.704	0	%100
103	M100	X	3.266	0	%100
104	M100	Z	-1.885	0	%100
105	M105	X	.816	0	%100
106	M105	Z	- .471	0	%100
107	M110	X	.816	0	%100
108	M110	Z	- .471	0	%100
109	M121	X	3.437	0	%100
110	M121	Z	-1.984	0	%100
111	M128	X	.859	0	%100
112	M128	Z	- .496	0	%100
113	M135	X	.859	0	%100
114	M135	Z	- .496	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
1	FACE	X	0	0	%100
2	FACE	Z	0	0	%100
3	M4	X	4.265	4.265	0
4	M4	Z	0	0	%100
5	M10	X	0	0	%100
6	M10	Z	0	0	%100
7	MP1A	X	3.407	3.407	0
8	MP1A	Z	0	0	%100
9	M43	X	0	0	%100
10	M43	Z	0	0	%100
11	M46	X	0	0	%100
12	M46	Z	0	0	%100
13	M51B	X	2.999	2.999	0
14	M51B	Z	0	0	%100
15	M52B	X	2.999	2.999	0
16	M52B	Z	0	0	%100
17	M76	X	5.344	5.344	0
18	M76	Z	0	0	%100
19	M77	X	4.069	4.069	0
20	M77	Z	0	0	%100
21	M80	X	4.246	4.246	0
22	M80	Z	0	0	%100
23	M84	X	5.344	5.344	0
24	M84	Z	0	0	%100
25	M85	X	4.069	4.069	0
26	M85	Z	0	0	%100
27	M91	X	4.246	4.246	0
28	M91	Z	0	0	%100
29	M28	X	1.066	1.066	0
30	M28	Z	0	0	%100
31	M29	X	2.605	2.605	0
32	M29	Z	0	0	%100
33	M30	X	2.605	2.605	0
34	M30	Z	0	0	%100
35	M31	X	4.075	4.075	0
36	M31	Z	0	0	%100
37	M34	X	2.999	2.999	0
38	M34	Z	0	0	%100
39	M35	X	0	0	%100
40	M35	Z	0	0	%100
41	M39	X	1.336	1.336	0
42	M39	Z	0	0	%100
43	M40	X	4.069	4.069	0
44	M40	Z	0	0	%100
45	M42	X	4.246	4.246	0
46	M42	Z	0	0	%100
47	M44	X	1.336	1.336	0
48	M44	Z	0	0	%100
49	M45	X	0	0	%100
50	M45	Z	0	0	%100
51	M47	X	0	0	%100
52	M47	Z	0	0	%100
53	M52A	X	1.066	1.066	0
54	M52A	Z	0	0	%100
55	M53	X	2.605	2.605	0
56	M53	Z	0	0	%100
57	M54	X	2.605	2.605	0

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	0	0	%100
59	M55	X	4.075	4.075	0
60	M55	Z	0	0	%100
61	M58A	X	0	0	%100
62	M58A	Z	0	0	%100
63	M59A	X	2.999	2.999	0
64	M59A	Z	0	0	%100
65	M63	X	1.336	1.336	0
66	M63	Z	0	0	%100
67	M64	X	0	0	%100
68	M64	Z	0	0	%100
69	M66	X	0	0	%100
70	M66	Z	0	0	%100
71	M68	X	1.336	1.336	0
72	M68	Z	0	0	%100
73	M69	X	4.069	4.069	0
74	M69	Z	0	0	%100
75	M71	X	4.246	4.246	0
76	M71	Z	0	0	%100
77	MP2A	X	3.407	3.407	0
78	MP2A	Z	0	0	%100
79	MP3A	X	3.771	3.771	0
80	MP3A	Z	0	0	%100
81	MP4A	X	3.407	3.407	0
82	MP4A	Z	0	0	%100
83	M82	X	3.169	3.169	0
84	M82	Z	0	0	%100
85	MP1C	X	3.407	3.407	0
86	MP1C	Z	0	0	%100
87	MP2C	X	3.407	3.407	0
88	MP2C	Z	0	0	%100
89	MP3C	X	3.771	3.771	0
90	MP3C	Z	0	0	%100
91	MP4C	X	3.407	3.407	0
92	MP4C	Z	0	0	%100
93	M91A	X	3.169	3.169	0
94	M91A	Z	0	0	%100
95	MP1B	X	3.407	3.407	0
96	MP1B	Z	0	0	%100
97	MP2B	X	3.407	3.407	0
98	MP2B	Z	0	0	%100
99	MP3B	X	3.771	3.771	0
100	MP3B	Z	0	0	%100
101	MP4B	X	3.407	3.407	0
102	MP4B	Z	0	0	%100
103	M100	X	2.828	2.828	0
104	M100	Z	0	0	%100
105	M105	X	2.828	2.828	0
106	M105	Z	0	0	%100
107	M110	X	0	0	%100
108	M110	Z	0	0	%100
109	M121	X	2.976	2.976	0
110	M121	Z	0	0	%100
111	M128	X	2.976	2.976	0
112	M128	Z	0	0	%100
113	M135	X	0	0	%100
114	M135	Z	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
1	FACE	X	.915	.915	0 %100
2	FACE	Z	.528	.528	0 %100
3	M4	X	2.77	2.77	0 %100
4	M4	Z	1.6	1.6	0 %100
5	M10	X	.752	.752	0 %100
6	M10	Z	.434	.434	0 %100
7	MP1A	X	2.951	2.951	0 %100
8	MP1A	Z	1.704	1.704	0 %100
9	M43	X	.752	.752	0 %100
10	M43	Z	.434	.434	0 %100
11	M46	X	1.176	1.176	0 %100
12	M46	Z	.679	.679	0 %100
13	M51B	X	.866	.866	0 %100
14	M51B	Z	.5	.5	0 %100
15	M52B	X	3.462	3.462	0 %100
16	M52B	Z	1.999	1.999	0 %100
17	M76	X	3.471	3.471	0 %100
18	M76	Z	2.004	2.004	0 %100
19	M77	X	1.174	1.174	0 %100
20	M77	Z	.678	.678	0 %100
21	M80	X	1.226	1.226	0 %100
22	M80	Z	.708	.708	0 %100
23	M84	X	3.471	3.471	0 %100
24	M84	Z	2.004	2.004	0 %100
25	M85	X	4.698	4.698	0 %100
26	M85	Z	2.712	2.712	0 %100
27	M91	X	4.903	4.903	0 %100
28	M91	Z	2.831	2.831	0 %100
29	M28	X	2.77	2.77	0 %100
30	M28	Z	1.6	1.6	0 %100
31	M29	X	.752	.752	0 %100
32	M29	Z	.434	.434	0 %100
33	M30	X	.752	.752	0 %100
34	M30	Z	.434	.434	0 %100
35	M31	X	1.176	1.176	0 %100
36	M31	Z	.679	.679	0 %100
37	M34	X	3.462	3.462	0 %100
38	M34	Z	1.999	1.999	0 %100
39	M35	X	.866	.866	0 %100
40	M35	Z	.5	.5	0 %100
41	M39	X	3.471	3.471	0 %100
42	M39	Z	2.004	2.004	0 %100
43	M40	X	4.698	4.698	0 %100
44	M40	Z	2.712	2.712	0 %100
45	M42	X	4.903	4.903	0 %100
46	M42	Z	2.831	2.831	0 %100
47	M44	X	3.471	3.471	0 %100
48	M44	Z	2.004	2.004	0 %100
49	M45	X	1.174	1.174	0 %100
50	M45	Z	.678	.678	0 %100
51	M47	X	1.226	1.226	0 %100
52	M47	Z	.708	.708	0 %100
53	M52A	X	0	0	0 %100
54	M52A	Z	0	0	0 %100
55	M53	X	3.008	3.008	0 %100
56	M53	Z	1.737	1.737	0 %100
57	M54	X	3.008	3.008	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	1.737	0	%100
59	M55	X	4.705	0	%100
60	M55	Z	2.716	0	%100
61	M58A	X	.866	0	%100
62	M58A	Z	.5	0	%100
63	M59A	X	.866	0	%100
64	M59A	Z	.5	0	%100
65	M63	X	0	0	%100
66	M63	Z	0	0	%100
67	M64	X	1.174	0	%100
68	M64	Z	.678	0	%100
69	M66	X	1.226	0	%100
70	M66	Z	.708	0	%100
71	M68	X	0	0	%100
72	M68	Z	0	0	%100
73	M69	X	1.174	0	%100
74	M69	Z	.678	0	%100
75	M71	X	1.226	0	%100
76	M71	Z	.708	0	%100
77	MP2A	X	2.951	0	%100
78	MP2A	Z	1.704	0	%100
79	MP3A	X	3.266	0	%100
80	MP3A	Z	1.885	0	%100
81	MP4A	X	2.951	0	%100
82	MP4A	Z	1.704	0	%100
83	M82	X	.915	0	%100
84	M82	Z	.528	0	%100
85	MP1C	X	2.951	0	%100
86	MP1C	Z	1.704	0	%100
87	MP2C	X	2.951	0	%100
88	MP2C	Z	1.704	0	%100
89	MP3C	X	3.266	0	%100
90	MP3C	Z	1.885	0	%100
91	MP4C	X	2.951	0	%100
92	MP4C	Z	1.704	0	%100
93	M91A	X	3.659	0	%100
94	M91A	Z	2.113	0	%100
95	MP1B	X	2.951	0	%100
96	MP1B	Z	1.704	0	%100
97	MP2B	X	2.951	0	%100
98	MP2B	Z	1.704	0	%100
99	MP3B	X	3.266	0	%100
100	MP3B	Z	1.885	0	%100
101	MP4B	X	2.951	0	%100
102	MP4B	Z	1.704	0	%100
103	M100	X	.816	0	%100
104	M100	Z	.471	0	%100
105	M105	X	3.266	0	%100
106	M105	Z	1.885	0	%100
107	M110	X	.816	0	%100
108	M110	Z	.471	0	%100
109	M121	X	.859	0	%100
110	M121	Z	.496	0	%100
111	M128	X	3.437	0	%100
112	M128	Z	1.984	0	%100
113	M135	X	.859	0	%100
114	M135	Z	.496	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[...
1	FACE	X	1.585	0	%100
2	FACE	Z	2.744	0	%100
3	M4	X	.533	0	%100
4	M4	Z	.923	0	%100
5	M10	X	1.303	0	%100
6	M10	Z	2.256	0	%100
7	MP1A	X	1.704	0	%100
8	MP1A	Z	2.951	0	%100
9	M43	X	1.303	0	%100
10	M43	Z	2.256	0	%100
11	M46	X	2.037	0	%100
12	M46	Z	3.529	0	%100
13	M51B	X	0	0	%100
14	M51B	Z	0	0	%100
15	M52B	X	1.499	0	%100
16	M52B	Z	2.597	0	%100
17	M76	X	.668	0	%100
18	M76	Z	1.157	0	%100
19	M77	X	0	0	%100
20	M77	Z	0	0	%100
21	M80	X	0	0	%100
22	M80	Z	0	0	%100
23	M84	X	.668	0	%100
24	M84	Z	1.157	0	%100
25	M85	X	2.034	0	%100
26	M85	Z	3.523	0	%100
27	M91	X	2.123	0	%100
28	M91	Z	3.677	0	%100
29	M28	X	2.133	0	%100
30	M28	Z	3.694	0	%100
31	M29	X	0	0	%100
32	M29	Z	0	0	%100
33	M30	X	0	0	%100
34	M30	Z	0	0	%100
35	M31	X	0	0	%100
36	M31	Z	0	0	%100
37	M34	X	1.499	0	%100
38	M34	Z	2.597	0	%100
39	M35	X	1.499	0	%100
40	M35	Z	2.597	0	%100
41	M39	X	2.672	0	%100
42	M39	Z	4.628	0	%100
43	M40	X	2.034	0	%100
44	M40	Z	3.523	0	%100
45	M42	X	2.123	0	%100
46	M42	Z	3.677	0	%100
47	M44	X	2.672	0	%100
48	M44	Z	4.628	0	%100
49	M45	X	2.034	0	%100
50	M45	Z	3.523	0	%100
51	M47	X	2.123	0	%100
52	M47	Z	3.677	0	%100
53	M52A	X	.533	0	%100
54	M52A	Z	.923	0	%100
55	M53	X	1.303	0	%100
56	M53	Z	2.256	0	%100
57	M54	X	1.303	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	2.256	2.256	0 %100
59	M55	X	2.037	2.037	0 %100
60	M55	Z	3.529	3.529	0 %100
61	M58A	X	1.499	1.499	0 %100
62	M58A	Z	2.597	2.597	0 %100
63	M59A	X	0	0	0 %100
64	M59A	Z	0	0	0 %100
65	M63	X	.668	.668	0 %100
66	M63	Z	1.157	1.157	0 %100
67	M64	X	2.034	2.034	0 %100
68	M64	Z	3.523	3.523	0 %100
69	M66	X	2.123	2.123	0 %100
70	M66	Z	3.677	3.677	0 %100
71	M68	X	.668	.668	0 %100
72	M68	Z	1.157	1.157	0 %100
73	M69	X	0	0	0 %100
74	M69	Z	0	0	0 %100
75	M71	X	0	0	0 %100
76	M71	Z	0	0	0 %100
77	MP2A	X	1.704	1.704	0 %100
78	MP2A	Z	2.951	2.951	0 %100
79	MP3A	X	1.885	1.885	0 %100
80	MP3A	Z	3.266	3.266	0 %100
81	MP4A	X	1.704	1.704	0 %100
82	MP4A	Z	2.951	2.951	0 %100
83	M82	X	0	0	0 %100
84	M82	Z	0	0	0 %100
85	MP1C	X	1.704	1.704	0 %100
86	MP1C	Z	2.951	2.951	0 %100
87	MP2C	X	1.704	1.704	0 %100
88	MP2C	Z	2.951	2.951	0 %100
89	MP3C	X	1.885	1.885	0 %100
90	MP3C	Z	3.266	3.266	0 %100
91	MP4C	X	1.704	1.704	0 %100
92	MP4C	Z	2.951	2.951	0 %100
93	M91A	X	1.585	1.585	0 %100
94	M91A	Z	2.744	2.744	0 %100
95	MP1B	X	1.704	1.704	0 %100
96	MP1B	Z	2.951	2.951	0 %100
97	MP2B	X	1.704	1.704	0 %100
98	MP2B	Z	2.951	2.951	0 %100
99	MP3B	X	1.885	1.885	0 %100
100	MP3B	Z	3.266	3.266	0 %100
101	MP4B	X	1.704	1.704	0 %100
102	MP4B	Z	2.951	2.951	0 %100
103	M100	X	0	0	0 %100
104	M100	Z	0	0	0 %100
105	M105	X	1.414	1.414	0 %100
106	M105	Z	2.449	2.449	0 %100
107	M110	X	1.414	1.414	0 %100
108	M110	Z	2.449	2.449	0 %100
109	M121	X	0	0	0 %100
110	M121	Z	0	0	0 %100
111	M128	X	1.488	1.488	0 %100
112	M128	Z	2.578	2.578	0 %100
113	M135	X	1.488	1.488	0 %100
114	M135	Z	2.578	2.578	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
1	FACE	X	0	0	0	%100
2	FACE	Z	4.225	4.225	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	3.474	3.474	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	3.407	3.407	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	3.474	3.474	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	5.433	5.433	0	%100
13	M51B	X	0	0	0	%100
14	M51B	Z	1	1	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	1	1	0	%100
17	M76	X	0	0	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	0	0	0	%100
20	M77	Z	1.356	1.356	0	%100
21	M80	X	0	0	0	%100
22	M80	Z	1.415	1.415	0	%100
23	M84	X	0	0	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	1.356	1.356	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	1.415	1.415	0	%100
29	M28	X	0	0	0	%100
30	M28	Z	3.199	3.199	0	%100
31	M29	X	0	0	0	%100
32	M29	Z	.868	.868	0	%100
33	M30	X	0	0	0	%100
34	M30	Z	.868	.868	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	1.358	1.358	0	%100
37	M34	X	0	0	0	%100
38	M34	Z	1	1	0	%100
39	M35	X	0	0	0	%100
40	M35	Z	3.998	3.998	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	4.008	4.008	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	1.356	1.356	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	1.415	1.415	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	4.008	4.008	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	5.425	5.425	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	5.662	5.662	0	%100
53	M52A	X	0	0	0	%100
54	M52A	Z	3.199	3.199	0	%100
55	M53	X	0	0	0	%100
56	M53	Z	.868	.868	0	%100
57	M54	X	0	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	.868	.868	0 %100
59	M55	X	0	0	0 %100
60	M55	Z	1.358	1.358	0 %100
61	M58A	X	0	0	0 %100
62	M58A	Z	3.998	3.998	0 %100
63	M59A	X	0	0	0 %100
64	M59A	Z	1	1	0 %100
65	M63	X	0	0	0 %100
66	M63	Z	4.008	4.008	0 %100
67	M64	X	0	0	0 %100
68	M64	Z	5.425	5.425	0 %100
69	M66	X	0	0	0 %100
70	M66	Z	5.662	5.662	0 %100
71	M68	X	0	0	0 %100
72	M68	Z	4.008	4.008	0 %100
73	M69	X	0	0	0 %100
74	M69	Z	1.356	1.356	0 %100
75	M71	X	0	0	0 %100
76	M71	Z	1.415	1.415	0 %100
77	MP2A	X	0	0	0 %100
78	MP2A	Z	3.407	3.407	0 %100
79	MP3A	X	0	0	0 %100
80	MP3A	Z	3.771	3.771	0 %100
81	MP4A	X	0	0	0 %100
82	MP4A	Z	3.407	3.407	0 %100
83	M82	X	0	0	0 %100
84	M82	Z	1.056	1.056	0 %100
85	MP1C	X	0	0	0 %100
86	MP1C	Z	3.407	3.407	0 %100
87	MP2C	X	0	0	0 %100
88	MP2C	Z	3.407	3.407	0 %100
89	MP3C	X	0	0	0 %100
90	MP3C	Z	3.771	3.771	0 %100
91	MP4C	X	0	0	0 %100
92	MP4C	Z	3.407	3.407	0 %100
93	M91A	X	0	0	0 %100
94	M91A	Z	1.056	1.056	0 %100
95	MP1B	X	0	0	0 %100
96	MP1B	Z	3.407	3.407	0 %100
97	MP2B	X	0	0	0 %100
98	MP2B	Z	3.407	3.407	0 %100
99	MP3B	X	0	0	0 %100
100	MP3B	Z	3.771	3.771	0 %100
101	MP4B	X	0	0	0 %100
102	MP4B	Z	3.407	3.407	0 %100
103	M100	X	0	0	0 %100
104	M100	Z	.943	.943	0 %100
105	M105	X	0	0	0 %100
106	M105	Z	.943	.943	0 %100
107	M110	X	0	0	0 %100
108	M110	Z	3.771	3.771	0 %100
109	M121	X	0	0	0 %100
110	M121	Z	.992	.992	0 %100
111	M128	X	0	0	0 %100
112	M128	Z	.992	.992	0 %100
113	M135	X	0	0	0 %100
114	M135	Z	3.969	3.969	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[...
1	FACE	X	-1.585	0	%100
2	FACE	Z	2.744	0	%100
3	M4	X	-.533	0	%100
4	M4	Z	.923	0	%100
5	M10	X	-1.303	0	%100
6	M10	Z	2.256	0	%100
7	MP1A	X	-1.704	0	%100
8	MP1A	Z	2.951	0	%100
9	M43	X	-1.303	0	%100
10	M43	Z	2.256	0	%100
11	M46	X	-2.037	0	%100
12	M46	Z	3.529	0	%100
13	M51B	X	-1.499	0	%100
14	M51B	Z	2.597	0	%100
15	M52B	X	0	0	%100
16	M52B	Z	0	0	%100
17	M76	X	-.668	0	%100
18	M76	Z	1.157	0	%100
19	M77	X	-2.034	0	%100
20	M77	Z	3.523	0	%100
21	M80	X	-2.123	0	%100
22	M80	Z	3.677	0	%100
23	M84	X	-.668	0	%100
24	M84	Z	1.157	0	%100
25	M85	X	0	0	%100
26	M85	Z	0	0	%100
27	M91	X	0	0	%100
28	M91	Z	0	0	%100
29	M28	X	-.533	0	%100
30	M28	Z	.923	0	%100
31	M29	X	-1.303	0	%100
32	M29	Z	2.256	0	%100
33	M30	X	-1.303	0	%100
34	M30	Z	2.256	0	%100
35	M31	X	-2.037	0	%100
36	M31	Z	3.529	0	%100
37	M34	X	0	0	%100
38	M34	Z	0	0	%100
39	M35	X	-1.499	0	%100
40	M35	Z	2.597	0	%100
41	M39	X	-.668	0	%100
42	M39	Z	1.157	0	%100
43	M40	X	0	0	%100
44	M40	Z	0	0	%100
45	M42	X	0	0	%100
46	M42	Z	0	0	%100
47	M44	X	-.668	0	%100
48	M44	Z	1.157	0	%100
49	M45	X	-2.034	0	%100
50	M45	Z	3.523	0	%100
51	M47	X	-2.123	0	%100
52	M47	Z	3.677	0	%100
53	M52A	X	-2.133	0	%100
54	M52A	Z	3.694	0	%100
55	M53	X	0	0	%100
56	M53	Z	0	0	%100
57	M54	X	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location	End Location	...
58	M54	Z	0	0	0	%100
59	M55	X	0	0	0	%100
60	M55	Z	0	0	0	%100
61	M58A	X	-1.499	-1.499	0	%100
62	M58A	Z	2.597	2.597	0	%100
63	M59A	X	-1.499	-1.499	0	%100
64	M59A	Z	2.597	2.597	0	%100
65	M63	X	-2.672	-2.672	0	%100
66	M63	Z	4.628	4.628	0	%100
67	M64	X	-2.034	-2.034	0	%100
68	M64	Z	3.523	3.523	0	%100
69	M66	X	-2.123	-2.123	0	%100
70	M66	Z	3.677	3.677	0	%100
71	M68	X	-2.672	-2.672	0	%100
72	M68	Z	4.628	4.628	0	%100
73	M69	X	-2.034	-2.034	0	%100
74	M69	Z	3.523	3.523	0	%100
75	M71	X	-2.123	-2.123	0	%100
76	M71	Z	3.677	3.677	0	%100
77	MP2A	X	-1.704	-1.704	0	%100
78	MP2A	Z	2.951	2.951	0	%100
79	MP3A	X	-1.885	-1.885	0	%100
80	MP3A	Z	3.266	3.266	0	%100
81	MP4A	X	-1.704	-1.704	0	%100
82	MP4A	Z	2.951	2.951	0	%100
83	M82	X	-1.585	-1.585	0	%100
84	M82	Z	2.744	2.744	0	%100
85	MP1C	X	-1.704	-1.704	0	%100
86	MP1C	Z	2.951	2.951	0	%100
87	MP2C	X	-1.704	-1.704	0	%100
88	MP2C	Z	2.951	2.951	0	%100
89	MP3C	X	-1.885	-1.885	0	%100
90	MP3C	Z	3.266	3.266	0	%100
91	MP4C	X	-1.704	-1.704	0	%100
92	MP4C	Z	2.951	2.951	0	%100
93	M91A	X	0	0	0	%100
94	M91A	Z	0	0	0	%100
95	MP1B	X	-1.704	-1.704	0	%100
96	MP1B	Z	2.951	2.951	0	%100
97	MP2B	X	-1.704	-1.704	0	%100
98	MP2B	Z	2.951	2.951	0	%100
99	MP3B	X	-1.885	-1.885	0	%100
100	MP3B	Z	3.266	3.266	0	%100
101	MP4B	X	-1.704	-1.704	0	%100
102	MP4B	Z	2.951	2.951	0	%100
103	M100	X	-1.414	-1.414	0	%100
104	M100	Z	2.449	2.449	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	0	0	0	%100
107	M110	X	-1.414	-1.414	0	%100
108	M110	Z	2.449	2.449	0	%100
109	M121	X	-1.488	-1.488	0	%100
110	M121	Z	2.578	2.578	0	%100
111	M128	X	0	0	0	%100
112	M128	Z	0	0	0	%100
113	M135	X	-1.488	-1.488	0	%100
114	M135	Z	2.578	2.578	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

Aug 2, 2021
 3:24 PM
 Checked By: _____

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
1	FACE	X	-915	-915	0 %100
2	FACE	Z	.528	.528	0 %100
3	M4	X	-2.77	-2.77	0 %100
4	M4	Z	1.6	1.6	0 %100
5	M10	X	-.752	-.752	0 %100
6	M10	Z	.434	.434	0 %100
7	MP1A	X	-2.951	-2.951	0 %100
8	MP1A	Z	1.704	1.704	0 %100
9	M43	X	-.752	-.752	0 %100
10	M43	Z	.434	.434	0 %100
11	M46	X	-1.176	-1.176	0 %100
12	M46	Z	.679	.679	0 %100
13	M51B	X	-3.462	-3.462	0 %100
14	M51B	Z	1.999	1.999	0 %100
15	M52B	X	-.866	-.866	0 %100
16	M52B	Z	.5	.5	0 %100
17	M76	X	-3.471	-3.471	0 %100
18	M76	Z	2.004	2.004	0 %100
19	M77	X	-4.698	-4.698	0 %100
20	M77	Z	2.712	2.712	0 %100
21	M80	X	-4.903	-4.903	0 %100
22	M80	Z	2.831	2.831	0 %100
23	M84	X	-3.471	-3.471	0 %100
24	M84	Z	2.004	2.004	0 %100
25	M85	X	-1.174	-1.174	0 %100
26	M85	Z	.678	.678	0 %100
27	M91	X	-1.226	-1.226	0 %100
28	M91	Z	.708	.708	0 %100
29	M28	X	0	0	0 %100
30	M28	Z	0	0	0 %100
31	M29	X	-3.008	-3.008	0 %100
32	M29	Z	1.737	1.737	0 %100
33	M30	X	-3.008	-3.008	0 %100
34	M30	Z	1.737	1.737	0 %100
35	M31	X	-4.705	-4.705	0 %100
36	M31	Z	2.716	2.716	0 %100
37	M34	X	-.866	-.866	0 %100
38	M34	Z	.5	.5	0 %100
39	M35	X	-.866	-.866	0 %100
40	M35	Z	.5	.5	0 %100
41	M39	X	0	0	0 %100
42	M39	Z	0	0	0 %100
43	M40	X	-1.174	-1.174	0 %100
44	M40	Z	.678	.678	0 %100
45	M42	X	-1.226	-1.226	0 %100
46	M42	Z	.708	.708	0 %100
47	M44	X	0	0	0 %100
48	M44	Z	0	0	0 %100
49	M45	X	-1.174	-1.174	0 %100
50	M45	Z	.678	.678	0 %100
51	M47	X	-1.226	-1.226	0 %100
52	M47	Z	.708	.708	0 %100
53	M52A	X	-2.77	-2.77	0 %100
54	M52A	Z	1.6	1.6	0 %100
55	M53	X	-.752	-.752	0 %100
56	M53	Z	.434	.434	0 %100
57	M54	X	-.752	-.752	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	.434	.434	0 %100
59	M55	X	-1.176	-1.176	0 %100
60	M55	Z	.679	.679	0 %100
61	M58A	X	-.866	-.866	0 %100
62	M58A	Z	.5	.5	0 %100
63	M59A	X	-3.462	-3.462	0 %100
64	M59A	Z	1.999	1.999	0 %100
65	M63	X	-3.471	-3.471	0 %100
66	M63	Z	2.004	2.004	0 %100
67	M64	X	-1.174	-1.174	0 %100
68	M64	Z	.678	.678	0 %100
69	M66	X	-1.226	-1.226	0 %100
70	M66	Z	.708	.708	0 %100
71	M68	X	-3.471	-3.471	0 %100
72	M68	Z	2.004	2.004	0 %100
73	M69	X	-4.698	-4.698	0 %100
74	M69	Z	2.712	2.712	0 %100
75	M71	X	-4.903	-4.903	0 %100
76	M71	Z	2.831	2.831	0 %100
77	MP2A	X	-2.951	-2.951	0 %100
78	MP2A	Z	1.704	1.704	0 %100
79	MP3A	X	-3.266	-3.266	0 %100
80	MP3A	Z	1.885	1.885	0 %100
81	MP4A	X	-2.951	-2.951	0 %100
82	MP4A	Z	1.704	1.704	0 %100
83	M82	X	-3.659	-3.659	0 %100
84	M82	Z	2.113	2.113	0 %100
85	MP1C	X	-2.951	-2.951	0 %100
86	MP1C	Z	1.704	1.704	0 %100
87	MP2C	X	-2.951	-2.951	0 %100
88	MP2C	Z	1.704	1.704	0 %100
89	MP3C	X	-3.266	-3.266	0 %100
90	MP3C	Z	1.885	1.885	0 %100
91	MP4C	X	-2.951	-2.951	0 %100
92	MP4C	Z	1.704	1.704	0 %100
93	M91A	X	-.915	-.915	0 %100
94	M91A	Z	.528	.528	0 %100
95	MP1B	X	-2.951	-2.951	0 %100
96	MP1B	Z	1.704	1.704	0 %100
97	MP2B	X	-2.951	-2.951	0 %100
98	MP2B	Z	1.704	1.704	0 %100
99	MP3B	X	-3.266	-3.266	0 %100
100	MP3B	Z	1.885	1.885	0 %100
101	MP4B	X	-2.951	-2.951	0 %100
102	MP4B	Z	1.704	1.704	0 %100
103	M100	X	-3.266	-3.266	0 %100
104	M100	Z	1.885	1.885	0 %100
105	M105	X	-.816	-.816	0 %100
106	M105	Z	.471	.471	0 %100
107	M110	X	-.816	-.816	0 %100
108	M110	Z	.471	.471	0 %100
109	M121	X	-3.437	-3.437	0 %100
110	M121	Z	1.984	1.984	0 %100
111	M128	X	-.859	-.859	0 %100
112	M128	Z	.496	.496	0 %100
113	M135	X	-.859	-.859	0 %100
114	M135	Z	.496	.496	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
1	FACE	X	0	0	%100
2	FACE	Z	0	0	%100
3	M4	X	-4.265	-4.265	0
4	M4	Z	0	0	%100
5	M10	X	0	0	%100
6	M10	Z	0	0	%100
7	MP1A	X	-3.407	-3.407	0
8	MP1A	Z	0	0	%100
9	M43	X	0	0	%100
10	M43	Z	0	0	%100
11	M46	X	0	0	%100
12	M46	Z	0	0	%100
13	M51B	X	-2.999	-2.999	0
14	M51B	Z	0	0	%100
15	M52B	X	-2.999	-2.999	0
16	M52B	Z	0	0	%100
17	M76	X	-5.344	-5.344	0
18	M76	Z	0	0	%100
19	M77	X	-4.069	-4.069	0
20	M77	Z	0	0	%100
21	M80	X	-4.246	-4.246	0
22	M80	Z	0	0	%100
23	M84	X	-5.344	-5.344	0
24	M84	Z	0	0	%100
25	M85	X	-4.069	-4.069	0
26	M85	Z	0	0	%100
27	M91	X	-4.246	-4.246	0
28	M91	Z	0	0	%100
29	M28	X	-1.066	-1.066	0
30	M28	Z	0	0	%100
31	M29	X	-2.605	-2.605	0
32	M29	Z	0	0	%100
33	M30	X	-2.605	-2.605	0
34	M30	Z	0	0	%100
35	M31	X	-4.075	-4.075	0
36	M31	Z	0	0	%100
37	M34	X	-2.999	-2.999	0
38	M34	Z	0	0	%100
39	M35	X	0	0	%100
40	M35	Z	0	0	%100
41	M39	X	-1.336	-1.336	0
42	M39	Z	0	0	%100
43	M40	X	-4.069	-4.069	0
44	M40	Z	0	0	%100
45	M42	X	-4.246	-4.246	0
46	M42	Z	0	0	%100
47	M44	X	-1.336	-1.336	0
48	M44	Z	0	0	%100
49	M45	X	0	0	%100
50	M45	Z	0	0	%100
51	M47	X	0	0	%100
52	M47	Z	0	0	%100
53	M52A	X	-1.066	-1.066	0
54	M52A	Z	0	0	%100
55	M53	X	-2.605	-2.605	0
56	M53	Z	0	0	%100
57	M54	X	-2.605	-2.605	0

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	0	0	%100
59	M55	X	-4.075	-4.075	0
60	M55	Z	0	0	%100
61	M58A	X	0	0	%100
62	M58A	Z	0	0	%100
63	M59A	X	-2.999	-2.999	0
64	M59A	Z	0	0	%100
65	M63	X	-1.336	-1.336	0
66	M63	Z	0	0	%100
67	M64	X	0	0	%100
68	M64	Z	0	0	%100
69	M66	X	0	0	%100
70	M66	Z	0	0	%100
71	M68	X	-1.336	-1.336	0
72	M68	Z	0	0	%100
73	M69	X	-4.069	-4.069	0
74	M69	Z	0	0	%100
75	M71	X	-4.246	-4.246	0
76	M71	Z	0	0	%100
77	MP2A	X	-3.407	-3.407	0
78	MP2A	Z	0	0	%100
79	MP3A	X	-3.771	-3.771	0
80	MP3A	Z	0	0	%100
81	MP4A	X	-3.407	-3.407	0
82	MP4A	Z	0	0	%100
83	M82	X	-3.169	-3.169	0
84	M82	Z	0	0	%100
85	MP1C	X	-3.407	-3.407	0
86	MP1C	Z	0	0	%100
87	MP2C	X	-3.407	-3.407	0
88	MP2C	Z	0	0	%100
89	MP3C	X	-3.771	-3.771	0
90	MP3C	Z	0	0	%100
91	MP4C	X	-3.407	-3.407	0
92	MP4C	Z	0	0	%100
93	M91A	X	-3.169	-3.169	0
94	M91A	Z	0	0	%100
95	MP1B	X	-3.407	-3.407	0
96	MP1B	Z	0	0	%100
97	MP2B	X	-3.407	-3.407	0
98	MP2B	Z	0	0	%100
99	MP3B	X	-3.771	-3.771	0
100	MP3B	Z	0	0	%100
101	MP4B	X	-3.407	-3.407	0
102	MP4B	Z	0	0	%100
103	M100	X	-2.828	-2.828	0
104	M100	Z	0	0	%100
105	M105	X	-2.828	-2.828	0
106	M105	Z	0	0	%100
107	M110	X	0	0	%100
108	M110	Z	0	0	%100
109	M121	X	-2.976	-2.976	0
110	M121	Z	0	0	%100
111	M128	X	-2.976	-2.976	0
112	M128	Z	0	0	%100
113	M135	X	0	0	%100
114	M135	Z	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[...
1	FACE	X	-915	-915	0 %100
2	FACE	Z	-528	-528	0 %100
3	M4	X	-2.77	-2.77	0 %100
4	M4	Z	-1.6	-1.6	0 %100
5	M10	X	-752	-752	0 %100
6	M10	Z	-434	-434	0 %100
7	MP1A	X	-2.951	-2.951	0 %100
8	MP1A	Z	-1.704	-1.704	0 %100
9	M43	X	-752	-752	0 %100
10	M43	Z	-434	-434	0 %100
11	M46	X	-1.176	-1.176	0 %100
12	M46	Z	-679	-679	0 %100
13	M51B	X	-866	-866	0 %100
14	M51B	Z	-5	-5	0 %100
15	M52B	X	-3.462	-3.462	0 %100
16	M52B	Z	-1.999	-1.999	0 %100
17	M76	X	-3.471	-3.471	0 %100
18	M76	Z	-2.004	-2.004	0 %100
19	M77	X	-1.174	-1.174	0 %100
20	M77	Z	-678	-678	0 %100
21	M80	X	-1.226	-1.226	0 %100
22	M80	Z	-708	-708	0 %100
23	M84	X	-3.471	-3.471	0 %100
24	M84	Z	-2.004	-2.004	0 %100
25	M85	X	-4.698	-4.698	0 %100
26	M85	Z	-2.712	-2.712	0 %100
27	M91	X	-4.903	-4.903	0 %100
28	M91	Z	-2.831	-2.831	0 %100
29	M28	X	-2.77	-2.77	0 %100
30	M28	Z	-1.6	-1.6	0 %100
31	M29	X	-752	-752	0 %100
32	M29	Z	-434	-434	0 %100
33	M30	X	-752	-752	0 %100
34	M30	Z	-434	-434	0 %100
35	M31	X	-1.176	-1.176	0 %100
36	M31	Z	-679	-679	0 %100
37	M34	X	-3.462	-3.462	0 %100
38	M34	Z	-1.999	-1.999	0 %100
39	M35	X	-866	-866	0 %100
40	M35	Z	-5	-5	0 %100
41	M39	X	-3.471	-3.471	0 %100
42	M39	Z	-2.004	-2.004	0 %100
43	M40	X	-4.698	-4.698	0 %100
44	M40	Z	-2.712	-2.712	0 %100
45	M42	X	-4.903	-4.903	0 %100
46	M42	Z	-2.831	-2.831	0 %100
47	M44	X	-3.471	-3.471	0 %100
48	M44	Z	-2.004	-2.004	0 %100
49	M45	X	-1.174	-1.174	0 %100
50	M45	Z	-678	-678	0 %100
51	M47	X	-1.226	-1.226	0 %100
52	M47	Z	-708	-708	0 %100
53	M52A	X	0	0	0 %100
54	M52A	Z	0	0	0 %100
55	M53	X	-3.008	-3.008	0 %100
56	M53	Z	-1.737	-1.737	0 %100
57	M54	X	-3.008	-3.008	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	-1.737	-1.737	0 %100
59	M55	X	-4.705	-4.705	0 %100
60	M55	Z	-2.716	-2.716	0 %100
61	M58A	X	-.866	-.866	0 %100
62	M58A	Z	-.5	-.5	0 %100
63	M59A	X	-.866	-.866	0 %100
64	M59A	Z	-.5	-.5	0 %100
65	M63	X	0	0	0 %100
66	M63	Z	0	0	0 %100
67	M64	X	-1.174	-1.174	0 %100
68	M64	Z	-.678	-.678	0 %100
69	M66	X	-1.226	-1.226	0 %100
70	M66	Z	-.708	-.708	0 %100
71	M68	X	0	0	0 %100
72	M68	Z	0	0	0 %100
73	M69	X	-1.174	-1.174	0 %100
74	M69	Z	-.678	-.678	0 %100
75	M71	X	-1.226	-1.226	0 %100
76	M71	Z	-.708	-.708	0 %100
77	MP2A	X	-2.951	-2.951	0 %100
78	MP2A	Z	-1.704	-1.704	0 %100
79	MP3A	X	-3.266	-3.266	0 %100
80	MP3A	Z	-1.885	-1.885	0 %100
81	MP4A	X	-2.951	-2.951	0 %100
82	MP4A	Z	-1.704	-1.704	0 %100
83	M82	X	-.915	-.915	0 %100
84	M82	Z	-.528	-.528	0 %100
85	MP1C	X	-2.951	-2.951	0 %100
86	MP1C	Z	-1.704	-1.704	0 %100
87	MP2C	X	-2.951	-2.951	0 %100
88	MP2C	Z	-1.704	-1.704	0 %100
89	MP3C	X	-3.266	-3.266	0 %100
90	MP3C	Z	-1.885	-1.885	0 %100
91	MP4C	X	-2.951	-2.951	0 %100
92	MP4C	Z	-1.704	-1.704	0 %100
93	M91A	X	-3.659	-3.659	0 %100
94	M91A	Z	-2.113	-2.113	0 %100
95	MP1B	X	-2.951	-2.951	0 %100
96	MP1B	Z	-1.704	-1.704	0 %100
97	MP2B	X	-2.951	-2.951	0 %100
98	MP2B	Z	-1.704	-1.704	0 %100
99	MP3B	X	-3.266	-3.266	0 %100
100	MP3B	Z	-1.885	-1.885	0 %100
101	MP4B	X	-2.951	-2.951	0 %100
102	MP4B	Z	-1.704	-1.704	0 %100
103	M100	X	-.816	-.816	0 %100
104	M100	Z	-.471	-.471	0 %100
105	M105	X	-3.266	-3.266	0 %100
106	M105	Z	-1.885	-1.885	0 %100
107	M110	X	-.816	-.816	0 %100
108	M110	Z	-.471	-.471	0 %100
109	M121	X	-.859	-.859	0 %100
110	M121	Z	-.496	-.496	0 %100
111	M128	X	-3.437	-3.437	0 %100
112	M128	Z	-1.984	-1.984	0 %100
113	M135	X	-.859	-.859	0 %100
114	M135	Z	-.496	-.496	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
1	FACE	X	-1.585	-1.585	0 %100
2	FACE	Z	-2.744	-2.744	0 %100
3	M4	X	-.533	-.533	0 %100
4	M4	Z	-.923	-.923	0 %100
5	M10	X	-1.303	-1.303	0 %100
6	M10	Z	-2.256	-2.256	0 %100
7	MP1A	X	-1.704	-1.704	0 %100
8	MP1A	Z	-2.951	-2.951	0 %100
9	M43	X	-1.303	-1.303	0 %100
10	M43	Z	-2.256	-2.256	0 %100
11	M46	X	-2.037	-2.037	0 %100
12	M46	Z	-3.529	-3.529	0 %100
13	M51B	X	0	0	0 %100
14	M51B	Z	0	0	0 %100
15	M52B	X	-1.499	-1.499	0 %100
16	M52B	Z	-2.597	-2.597	0 %100
17	M76	X	-.668	-.668	0 %100
18	M76	Z	-1.157	-1.157	0 %100
19	M77	X	0	0	0 %100
20	M77	Z	0	0	0 %100
21	M80	X	0	0	0 %100
22	M80	Z	0	0	0 %100
23	M84	X	-.668	-.668	0 %100
24	M84	Z	-1.157	-1.157	0 %100
25	M85	X	-2.034	-2.034	0 %100
26	M85	Z	-3.523	-3.523	0 %100
27	M91	X	-2.123	-2.123	0 %100
28	M91	Z	-3.677	-3.677	0 %100
29	M28	X	-2.133	-2.133	0 %100
30	M28	Z	-3.694	-3.694	0 %100
31	M29	X	0	0	0 %100
32	M29	Z	0	0	0 %100
33	M30	X	0	0	0 %100
34	M30	Z	0	0	0 %100
35	M31	X	0	0	0 %100
36	M31	Z	0	0	0 %100
37	M34	X	-1.499	-1.499	0 %100
38	M34	Z	-2.597	-2.597	0 %100
39	M35	X	-1.499	-1.499	0 %100
40	M35	Z	-2.597	-2.597	0 %100
41	M39	X	-2.672	-2.672	0 %100
42	M39	Z	-4.628	-4.628	0 %100
43	M40	X	-2.034	-2.034	0 %100
44	M40	Z	-3.523	-3.523	0 %100
45	M42	X	-2.123	-2.123	0 %100
46	M42	Z	-3.677	-3.677	0 %100
47	M44	X	-2.672	-2.672	0 %100
48	M44	Z	-4.628	-4.628	0 %100
49	M45	X	-2.034	-2.034	0 %100
50	M45	Z	-3.523	-3.523	0 %100
51	M47	X	-2.123	-2.123	0 %100
52	M47	Z	-3.677	-3.677	0 %100
53	M52A	X	-.533	-.533	0 %100
54	M52A	Z	-.923	-.923	0 %100
55	M53	X	-1.303	-1.303	0 %100
56	M53	Z	-2.256	-2.256	0 %100
57	M54	X	-1.303	-1.303	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	-2.256	-2.256	0 %100
59	M55	X	-2.037	-2.037	0 %100
60	M55	Z	-3.529	-3.529	0 %100
61	M58A	X	-1.499	-1.499	0 %100
62	M58A	Z	-2.597	-2.597	0 %100
63	M59A	X	0	0	0 %100
64	M59A	Z	0	0	0 %100
65	M63	X	-0.668	-0.668	0 %100
66	M63	Z	-1.157	-1.157	0 %100
67	M64	X	-2.034	-2.034	0 %100
68	M64	Z	-3.523	-3.523	0 %100
69	M66	X	-2.123	-2.123	0 %100
70	M66	Z	-3.677	-3.677	0 %100
71	M68	X	-0.668	-0.668	0 %100
72	M68	Z	-1.157	-1.157	0 %100
73	M69	X	0	0	0 %100
74	M69	Z	0	0	0 %100
75	M71	X	0	0	0 %100
76	M71	Z	0	0	0 %100
77	MP2A	X	-1.704	-1.704	0 %100
78	MP2A	Z	-2.951	-2.951	0 %100
79	MP3A	X	-1.885	-1.885	0 %100
80	MP3A	Z	-3.266	-3.266	0 %100
81	MP4A	X	-1.704	-1.704	0 %100
82	MP4A	Z	-2.951	-2.951	0 %100
83	M82	X	0	0	0 %100
84	M82	Z	0	0	0 %100
85	MP1C	X	-1.704	-1.704	0 %100
86	MP1C	Z	-2.951	-2.951	0 %100
87	MP2C	X	-1.704	-1.704	0 %100
88	MP2C	Z	-2.951	-2.951	0 %100
89	MP3C	X	-1.885	-1.885	0 %100
90	MP3C	Z	-3.266	-3.266	0 %100
91	MP4C	X	-1.704	-1.704	0 %100
92	MP4C	Z	-2.951	-2.951	0 %100
93	M91A	X	-1.585	-1.585	0 %100
94	M91A	Z	-2.744	-2.744	0 %100
95	MP1B	X	-1.704	-1.704	0 %100
96	MP1B	Z	-2.951	-2.951	0 %100
97	MP2B	X	-1.704	-1.704	0 %100
98	MP2B	Z	-2.951	-2.951	0 %100
99	MP3B	X	-1.885	-1.885	0 %100
100	MP3B	Z	-3.266	-3.266	0 %100
101	MP4B	X	-1.704	-1.704	0 %100
102	MP4B	Z	-2.951	-2.951	0 %100
103	M100	X	0	0	0 %100
104	M100	Z	0	0	0 %100
105	M105	X	-1.414	-1.414	0 %100
106	M105	Z	-2.449	-2.449	0 %100
107	M110	X	-1.414	-1.414	0 %100
108	M110	Z	-2.449	-2.449	0 %100
109	M121	X	0	0	0 %100
110	M121	Z	0	0	0 %100
111	M128	X	-1.488	-1.488	0 %100
112	M128	Z	-2.578	-2.578	0 %100
113	M135	X	-1.488	-1.488	0 %100
114	M135	Z	-2.578	-2.578	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
1	FACE	X	0	0	%100
2	FACE	Z	-.916	0	%100
3	M4	X	0	0	%100
4	M4	Z	0	0	%100
5	M10	X	0	0	%100
6	M10	Z	-.788	0	%100
7	MP1A	X	0	0	%100
8	MP1A	Z	-.622	0	%100
9	M43	X	0	0	%100
10	M43	Z	-.788	0	%100
11	M46	X	0	0	%100
12	M46	Z	-1.571	0	%100
13	M51B	X	0	0	%100
14	M51B	Z	-.218	0	%100
15	M52B	X	0	0	%100
16	M52B	Z	-.218	0	%100
17	M76	X	0	0	%100
18	M76	Z	0	0	%100
19	M77	X	0	0	%100
20	M77	Z	-.4	0	%100
21	M80	X	0	0	%100
22	M80	Z	-.421	0	%100
23	M84	X	0	0	%100
24	M84	Z	0	0	%100
25	M85	X	0	0	%100
26	M85	Z	-.4	0	%100
27	M91	X	0	0	%100
28	M91	Z	-.421	0	%100
29	M28	X	0	0	%100
30	M28	Z	-.698	0	%100
31	M29	X	0	0	%100
32	M29	Z	-.197	0	%100
33	M30	X	0	0	%100
34	M30	Z	-.197	0	%100
35	M31	X	0	0	%100
36	M31	Z	-.393	0	%100
37	M34	X	0	0	%100
38	M34	Z	-.218	0	%100
39	M35	X	0	0	%100
40	M35	Z	-.872	0	%100
41	M39	X	0	0	%100
42	M39	Z	-1.178	0	%100
43	M40	X	0	0	%100
44	M40	Z	-.4	0	%100
45	M42	X	0	0	%100
46	M42	Z	-.421	0	%100
47	M44	X	0	0	%100
48	M44	Z	-1.178	0	%100
49	M45	X	0	0	%100
50	M45	Z	-1.6	0	%100
51	M47	X	0	0	%100
52	M47	Z	-1.685	0	%100
53	M52A	X	0	0	%100
54	M52A	Z	-.698	0	%100
55	M53	X	0	0	%100
56	M53	Z	-.197	0	%100
57	M54	X	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	-.197		%100
59	M55	X	0		%100
60	M55	Z	-.393		%100
61	M58A	X	0		%100
62	M58A	Z	-.872		%100
63	M59A	X	0		%100
64	M59A	Z	-.218		%100
65	M63	X	0		%100
66	M63	Z	-1.178		%100
67	M64	X	0		%100
68	M64	Z	-1.6		%100
69	M66	X	0		%100
70	M66	Z	-1.685		%100
71	M68	X	0		%100
72	M68	Z	-1.178		%100
73	M69	X	0		%100
74	M69	Z	-.4		%100
75	M71	X	0		%100
76	M71	Z	-.421		%100
77	MP2A	X	0		%100
78	MP2A	Z	-.622		%100
79	MP3A	X	0		%100
80	MP3A	Z	-.753		%100
81	MP4A	X	0		%100
82	MP4A	Z	-.622		%100
83	M82	X	0		%100
84	M82	Z	-.229		%100
85	MP1C	X	0		%100
86	MP1C	Z	-.622		%100
87	MP2C	X	0		%100
88	MP2C	Z	-.622		%100
89	MP3C	X	0		%100
90	MP3C	Z	-.753		%100
91	MP4C	X	0		%100
92	MP4C	Z	-.622		%100
93	M91A	X	0		%100
94	M91A	Z	-.229		%100
95	MP1B	X	0		%100
96	MP1B	Z	-.622		%100
97	MP2B	X	0		%100
98	MP2B	Z	-.622		%100
99	MP3B	X	0		%100
100	MP3B	Z	-.753		%100
101	MP4B	X	0		%100
102	MP4B	Z	-.622		%100
103	M100	X	0		%100
104	M100	Z	-.188		%100
105	M105	X	0		%100
106	M105	Z	-.188		%100
107	M110	X	0		%100
108	M110	Z	-.753		%100
109	M121	X	0		%100
110	M121	Z	-.242		%100
111	M128	X	0		%100
112	M128	Z	-.242		%100
113	M135	X	0		%100
114	M135	Z	-.968		%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
1	FACE	X	.344	.344	0	%100
2	FACE	Z	-.595	-.595	0	%100
3	M4	X	.116	.116	0	%100
4	M4	Z	-.202	-.202	0	%100
5	M10	X	.295	.295	0	%100
6	M10	Z	-.512	-.512	0	%100
7	MP1A	X	.311	.311	0	%100
8	MP1A	Z	-.539	-.539	0	%100
9	M43	X	.295	.295	0	%100
10	M43	Z	-.512	-.512	0	%100
11	M46	X	.589	.589	0	%100
12	M46	Z	-1.02	-1.02	0	%100
13	M51B	X	.327	.327	0	%100
14	M51B	Z	-.567	-.567	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	.196	.196	0	%100
18	M76	Z	-.34	-.34	0	%100
19	M77	X	.6	.6	0	%100
20	M77	Z	-1.039	-1.039	0	%100
21	M80	X	.632	.632	0	%100
22	M80	Z	-1.095	-1.095	0	%100
23	M84	X	.196	.196	0	%100
24	M84	Z	-.34	-.34	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	0	0	0	%100
29	M28	X	.116	.116	0	%100
30	M28	Z	-.202	-.202	0	%100
31	M29	X	.295	.295	0	%100
32	M29	Z	-.512	-.512	0	%100
33	M30	X	.295	.295	0	%100
34	M30	Z	-.512	-.512	0	%100
35	M31	X	.589	.589	0	%100
36	M31	Z	-1.02	-1.02	0	%100
37	M34	X	0	0	0	%100
38	M34	Z	0	0	0	%100
39	M35	X	.327	.327	0	%100
40	M35	Z	-.567	-.567	0	%100
41	M39	X	.196	.196	0	%100
42	M39	Z	-.34	-.34	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	0	0	0	%100
47	M44	X	.196	.196	0	%100
48	M44	Z	-.34	-.34	0	%100
49	M45	X	.6	.6	0	%100
50	M45	Z	-1.039	-1.039	0	%100
51	M47	X	.632	.632	0	%100
52	M47	Z	-1.095	-1.095	0	%100
53	M52A	X	.465	.465	0	%100
54	M52A	Z	-.806	-.806	0	%100
55	M53	X	0	0	0	%100
56	M53	Z	0	0	0	%100
57	M54	X	0	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	0	0	%100
59	M55	X	0	0	%100
60	M55	Z	0	0	%100
61	M58A	X	.327	.327	%100
62	M58A	Z	-.567	-.567	%100
63	M59A	X	.327	.327	%100
64	M59A	Z	-.567	-.567	%100
65	M63	X	.786	.786	%100
66	M63	Z	-1.361	-1.361	%100
67	M64	X	.6	.6	%100
68	M64	Z	-1.039	-1.039	%100
69	M66	X	.632	.632	%100
70	M66	Z	-1.095	-1.095	%100
71	M68	X	.786	.786	%100
72	M68	Z	-1.361	-1.361	%100
73	M69	X	.6	.6	%100
74	M69	Z	-1.039	-1.039	%100
75	M71	X	.632	.632	%100
76	M71	Z	-1.095	-1.095	%100
77	MP2A	X	.311	.311	%100
78	MP2A	Z	-.539	-.539	%100
79	MP3A	X	.376	.376	%100
80	MP3A	Z	-.652	-.652	%100
81	MP4A	X	.311	.311	%100
82	MP4A	Z	-.539	-.539	%100
83	M82	X	.344	.344	%100
84	M82	Z	-.595	-.595	%100
85	MP1C	X	.311	.311	%100
86	MP1C	Z	-.539	-.539	%100
87	MP2C	X	.311	.311	%100
88	MP2C	Z	-.539	-.539	%100
89	MP3C	X	.376	.376	%100
90	MP3C	Z	-.652	-.652	%100
91	MP4C	X	.311	.311	%100
92	MP4C	Z	-.539	-.539	%100
93	M91A	X	0	0	%100
94	M91A	Z	0	0	%100
95	MP1B	X	.311	.311	%100
96	MP1B	Z	-.539	-.539	%100
97	MP2B	X	.311	.311	%100
98	MP2B	Z	-.539	-.539	%100
99	MP3B	X	.376	.376	%100
100	MP3B	Z	-.652	-.652	%100
101	MP4B	X	.311	.311	%100
102	MP4B	Z	-.539	-.539	%100
103	M100	X	.282	.282	%100
104	M100	Z	-.489	-.489	%100
105	M105	X	0	0	%100
106	M105	Z	0	0	%100
107	M110	X	.282	.282	%100
108	M110	Z	-.489	-.489	%100
109	M121	X	.363	.363	%100
110	M121	Z	-.629	-.629	%100
111	M128	X	0	0	%100
112	M128	Z	0	0	%100
113	M135	X	.363	.363	%100
114	M135	Z	-.629	-.629	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[...
1	FACE	X	.198	.198	0 %100
2	FACE	Z	-.115	-.115	0 %100
3	M4	X	.605	.605	0 %100
4	M4	Z	-.349	-.349	0 %100
5	M10	X	.171	.171	0 %100
6	M10	Z	-.098	-.098	0 %100
7	MP1A	X	.539	.539	0 %100
8	MP1A	Z	-.311	-.311	0 %100
9	M43	X	.171	.171	0 %100
10	M43	Z	-.098	-.098	0 %100
11	M46	X	.34	.34	0 %100
12	M46	Z	-.196	-.196	0 %100
13	M51B	X	.756	.756	0 %100
14	M51B	Z	-.436	-.436	0 %100
15	M52B	X	.189	.189	0 %100
16	M52B	Z	-.109	-.109	0 %100
17	M76	X	1.02	1.02	0 %100
18	M76	Z	-.589	-.589	0 %100
19	M77	X	1.386	1.386	0 %100
20	M77	Z	-.8	-.8	0 %100
21	M80	X	1.46	1.46	0 %100
22	M80	Z	-.843	-.843	0 %100
23	M84	X	1.02	1.02	0 %100
24	M84	Z	-.589	-.589	0 %100
25	M85	X	.346	.346	0 %100
26	M85	Z	-.2	-.2	0 %100
27	M91	X	.365	.365	0 %100
28	M91	Z	-.211	-.211	0 %100
29	M28	X	0	0	0 %100
30	M28	Z	0	0	0 %100
31	M29	X	.682	.682	0 %100
32	M29	Z	-.394	-.394	0 %100
33	M30	X	.682	.682	0 %100
34	M30	Z	-.394	-.394	0 %100
35	M31	X	1.361	1.361	0 %100
36	M31	Z	-.786	-.786	0 %100
37	M34	X	.189	.189	0 %100
38	M34	Z	-.109	-.109	0 %100
39	M35	X	.189	.189	0 %100
40	M35	Z	-.109	-.109	0 %100
41	M39	X	0	0	0 %100
42	M39	Z	0	0	0 %100
43	M40	X	.346	.346	0 %100
44	M40	Z	-.2	-.2	0 %100
45	M42	X	.365	.365	0 %100
46	M42	Z	-.211	-.211	0 %100
47	M44	X	0	0	0 %100
48	M44	Z	0	0	0 %100
49	M45	X	.346	.346	0 %100
50	M45	Z	-.2	-.2	0 %100
51	M47	X	.365	.365	0 %100
52	M47	Z	-.211	-.211	0 %100
53	M52A	X	.605	.605	0 %100
54	M52A	Z	-.349	-.349	0 %100
55	M53	X	.171	.171	0 %100
56	M53	Z	-.098	-.098	0 %100
57	M54	X	.171	.171	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	-.098	0	%100
59	M55	X	.34	0	%100
60	M55	Z	-.196	0	%100
61	M58A	X	.189	0	%100
62	M58A	Z	-.109	0	%100
63	M59A	X	.756	0	%100
64	M59A	Z	-.436	0	%100
65	M63	X	1.02	0	%100
66	M63	Z	-.589	0	%100
67	M64	X	.346	0	%100
68	M64	Z	-.2	0	%100
69	M66	X	.365	0	%100
70	M66	Z	-.211	0	%100
71	M68	X	1.02	0	%100
72	M68	Z	-.589	0	%100
73	M69	X	1.386	0	%100
74	M69	Z	-.8	0	%100
75	M71	X	1.46	0	%100
76	M71	Z	-.843	0	%100
77	MP2A	X	.539	0	%100
78	MP2A	Z	-.311	0	%100
79	MP3A	X	.652	0	%100
80	MP3A	Z	-.376	0	%100
81	MP4A	X	.539	0	%100
82	MP4A	Z	-.311	0	%100
83	M82	X	.794	0	%100
84	M82	Z	-.458	0	%100
85	MP1C	X	.539	0	%100
86	MP1C	Z	-.311	0	%100
87	MP2C	X	.539	0	%100
88	MP2C	Z	-.311	0	%100
89	MP3C	X	.652	0	%100
90	MP3C	Z	-.376	0	%100
91	MP4C	X	.539	0	%100
92	MP4C	Z	-.311	0	%100
93	M91A	X	.198	0	%100
94	M91A	Z	-.115	0	%100
95	MP1B	X	.539	0	%100
96	MP1B	Z	-.311	0	%100
97	MP2B	X	.539	0	%100
98	MP2B	Z	-.311	0	%100
99	MP3B	X	.652	0	%100
100	MP3B	Z	-.376	0	%100
101	MP4B	X	.539	0	%100
102	MP4B	Z	-.311	0	%100
103	M100	X	.652	0	%100
104	M100	Z	-.376	0	%100
105	M105	X	.163	0	%100
106	M105	Z	-.094	0	%100
107	M110	X	.163	0	%100
108	M110	Z	-.094	0	%100
109	M121	X	.838	0	%100
110	M121	Z	-.484	0	%100
111	M128	X	.21	0	%100
112	M128	Z	-.121	0	%100
113	M135	X	.21	0	%100
114	M135	Z	-.121	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
1	FACE	X	0	0	0	%100
2	FACE	Z	0	0	0	%100
3	M4	X	.931	.931	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP1A	X	.622	.622	0	%100
8	MP1A	Z	0	0	0	%100
9	M43	X	0	0	0	%100
10	M43	Z	0	0	0	%100
11	M46	X	0	0	0	%100
12	M46	Z	0	0	0	%100
13	M51B	X	.654	.654	0	%100
14	M51B	Z	0	0	0	%100
15	M52B	X	.654	.654	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	1.571	1.571	0	%100
18	M76	Z	0	0	0	%100
19	M77	X	1.2	1.2	0	%100
20	M77	Z	0	0	0	%100
21	M80	X	1.264	1.264	0	%100
22	M80	Z	0	0	0	%100
23	M84	X	1.571	1.571	0	%100
24	M84	Z	0	0	0	%100
25	M85	X	1.2	1.2	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	1.264	1.264	0	%100
28	M91	Z	0	0	0	%100
29	M28	X	.233	.233	0	%100
30	M28	Z	0	0	0	%100
31	M29	X	.591	.591	0	%100
32	M29	Z	0	0	0	%100
33	M30	X	.591	.591	0	%100
34	M30	Z	0	0	0	%100
35	M31	X	1.178	1.178	0	%100
36	M31	Z	0	0	0	%100
37	M34	X	.654	.654	0	%100
38	M34	Z	0	0	0	%100
39	M35	X	0	0	0	%100
40	M35	Z	0	0	0	%100
41	M39	X	.393	.393	0	%100
42	M39	Z	0	0	0	%100
43	M40	X	1.2	1.2	0	%100
44	M40	Z	0	0	0	%100
45	M42	X	1.264	1.264	0	%100
46	M42	Z	0	0	0	%100
47	M44	X	.393	.393	0	%100
48	M44	Z	0	0	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	0	0	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	0	0	0	%100
53	M52A	X	.233	.233	0	%100
54	M52A	Z	0	0	0	%100
55	M53	X	.591	.591	0	%100
56	M53	Z	0	0	0	%100
57	M54	X	.591	.591	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	0	0	%100
59	M55	X	1.178	1.178	0
60	M55	Z	0	0	%100
61	M58A	X	0	0	%100
62	M58A	Z	0	0	%100
63	M59A	X	.654	.654	0
64	M59A	Z	0	0	%100
65	M63	X	.393	.393	0
66	M63	Z	0	0	%100
67	M64	X	0	0	%100
68	M64	Z	0	0	%100
69	M66	X	0	0	%100
70	M66	Z	0	0	%100
71	M68	X	.393	.393	0
72	M68	Z	0	0	%100
73	M69	X	1.2	1.2	0
74	M69	Z	0	0	%100
75	M71	X	1.264	1.264	0
76	M71	Z	0	0	%100
77	MP2A	X	.622	.622	0
78	MP2A	Z	0	0	%100
79	MP3A	X	.753	.753	0
80	MP3A	Z	0	0	%100
81	MP4A	X	.622	.622	0
82	MP4A	Z	0	0	%100
83	M82	X	.687	.687	0
84	M82	Z	0	0	%100
85	MP1C	X	.622	.622	0
86	MP1C	Z	0	0	%100
87	MP2C	X	.622	.622	0
88	MP2C	Z	0	0	%100
89	MP3C	X	.753	.753	0
90	MP3C	Z	0	0	%100
91	MP4C	X	.622	.622	0
92	MP4C	Z	0	0	%100
93	M91A	X	.687	.687	0
94	M91A	Z	0	0	%100
95	MP1B	X	.622	.622	0
96	MP1B	Z	0	0	%100
97	MP2B	X	.622	.622	0
98	MP2B	Z	0	0	%100
99	MP3B	X	.753	.753	0
100	MP3B	Z	0	0	%100
101	MP4B	X	.622	.622	0
102	MP4B	Z	0	0	%100
103	M100	X	.565	.565	0
104	M100	Z	0	0	%100
105	M105	X	.565	.565	0
106	M105	Z	0	0	%100
107	M110	X	0	0	%100
108	M110	Z	0	0	%100
109	M121	X	.726	.726	0
110	M121	Z	0	0	%100
111	M128	X	.726	.726	0
112	M128	Z	0	0	%100
113	M135	X	0	0	%100
114	M135	Z	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[...
1	FACE	X	.198	.198	0 %100
2	FACE	Z	.115	.115	0 %100
3	M4	X	.605	.605	0 %100
4	M4	Z	.349	.349	0 %100
5	M10	X	.171	.171	0 %100
6	M10	Z	.098	.098	0 %100
7	MP1A	X	.539	.539	0 %100
8	MP1A	Z	.311	.311	0 %100
9	M43	X	.171	.171	0 %100
10	M43	Z	.098	.098	0 %100
11	M46	X	.34	.34	0 %100
12	M46	Z	.196	.196	0 %100
13	M51B	X	.189	.189	0 %100
14	M51B	Z	.109	.109	0 %100
15	M52B	X	.756	.756	0 %100
16	M52B	Z	.436	.436	0 %100
17	M76	X	1.02	1.02	0 %100
18	M76	Z	.589	.589	0 %100
19	M77	X	.346	.346	0 %100
20	M77	Z	.2	.2	0 %100
21	M80	X	.365	.365	0 %100
22	M80	Z	.211	.211	0 %100
23	M84	X	1.02	1.02	0 %100
24	M84	Z	.589	.589	0 %100
25	M85	X	1.386	1.386	0 %100
26	M85	Z	.8	.8	0 %100
27	M91	X	1.46	1.46	0 %100
28	M91	Z	.843	.843	0 %100
29	M28	X	.605	.605	0 %100
30	M28	Z	.349	.349	0 %100
31	M29	X	.171	.171	0 %100
32	M29	Z	.098	.098	0 %100
33	M30	X	.171	.171	0 %100
34	M30	Z	.098	.098	0 %100
35	M31	X	.34	.34	0 %100
36	M31	Z	.196	.196	0 %100
37	M34	X	.756	.756	0 %100
38	M34	Z	.436	.436	0 %100
39	M35	X	.189	.189	0 %100
40	M35	Z	.109	.109	0 %100
41	M39	X	1.02	1.02	0 %100
42	M39	Z	.589	.589	0 %100
43	M40	X	1.386	1.386	0 %100
44	M40	Z	.8	.8	0 %100
45	M42	X	1.46	1.46	0 %100
46	M42	Z	.843	.843	0 %100
47	M44	X	1.02	1.02	0 %100
48	M44	Z	.589	.589	0 %100
49	M45	X	.346	.346	0 %100
50	M45	Z	.2	.2	0 %100
51	M47	X	.365	.365	0 %100
52	M47	Z	.211	.211	0 %100
53	M52A	X	0	0	0 %100
54	M52A	Z	0	0	0 %100
55	M53	X	.682	.682	0 %100
56	M53	Z	.394	.394	0 %100
57	M54	X	.682	.682	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location	End Location
58	M54	Z	.394	0	%100
59	M55	X	1.361	0	%100
60	M55	Z	.786	0	%100
61	M58A	X	.189	0	%100
62	M58A	Z	.109	0	%100
63	M59A	X	.189	0	%100
64	M59A	Z	.109	0	%100
65	M63	X	0	0	%100
66	M63	Z	0	0	%100
67	M64	X	.346	0	%100
68	M64	Z	.2	0	%100
69	M66	X	.365	0	%100
70	M66	Z	.211	0	%100
71	M68	X	0	0	%100
72	M68	Z	0	0	%100
73	M69	X	.346	0	%100
74	M69	Z	.2	0	%100
75	M71	X	.365	0	%100
76	M71	Z	.211	0	%100
77	MP2A	X	.539	0	%100
78	MP2A	Z	.311	0	%100
79	MP3A	X	.652	0	%100
80	MP3A	Z	.376	0	%100
81	MP4A	X	.539	0	%100
82	MP4A	Z	.311	0	%100
83	M82	X	.198	0	%100
84	M82	Z	.115	0	%100
85	MP1C	X	.539	0	%100
86	MP1C	Z	.311	0	%100
87	MP2C	X	.539	0	%100
88	MP2C	Z	.311	0	%100
89	MP3C	X	.652	0	%100
90	MP3C	Z	.376	0	%100
91	MP4C	X	.539	0	%100
92	MP4C	Z	.311	0	%100
93	M91A	X	.794	0	%100
94	M91A	Z	.458	0	%100
95	MP1B	X	.539	0	%100
96	MP1B	Z	.311	0	%100
97	MP2B	X	.539	0	%100
98	MP2B	Z	.311	0	%100
99	MP3B	X	.652	0	%100
100	MP3B	Z	.376	0	%100
101	MP4B	X	.539	0	%100
102	MP4B	Z	.311	0	%100
103	M100	X	.163	0	%100
104	M100	Z	.094	0	%100
105	M105	X	.652	0	%100
106	M105	Z	.376	0	%100
107	M110	X	.163	0	%100
108	M110	Z	.094	0	%100
109	M121	X	.21	0	%100
110	M121	Z	.121	0	%100
111	M128	X	.838	0	%100
112	M128	Z	.484	0	%100
113	M135	X	.21	0	%100
114	M135	Z	.121	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[...
1	FACE	X	.344	0	%100
2	FACE	Z	.595	0	%100
3	M4	X	.116	0	%100
4	M4	Z	.202	0	%100
5	M10	X	.295	0	%100
6	M10	Z	.512	0	%100
7	MP1A	X	.311	0	%100
8	MP1A	Z	.539	0	%100
9	M43	X	.295	0	%100
10	M43	Z	.512	0	%100
11	M46	X	.589	0	%100
12	M46	Z	1.02	0	%100
13	M51B	X	0	0	%100
14	M51B	Z	0	0	%100
15	M52B	X	.327	0	%100
16	M52B	Z	.567	0	%100
17	M76	X	.196	0	%100
18	M76	Z	.34	0	%100
19	M77	X	0	0	%100
20	M77	Z	0	0	%100
21	M80	X	0	0	%100
22	M80	Z	0	0	%100
23	M84	X	.196	0	%100
24	M84	Z	.34	0	%100
25	M85	X	.6	0	%100
26	M85	Z	1.039	0	%100
27	M91	X	.632	0	%100
28	M91	Z	1.095	0	%100
29	M28	X	.465	0	%100
30	M28	Z	.806	0	%100
31	M29	X	0	0	%100
32	M29	Z	0	0	%100
33	M30	X	0	0	%100
34	M30	Z	0	0	%100
35	M31	X	0	0	%100
36	M31	Z	0	0	%100
37	M34	X	.327	0	%100
38	M34	Z	.567	0	%100
39	M35	X	.327	0	%100
40	M35	Z	.567	0	%100
41	M39	X	.786	0	%100
42	M39	Z	1.361	0	%100
43	M40	X	.6	0	%100
44	M40	Z	1.039	0	%100
45	M42	X	.632	0	%100
46	M42	Z	1.095	0	%100
47	M44	X	.786	0	%100
48	M44	Z	1.361	0	%100
49	M45	X	.6	0	%100
50	M45	Z	1.039	0	%100
51	M47	X	.632	0	%100
52	M47	Z	1.095	0	%100
53	M52A	X	.116	0	%100
54	M52A	Z	.202	0	%100
55	M53	X	.295	0	%100
56	M53	Z	.512	0	%100
57	M54	X	.295	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	.512	0	%100
59	M55	X	.589	0	%100
60	M55	Z	1.02	0	%100
61	M58A	X	.327	0	%100
62	M58A	Z	.567	0	%100
63	M59A	X	0	0	%100
64	M59A	Z	0	0	%100
65	M63	X	.196	0	%100
66	M63	Z	.34	0	%100
67	M64	X	.6	0	%100
68	M64	Z	1.039	0	%100
69	M66	X	.632	0	%100
70	M66	Z	1.095	0	%100
71	M68	X	.196	0	%100
72	M68	Z	.34	0	%100
73	M69	X	0	0	%100
74	M69	Z	0	0	%100
75	M71	X	0	0	%100
76	M71	Z	0	0	%100
77	MP2A	X	.311	0	%100
78	MP2A	Z	.539	0	%100
79	MP3A	X	.376	0	%100
80	MP3A	Z	.652	0	%100
81	MP4A	X	.311	0	%100
82	MP4A	Z	.539	0	%100
83	M82	X	0	0	%100
84	M82	Z	0	0	%100
85	MP1C	X	.311	0	%100
86	MP1C	Z	.539	0	%100
87	MP2C	X	.311	0	%100
88	MP2C	Z	.539	0	%100
89	MP3C	X	.376	0	%100
90	MP3C	Z	.652	0	%100
91	MP4C	X	.311	0	%100
92	MP4C	Z	.539	0	%100
93	M91A	X	.344	0	%100
94	M91A	Z	.595	0	%100
95	MP1B	X	.311	0	%100
96	MP1B	Z	.539	0	%100
97	MP2B	X	.311	0	%100
98	MP2B	Z	.539	0	%100
99	MP3B	X	.376	0	%100
100	MP3B	Z	.652	0	%100
101	MP4B	X	.311	0	%100
102	MP4B	Z	.539	0	%100
103	M100	X	0	0	%100
104	M100	Z	0	0	%100
105	M105	X	.282	0	%100
106	M105	Z	.489	0	%100
107	M110	X	.282	0	%100
108	M110	Z	.489	0	%100
109	M121	X	0	0	%100
110	M121	Z	0	0	%100
111	M128	X	.363	0	%100
112	M128	Z	.629	0	%100
113	M135	X	.363	0	%100
114	M135	Z	.629	0	%100



Company :
 Designer :
 Job Number :
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Member Distributed Loads (BLC 71 : Structure Wm (180 Deg))

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
1	FACE	X	0	0	%100
2	FACE	Z	.916	.916	0
3	M4	X	0	0	%100
4	M4	Z	0	0	%100
5	M10	X	0	0	%100
6	M10	Z	.788	.788	0
7	MP1A	X	0	0	%100
8	MP1A	Z	.622	.622	0
9	M43	X	0	0	%100
10	M43	Z	.788	.788	0
11	M46	X	0	0	%100
12	M46	Z	1.571	1.571	0
13	M51B	X	0	0	%100
14	M51B	Z	.218	.218	0
15	M52B	X	0	0	%100
16	M52B	Z	.218	.218	0
17	M76	X	0	0	%100
18	M76	Z	0	0	%100
19	M77	X	0	0	%100
20	M77	Z	.4	.4	0
21	M80	X	0	0	%100
22	M80	Z	.421	.421	0
23	M84	X	0	0	%100
24	M84	Z	0	0	%100
25	M85	X	0	0	%100
26	M85	Z	.4	.4	0
27	M91	X	0	0	%100
28	M91	Z	.421	.421	0
29	M28	X	0	0	%100
30	M28	Z	.698	.698	0
31	M29	X	0	0	%100
32	M29	Z	.197	.197	0
33	M30	X	0	0	%100
34	M30	Z	.197	.197	0
35	M31	X	0	0	%100
36	M31	Z	.393	.393	0
37	M34	X	0	0	%100
38	M34	Z	.218	.218	0
39	M35	X	0	0	%100
40	M35	Z	.872	.872	0
41	M39	X	0	0	%100
42	M39	Z	1.178	1.178	0
43	M40	X	0	0	%100
44	M40	Z	.4	.4	0
45	M42	X	0	0	%100
46	M42	Z	.421	.421	0
47	M44	X	0	0	%100
48	M44	Z	1.178	1.178	0
49	M45	X	0	0	%100
50	M45	Z	1.6	1.6	0
51	M47	X	0	0	%100
52	M47	Z	1.685	1.685	0
53	M52A	X	0	0	%100
54	M52A	Z	.698	.698	0
55	M53	X	0	0	%100
56	M53	Z	.197	.197	0
57	M54	X	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	.197	.197	0 %100
59	M55	X	0	0	%100
60	M55	Z	.393	.393	0 %100
61	M58A	X	0	0	%100
62	M58A	Z	.872	.872	0 %100
63	M59A	X	0	0	%100
64	M59A	Z	.218	.218	0 %100
65	M63	X	0	0	%100
66	M63	Z	1.178	1.178	0 %100
67	M64	X	0	0	%100
68	M64	Z	1.6	1.6	0 %100
69	M66	X	0	0	%100
70	M66	Z	1.685	1.685	0 %100
71	M68	X	0	0	%100
72	M68	Z	1.178	1.178	0 %100
73	M69	X	0	0	%100
74	M69	Z	.4	.4	0 %100
75	M71	X	0	0	%100
76	M71	Z	.421	.421	0 %100
77	MP2A	X	0	0	%100
78	MP2A	Z	.622	.622	0 %100
79	MP3A	X	0	0	%100
80	MP3A	Z	.753	.753	0 %100
81	MP4A	X	0	0	%100
82	MP4A	Z	.622	.622	0 %100
83	M82	X	0	0	%100
84	M82	Z	.229	.229	0 %100
85	MP1C	X	0	0	%100
86	MP1C	Z	.622	.622	0 %100
87	MP2C	X	0	0	%100
88	MP2C	Z	.622	.622	0 %100
89	MP3C	X	0	0	%100
90	MP3C	Z	.753	.753	0 %100
91	MP4C	X	0	0	%100
92	MP4C	Z	.622	.622	0 %100
93	M91A	X	0	0	%100
94	M91A	Z	.229	.229	0 %100
95	MP1B	X	0	0	%100
96	MP1B	Z	.622	.622	0 %100
97	MP2B	X	0	0	%100
98	MP2B	Z	.622	.622	0 %100
99	MP3B	X	0	0	%100
100	MP3B	Z	.753	.753	0 %100
101	MP4B	X	0	0	%100
102	MP4B	Z	.622	.622	0 %100
103	M100	X	0	0	%100
104	M100	Z	.188	.188	0 %100
105	M105	X	0	0	%100
106	M105	Z	.188	.188	0 %100
107	M110	X	0	0	%100
108	M110	Z	.753	.753	0 %100
109	M121	X	0	0	%100
110	M121	Z	.242	.242	0 %100
111	M128	X	0	0	%100
112	M128	Z	.242	.242	0 %100
113	M135	X	0	0	%100
114	M135	Z	.968	.968	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[...
1	FACE	X	-.344	-.344	0	%100
2	FACE	Z	.595	.595	0	%100
3	M4	X	-.116	-.116	0	%100
4	M4	Z	.202	.202	0	%100
5	M10	X	-.295	-.295	0	%100
6	M10	Z	.512	.512	0	%100
7	MP1A	X	-.311	-.311	0	%100
8	MP1A	Z	.539	.539	0	%100
9	M43	X	-.295	-.295	0	%100
10	M43	Z	.512	.512	0	%100
11	M46	X	-.589	-.589	0	%100
12	M46	Z	1.02	1.02	0	%100
13	M51B	X	-.327	-.327	0	%100
14	M51B	Z	.567	.567	0	%100
15	M52B	X	0	0	0	%100
16	M52B	Z	0	0	0	%100
17	M76	X	-.196	-.196	0	%100
18	M76	Z	.34	.34	0	%100
19	M77	X	-.6	-.6	0	%100
20	M77	Z	1.039	1.039	0	%100
21	M80	X	-.632	-.632	0	%100
22	M80	Z	1.095	1.095	0	%100
23	M84	X	-.196	-.196	0	%100
24	M84	Z	.34	.34	0	%100
25	M85	X	0	0	0	%100
26	M85	Z	0	0	0	%100
27	M91	X	0	0	0	%100
28	M91	Z	0	0	0	%100
29	M28	X	-.116	-.116	0	%100
30	M28	Z	.202	.202	0	%100
31	M29	X	-.295	-.295	0	%100
32	M29	Z	.512	.512	0	%100
33	M30	X	-.295	-.295	0	%100
34	M30	Z	.512	.512	0	%100
35	M31	X	-.589	-.589	0	%100
36	M31	Z	1.02	1.02	0	%100
37	M34	X	0	0	0	%100
38	M34	Z	0	0	0	%100
39	M35	X	-.327	-.327	0	%100
40	M35	Z	.567	.567	0	%100
41	M39	X	-.196	-.196	0	%100
42	M39	Z	.34	.34	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	0	0	0	%100
47	M44	X	-.196	-.196	0	%100
48	M44	Z	.34	.34	0	%100
49	M45	X	-.6	-.6	0	%100
50	M45	Z	1.039	1.039	0	%100
51	M47	X	-.632	-.632	0	%100
52	M47	Z	1.095	1.095	0	%100
53	M52A	X	-.465	-.465	0	%100
54	M52A	Z	.806	.806	0	%100
55	M53	X	0	0	0	%100
56	M53	Z	0	0	0	%100
57	M54	X	0	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location	End Location
58	M54	Z	0	0	%100
59	M55	X	0	0	%100
60	M55	Z	0	0	%100
61	M58A	X	-.327	0	%100
62	M58A	Z	.567	0	%100
63	M59A	X	-.327	0	%100
64	M59A	Z	.567	0	%100
65	M63	X	-.786	0	%100
66	M63	Z	1.361	0	%100
67	M64	X	-.6	0	%100
68	M64	Z	1.039	0	%100
69	M66	X	-.632	0	%100
70	M66	Z	1.095	0	%100
71	M68	X	-.786	0	%100
72	M68	Z	1.361	0	%100
73	M69	X	-.6	0	%100
74	M69	Z	1.039	0	%100
75	M71	X	-.632	0	%100
76	M71	Z	1.095	0	%100
77	MP2A	X	-.311	0	%100
78	MP2A	Z	.539	0	%100
79	MP3A	X	-.376	0	%100
80	MP3A	Z	.652	0	%100
81	MP4A	X	-.311	0	%100
82	MP4A	Z	.539	0	%100
83	M82	X	-.344	0	%100
84	M82	Z	.595	0	%100
85	MP1C	X	-.311	0	%100
86	MP1C	Z	.539	0	%100
87	MP2C	X	-.311	0	%100
88	MP2C	Z	.539	0	%100
89	MP3C	X	-.376	0	%100
90	MP3C	Z	.652	0	%100
91	MP4C	X	-.311	0	%100
92	MP4C	Z	.539	0	%100
93	M91A	X	0	0	%100
94	M91A	Z	0	0	%100
95	MP1B	X	-.311	0	%100
96	MP1B	Z	.539	0	%100
97	MP2B	X	-.311	0	%100
98	MP2B	Z	.539	0	%100
99	MP3B	X	-.376	0	%100
100	MP3B	Z	.652	0	%100
101	MP4B	X	-.311	0	%100
102	MP4B	Z	.539	0	%100
103	M100	X	-.282	0	%100
104	M100	Z	.489	0	%100
105	M105	X	0	0	%100
106	M105	Z	0	0	%100
107	M110	X	-.282	0	%100
108	M110	Z	.489	0	%100
109	M121	X	-.363	0	%100
110	M121	Z	.629	0	%100
111	M128	X	0	0	%100
112	M128	Z	0	0	%100
113	M135	X	-.363	0	%100
114	M135	Z	.629	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[...
1	FACE	X	-.198		0 %100
2	FACE	Z	.115		0 %100
3	M4	X	-.605		0 %100
4	M4	Z	.349		0 %100
5	M10	X	-.171		0 %100
6	M10	Z	.098		0 %100
7	MP1A	X	-.539		0 %100
8	MP1A	Z	.311		0 %100
9	M43	X	-.171		0 %100
10	M43	Z	.098		0 %100
11	M46	X	-.34		0 %100
12	M46	Z	.196		0 %100
13	M51B	X	-.756		0 %100
14	M51B	Z	.436		0 %100
15	M52B	X	-.189		0 %100
16	M52B	Z	.109		0 %100
17	M76	X	-1.02		0 %100
18	M76	Z	.589		0 %100
19	M77	X	-1.386		0 %100
20	M77	Z	.8		0 %100
21	M80	X	-1.46		0 %100
22	M80	Z	.843		0 %100
23	M84	X	-1.02		0 %100
24	M84	Z	.589		0 %100
25	M85	X	-.346		0 %100
26	M85	Z	.2		0 %100
27	M91	X	-.365		0 %100
28	M91	Z	.211		0 %100
29	M28	X	0		0 %100
30	M28	Z	0		0 %100
31	M29	X	-.682		0 %100
32	M29	Z	.394		0 %100
33	M30	X	-.682		0 %100
34	M30	Z	.394		0 %100
35	M31	X	-1.361		0 %100
36	M31	Z	.786		0 %100
37	M34	X	-.189		0 %100
38	M34	Z	.109		0 %100
39	M35	X	-.189		0 %100
40	M35	Z	.109		0 %100
41	M39	X	0		0 %100
42	M39	Z	0		0 %100
43	M40	X	-.346		0 %100
44	M40	Z	.2		0 %100
45	M42	X	-.365		0 %100
46	M42	Z	.211		0 %100
47	M44	X	0		0 %100
48	M44	Z	0		0 %100
49	M45	X	-.346		0 %100
50	M45	Z	.2		0 %100
51	M47	X	-.365		0 %100
52	M47	Z	.211		0 %100
53	M52A	X	-.605		0 %100
54	M52A	Z	.349		0 %100
55	M53	X	-.171		0 %100
56	M53	Z	.098		0 %100
57	M54	X	-.171		0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	.098	.098	0 %100
59	M55	X	-.34	-.34	0 %100
60	M55	Z	.196	.196	0 %100
61	M58A	X	-.189	-.189	0 %100
62	M58A	Z	.109	.109	0 %100
63	M59A	X	-.756	-.756	0 %100
64	M59A	Z	.436	.436	0 %100
65	M63	X	-1.02	-1.02	0 %100
66	M63	Z	.589	.589	0 %100
67	M64	X	-.346	-.346	0 %100
68	M64	Z	.2	.2	0 %100
69	M66	X	-.365	-.365	0 %100
70	M66	Z	.211	.211	0 %100
71	M68	X	-1.02	-1.02	0 %100
72	M68	Z	.589	.589	0 %100
73	M69	X	-1.386	-1.386	0 %100
74	M69	Z	.8	.8	0 %100
75	M71	X	-1.46	-1.46	0 %100
76	M71	Z	.843	.843	0 %100
77	MP2A	X	-.539	-.539	0 %100
78	MP2A	Z	.311	.311	0 %100
79	MP3A	X	-.652	-.652	0 %100
80	MP3A	Z	.376	.376	0 %100
81	MP4A	X	-.539	-.539	0 %100
82	MP4A	Z	.311	.311	0 %100
83	M82	X	-.794	-.794	0 %100
84	M82	Z	.458	.458	0 %100
85	MP1C	X	-.539	-.539	0 %100
86	MP1C	Z	.311	.311	0 %100
87	MP2C	X	-.539	-.539	0 %100
88	MP2C	Z	.311	.311	0 %100
89	MP3C	X	-.652	-.652	0 %100
90	MP3C	Z	.376	.376	0 %100
91	MP4C	X	-.539	-.539	0 %100
92	MP4C	Z	.311	.311	0 %100
93	M91A	X	-.198	-.198	0 %100
94	M91A	Z	.115	.115	0 %100
95	MP1B	X	-.539	-.539	0 %100
96	MP1B	Z	.311	.311	0 %100
97	MP2B	X	-.539	-.539	0 %100
98	MP2B	Z	.311	.311	0 %100
99	MP3B	X	-.652	-.652	0 %100
100	MP3B	Z	.376	.376	0 %100
101	MP4B	X	-.539	-.539	0 %100
102	MP4B	Z	.311	.311	0 %100
103	M100	X	-.652	-.652	0 %100
104	M100	Z	.376	.376	0 %100
105	M105	X	-.163	-.163	0 %100
106	M105	Z	.094	.094	0 %100
107	M110	X	-.163	-.163	0 %100
108	M110	Z	.094	.094	0 %100
109	M121	X	-.838	-.838	0 %100
110	M121	Z	.484	.484	0 %100
111	M128	X	-.21	-.21	0 %100
112	M128	Z	.121	.121	0 %100
113	M135	X	-.21	-.21	0 %100
114	M135	Z	.121	.121	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
1	FACE	X	0	0	%100
2	FACE	Z	0	0	%100
3	M4	X	-0.931	-0.931	0
4	M4	Z	0	0	%100
5	M10	X	0	0	%100
6	M10	Z	0	0	%100
7	MP1A	X	-0.622	-0.622	0
8	MP1A	Z	0	0	%100
9	M43	X	0	0	%100
10	M43	Z	0	0	%100
11	M46	X	0	0	%100
12	M46	Z	0	0	%100
13	M51B	X	-0.654	-0.654	0
14	M51B	Z	0	0	%100
15	M52B	X	-0.654	-0.654	0
16	M52B	Z	0	0	%100
17	M76	X	-1.571	-1.571	0
18	M76	Z	0	0	%100
19	M77	X	-1.2	-1.2	0
20	M77	Z	0	0	%100
21	M80	X	-1.264	-1.264	0
22	M80	Z	0	0	%100
23	M84	X	-1.571	-1.571	0
24	M84	Z	0	0	%100
25	M85	X	-1.2	-1.2	0
26	M85	Z	0	0	%100
27	M91	X	-1.264	-1.264	0
28	M91	Z	0	0	%100
29	M28	X	-0.233	-0.233	0
30	M28	Z	0	0	%100
31	M29	X	-0.591	-0.591	0
32	M29	Z	0	0	%100
33	M30	X	-0.591	-0.591	0
34	M30	Z	0	0	%100
35	M31	X	-1.178	-1.178	0
36	M31	Z	0	0	%100
37	M34	X	-0.654	-0.654	0
38	M34	Z	0	0	%100
39	M35	X	0	0	%100
40	M35	Z	0	0	%100
41	M39	X	-0.393	-0.393	0
42	M39	Z	0	0	%100
43	M40	X	-1.2	-1.2	0
44	M40	Z	0	0	%100
45	M42	X	-1.264	-1.264	0
46	M42	Z	0	0	%100
47	M44	X	-0.393	-0.393	0
48	M44	Z	0	0	%100
49	M45	X	0	0	%100
50	M45	Z	0	0	%100
51	M47	X	0	0	%100
52	M47	Z	0	0	%100
53	M52A	X	-0.233	-0.233	0
54	M52A	Z	0	0	%100
55	M53	X	-0.591	-0.591	0
56	M53	Z	0	0	%100
57	M54	X	-0.591	-0.591	0

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
58	M54	Z	0	0	%100
59	M55	X	-1.178	-1.178	0
60	M55	Z	0	0	%100
61	M58A	X	0	0	%100
62	M58A	Z	0	0	%100
63	M59A	X	-.654	-.654	0
64	M59A	Z	0	0	%100
65	M63	X	-.393	-.393	0
66	M63	Z	0	0	%100
67	M64	X	0	0	%100
68	M64	Z	0	0	%100
69	M66	X	0	0	%100
70	M66	Z	0	0	%100
71	M68	X	-.393	-.393	0
72	M68	Z	0	0	%100
73	M69	X	-1.2	-1.2	0
74	M69	Z	0	0	%100
75	M71	X	-1.264	-1.264	0
76	M71	Z	0	0	%100
77	MP2A	X	-.622	-.622	0
78	MP2A	Z	0	0	%100
79	MP3A	X	-.753	-.753	0
80	MP3A	Z	0	0	%100
81	MP4A	X	-.622	-.622	0
82	MP4A	Z	0	0	%100
83	M82	X	-.687	-.687	0
84	M82	Z	0	0	%100
85	MP1C	X	-.622	-.622	0
86	MP1C	Z	0	0	%100
87	MP2C	X	-.622	-.622	0
88	MP2C	Z	0	0	%100
89	MP3C	X	-.753	-.753	0
90	MP3C	Z	0	0	%100
91	MP4C	X	-.622	-.622	0
92	MP4C	Z	0	0	%100
93	M91A	X	-.687	-.687	0
94	M91A	Z	0	0	%100
95	MP1B	X	-.622	-.622	0
96	MP1B	Z	0	0	%100
97	MP2B	X	-.622	-.622	0
98	MP2B	Z	0	0	%100
99	MP3B	X	-.753	-.753	0
100	MP3B	Z	0	0	%100
101	MP4B	X	-.622	-.622	0
102	MP4B	Z	0	0	%100
103	M100	X	-.565	-.565	0
104	M100	Z	0	0	%100
105	M105	X	-.565	-.565	0
106	M105	Z	0	0	%100
107	M110	X	0	0	%100
108	M110	Z	0	0	%100
109	M121	X	-.726	-.726	0
110	M121	Z	0	0	%100
111	M128	X	-.726	-.726	0
112	M128	Z	0	0	%100
113	M135	X	0	0	%100
114	M135	Z	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[...
1	FACE	X	-198	0	%100
2	FACE	Z	-115	0	%100
3	M4	X	-605	0	%100
4	M4	Z	-349	0	%100
5	M10	X	-171	0	%100
6	M10	Z	-098	0	%100
7	MP1A	X	-539	0	%100
8	MP1A	Z	-311	0	%100
9	M43	X	-171	0	%100
10	M43	Z	-098	0	%100
11	M46	X	-34	0	%100
12	M46	Z	-196	0	%100
13	M51B	X	-189	0	%100
14	M51B	Z	-109	0	%100
15	M52B	X	-756	0	%100
16	M52B	Z	-436	0	%100
17	M76	X	-1.02	0	%100
18	M76	Z	-589	0	%100
19	M77	X	-346	0	%100
20	M77	Z	-2	0	%100
21	M80	X	-365	0	%100
22	M80	Z	-211	0	%100
23	M84	X	-1.02	0	%100
24	M84	Z	-589	0	%100
25	M85	X	-1.386	0	%100
26	M85	Z	-8	0	%100
27	M91	X	-1.46	0	%100
28	M91	Z	-843	0	%100
29	M28	X	-605	0	%100
30	M28	Z	-349	0	%100
31	M29	X	-171	0	%100
32	M29	Z	-098	0	%100
33	M30	X	-171	0	%100
34	M30	Z	-098	0	%100
35	M31	X	-34	0	%100
36	M31	Z	-196	0	%100
37	M34	X	-756	0	%100
38	M34	Z	-436	0	%100
39	M35	X	-189	0	%100
40	M35	Z	-109	0	%100
41	M39	X	-1.02	0	%100
42	M39	Z	-589	0	%100
43	M40	X	-1.386	0	%100
44	M40	Z	-8	0	%100
45	M42	X	-1.46	0	%100
46	M42	Z	-843	0	%100
47	M44	X	-1.02	0	%100
48	M44	Z	-589	0	%100
49	M45	X	-346	0	%100
50	M45	Z	-2	0	%100
51	M47	X	-365	0	%100
52	M47	Z	-211	0	%100
53	M52A	X	0	0	%100
54	M52A	Z	0	0	%100
55	M53	X	-682	0	%100
56	M53	Z	-394	0	%100
57	M54	X	-682	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location	End Location
58	M54	Z	-.394	0	%100
59	M55	X	-1.361	0	%100
60	M55	Z	-.786	0	%100
61	M58A	X	-.189	0	%100
62	M58A	Z	-.109	0	%100
63	M59A	X	-.189	0	%100
64	M59A	Z	-.109	0	%100
65	M63	X	0	0	%100
66	M63	Z	0	0	%100
67	M64	X	-.346	0	%100
68	M64	Z	-.2	0	%100
69	M66	X	-.365	0	%100
70	M66	Z	-.211	0	%100
71	M68	X	0	0	%100
72	M68	Z	0	0	%100
73	M69	X	-.346	0	%100
74	M69	Z	-.2	0	%100
75	M71	X	-.365	0	%100
76	M71	Z	-.211	0	%100
77	MP2A	X	-.539	0	%100
78	MP2A	Z	-.311	0	%100
79	MP3A	X	-.652	0	%100
80	MP3A	Z	-.376	0	%100
81	MP4A	X	-.539	0	%100
82	MP4A	Z	-.311	0	%100
83	M82	X	-.198	0	%100
84	M82	Z	-.115	0	%100
85	MP1C	X	-.539	0	%100
86	MP1C	Z	-.311	0	%100
87	MP2C	X	-.539	0	%100
88	MP2C	Z	-.311	0	%100
89	MP3C	X	-.652	0	%100
90	MP3C	Z	-.376	0	%100
91	MP4C	X	-.539	0	%100
92	MP4C	Z	-.311	0	%100
93	M91A	X	-.794	0	%100
94	M91A	Z	-.458	0	%100
95	MP1B	X	-.539	0	%100
96	MP1B	Z	-.311	0	%100
97	MP2B	X	-.539	0	%100
98	MP2B	Z	-.311	0	%100
99	MP3B	X	-.652	0	%100
100	MP3B	Z	-.376	0	%100
101	MP4B	X	-.539	0	%100
102	MP4B	Z	-.311	0	%100
103	M100	X	-.163	0	%100
104	M100	Z	-.094	0	%100
105	M105	X	-.652	0	%100
106	M105	Z	-.376	0	%100
107	M110	X	-.163	0	%100
108	M110	Z	-.094	0	%100
109	M121	X	-.21	0	%100
110	M121	Z	-.121	0	%100
111	M128	X	-.838	0	%100
112	M128	Z	-.484	0	%100
113	M135	X	-.21	0	%100
114	M135	Z	-.121	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[...
1	FACE	X	- .344	- .344	0 %100
2	FACE	Z	- .595	- .595	0 %100
3	M4	X	- .116	- .116	0 %100
4	M4	Z	- .202	- .202	0 %100
5	M10	X	- .295	- .295	0 %100
6	M10	Z	- .512	- .512	0 %100
7	MP1A	X	- .311	- .311	0 %100
8	MP1A	Z	- .539	- .539	0 %100
9	M43	X	- .295	- .295	0 %100
10	M43	Z	- .512	- .512	0 %100
11	M46	X	- .589	- .589	0 %100
12	M46	Z	- 1.02	- 1.02	0 %100
13	M51B	X	0	0	0 %100
14	M51B	Z	0	0	0 %100
15	M52B	X	- .327	- .327	0 %100
16	M52B	Z	- .567	- .567	0 %100
17	M76	X	- .196	- .196	0 %100
18	M76	Z	- .34	- .34	0 %100
19	M77	X	0	0	0 %100
20	M77	Z	0	0	0 %100
21	M80	X	0	0	0 %100
22	M80	Z	0	0	0 %100
23	M84	X	- .196	- .196	0 %100
24	M84	Z	- .34	- .34	0 %100
25	M85	X	- .6	- .6	0 %100
26	M85	Z	- 1.039	- 1.039	0 %100
27	M91	X	- .632	- .632	0 %100
28	M91	Z	- 1.095	- 1.095	0 %100
29	M28	X	- .465	- .465	0 %100
30	M28	Z	- .806	- .806	0 %100
31	M29	X	0	0	0 %100
32	M29	Z	0	0	0 %100
33	M30	X	0	0	0 %100
34	M30	Z	0	0	0 %100
35	M31	X	0	0	0 %100
36	M31	Z	0	0	0 %100
37	M34	X	- .327	- .327	0 %100
38	M34	Z	- .567	- .567	0 %100
39	M35	X	- .327	- .327	0 %100
40	M35	Z	- .567	- .567	0 %100
41	M39	X	- .786	- .786	0 %100
42	M39	Z	- 1.361	- 1.361	0 %100
43	M40	X	- .6	- .6	0 %100
44	M40	Z	- 1.039	- 1.039	0 %100
45	M42	X	- .632	- .632	0 %100
46	M42	Z	- 1.095	- 1.095	0 %100
47	M44	X	- .786	- .786	0 %100
48	M44	Z	- 1.361	- 1.361	0 %100
49	M45	X	- .6	- .6	0 %100
50	M45	Z	- 1.039	- 1.039	0 %100
51	M47	X	- .632	- .632	0 %100
52	M47	Z	- 1.095	- 1.095	0 %100
53	M52A	X	- .116	- .116	0 %100
54	M52A	Z	- .202	- .202	0 %100
55	M53	X	- .295	- .295	0 %100
56	M53	Z	- .512	- .512	0 %100
57	M54	X	- .295	- .295	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location	End Location
58	M54	Z	-.512	0	%100
59	M55	X	-.589	0	%100
60	M55	Z	-1.02	0	%100
61	M58A	X	-.327	0	%100
62	M58A	Z	-.567	0	%100
63	M59A	X	0	0	%100
64	M59A	Z	0	0	%100
65	M63	X	-.196	0	%100
66	M63	Z	-.34	0	%100
67	M64	X	-.6	0	%100
68	M64	Z	-1.039	0	%100
69	M66	X	-.632	0	%100
70	M66	Z	-1.095	0	%100
71	M68	X	-.196	0	%100
72	M68	Z	-.34	0	%100
73	M69	X	0	0	%100
74	M69	Z	0	0	%100
75	M71	X	0	0	%100
76	M71	Z	0	0	%100
77	MP2A	X	-.311	0	%100
78	MP2A	Z	-.539	0	%100
79	MP3A	X	-.376	0	%100
80	MP3A	Z	-.652	0	%100
81	MP4A	X	-.311	0	%100
82	MP4A	Z	-.539	0	%100
83	M82	X	0	0	%100
84	M82	Z	0	0	%100
85	MP1C	X	-.311	0	%100
86	MP1C	Z	-.539	0	%100
87	MP2C	X	-.311	0	%100
88	MP2C	Z	-.539	0	%100
89	MP3C	X	-.376	0	%100
90	MP3C	Z	-.652	0	%100
91	MP4C	X	-.311	0	%100
92	MP4C	Z	-.539	0	%100
93	M91A	X	-.344	0	%100
94	M91A	Z	-.595	0	%100
95	MP1B	X	-.311	0	%100
96	MP1B	Z	-.539	0	%100
97	MP2B	X	-.311	0	%100
98	MP2B	Z	-.539	0	%100
99	MP3B	X	-.376	0	%100
100	MP3B	Z	-.652	0	%100
101	MP4B	X	-.311	0	%100
102	MP4B	Z	-.539	0	%100
103	M100	X	0	0	%100
104	M100	Z	0	0	%100
105	M105	X	-.282	0	%100
106	M105	Z	-.489	0	%100
107	M110	X	-.282	0	%100
108	M110	Z	-.489	0	%100
109	M121	X	0	0	%100
110	M121	Z	0	0	%100
111	M128	X	-.363	0	%100
112	M128	Z	-.629	0	%100
113	M135	X	-.363	0	%100
114	M135	Z	-.629	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...]
1	M34	Y	-1.597	-4.066	0	.832
2	M34	Y	-4.066	-6.636	.832	1.665
3	M34	Y	-6.636	-7.874	1.665	2.497
4	M34	Y	-7.874	-6.293	2.497	3.329
5	M34	Y	-6.293	-3.33	3.329	4.162
6	M35	Y	-3.329	-6.32	0	.832
7	M35	Y	-6.32	-7.943	.832	1.665
8	M35	Y	-7.943	-6.773	1.665	2.497
9	M35	Y	-6.773	-4.256	2.497	3.329
10	M35	Y	-4.256	-1.812	3.329	4.162
11	M51B	Y	-1.812	-4.256	0	.832
12	M51B	Y	-4.256	-6.773	.832	1.665
13	M51B	Y	-6.773	-7.943	1.665	2.497
14	M51B	Y	-7.943	-6.32	2.497	3.329
15	M51B	Y	-6.32	-3.329	3.329	4.162
16	M52B	Y	-3.33	-6.293	0	.832
17	M52B	Y	-6.293	-7.874	.832	1.665
18	M52B	Y	-7.874	-6.636	1.665	2.497
19	M52B	Y	-6.636	-4.066	2.497	3.329
20	M52B	Y	-4.066	-1.597	3.329	4.162
21	M58A	Y	-1.812	-4.256	0	.832
22	M58A	Y	-4.256	-6.773	.832	1.665
23	M58A	Y	-6.773	-7.943	1.665	2.497
24	M58A	Y	-7.943	-6.32	2.497	3.329
25	M58A	Y	-6.32	-3.329	3.329	4.162
26	M59A	Y	-3.33	-6.293	0	.832
27	M59A	Y	-6.293	-7.874	.832	1.665
28	M59A	Y	-7.874	-6.636	1.665	2.497
29	M59A	Y	-6.636	-4.066	2.497	3.329
30	M59A	Y	-4.066	-1.597	3.329	4.162

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...]
1	M34	Y	-3.834	-9.758	0	.832
2	M34	Y	-9.758	-15.927	.832	1.665
3	M34	Y	-15.927	-18.897	1.665	2.497
4	M34	Y	-18.897	-15.103	2.497	3.329
5	M34	Y	-15.103	-7.992	3.329	4.162
6	M35	Y	-7.988	-15.169	0	.832
7	M35	Y	-15.169	-19.062	.832	1.665
8	M35	Y	-19.062	-16.256	1.665	2.497
9	M35	Y	-16.256	-10.214	2.497	3.329
10	M35	Y	-10.214	-4.349	3.329	4.162
11	M51B	Y	-4.349	-10.214	0	.832
12	M51B	Y	-10.214	-16.256	.832	1.665
13	M51B	Y	-16.256	-19.062	1.665	2.497
14	M51B	Y	-19.062	-15.169	2.497	3.329
15	M51B	Y	-15.169	-7.988	3.329	4.162
16	M52B	Y	-7.992	-15.103	0	.832
17	M52B	Y	-15.103	-18.897	.832	1.665
18	M52B	Y	-18.897	-15.927	1.665	2.497
19	M52B	Y	-15.927	-9.758	2.497	3.329
20	M52B	Y	-9.758	-3.834	3.329	4.162
21	M58A	Y	-4.349	-10.214	0	.832
22	M58A	Y	-10.214	-16.256	.832	1.665
23	M58A	Y	-16.256	-19.062	1.665	2.497

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Locationf...
24	M58A	Y	-19.062	-15.169	2.497 3.329
25	M58A	Y	-15.169	-7.988	3.329 4.162
26	M59A	Y	-7.992	-15.103	0 .832
27	M59A	Y	-15.103	-18.897	.832 1.665
28	M59A	Y	-18.897	-15.927	1.665 2.497
29	M59A	Y	-15.927	-9.758	2.497 3.329
30	M59A	Y	-9.758	-3.834	3.329 4.162

Member Area Loads (BLC 39 : Structure D)

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]	
1	N38	N39	N62	N60	Y	Two Way	-.005
2	N7	N6	N87C	N87B	Y	Two Way	-.005
3	N67	N66	N88	N90	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]	
1	N38	N39	N62	N60	Y	Two Way	-.012
2	N7	N6	N87C	N87B	Y	Two Way	-.012
3	N67	N66	N88	N90	Y	Two Way	-.012

Envelope Joint Reactions

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LCMY [..LC MZ [k-ft]	LC
1	N3	m... 987.544	10	2145.541	13	1917.474	1	4.341 13 1.429 4 .132	26
2		min-993.192	4	448.258	7	-2080.243	7	.258 7 -1.44 10 .028	49
3	N36	m... 1610.384	9	2145.82	21	1325.179	1	-.082 3 1.429 12 -.25	3
4		min-1748.129	3	448.367	3	-1238.759	7	-2.128 21 -1.44 6 -3.784	21
5	N64	m... 1857.279	10	2146.106	17	1117.646	1	-.176 11 1.429 8 3.797	29
6		min-1711.361	4	448.476	11	-1041.297	7	-2.734 29 -1.44 2 .196	11
7	Totals:	m... 4360.193	10	6039.144	18	4360.299	1		
8		min-4360.194	4	2953.983	11	-4360.3	7		

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

Member	Shape	Code Ch...	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*...	phi*...	phi*...	phi*...	Eqn
1	FACE	PIPE...	.103	7.535	4	.065	7.535	8	3146...	.65205	5.749	5.749	... H1-...
2	M4	HSS4X...	.271	0	13	.060	0	13	1246...	.1395...	16.181	16.181	... H1-...
3	M10	HSS4X...	.148	2.375	14	.046	2.375	13	1362...	.1395...	16.181	16.181	... H1-...
4	MP1A	PIPE...	.224	3.313	9	.079	.375	7	2086...	.32130	1.872	1.872	... H1-...
5	M43	HSS4X...	.152	0	24	.045	0	14	1362...	.1395...	16.181	16.181	... H1-...
6	M46	PL1/2x6	.153	.516	8	.099	.516	10	6600...	.97200	1.012	12.15	... H1-...
7	M51B	L2x2x3	.130	4.162	2	.012	4.162	16	9823...	.2339...	.558	1.091	... H2-1
8	M52B	L2x2x3	.140	4.162	11	.013	0	22	9823...	.2339...	.558	1.069	... H2-1
9	M76	PL3/8x6	.190	0	1	.189	0	18	7064...	.72900	.57	9.113	... H1-...
10	M77	PL3/8x6	.217	.167	8	.296	0	13	7158...	.72900	.57	9.113	... H1-...
11	M80	PL1/2x6	.051	.112	1	.070	0	11	9675...	.97200	1.012	12.15	... H1-...
12	M84	PL3/8x6	.216	0	10	.251	0	20	7064...	.72900	.57	9.113	... H1-...
13	M85	PL3/8x6	.237	.167	6	.302	0	13	7158...	.72900	.57	9.113	... H1-...
14	M91	PL1/2x6	.049	.112	1	.072	.112	9	9675...	.97200	1.012	12.15	... H1-...
15	M28	HSS4X...	.271	0	21	.085	0	45	1246...	.1395...	16.181	16.181	... H1-...
16	M29	HSS4X...	.148	2.375	22	.046	2.375	21	1362...	.1395...	16.181	16.181	... H1-...
17	M30	HSS4X...	.152	0	20	.046	0	46	1362...	.1395...	16.181	16.181	... H1-...
18	M31	PL1/2x6	.153	.516	4	.099	.516	6	6600...	.97200	1.012	12.15	... H1-...
19	M34	L2x2x3	.130	4.162	10	.012	4.162	24	9823...	.2339...	.558	1.093	... H2-1

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

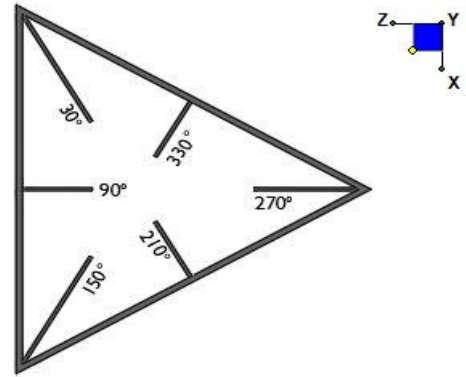
Member	Shape	Code Ch...	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*...	phi*...	phi*...	phi*...	Egn	
20	M35	L2x2x3	.141	4.162	7	.013	0	y	18	9823...	2339...	.558	1.069	H2-1
21	M39	PL3/8x6	.190	0	9	.190	0	y	14	7064...	72900	.57	9.113	H1-...
22	M40	PL3/8x6	.217	.167	4	.296	0	y	21	7158...	72900	.57	9.113	H1-...
23	M42	PL1/2x6	.051	.112	9	.070	0	y	7	9675...	97200	1.012	12.15	H1-...
24	M44	PL3/8x6	.215	0	6	.251	0	y	16	7064...	72900	.57	9.113	H1-...
25	M45	PL3/8x6	.237	.167	2	.302	0	y	21	7158...	72900	.57	9.113	H1-...
26	M47	PL1/2x6	.049	.112	9	.072	.112	y	5	9675...	97200	1.012	12.15	H1-...
27	M52A	HSS4X...	.288	0	29	.085	0	y	29	1246...	1395...	16.181	16.181	H1-...
28	M53	HSS4X...	.148	2.375	18	.048	2.375	y	29	1362...	1395...	16.181	16.181	H1-...
29	M54	HSS4X...	.152	0	16	.045	0	y	18	1362...	1395...	16.181	16.181	H1-...
30	M55	PL1/2x6	.153	.516	12	.139	.516	y	26	6600...	97200	1.012	12.15	H1-...
31	M58A	L2x2x3	.130	4.162	6	.012	4.162	y	20	9823...	2339...	.558	1.091	H2-1
32	M59A	L2x2x3	.140	4.162	3	.013	0	y	14	9823...	2339...	.558	1.069	H2-1
33	M63	PL3/8x6	.190	0	5	.190	0	y	22	7064...	72900	.57	9.113	H1-...
34	M64	PL3/8x6	.217	.167	12	.296	0	y	17	7158...	72900	.57	9.113	H1-...
35	M66	PL1/2x6	.051	.112	5	.136	0	y	27	9675...	97200	1.012	12.15	H1-...
36	M68	PL3/8x6	.216	0	2	.251	0	y	24	7064...	72900	.57	9.113	H1-...
37	M69	PL3/8x6	.237	.167	10	.302	0	y	17	7158...	72900	.57	9.113	H1-...
38	M71	PL1/2x6	.049	.112	5	.074	.112	y	25	9675...	97200	1.012	12.15	H1-...
39	MP2A	PIPE_...	.265	3.313	9	.062	3.313		7	2086...	32130	1.872	1.872	H1-...
40	MP3A	PIPE_...	.230	3.313	4	.060	3.313		3	3777...	50715	3.596	3.596	H1-...
41	MP4A	PIPE_...	.232	3.313	5	.073	1.438		6	2086...	32130	1.872	1.872	H1-...
42	M82	PIPE_...	.108	7.535	26	.065	7.535		4	3146...	65205	5.749	5.749	H1-...
43	MP1C	PIPE_...	.224	3.313	5	.079	.375		3	2086...	32130	1.872	1.872	H1-...
44	MP2C	PIPE_...	.265	3.313	5	.062	3.313		3	2086...	32130	1.872	1.872	H1-...
45	MP3C	PIPE_...	.230	3.313	12	.060	3.313		11	3777...	50715	3.596	3.596	H1-...
46	MP4C	PIPE_...	.232	3.313	1	.073	1.438		2	2086...	32130	1.872	1.872	H1-...
47	M91A	PIPE_...	.103	7.535	8	.065	7.535		12	3146...	65205	5.749	5.749	H1-...
48	MP1B	PIPE_...	.224	3.313	1	.079	.375		11	2086...	32130	1.872	1.872	H1-...
49	MP2B	PIPE_...	.265	3.313	1	.062	3.313		11	2086...	32130	1.872	1.872	H1-...
50	MP3B	PIPE_...	.230	3.313	8	.060	3.313		7	3777...	50715	3.596	3.596	H1-...
51	MP4B	PIPE_...	.232	3.313	9	.073	1.438		10	2086...	32130	1.872	1.872	H1-...
52	M100	PIPE_...	.137	7.413	2	.064	1.458		3	1671...	50715	3.596	3.596	H1-...
53	M105	PIPE_...	.137	7.413	10	.064	1.458		11	1671...	50715	3.596	3.596	H1-...
54	M110	PIPE_...	.137	7.413	6	.064	1.458		7	1671...	50715	3.596	3.596	H1-...
55	M121	L3X3X4	.220	0	11	.021	.073	y	6	4133...	46656	1.688	3.756	H2-1
56	M128	L3X3X4	.220	0	7	.021	.024	y	2	4133...	46656	1.688	3.756	H2-1
57	M135	L3X3X4	.220	0	3	.021	0	y	10	4133...	46656	1.688	3.756	H2-1



I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N3	270
N64	150
N36	30



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:

Bolt Quantity per Reaction:

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

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

Bolt Type:

Bolt Diameter (in):

Required Tensile Strength (kips):

Required Shear Strength (kips):

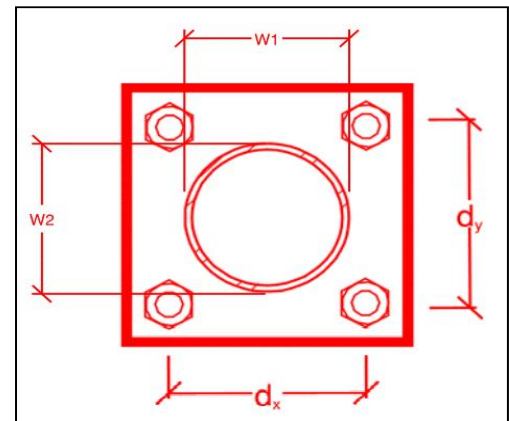
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

Yes
4
7
7
A325N
0.625
16.0
3.6
20.7
12.4
19.3%*
7.3%



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

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:

Plate Width (in):

Plate Height (in):

W1 (in):

W2 (in):

F_y (ksi, plate):

t_{plate} (in):

Weld Size (1/16 in):

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

Required Weld Strength (kip/in):

Plate Bending Capacity:

Weld Capacity:

Rect
10
10
4
4
36
0.625
3
4.18
2.64
38.0%
63.1%

Max Plate Bending Strengths

$M_{u_{xx}}$ (kip-in):	11.8
$\Phi_i * M_{n_{xx}}$ (kip-in):	31.6
$M_{u_{yy}}$ (kip-in):	0.2
$\Phi_i * M_{n_{yy}}$ (kip-in):	31.6

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

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

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

Base Requirements:

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

Photo Requirements:

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

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

Material Certification:

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

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

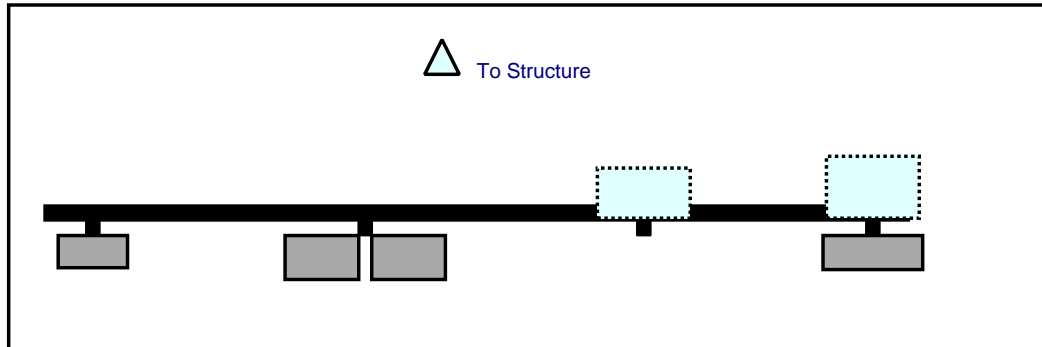
The material utilized was an "equivalent" and included as part of the contractor submission is the Maser Consulting Connecticut certification, invoices, or specifications validating accepted status

Certifying Individual: Company _____

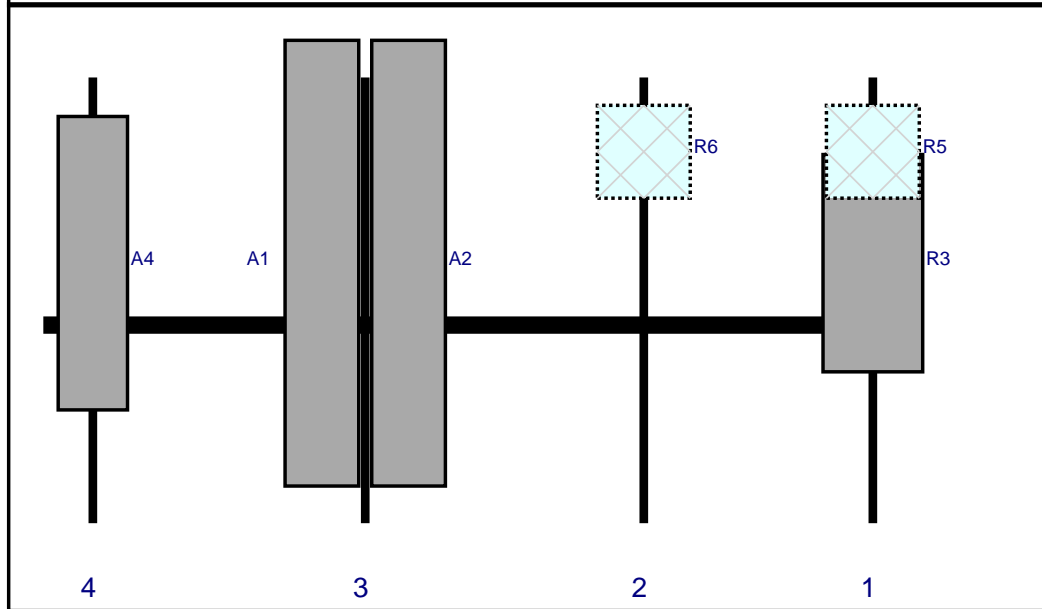
Schedule A – Photo & Document File Structure

- 📁 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

Plan View

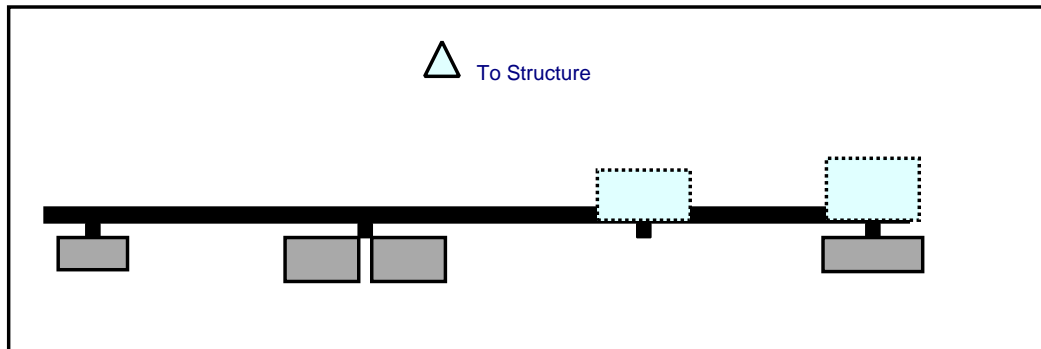


Front View
Looking at Structure

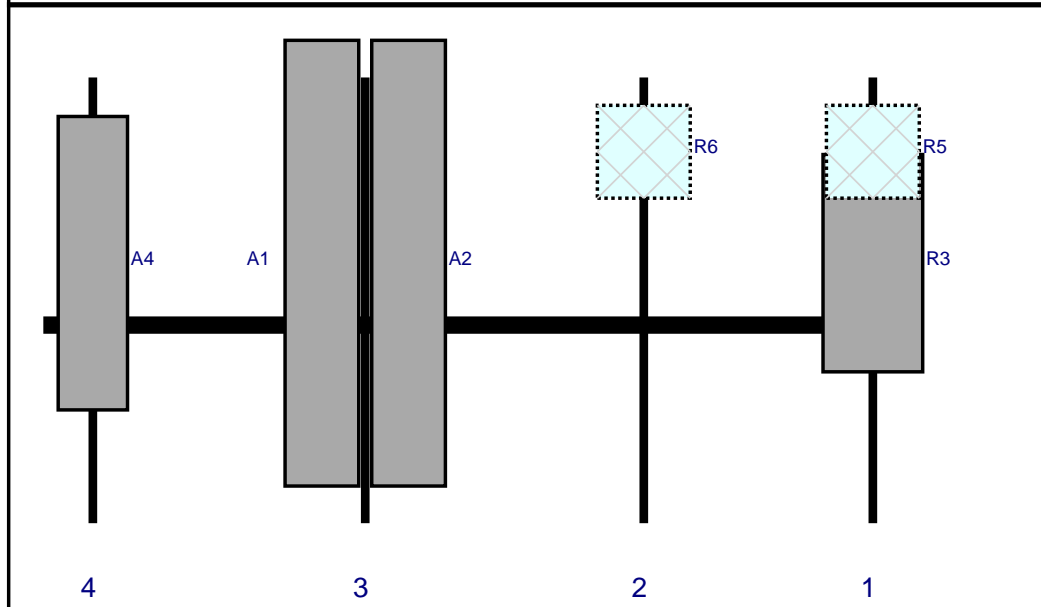


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R3	MT6407-77A	35.1	16.1	134	1	a	Front	30	0	Added	
R5	B2/B66A RRH-BR049	15	15	134	1	a	Behind	12	0	Retained	06/16/2021
R6	B5/B13 RRH-BR04C	15	15	97	2	a	Behind	12	0	Retained	06/16/2021
A1	NHH-65B-R2B	72	11.9	52	3	a	Front	30	-7	Added	
A2	NHHSS-65B-R2BT0	72	11.9	52	3	b	Front	30	7	Added	
A4	BXA-70063-4CF	47.4	11.2	8	4	a	Front	30	0	Retained	06/16/2021

Plan View

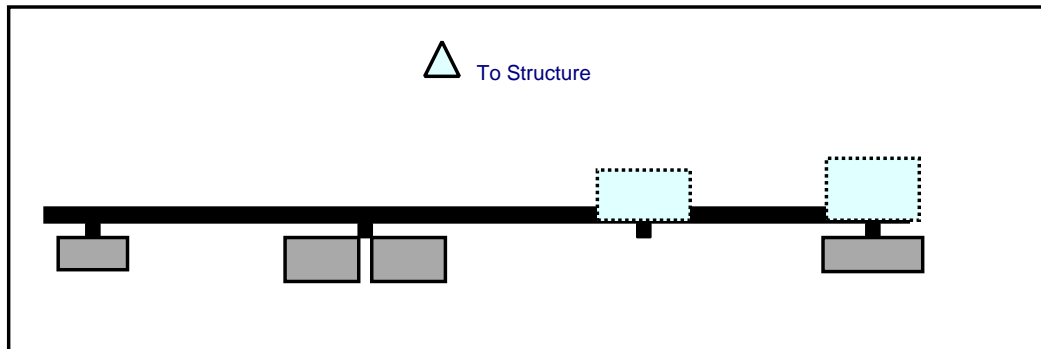


Front View
Looking at Structure

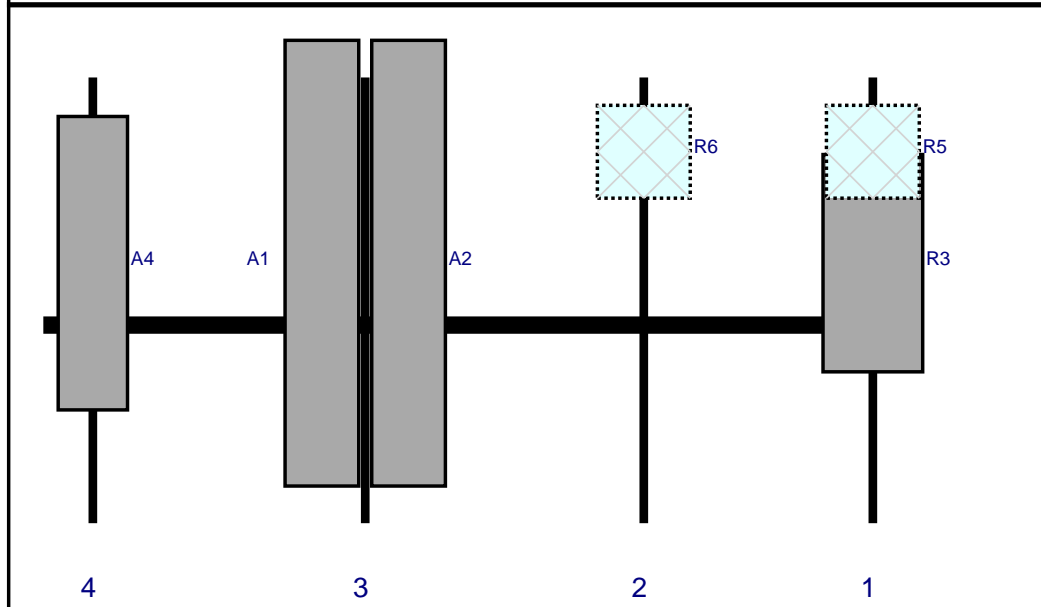


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A2	NHHSS-65B-R2BT0	72	11.9	52	3	b	Front	30	7	Added	
A4	BXA-70063-4CF	47.4	11.2	8	4	a	Front	30	0	Retained	06/16/2021

Plan View



Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R3	MT6407-77A	35.1	16.1	134	1	a	Front	30	0	Added	
R5	B2/B66A RRH-BR049	15	15	134	1	a	Behind	12	0	Retained	06/16/2021
R6	B5/B13 RRH-BR04C	15	15	97	2	a	Behind	12	0	Retained	06/16/2021
A1	NHH-65B-R2B	72	11.9	52	3	a	Front	30	-7	Added	
A2	NHHSS-65B-R2BT0	72	11.9	52	3	b	Front	30	7	Added	
A4	BXA-70063-4CF	47.4	11.2	8	4	a	Front	30	0	Retained	06/16/2021

Maser Consulting Connecticut

Subject*TIA-222-H Adoption and Wind Speed Usage***Site Information**

*Site ID: 468192-VZW / BRISTOL W 2 CT
Site Name: BRISTOL W 2 CT
Carrier Name: Verizon Wireless
Address: 371 Terryville Ave
Bristol, Connecticut 06010
Hartford County
Latitude: 41.679972°
Longitude: -72.962444°*

Structure Information

*Tower Type: 180-Ft Monopole
Mount Type: 11.67-Ft Platform*

To Whom It May Concern,

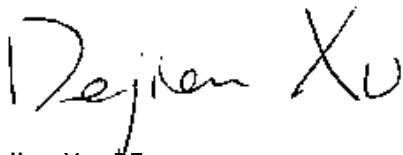
We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

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

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

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

Sincerely,



Dejian Xu, PE
Technical Manager

Site Name: BRISTOL W 2 CT
Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density
	(MHz)		(watts)	(watts)	(feet)	(mW/cm ²)
VZW 700	751	4	689	2756	140	0.0051
VZW CDMA	869	2	394	789	140	0.0014
VZW Cellular	869	4	700	2800	140	0.0051
VZW PCS	1980	4	1496	5984	140	0.0110
VZW AWS	2125	4	1500	6000	140	0.0110
VZW CBAND	3730	4	6531	26124	140	0.0479
VZW CBRS	3625	4	12	48	140	0.0001

Total Percentage of Maximum Permissible Exposure

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/II

**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council'

MHz = Megahertz

mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.

Maximum Permissible Exposure*	Fraction of MPE
(mW/cm ²)	(%)
0.5007	1.01%
0.5793	0.25%
0.5793	0.89%
1.0000	1.10%
1.0000	1.10%
1.0000	4.79%
1.0000	0.01%
	9.15%

EEE C95.1-1992

s November 10, 2015 Memorandum for Exempt Modification filings



MOUNT MODIFICATION DRAWINGS
EXISTING 11.67' PLATFORM

TOWER OWNER: CROWN CASTLE
TOWER OWNER SITE NUMBER: 842859

CARRIER SITE NAME: BRISTOL W 2 CT
CARRIER SITE NUMBER: 468192
FUZE ID: 16244104

371 TERRYVILLE AVE
BRISTOL, CONNECTICUT 06160
HARTFORD COUNTY

LATITUDE: 41.679972° N
LONGITUDE: 72.962444° W

DESIGN CRITERIA
<p>WIND LOADS</p> <p>BASIC WIND SPEED (3 SECOND GUST), V = 116 MPH EXPOSURE CATEGORY C TOPOGRAPHIC CATEGORY 1 MEAN BASE ELEVATION (AMSL) = 560.43'</p> <p>ICE LOADS</p> <p>ICE WIND SPEED (3 SECOND GUST), V = 50 MPH ICE THICKNESS = 1.00 IN</p> <p>SEISMIC LOADS</p> <p>SEISMIC DESIGN CATEGORY B SHORT TERM MCER GROUND MOTION, S_s = .186 LONG TERM MCER GROUND MOTION, S_i = .054</p>

PROJECT INFORMATION
<p>APPLICANT/LESSEE</p> <p>COMPANY: VERIZON WIRELESS</p> <p>CLIENT REPRESENTATIVE</p> <p>COMPANY: VERIZON WIRELESS ADDRESS: 118 FLANDERS ROAD, THIRD FLOOR CITY, STATE, ZIP: WESTBOROUGH, MA 01581 CONTACT: ANDREW CANDIELLO EMAIL: ANDREW.CANDIELLO@VERIZONWIRELESS.COM</p> <p>PROJECT MANAGER</p> <p>COMPANY: MASER CONSULTING CONTACT: PETER ALBANO PHONE: 856-797-0412 E-MAIL: PETER.ALBANO@COLLIERENGINEERING.COM</p>

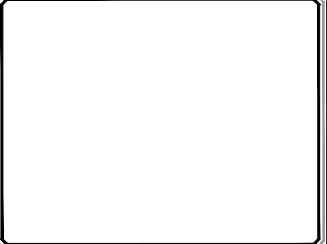
SHEET INDEX	
SHEET	DESCRIPTION
ST-1	TITLE SHEET
SBOM-1	BILL OF MATERIALS
SGN-1	GENERAL NOTES
SCF-1	CLIMBING FACILITY DETAIL
SS-1	MODIFICATION DETAILS
SS-2	MOUNT PHOTOS
	SPECIFICATION SHEETS

CONTRACTOR PMI REQUIREMENTS	
PMI LOCATION:	HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #:	10089855
VZW LOCATION CODE (PSLC):	468192
ANALYSIS DATE:	8/4/2021
PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT	

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REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY

08/04/2021

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SITE NAME:

BRISTOL W 2 CT
468192
371 TERRYVILLE AVE
BRISTOL, CONNECTICUT
06010
HARTFORD COUNTY

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

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
ST-1

BILL OF MATERIALS

SECTION 1 - VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)	
1	VZWSMART	VZWSMART-PLK1	SUPPORT RAIL KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1	504	504	

SECTION 2 - OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
3	-	-	72" LONG, P2 1/2 STD	GALVANIZED. CONNECT NEW MOUNT PIPES TO THE EXISTING FACE HORIZONTAL WITH CROSSOVER PLATES (SITE PRO 1 PART #: SP219-H).	51.774	155.322
3	SITE PRO 1	SP219-H	2-7/8" TO 3-1/2" PIPE MOUNT ASSEMBLY	OR EOR APPROVED EQUAL, CONTACT MASER CONSULTING FOR APPROVAL OF SUBSTITUTION.	12.61	37.83
TOTAL:						697.152

NOTES:

- THE MANUFACTURERS LISTED ARE THE APPROVED VENDORS FOR THE VZW MOUNT KITS. EACH MANUFACTURER WILL BE AWARE OF WHICH KITS HAVE BEEN THROUGH THE VZW APPROVAL PROCESS AND THEY ARE IN TURN APPROVED TO SELL. PLEASE NOTE THAT THE MATERIAL UTILIZED ON THE MOUNT MODIFICATIONS WILL BE REVIEWED AS A PART OF THE DESKTOP PMI COMPLETED BY THE SMART TOOL VENDOR. IT WILL BE REQUIRED THAT THE VZW KITS SPECIFIED ARE UTILIZED IN THE MODIFICATIONS.
- ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR.

VZWSMART KITS - APPROVED VENDORS

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



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SCALE: AS SHOWN JOB NUMBER: 21781029A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	8/4/2021	ISSUED FOR CONSTRUCTION	DC	DX



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SITE NAME:
 BRISTOL W 2 CT
 468192
 371 TERRYVILLE AVE
 BRISTOL, CONNECTICUT
 06010
 HARTFORD COUNTY

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

SHEET TITLE:
BILL OF MATERIALS

SHEET NUMBER:
SBOM-1

PROJECT NOTES

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

GENERAL NOTES

- THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
- CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
- IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
- ALL CONSTRUCTION MEANS AND METHODS: INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANS/TIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANS/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
- WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE

CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.

- ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANS/TIA-322.
- CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
- CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
- DO NOT SCALE DRAWINGS.
- DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
- ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
- THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

STRUCTURAL STEEL

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

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

- ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
- PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 - SUBMIT SHOP DRAWINGS TO
PETER.ALBANO@COLLIERSENGINEERING.COM
 - PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
- DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
- CONTRACTOR SHALL PROTECT CUT ENDS OF ALL FIELD-CUT STEEL WITH TWO (2) COATS OF COLD GALVANIZATION (ZINGA OR ZINC COTE).
- ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
- WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
- FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.

- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
- ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

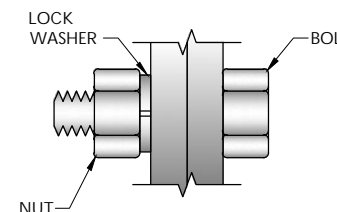
WELDING NOTES

- ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.0 (LATEST EDITION). THIS SHALL INCLUDE A CERTIFIED WELD INSPECTION (CWI) FOR ACCEPTANCE OR REJECTION OF ALL WELDING OPERATIONS, PRE, DURING, AND POST INSTALLATION, USING THE ACCEPTANCE CRITERIA OF AWS D1.1.
- CONTRACTOR IS RESPONSIBLE FOR COMMISSIONING A THIRD PARTY CERTIFIED WELD INSPECTOR (CWI) THROUGHOUT THE ENTIRETY OF THE PROJECT. A PASSING CWI REPORT SHALL BE PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
- THE CERTIFIED WELD INSPECTOR SHALL INDICATE, IN A WRITTEN CWI REPORT, THAT ALL WELDING OPERATIONS PRE, DURING, AND POST INSTALLATION WERE CONDUCTED IN ACCORDANCE WITH AWS D1.1 WITH PHOTOGRAPHS AND DOCUMENTATION SUPPORTING THE ACCEPTANCE OR REJECTION OF ALL WELDING. ALL CWI WELD INSPECTION DOCUMENTATION AND PHOTOS SHALL BE SUBMITTED DURING THE PMI.
- IN CASES WHERE A WELD IS SPECIFIED BETWEEN TWO MEMBERS IN WHICH THERE IS A GAP IN BETWEEN, THE WELD IS TO BE BUILT-UP SUCH THAT THE SIZE OF WELD ON THE MEMBER IS EQUAL TO THAT SHOWN IN THE DRAWINGS.
- OXY FUEL GAS WELDING OR BRAZING IS STRICTLY PROHIBITED. SPECIFICALLY, NO TORCH CUTTING IS PERMITTED ON SITE. ALL HOLES SHALL BE CUT WITH A GRINDER.
- CONTRACTOR SHALL EXERCISE CAUTION WHEN WELDING A GALVANIZED SURFACE.

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

WORKABLE GAGES (IN.)

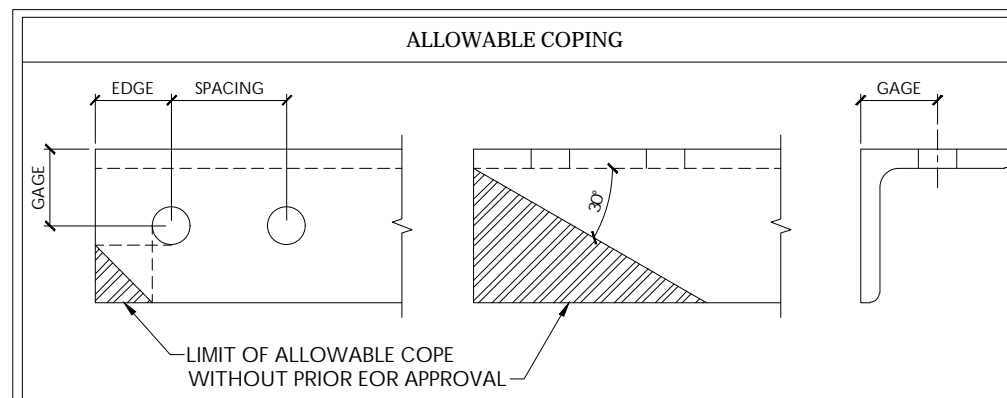
LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



TYP. BOLT ASSEMBLY

NOTES:

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



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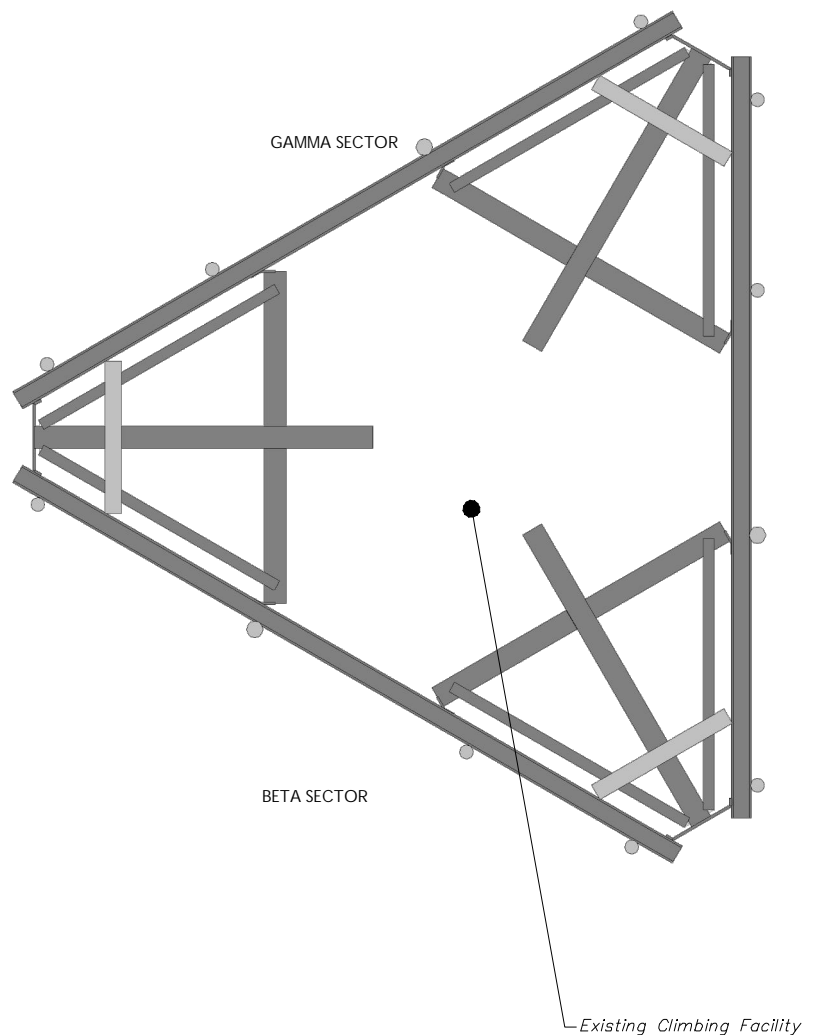
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Fax: 856.722.1120

SHEET TITLE:
MODIFICATION NOTES

SHEET NUMBER:
SGN-1

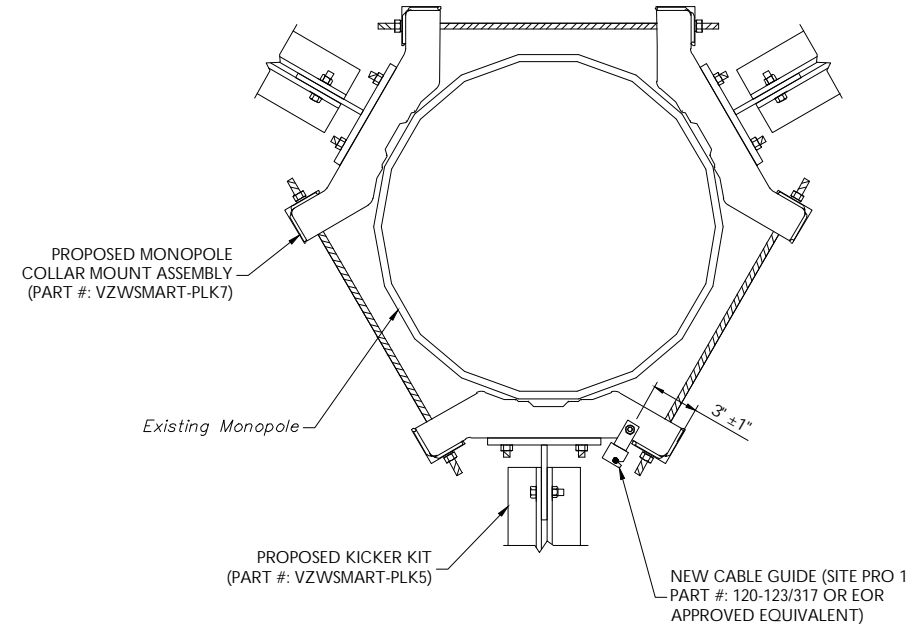


1 CLIMBING FACILITY LOCATION
SCALE: N.T.S.

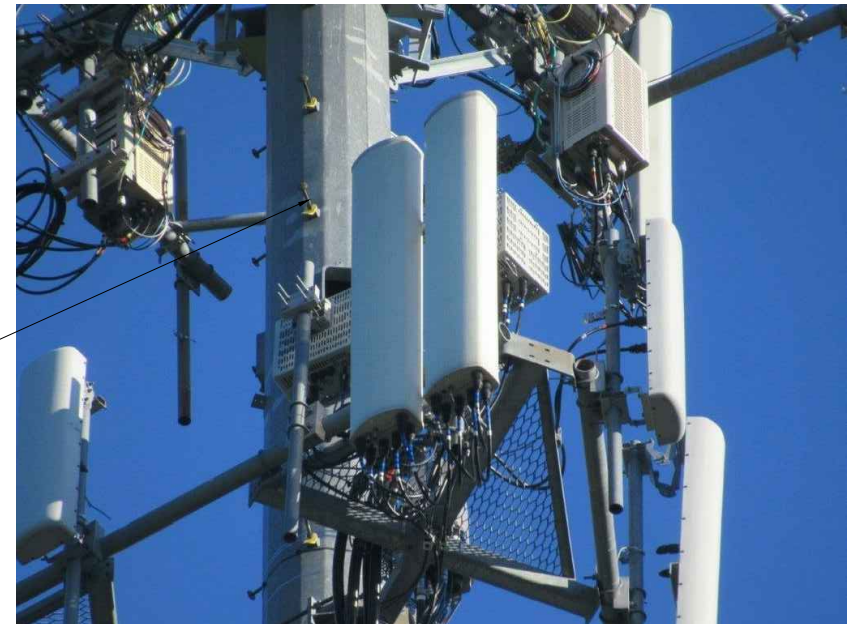
STRUCTURAL NOTES:

- CONTRACTOR TO INSPECT CLIMBING FACILITIES AT SITE AND ENSURE THAT THE SAFETY CLIMB IS IN GOOD CONDITION AND THAT THE WIRE ROPE DOES NOT OR WILL NOT INTERFERE WITH THE EXISTING OR PROPOSED MOUNT CONNECTIONS. CONTRACTOR SHALL INSTALL SAFETY CLIMB WIRE ROPE GUIDED AROUND MOUNT CONNECTIONS AS NEEDED.
- INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

Existing Climbing Facility



2 CABLE GUIDE COLLAR ATTACHMENT - PLAN VIEW
SCALE: N.T.S.



CLIMBING FACILITY PHOTO

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 Suite 100
 Mount Laurel, NJ 08054
 Phone: 856.797.0412
 Fax: 856.722.1120

SHEET TITLE:
 CLIMBING FACILITY DETAIL

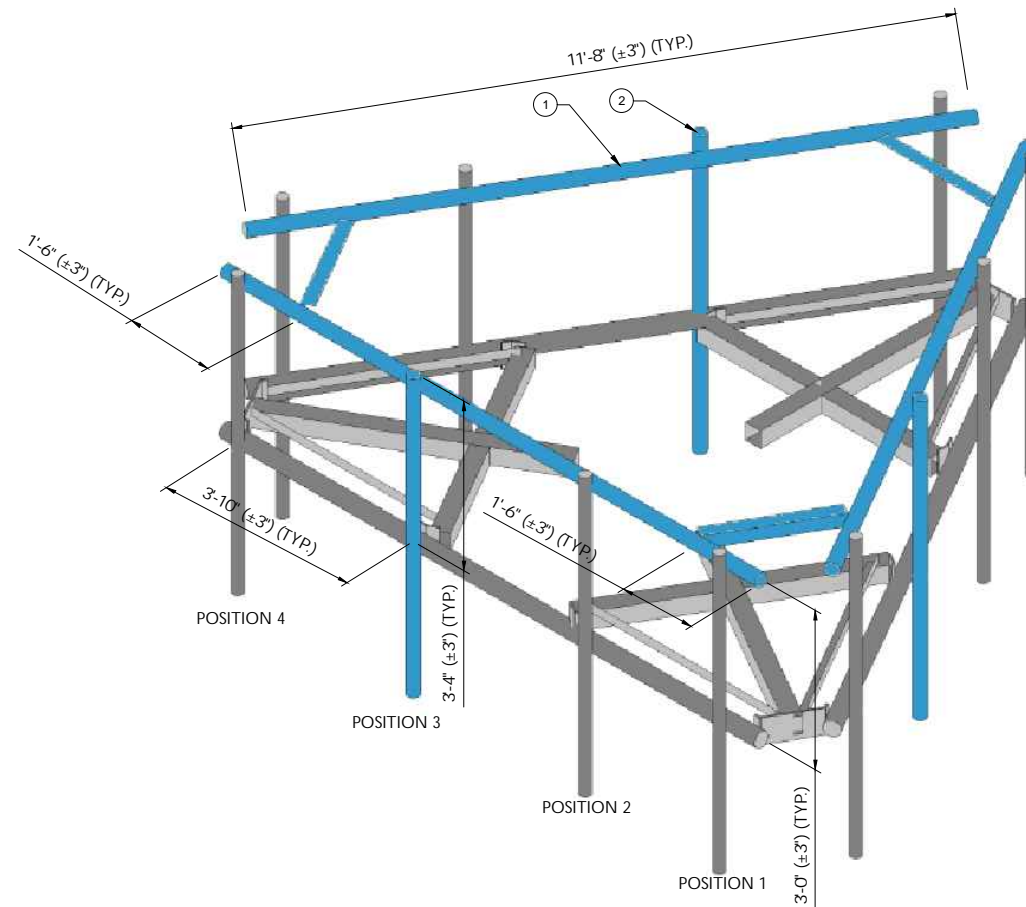
SHEET NUMBER:
 SCF-1

LEGEND:

- PROPOSED
- RELOCATED
- EXISTING

MOUNT MODIFICATION SCHEDULE					
NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES	
1	139'-0"	1	PROPOSED SUPPORT RAIL KIT (PART #: VZWSMART-PLK1)	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. CONNECT SUPPORT RAIL TO ALL EXISTING AND NEW VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1). RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.	
2		3	72" LONG, P2 1/2 STD MOUNT PIPE	GALVANIZED. CONNECT NEW MOUNT PIPES TO THE EXISTING FACE HORIZONTAL WITH CROSSOVER PLATES (SITE PRO 1 PART #: SP219-H).	
3		3	SP219-H, 2-7/8" TO 3-1/2" PIPE MOUNT ASSEMBLY	OR EOR APPROVED EQUAL, CONTACT MASER CONSULTING FOR APPROVAL OF SUBSTITUTION.	
4					
5					
6					
7					
8					
9					
10					

NOTES:
MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.



1

PROPOSED ISOMETRIC VIEW

SCALE : N.T.S.

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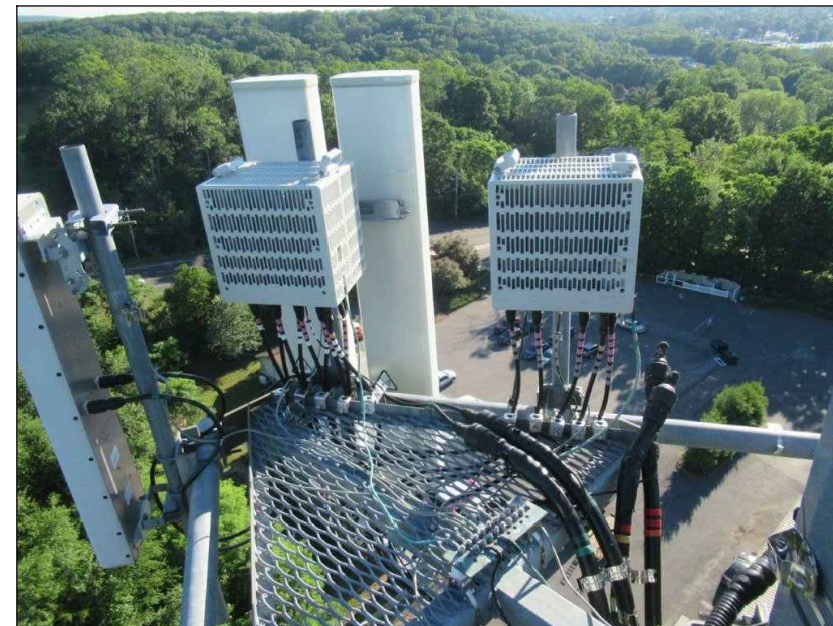
MOUNT PHOTO 1



MOUNT PHOTO 2



MOUNT PHOTO 3



MOUNT PHOTO 4



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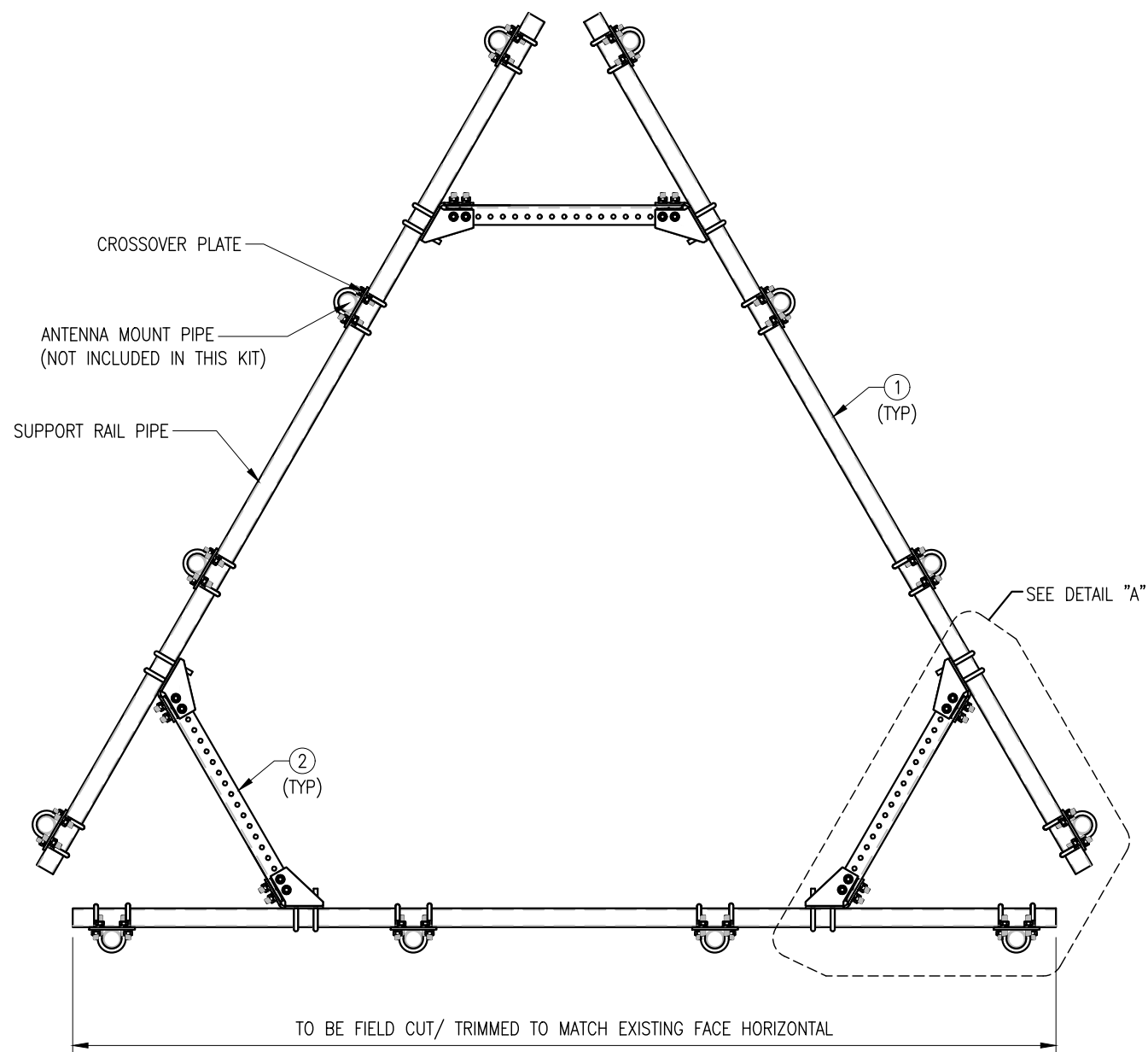
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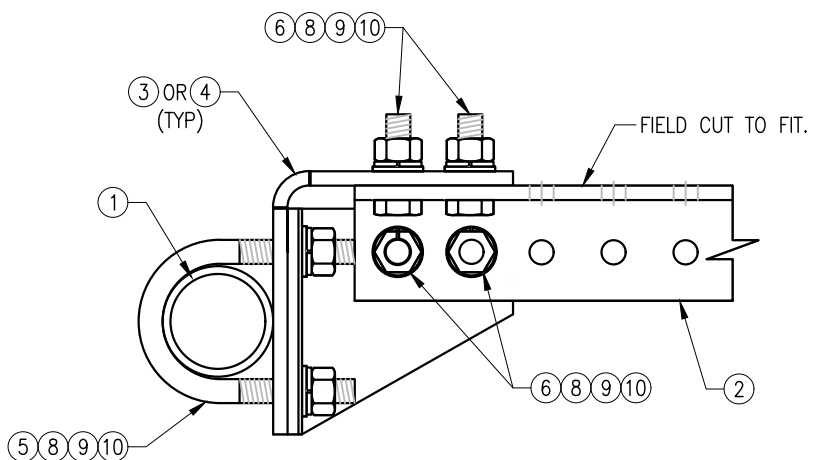
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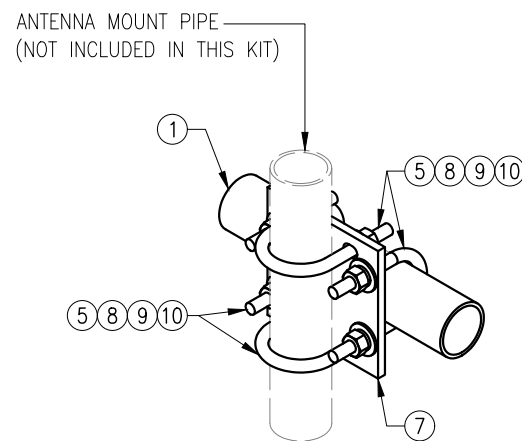
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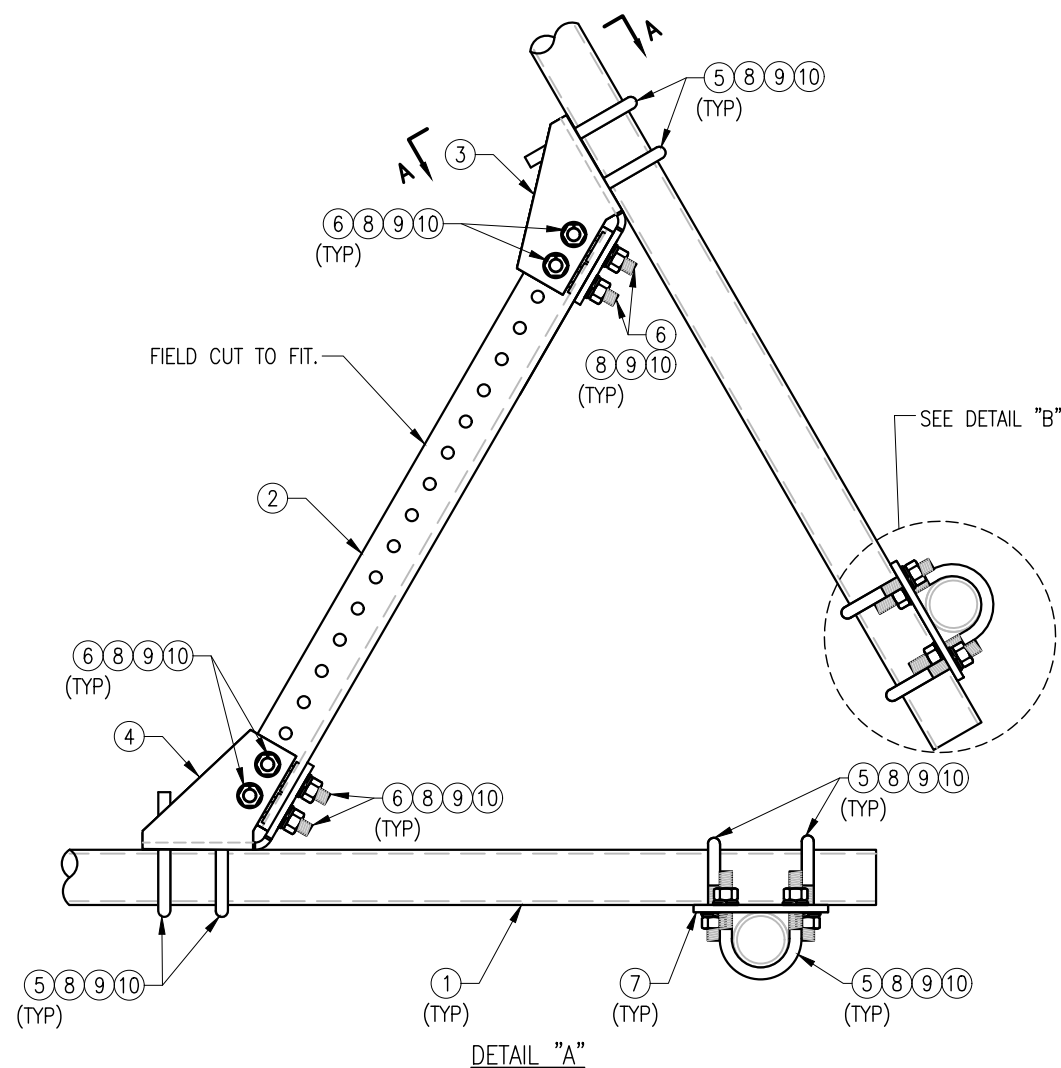
PLAN VIEW



SECTION "A-A"



DETAIL "B"



DETAIL "A"

NOTES:

1. HOT-DIPPED GALVANIZED PER ASTM A123.

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

DRAWN BY: H.R. CHECKED BY: HMA

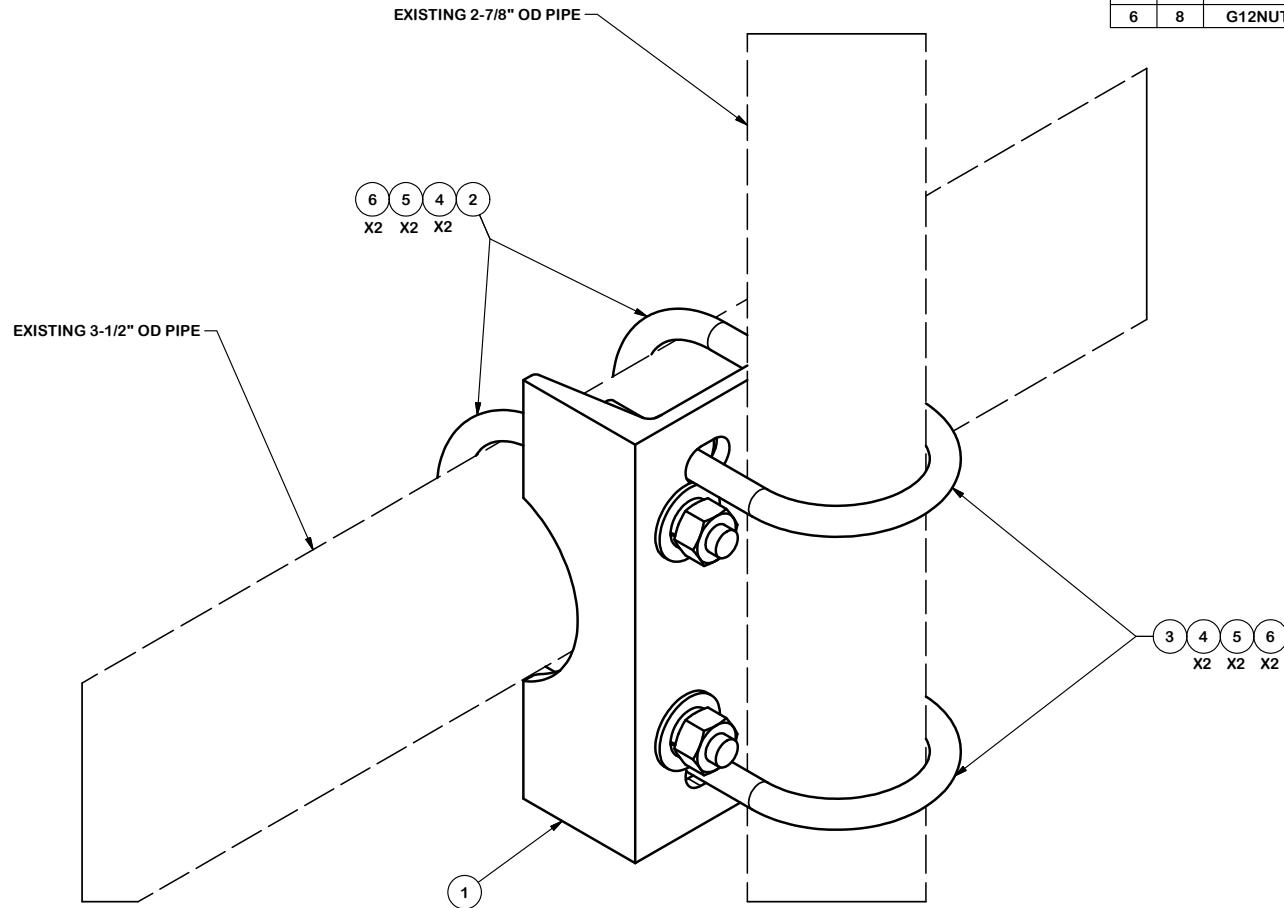
REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	H.R.	05/08/20
△			
△			
△			

SHEET TITLE:

VZWSMART-PLK1
 SUPPORT RAIL KIT

SHEET NUMBER: VZWSMART-PLK1 REV #: 0

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-SP219	SMALL SUPPORT CROSS PLATE	8 1/4 in	8.61	8.61
2	2	X-UB1306	1/2" X 3-5/8" X 6" X 3" U-BOLT (HDG.)		0.66	1.31
3	2	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.66	1.31
4	8	G12FW	1/2" HDG USS FLATWASHER		0.03	0.27
5	8	G12LW	1/2" HDG LOCKWASHER		0.01	0.11
6	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
					TOTAL WT. #	12.61



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
 DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
 BENDS ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING ($\pm 0.030"$)
 ALL OTHER ASSEMBLY ($\pm 0.060"$)

PROPRIETARY NOTE:
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION
 2-7/8" TO 3-1/2"
 PIPE MOUNT ASSEMBLY

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

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	REDRAWN IN INV. UPDATED VIEWS & TABLE		KC8	8-21-2012

CPD NO.	4518	DRAWN BY	BMC	6/3/2009	ENG. APPROVAL
CLASS	81	SUB	01	DRAWING USAGE	CUSTOMER
			CHECKED BY	CEK	2/18/2013

PART NO.	SP219-H
DWG. NO.	SP219-H



VERIZON SITE NUMBER: 468192
VERIZON SITE NAME: BRISTOL W 2 CT
VERIZON FUZE ID: 16244104
SITE TYPE: MONOPOLE
TOWER HEIGHT: 168'-6"

BUSINESS UNIT #: 842859
SITE ADDRESS: 371 TERRYVILLE AVENUE
 BRISTOL, CT 06010
COUNTY: HARTFORD
JURISDICTION: CITY OF BRISTOL

VERIZON MODIFICATION;4G_CBRS,5G_850,5G_L-SUB6-PREP

verizon
 20 ALEXANDER DRIVE, 2ND FLOOR
 WALLINGFORD, CT 06492

CROWN CASTLE
 1200 MACARTHUR BLVD, SUITE 200
 MAHWAH, NJ 07430

TOWER ENGINEERING PROFESSIONALS
 326 TRYON RD
 RALEIGH, NC 27603
 (919) 661-6351
 TEP JOB #: 217133.586746

VERIZON SITE NUMBER: 468192
BU #: 842859
BRISTOL CENTER
 371 TERRYVILLE AVENUE
 BRISTOL, CT 06010
 EXISTING 168'-6" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	08/18/21	JCH	CONSTRUCTION	JTC
1	09/29/21	EP	CONSTRUCTION	JTC

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

SHEET NUMBER: T-1
REVISION: 1

SITE INFORMATION

CROWN CASTLE USA INC. SITE NAME:	BRISTOL CENTER
SITE ADDRESS:	371 TERRYVILLE AVENUE BRISTOL, CT 06010
COUNTY:	HARTFORD
MAP/PARCEL #:	61-67-3_0272831
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41° 40' 47.71" (41.679972)
LONGITUDE:	-72° 57' 45.18" (-72.962444)
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	541 FT
CURRENT ZONING:	I
JURISDICTION:	CITY OF BRISTOL
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IBB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	LAVIERO REALTY LLC 70 MAUREEN DR BRISTOL, CT 06010
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	VERIZON WIRELESS 180 WASHINGTON VALLEY ROAD BEDMINSTER, NJ 07921
ELECTRIC PROVIDER:	EVERSOURCE (888) 544-4826
TELCO PROVIDER:	AT&T (800) 331-0500

DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1	SITE PLAN
C-2	TOWER ELEVATION & ANTENNA PLANS
C-3	EQUIPMENT SCHEDULES
C-4	EQUIPMENT DETAILS
C-5	EQUIPMENT DETAILS
C-6	COLOR CODE MATRIX
C-7	PLUMBING DIAGRAM
G-1	GROUNDING DETAILS
G-2	GROUNDING DETAILS
ATTACHED	MOUNT MODIFICATION DRAWINGS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR FULL SIZE. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

LOCATION MAP

DRIVING DIRECTIONS FROM DISTRICT OFFICE : FROM I-84 WEST TAKE EXIT 33 FOR CONNECTICUT 72 W TOWARD BRISTOL. 0.3 MI KEEP LEFT AT THE FORK AND MERGE ONTO CT-72 W 4.1 MI TURN RIGHT ONTO CT-72 0.4 MI TAKE THE 3RD RIGHT ONTO RIVERSIDE AVE 1.0 MI TURN RIGHT ONTO N MAIN ST 0.7 MI TURN LEFT ONTO NORTH ST DESTINATION WILL BE ON THE LEFT

APPROVALS

SIGNATURE	DATE
_____	_____
_____	_____
_____	_____
_____	_____

APPLICABLE CODES/REFERENCE DOCUMENTS

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

CODE TYPE	CODE
BUILDING	2018 CONNECTICUT STATE BUILDING CODE (2015 IBC)
MECHANICAL	2018 CONNECTICUT STATE MECHANICAL CODE (2015 IMC)
ELECTRICAL	2017 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS: MORRISON HERSHFIELD
 DATED: 06/15/21

MOUNT ANALYSIS: BY OTHERS

RFDS REVISION: 0
 DATED: 08/04/21

ORDER ID: 574945
 REVISION: 0

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

TOWER SCOPE OF WORK:

- REMOVE (9) ANTENNAS
- REMOVE (1) RAYCAP
- MODIFY PLATFORM MOUNT
- INSTALL (12) ANTENNAS
- INSTALL (3) CBRS RADIOS

NOTE:
 PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER

PROJECT TEAM

A&E FIRM:	TOWER ENGINEERING PROFESSIONALS 326 TRYON ROAD RALEIGH, NC 27603 (919) 661-6351 JOSEPH T. CRESS - PROJECT MANAGER GRAHAM M. ANDRES - CIVIL ENGINEER
CROWN CASTLE USA INC. DISTRICT CONTACTS:	6325 ARDREY KELL ROAD, SUITE 600 CHARLOTTE, NC 28277 SARA REA LOADHOLDT - A&E SPECIALIST (704) 405-6548

CONTRACTOR PMI REQUIREMENTS

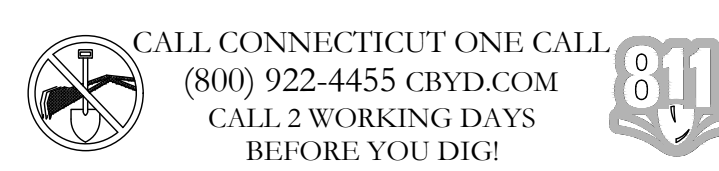
PMI ACCESSED AT	https://pmi.vxwsmart.com
SMART TOOL VENDOR	
PROJECT NUMBER	10089855
VzW LOCATION CODE (PSLC)	468192

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

MOUNT MODIFICATION REQUIRED Y

VzW APPROVED SMART KIT VENDORS

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



CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

- NOTICE TO PROCEED- NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. NOC AT 800-788-7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
- "LOOK UP" - CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT: THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.
- PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
- ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CED-STD-10253, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322 (LATEST EDITION).
- ALL SITE WORK TO COMPLY WITH QAS-STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE," CED-STD-10294 "STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES," AND LATEST VERSION OF ANSI/TIA-1019-A-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS." IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
- ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS. LATEST APPROVED REVISION.
- CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES.
- THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GREENFIELD GROUNDING NOTES:

- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- THE CONTRACTOR SHALL PERFORM IEEE FALL-OFF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.
- CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
- ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
- COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
- APPROVED ANTI-OXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
- GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
- ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
- BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM. THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY).

GENERAL NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION
CARRIER: VERIZON
TOWER OWNER: CROWN CASTLE USA INC.
- THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
- THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
- NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
- SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CROWN CASTLE.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
- CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC.
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
- UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°F AT TIME OF PLACEMENT.
- CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45.
- ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WFF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:
#4 BARS AND SMALLER.....40 ksi
#5 BARS AND LARGER.....60 ksi
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.....3"
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 BARS AND LARGER.....2"
#5 BARS AND SMALLER.....1-1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
SLAB AND WALLS.....3/4"
BEAMS AND COLUMNS.....1-1/2"
- A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

ELECTRICAL INSTALLATION NOTES:

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
- CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
 - ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
 - ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.
- EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).
- PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
- ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SNEW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC.
- WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREFOLD SPECMATE WIREWAY).
- SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
- CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR BETTER) FOR EXTERIOR LOCATIONS.
- METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
- NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
- THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC. BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
- INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "VERIZON".
- ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

CONDUCTOR COLOR CODE		
SYSTEM	CONDUCTOR	COLOR
120/240V, 1Ø	A PHASE	BLACK
	B PHASE	RED
	NEUTRAL	WHITE
120/208V, 3Ø	GROUND	GREEN
	A PHASE	BLACK
	B PHASE	RED
	C PHASE	BLUE
	NEUTRAL	WHITE
277/480V, 3Ø	GROUND	GREEN
	A PHASE	BROWN
	B PHASE	ORANGE OR PURPLE
	C PHASE	YELLOW
	NEUTRAL	GREY
DC VOLTAGE	GROUND	GREEN
	POS (+)	RED**
	NEG (-)	BLACK**

* SEE NEC 210.5(C)(1) AND (2)
** POLARITY MARKED AT TERMINATION

APWA UNIFORM COLOR CODE:

- WHITE PROPOSED EXCAVATION
- PINK TEMPORARY SURVEY MARKINGS
- RED ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES
- YELLOW GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS
- ORANGE COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS
- BLUE POTABLE WATER
- PURPLE RECLAIMED WATER, IRRIGATION, AND SLURRY LINES
- GREEN SEWERS AND DRAIN LINES

ABBREVIATIONS:


- ANT ANTENNA
- (E) EXISTING
- FIF FACILITY INTERFACE FRAME
- GEN GENERATOR
- GPS GLOBAL POSITIONING SYSTEM
- GSM GLOBAL SYSTEM FOR MOBILE
- LTE LONG TERM EVOLUTION
- MGB MASTER GROUND BAR
- MW MICROWAVE
- (N) NEW
- NEC NATIONAL ELECTRIC CODE
- (P) PROPOSED
- PP POWER PLANT
- QTY QUANTITY
- RECT RECTIFIER
- RBS RADIO BASE STATION
- RETS REMOTE ELECTRIC TILT
- RFDs RADIO FREQUENCY DATA SHEET
- RRH REMOTE RADIO HEAD
- RRU REMOTE RADIO UNIT
- SIAD SMART INTEGRATED DEVICE
- TMA TOWER MOUNTED AMPLIFIER
- TYP TYPICAL
- UMTS UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
- W.P. WORK POINT



20 ALEXANDER DRIVE, 2ND FLOOR
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1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430



TOWER
ENGINEERING
PROFESSIONALS

326 TRYON RD
RALEIGH, NC 27603
(919) 661-6351

TEP JOB #: 217133.586746

VERIZON SITE NUMBER:
468192

BU #: 842859
BRISTOL CENTER

371 TERRYVILLE AVENUE
BRISTOL, CT 06010

EXISTING 168'-6" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	08/18/21	JCH	CONSTRUCTION	JTC



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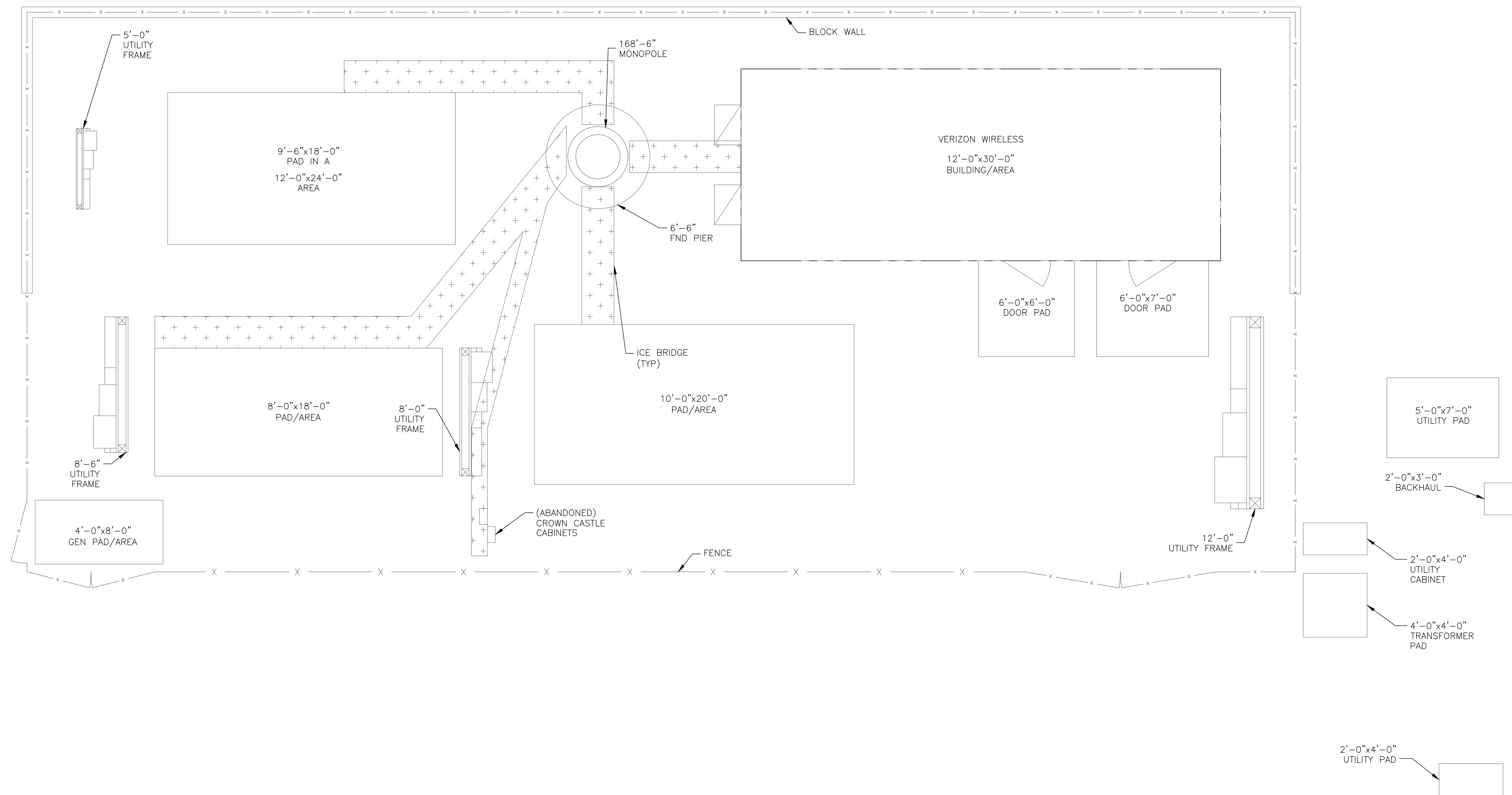
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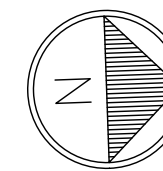
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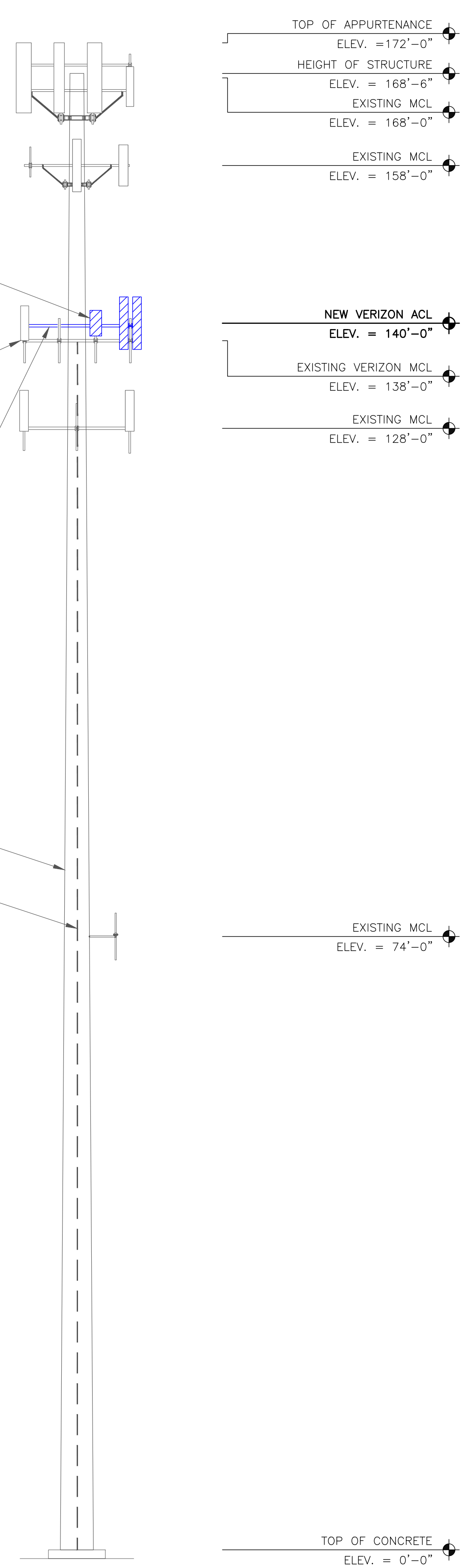
REVISION:

0



1 SITE PLAN
SCALE: 1/4"=1'-0" (FULL SIZE)
1/8"=1'-0" (11x17)

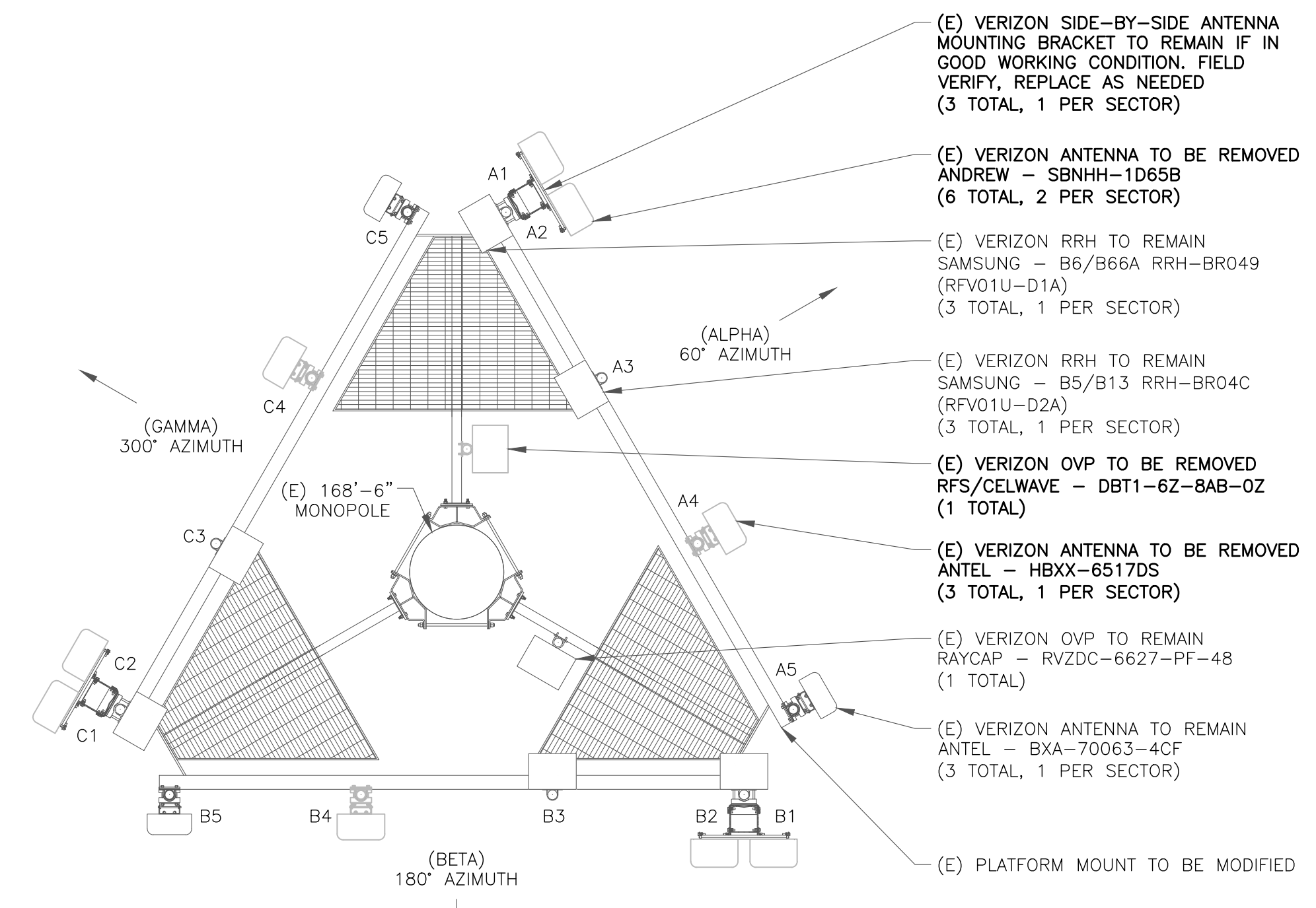




1 TOWER ELEVATION
SCALE: NOT TO SCALE

VERIZON EQUIPMENT
ANTENNA CL: 140'-0"
MOUNT CL: 138'-0"

NEW VERIZON PLATFORM MOUNT MODIFICATIONS.
SEE APPENDIX FOR DETAILS.

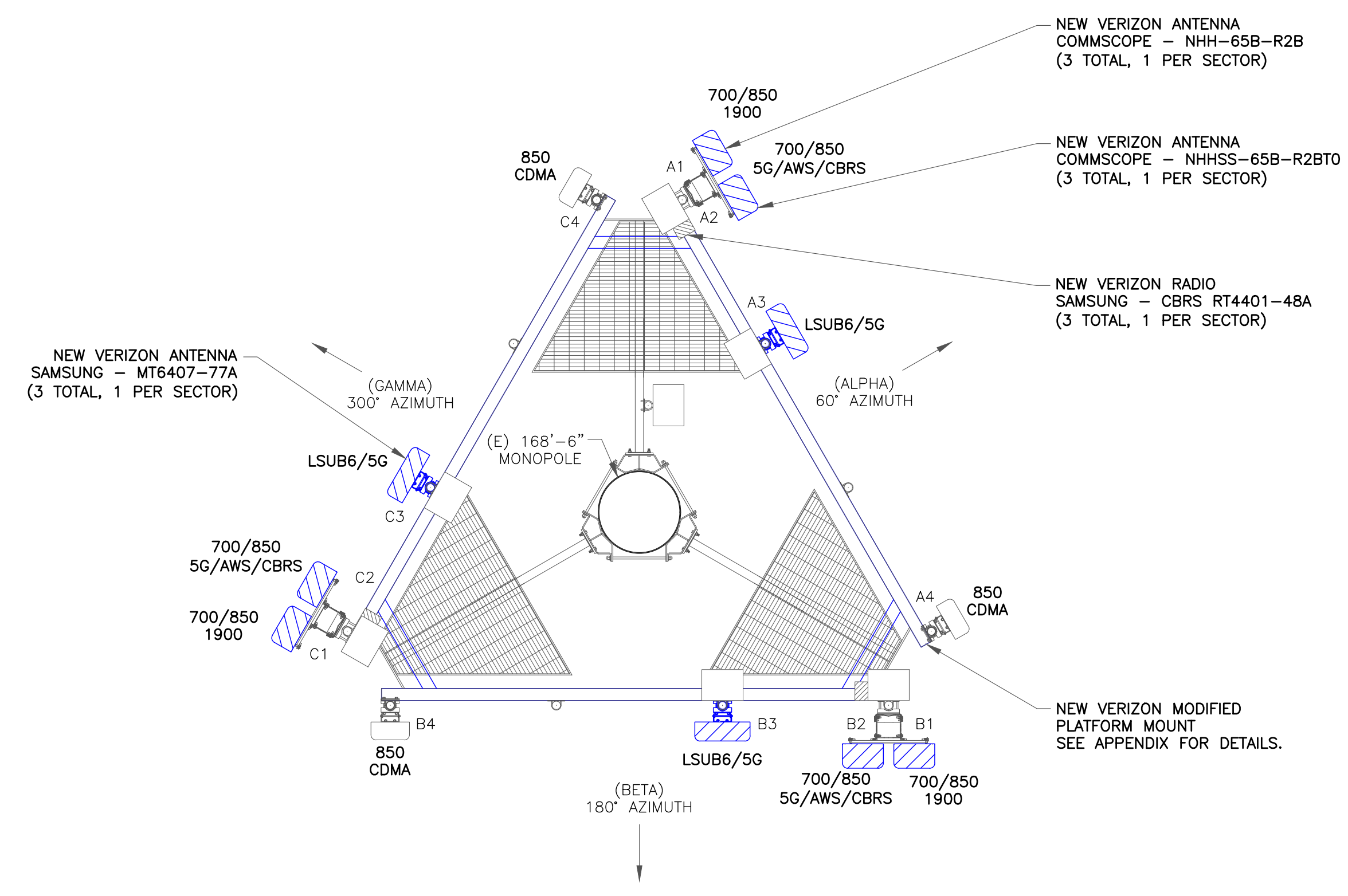


2 EXISTING ANTENNA PLAN
SCALE: NOT TO SCALE

INSTALLER NOTE:
EXISTING AND PROPOSED ANTENNA/
EQUIPMENT POSITIONING SHOWN PER
RFDS. FIELD CONDITIONS MAY VARY.

TOWER ANALYSIS NOTES:
1. THE DESIGN DEPICTED IN THESE DRAWINGS IS VALID WHEN ACCOMPANIED BY A CORRESPONDING PASSING TOWER ANALYSIS.
2. CONSTRUCTION MANAGER / GENERAL CONTRACTOR SHALL REVIEW THE TOWER ANALYSIS FOR ANY CONDITIONS PRIOR TO INSTALLATION.
3. ANY REQUIRED TOWER MODIFICATION DESIGN OR TOWER REPLACEMENT SHALL BE APPROVED BY EOR.

MOUNT ANALYSIS NOTES:
1. THE DESIGN DEPICTED IN THESE DRAWINGS IS VALID WHEN ACCOMPANIED BY A CORRESPONDING PASSING MOUNT ANALYSIS.
2. CONSTRUCTION MANAGER / GENERAL CONTRACTOR SHALL REVIEW THE MOUNT ANALYSIS FOR ANY CONDITIONS PRIOR TO INSTALLATION.
3. ANY REQUIRED MOUNT MODIFICATION DESIGN OR MOUNT REPLACEMENT SHALL BE APPROVED BY EOR.



3 NEW ANTENNA PLAN
SCALE: NOT TO SCALE

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VERIZON SITE NUMBER:
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1	09/29/21	EP	CONSTRUCTION	JTC

Professional Engineer Seal: State of Connecticut, License No. 29538, dated 09/29/21.

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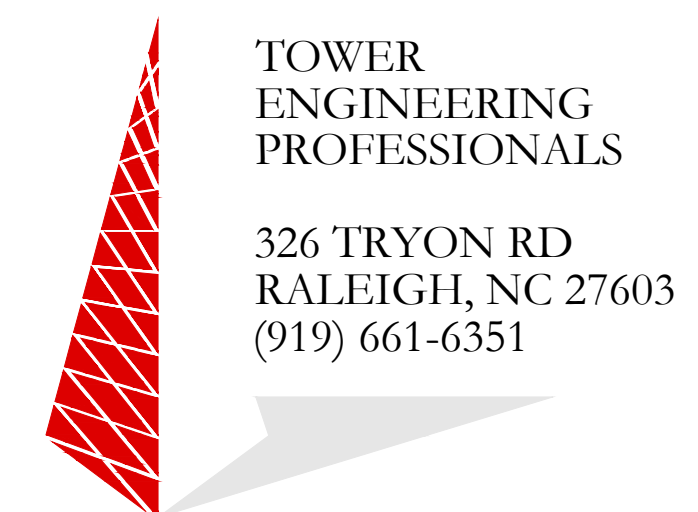
SHEET NUMBER: **C-2** REVISION: **1**



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C-3

REVISION:

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ANTENNA/RRH SCHEDULE

SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA CENTERLINE	AZIMUTH	MECHANICAL DOWNTILTS	ELECTRICAL DOWNTILTS	TOWER EQUIPMENT MANUFACTURER	TOWER EQUIPMENT QTY/MODEL
A1	NEW	COMMSCOPE	NHH-65B-R2B	140'-0"	60°	*	*	SAMSUNG	(1) B2/B66A RRH-BR049 (RFV01U-D1A) RRH
A2	NEW	COMMSCOPE	NHHSS-65B-R2BT0	140'-0"	60°	*	*	RAYCAP SAMSUNG	(1) RVZDC-6627-PF-48 OVP (1) CBRS RT4401-48A RRH
A3	NEW	SAMSUNG	MT6407-77A	140'-0"	60°	*	*	SAMSUNG	(1) B5/B13 RRH-BR04C (RFV01U-D2A) RRH
A4	EXISTING	ANTEL	BXA-70063-4CF	140'-0"	60°	*	*	-	-
B1	NEW	COMMSCOPE	NHH-65B-R2B	140'-0"	180°	*	*	SAMSUNG	(1) B2/B66A RRH-BR049 (RFV01U-D1A) RRH
B2	NEW	COMMSCOPE	NHHSS-65B-R2BT0	140'-0"	180°	*	*	SAMSUNG	(1) CBRS RT4401-48A RRH
B3	NEW	SAMSUNG	MT6407-77A	140'-0"	180°	*	*	SAMSUNG	(1) B5/B13 RRH-BR04C (RFV01U-D2A) RRH
B4	EXISTING	ANTEL	BXA-70063-4CF	140'-0"	180°	*	*	-	-
C1	NEW	COMMSCOPE	NHH-65B-R2B	140'-0"	300°	*	*	SAMSUNG	(1) B2/B66A RRH-BR049 (RFV01U-D1A) RRH
C2	NEW	COMMSCOPE	NHHSS-65B-R2BT0	140'-0"	300°	*	*	SAMSUNG	(1) CBRS RT4401-48A RRH
C3	NEW	SAMSUNG	MT6407-77A	140'-0"	300°	*	*	SAMSUNG	(1) B5/B13 RRH-BR04C (RFV01U-D2A) RRH
C4	EXISTING	ANTEL	BXA-70063-4CF	140'-0"	300°	*	*	-	-

NOTE - NEW ANTENNA/EQUIPMENT SHOWN IN BOLD

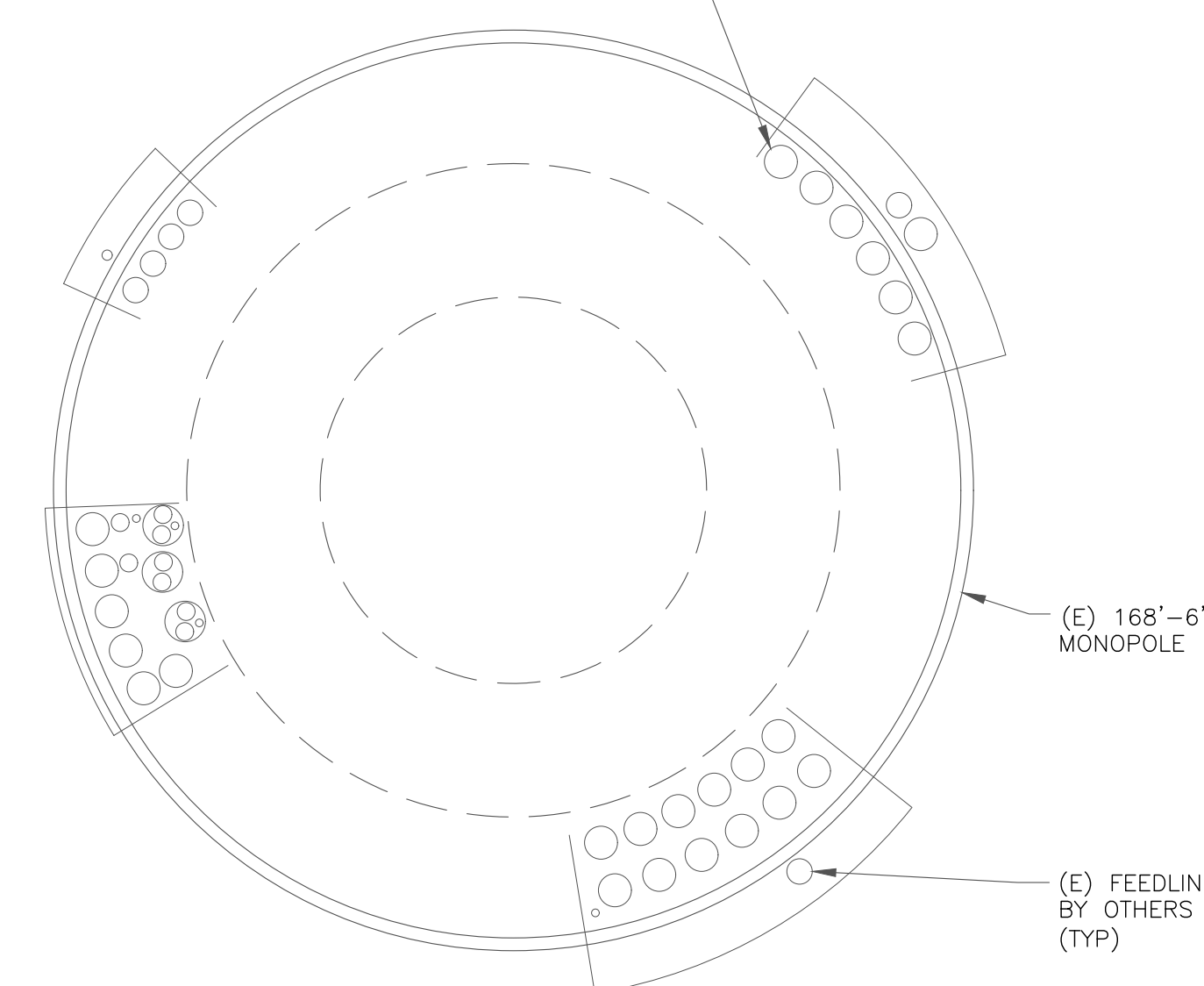
* - CONTRACTOR TO REFERENCE MOST RECENT RFDS FOR MECHANICAL AND ELECTRICAL DOWNTILTS

1 VERIZON TOWER EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE

CABLE SCHEDULE

STATUS	CABLE TYPE	MANUFACTURER (MODEL #)	SIZE	LENGTH	QTY
EXISTING	COAX	ANDREW (LDF7-50A)	1-5/8"	190'-0"±	6
EXISTING	HYBRID	RFS/CELWAVE (HB158-1-08U8-S8U18)	1-5/8"	190'-0"±	1
EXISTING	HYBRID	RFS/CELWAVE (HB114-U6S12-XXX-LI)	1-1/4"	190'-0"±	1
TOTAL CABLE QTY:					8

(E) VERIZON FEEDLINES
(6) COAX (1-5/8")
(1) HYBRID (1-5/8")
(1) HYBRID (1-1/4")



2 BASE LEVEL DETAIL
SCALE: NOT TO SCALE

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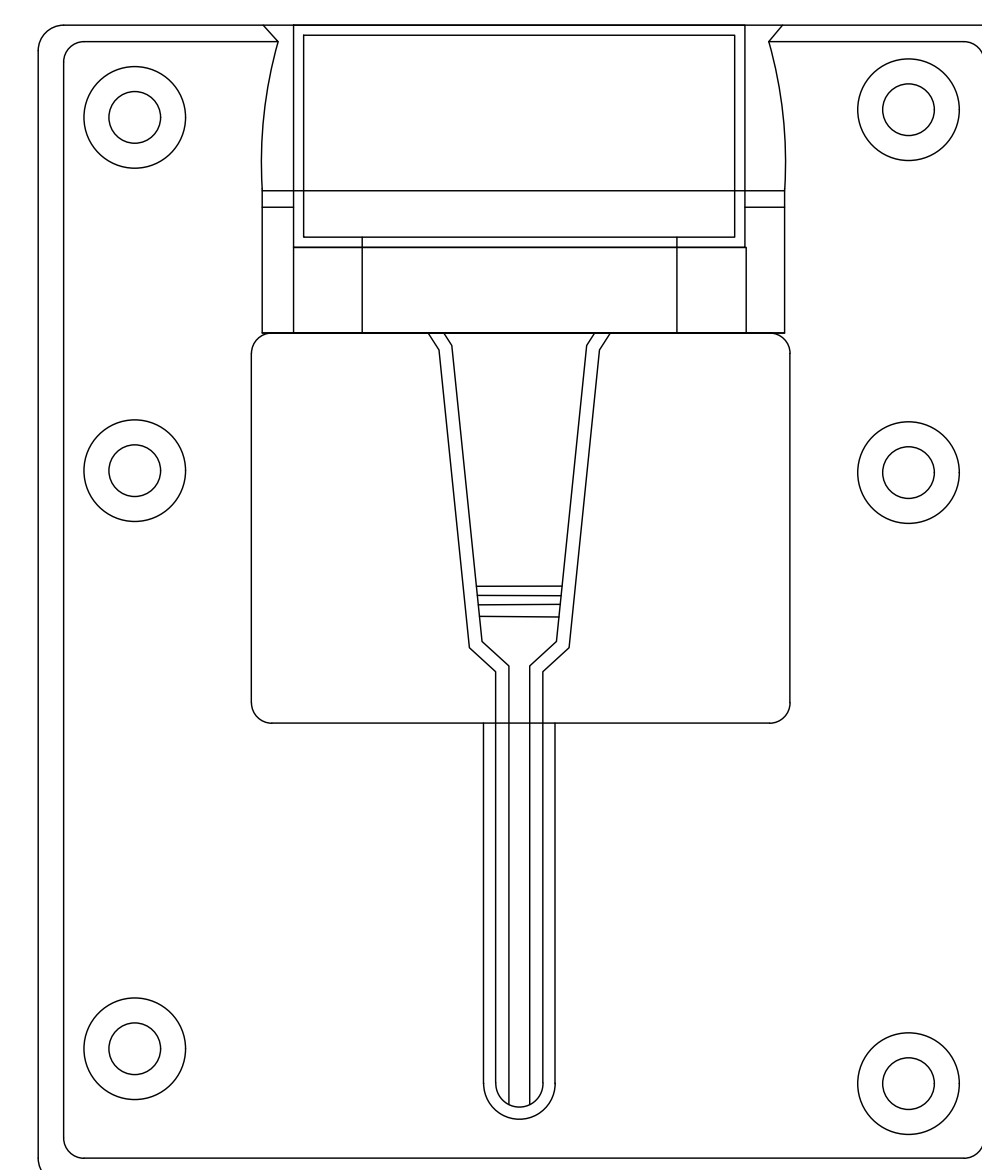
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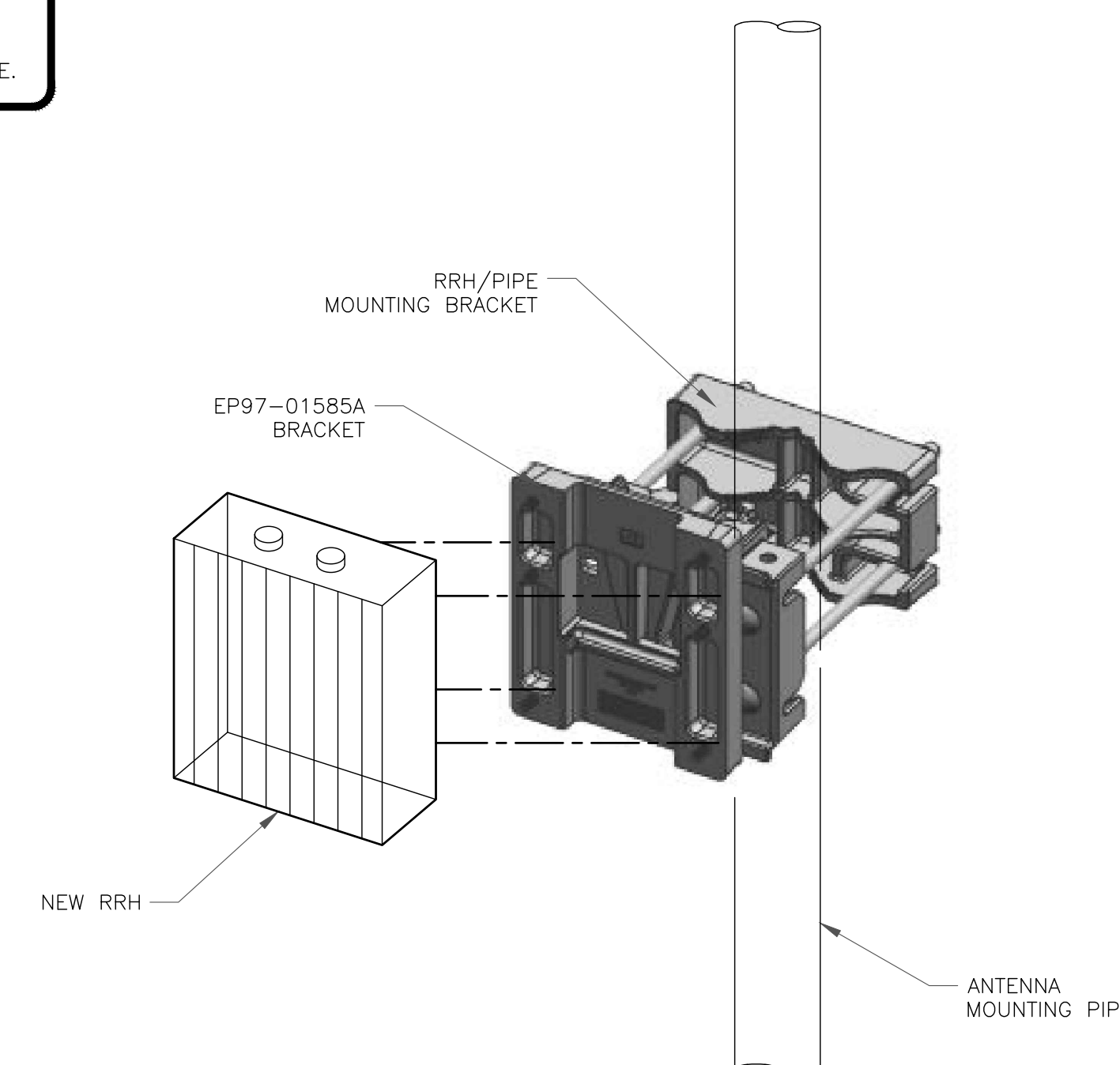
1 NOT USED
SCALE: NOT TO SCALE

2 NOT USED
SCALE: NOT TO SCALE

INSTALLER NOTES:
ALL PIPES BRACKETS AND
MISCELLANEOUS HARDWARE TO BE
GALVANIZED UNLESS NOTED OTHERWISE.



3 SAMSUNG - EP97-01585A BRACKET DETAIL
SCALE: NOT TO SCALE



4 ANTENNA & RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

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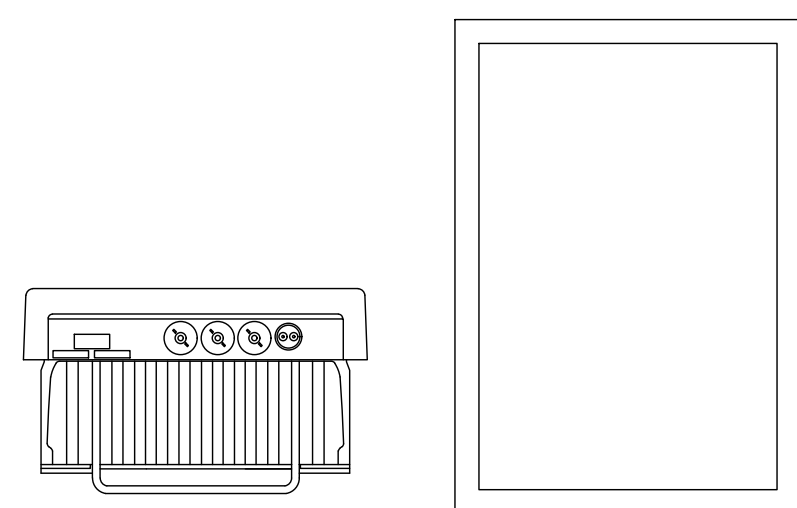
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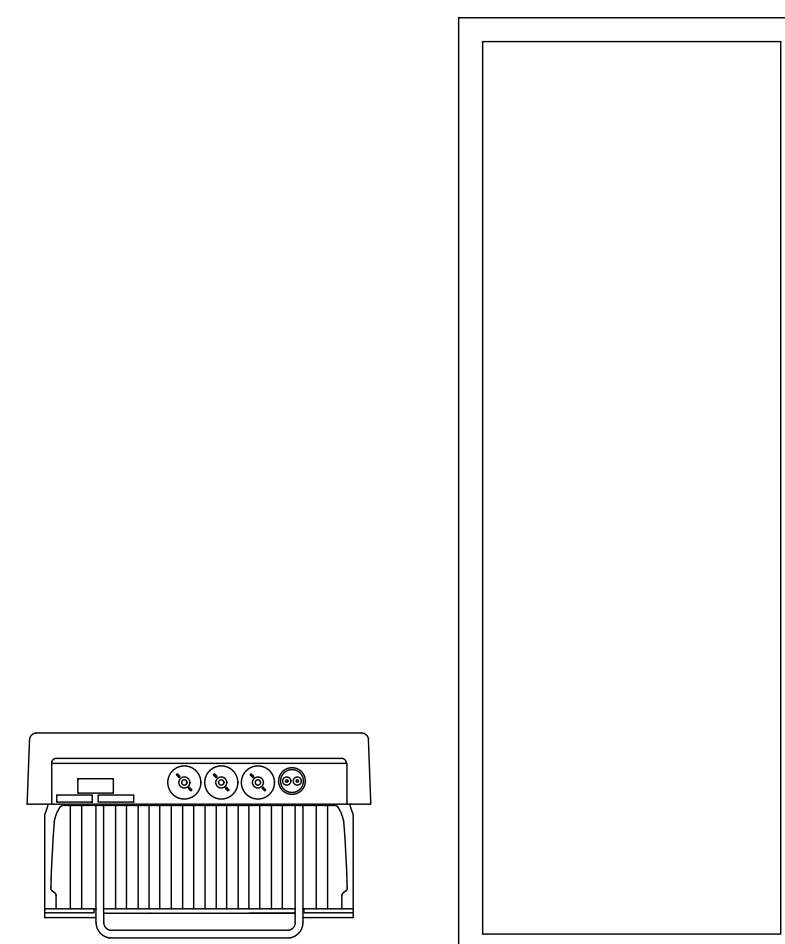
C-5

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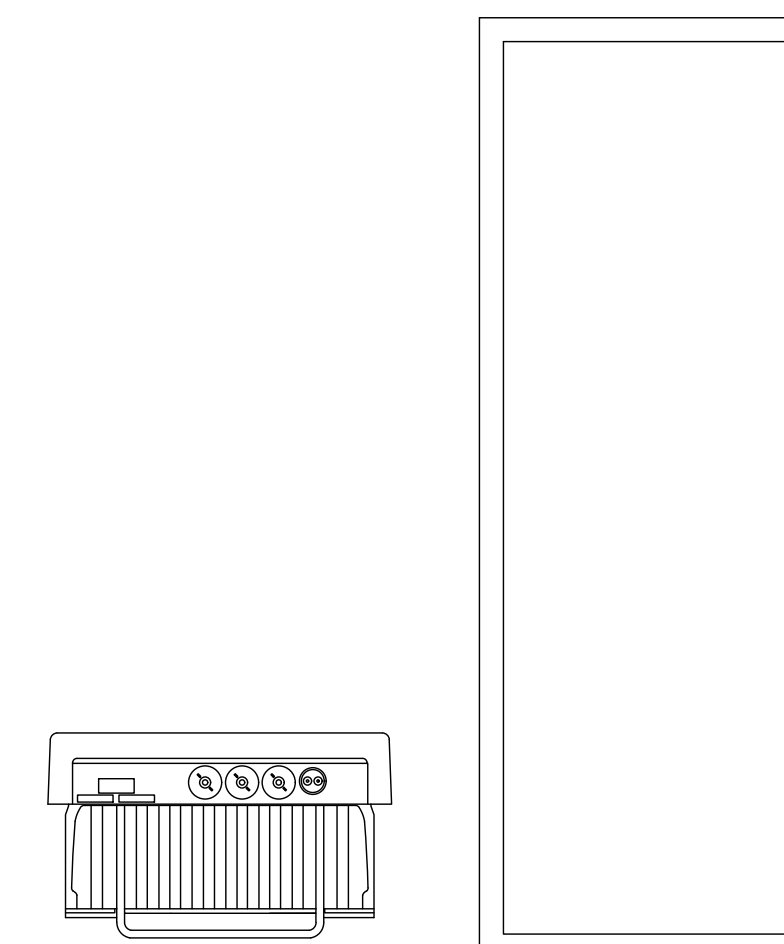
SAMSUNG TELECOMMUNICATIONS - MT6407-77A ANTENNA
WEIGHT: 81.57 LBS
SIZE (HxWxD): 35.06x16.06x5.51 IN.

② SAMSUNG - MT6407-77A
SCALE: NOT TO SCALE



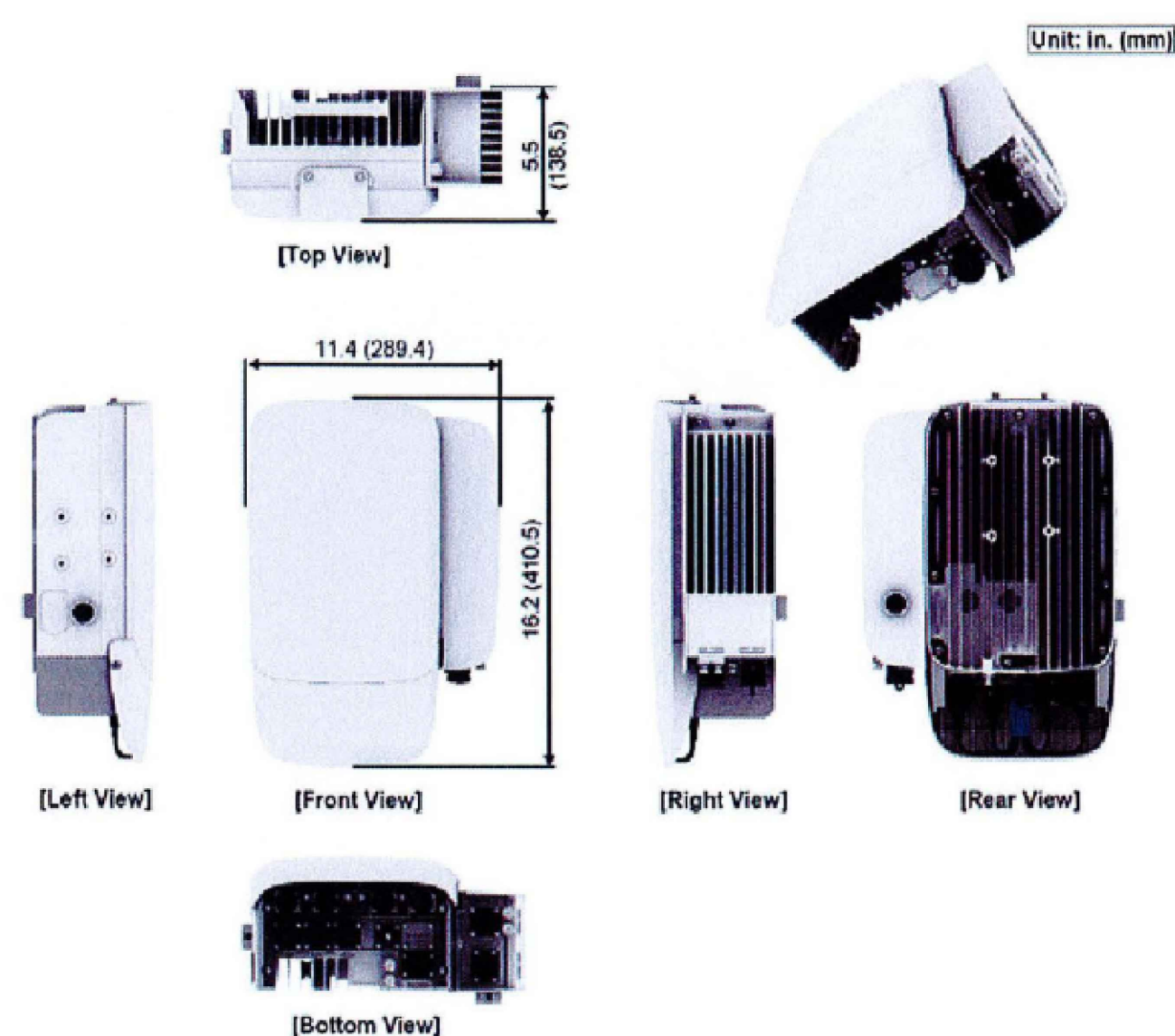
COMMSCOPE - NHH-65B-R2B ANTENNA
WEIGHT: 43.70 LBS
SIZE (HxWxD): 72.00x11.90x7.10 IN.

② COMMSCOPE - NHH-65B-R2B
SCALE: NOT TO SCALE



COMMSCOPE - NHHSS-65B-R2BT0 ANTENNA
WEIGHT: 65.50 LBS
SIZE (HxWxD): 72.00x11.90x7.10 IN.

③ COMMSCOPE - NHHSS-65B-R2BT0
SCALE: NOT TO SCALE



SAMSUNG - CBRS RRH RT4401-48A
WEIGHT: 18.64 LBS
SIZE (HxWxD): 13.91x8.55x4.15 IN.

④ SAMSUNG TELECOMMUNICATIONS - CBRS
SCALE: NOT TO SCALE

⑤ NOT USED
SCALE: NOT TO SCALE

⑥ NOT USED
SCALE: NOT TO SCALE

COLOR CODE MATRIX

Azimuth (1) Alpha					
Cell (850 CDMA)	Red				
PCS2 (1900 LTE)	Pink	Red	Pink		
700 LTE	Lt. Green	Red	Lt. Green		
850 LTE	Purple	Red	Purple		
2100 LTE	Orange	Red	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Red	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Red	Lt. Green	Purple
5G	Brown	Red	Brown		
LAA	Gray	Red	Gray		
CBRS	White	Red	White		

Azimuth (2) Beta					
Cell (850 CDMA)	Blue				
PCS2 (1900 LTE)	Pink	Blue	Pink		
700 LTE	Lt. Green	Blue	Lt. Green		
850 LTE	Purple	Blue	Purple		
2100 LTE	Orange	Blue	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Blue	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Blue	Lt. Green	Purple
5G	Brown	Blue	Brown		
LAA	Gray	Blue	Gray		
CBRS	White	Blue	White		

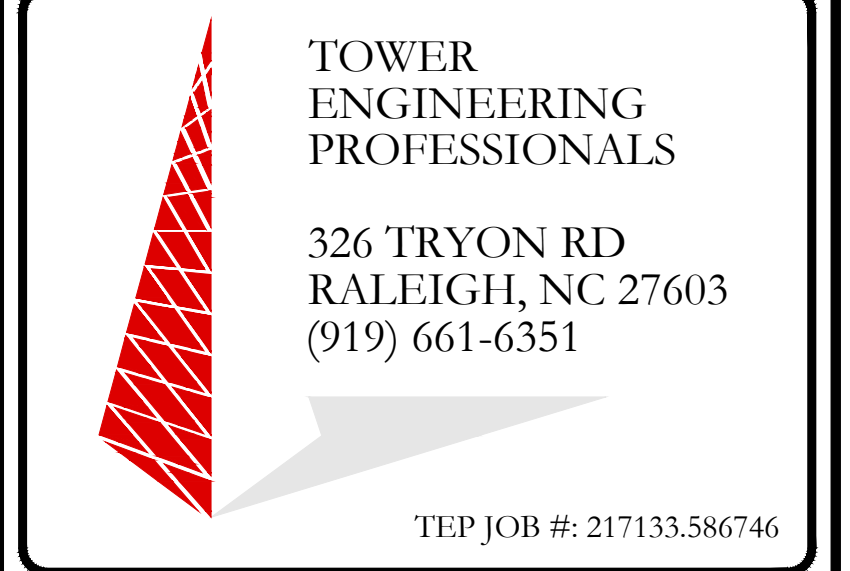
Azimuth (3) Gamma					
Cell (850 CDMA)	Yellow				
PCS2 (1900 LTE)	Pink	Yellow	Pink		
700 LTE	Lt. Green	Yellow	Lt. Green		
850 LTE	Purple	Yellow	Purple		
2100 LTE	Orange	Yellow	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Yellow	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Yellow	Lt. Green	Purple
5G	Brown	Yellow	Brown		
LAA	Gray	Yellow	Gray		
CBRS	White	Yellow	White		

COLOR CODE MATRIX

Azimuth (4) Delta					
Cell (850 CDMA)	Orange				
PCS2 (1900 LTE)	Pink	Orange	Pink		
700 LTE	Lt. Green	Orange	Lt. Green		
850 LTE	Purple	Orange	Purple		
2100 LTE	Orange	Orange	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Orange	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Orange	Lt. Green	Purple
5G	Brown	Orange	Brown		
LAA	Gray	Orange	Gray		
CBRS	White	Orange	White		

Azimuth (5) Epsilon					
Cell (850 CDMA)	White				
PCS2 (1900 LTE)	Pink	White	Pink		
700 LTE	Lt. Green	White	Lt. Green		
850 LTE	Purple	White	Purple		
2100 LTE	Orange	White	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	White	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	White	Lt. Green	Purple
5G	Brown	White	Brown		
LAA	Gray	White	Gray		
CBRS	White	White	White		

Azimuth (6) Zeta					
Cell (850 CDMA)	Gray				
PCS2 (1900 LTE)	Pink	Gray	Pink		
700 LTE	Lt. Green	Gray	Lt. Green		
850 LTE	Purple	Gray	Purple		
2100 LTE	Orange	Gray	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Gray	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Gray	Lt. Green	Purple
5G	Brown	Gray	Brown		
LAA	Gray	Gray	Gray		
CBRS	White	Gray	White		



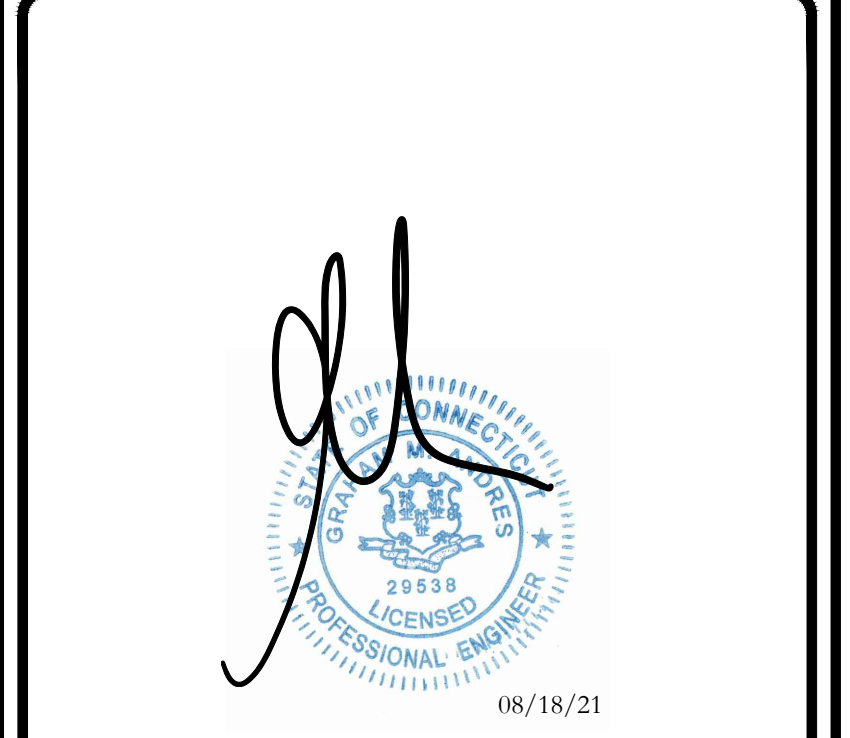
VERIZON SITE NUMBER:
468192

BU #: 842859
BRISTOL CENTER

371 TERRYVILLE AVENUE
BRISTOL, CT 06010

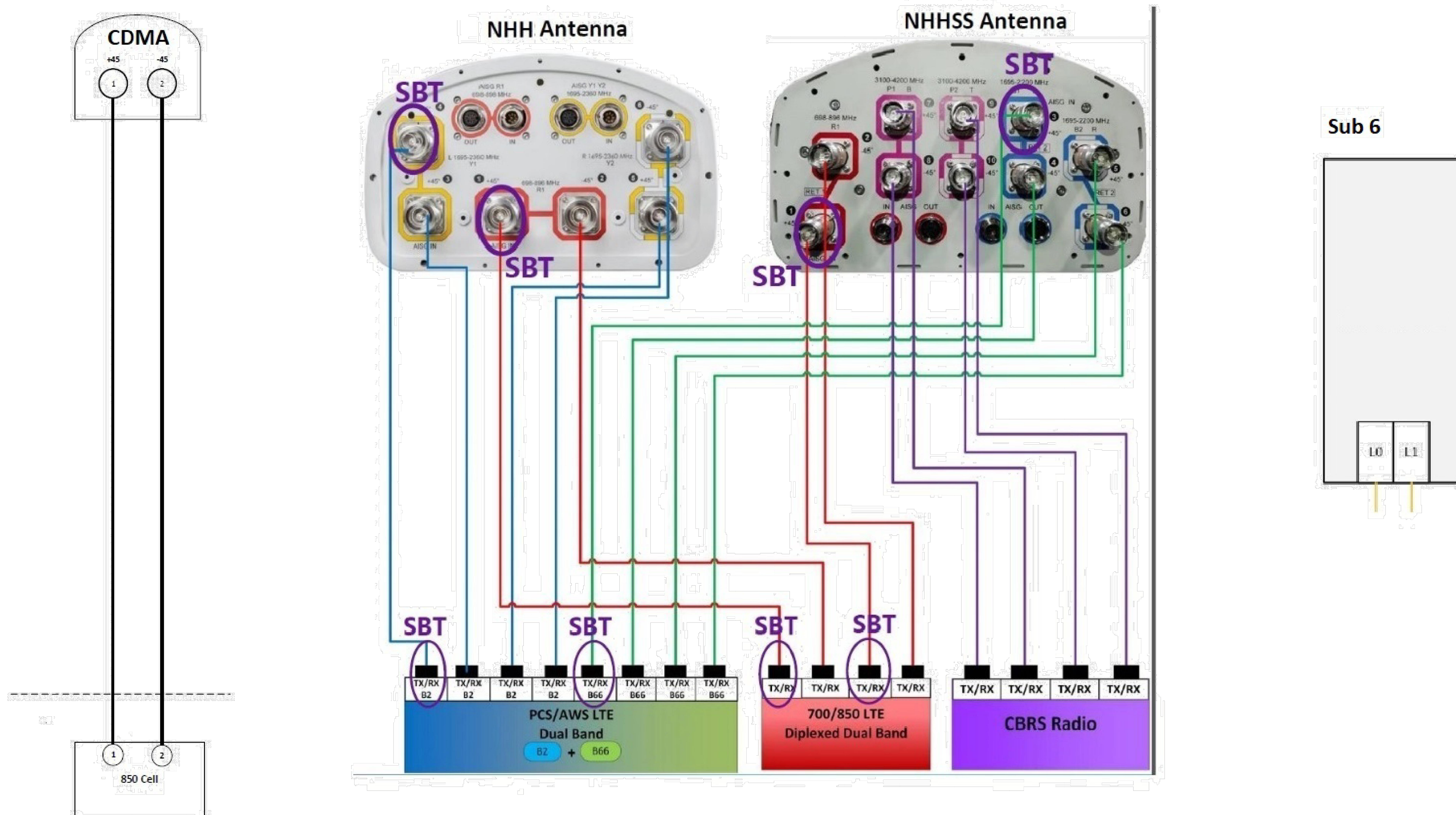
EXISTING 168'-6" MONOPOLE

ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	08/18/21	JCH	CONSTRUCTION	JTC



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

SHEET NUMBER: **C-6** REVISION: **0**



1 PLUMBING DIAGRAM
SCALE: NOT TO SCALE

verizon

20 ALEXANDER DRIVE, 2ND FLOOR
WALLINGFORD, CT 06492

CROWN CASTLE

1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

TOWER ENGINEERING PROFESSIONALS

326 TRYON RD
RALEIGH, NC 27603
(919) 661-6351

TEP JOB #: 217133.586746

VERIZON SITE NUMBER:
468192

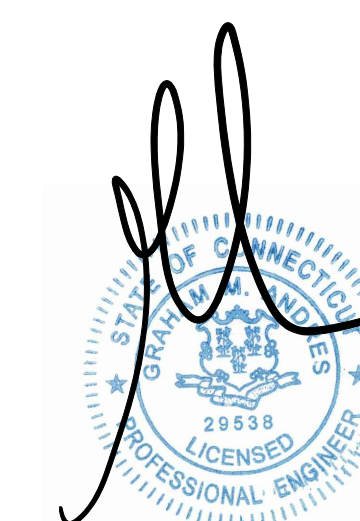
BU #: 842859
BRISTOL CENTER

371 TERRYVILLE AVENUE
BRISTOL, CT 06010

EXISTING 168'-6" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	08/18/21	JCH	CONSTRUCTION	JTC



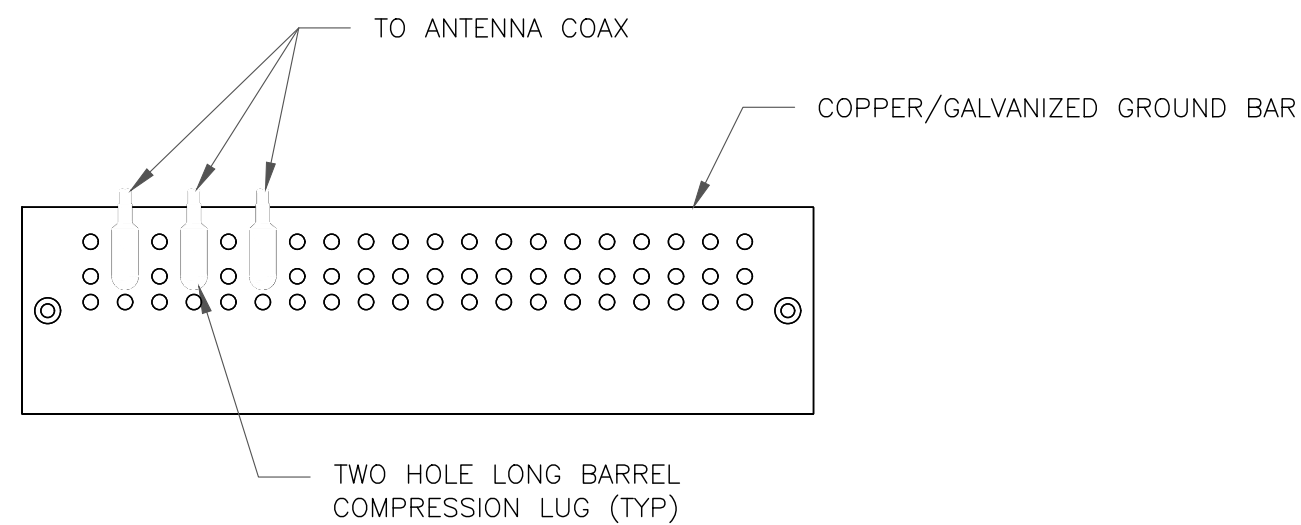
08/18/21

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SHEET NUMBER: REVISION:

C-7

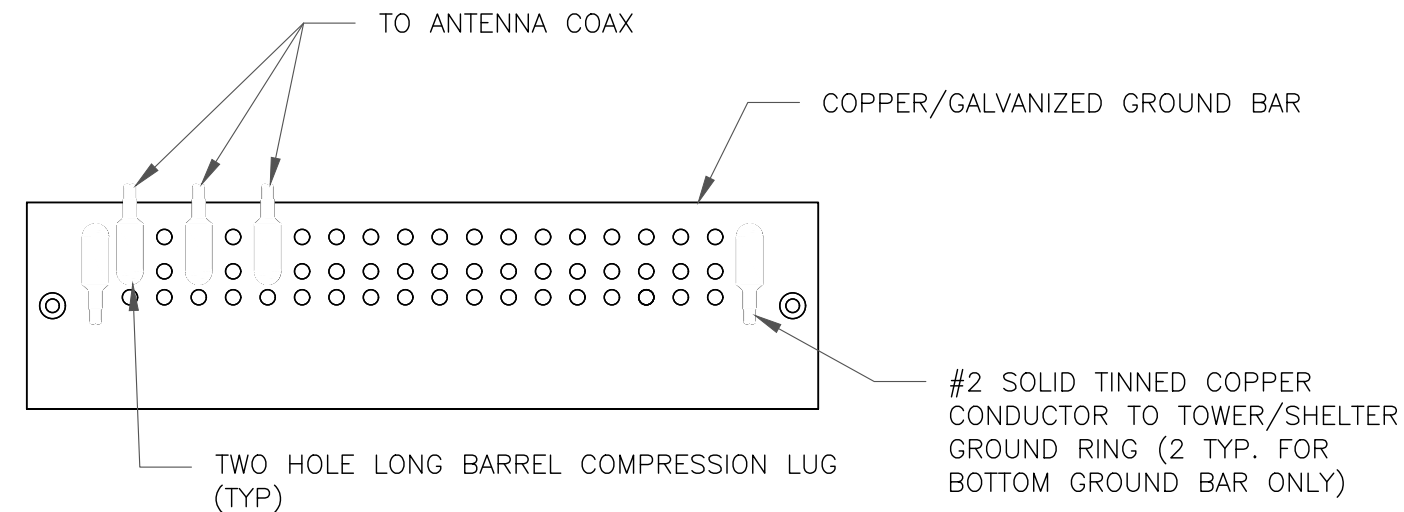
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NOTES:

- DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
- EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
- GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

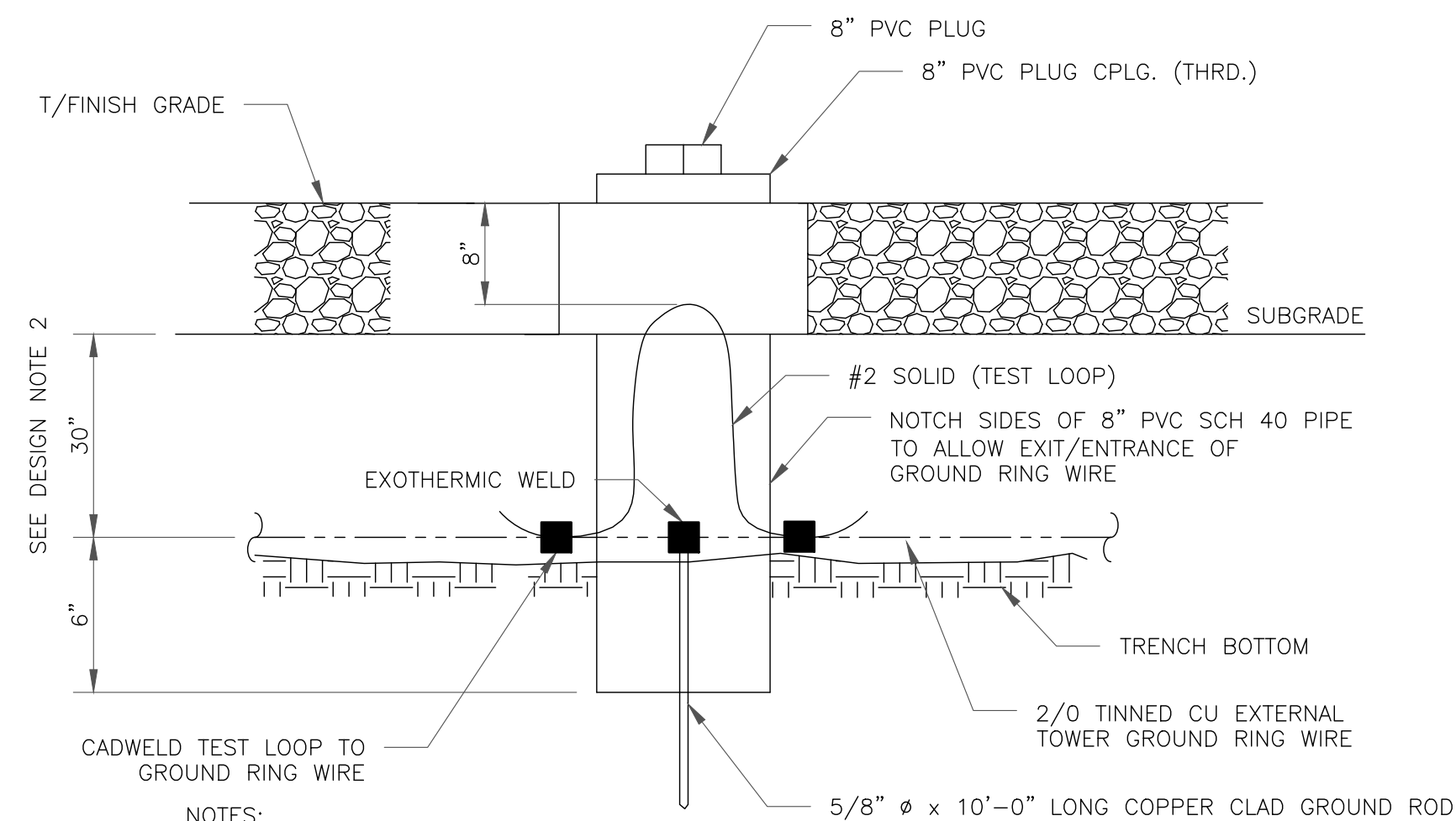
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

- EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
- GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
- GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

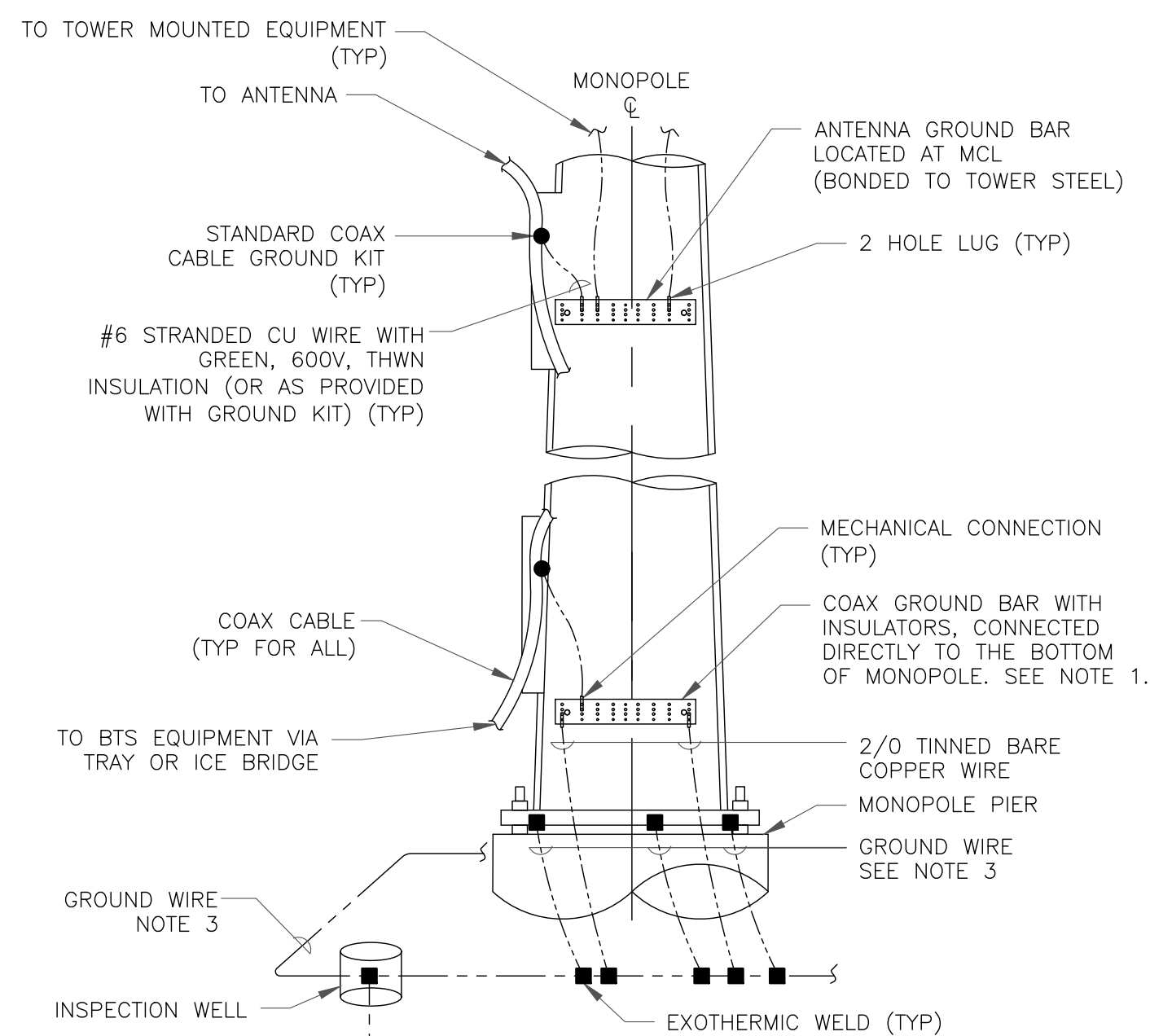
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

- GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL
- GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

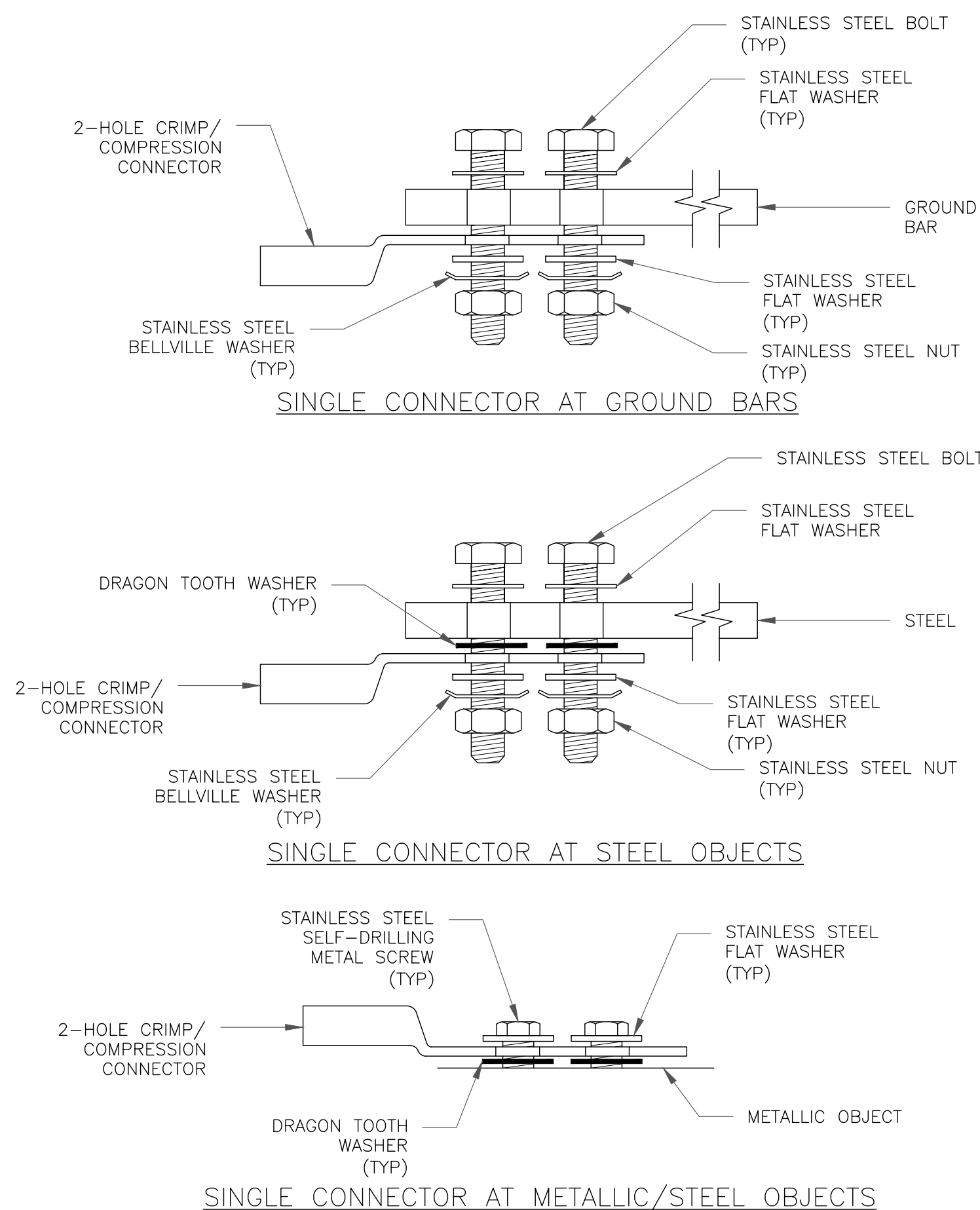
3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE



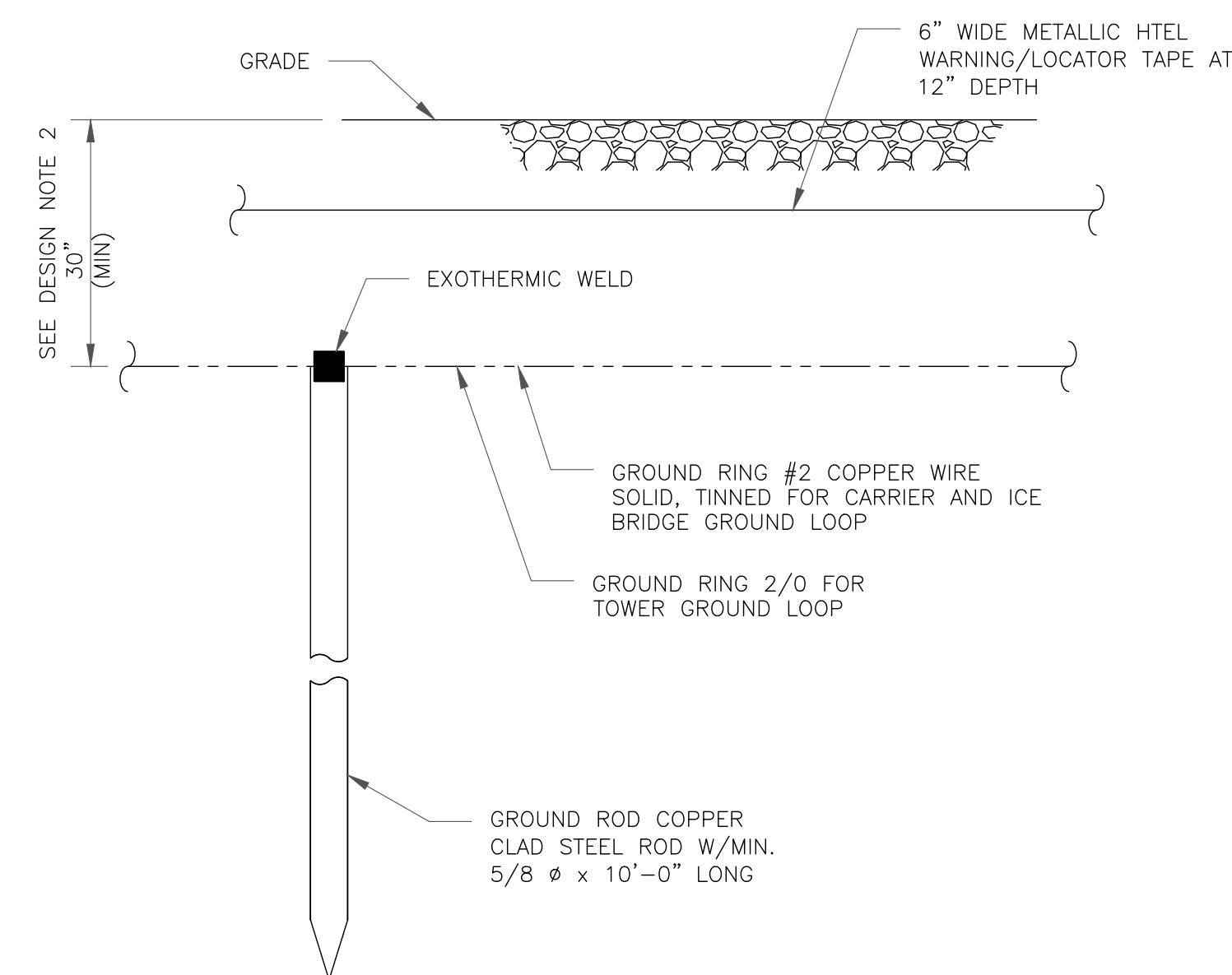
NOTES:

- NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
- ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE USA INC. TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
- ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE RECOGNIZED EDITION OF ANSI/TIA 222 AND NFPA 780.

4 TYPICAL ANTENNA CABLE GROUNDING
SCALE: NOT TO SCALE



5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

- GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL
- GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

6 GROUND ROD DETAIL
SCALE: NOT TO SCALE

verizon

20 ALEXANDER DRIVE, 2ND FLOOR
WALLINGFORD, CT 06492

CROWN CASTLE

1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

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BRISTOL, CT 06010

EXISTING 168'-6" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	08/18/21	JCH	CONSTRUCTION	JTC

08/18/21

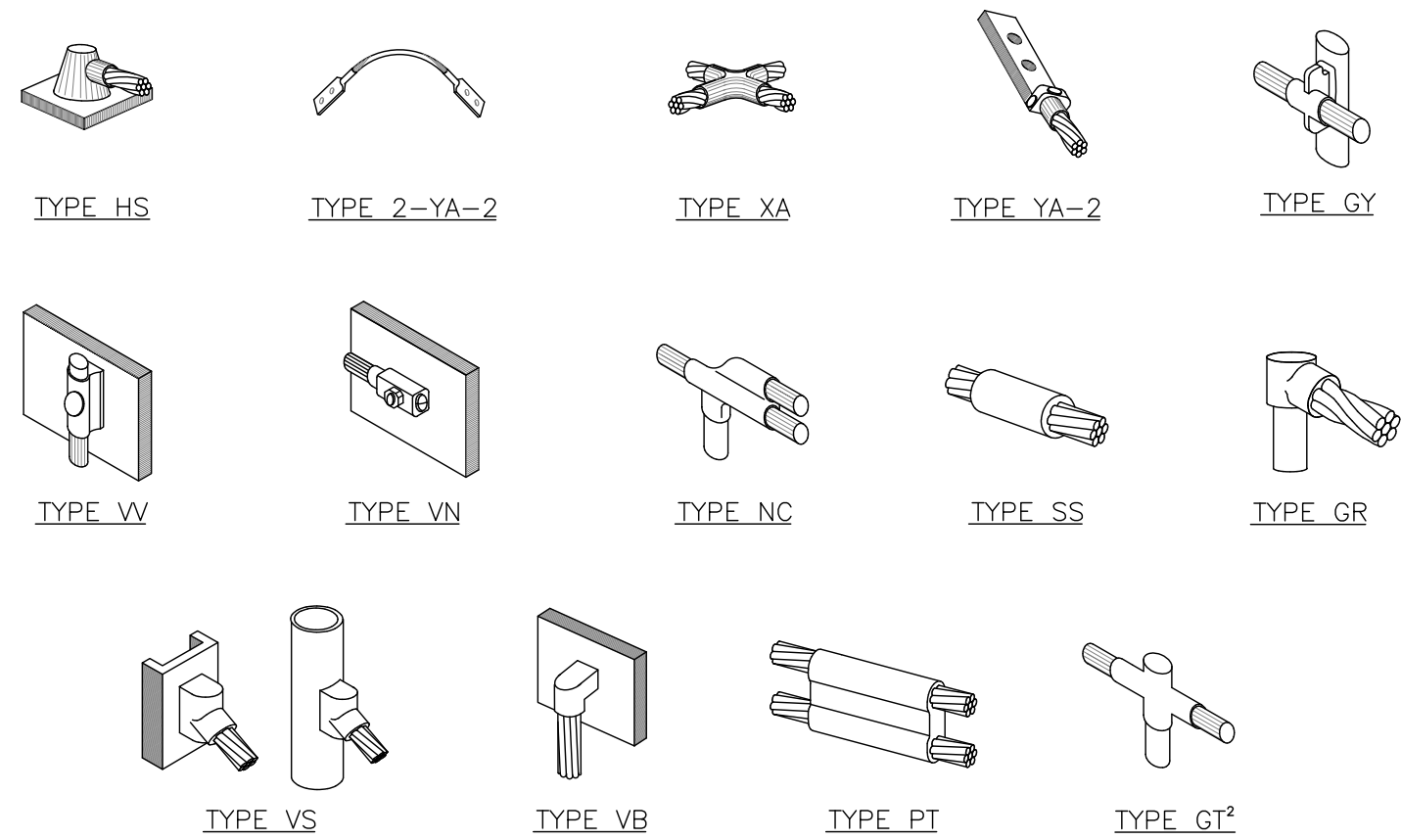
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SHEET NUMBER:

G-1

REVISION:

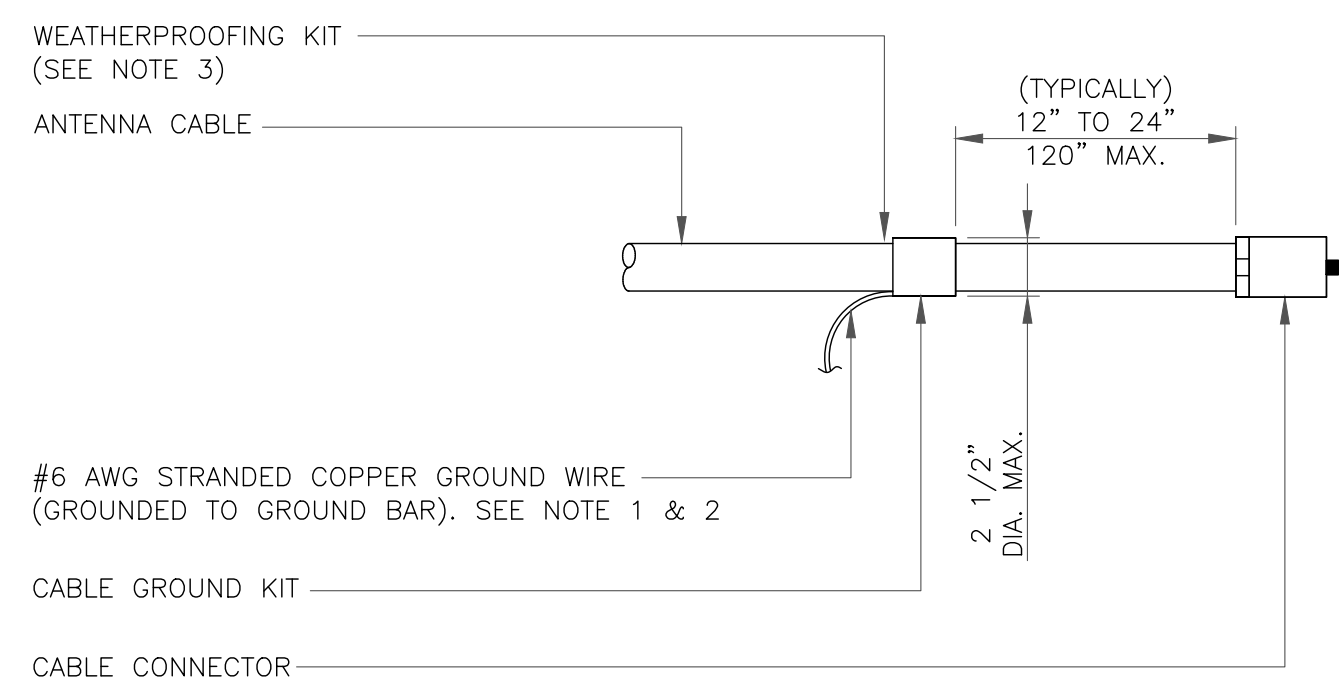
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NOTE:

1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

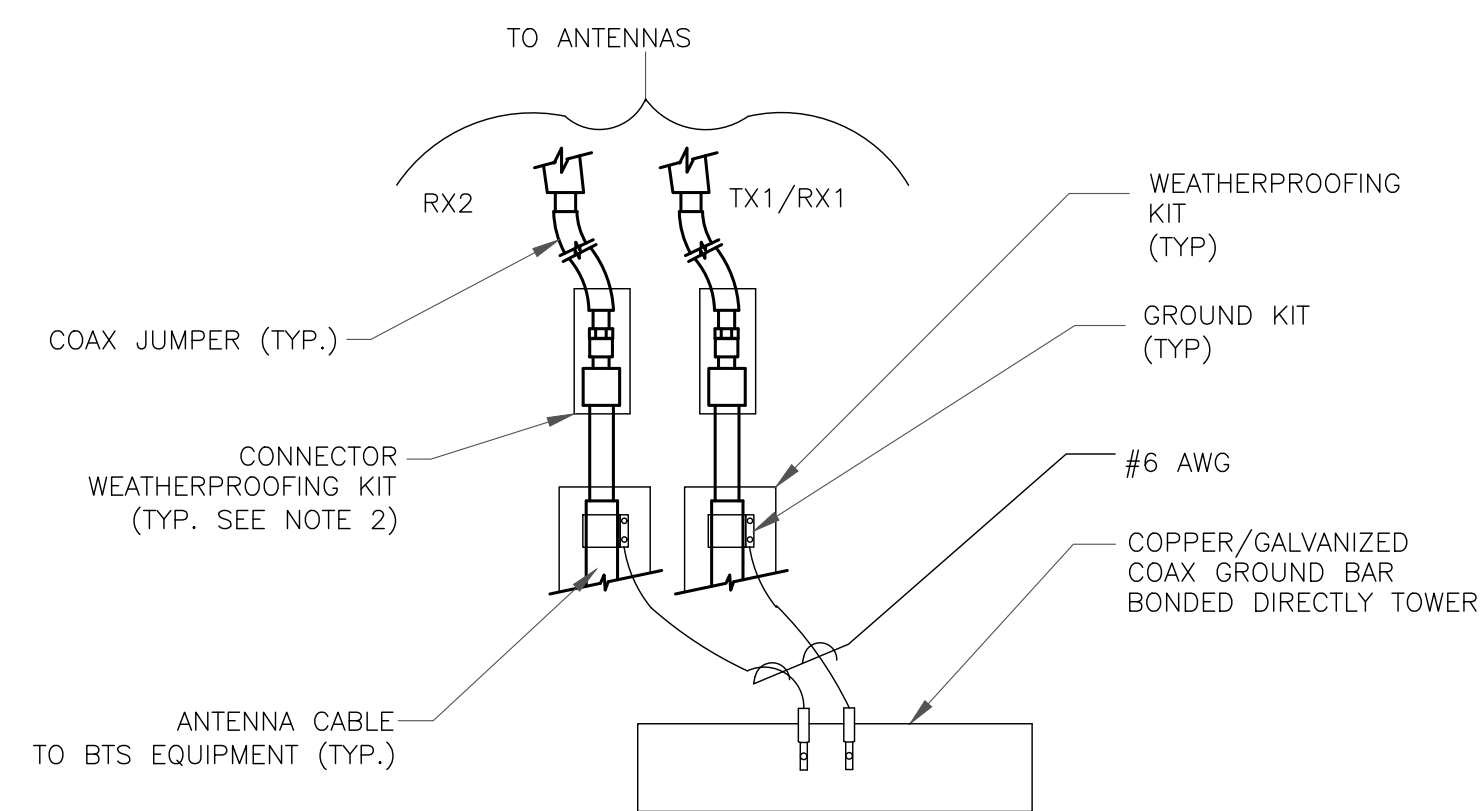
1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

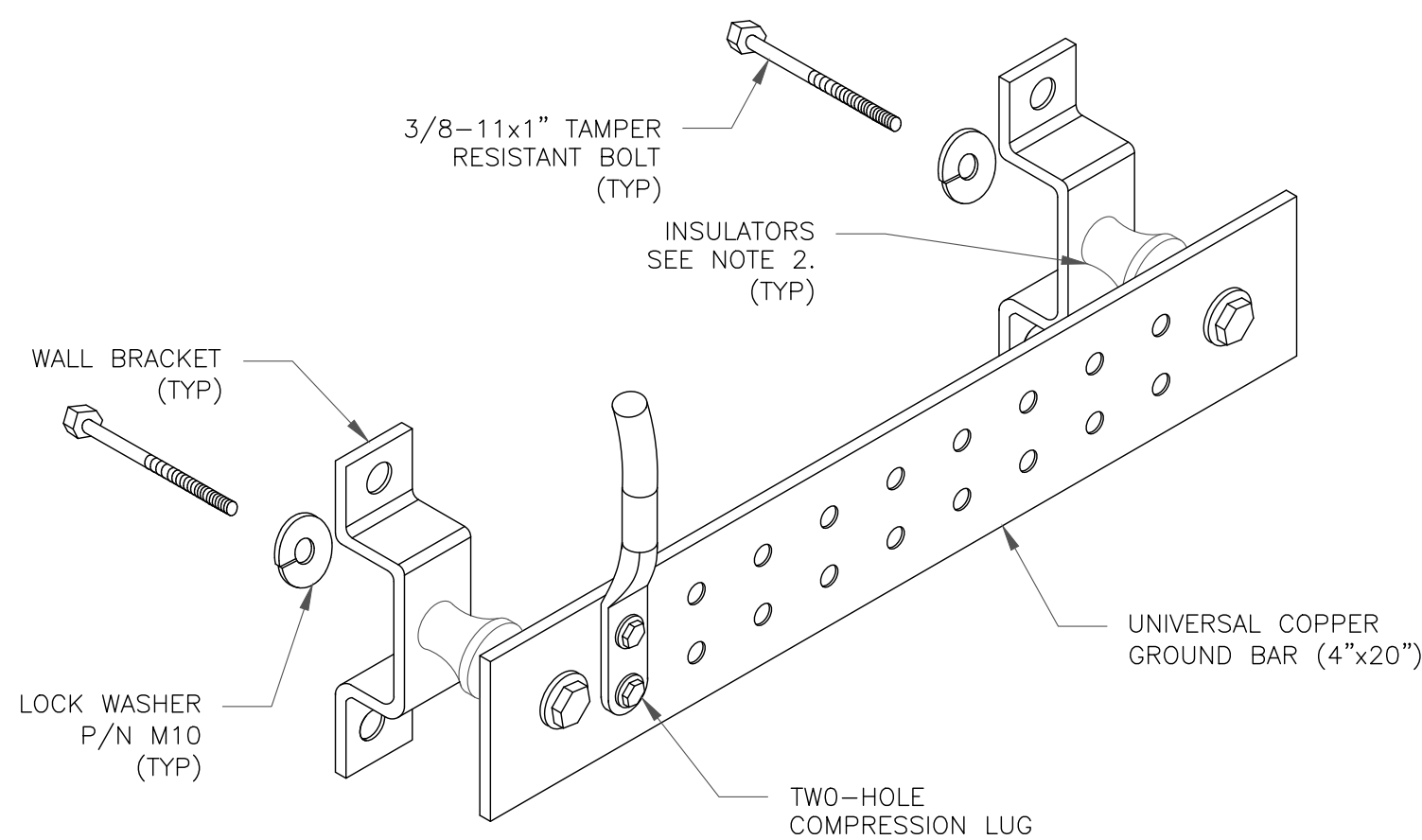
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

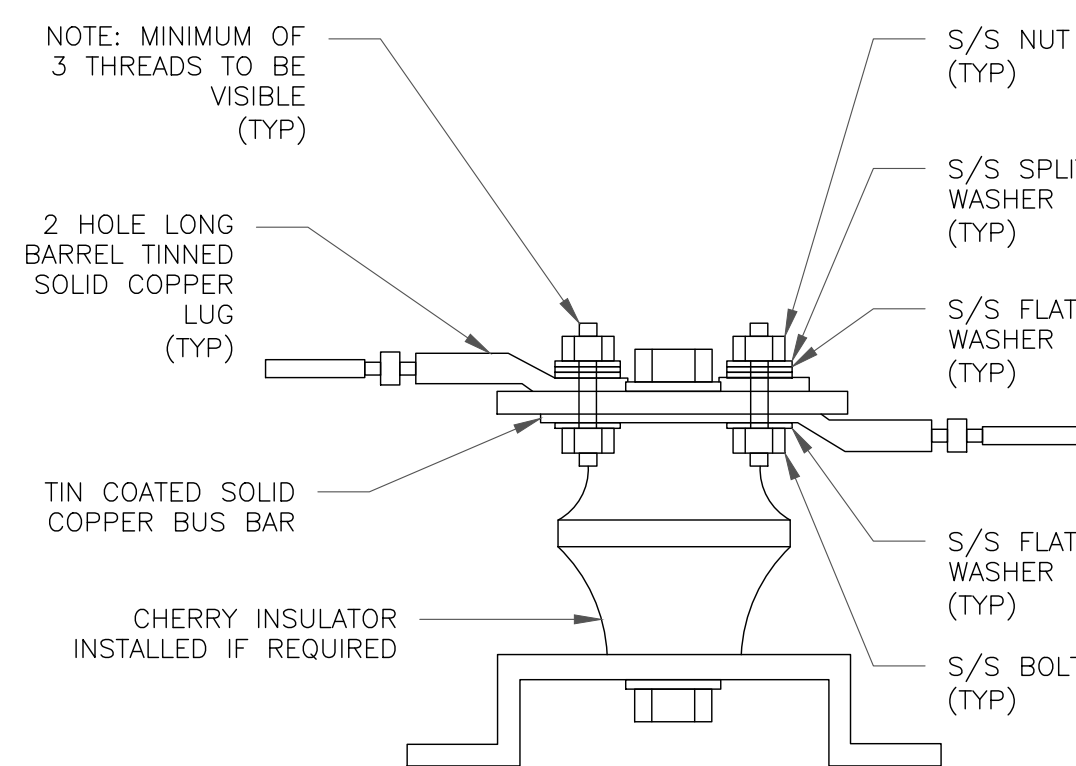
4 GROUND CABLE CONNECTION
SCALE: NOT TO SCALE



NOTES:

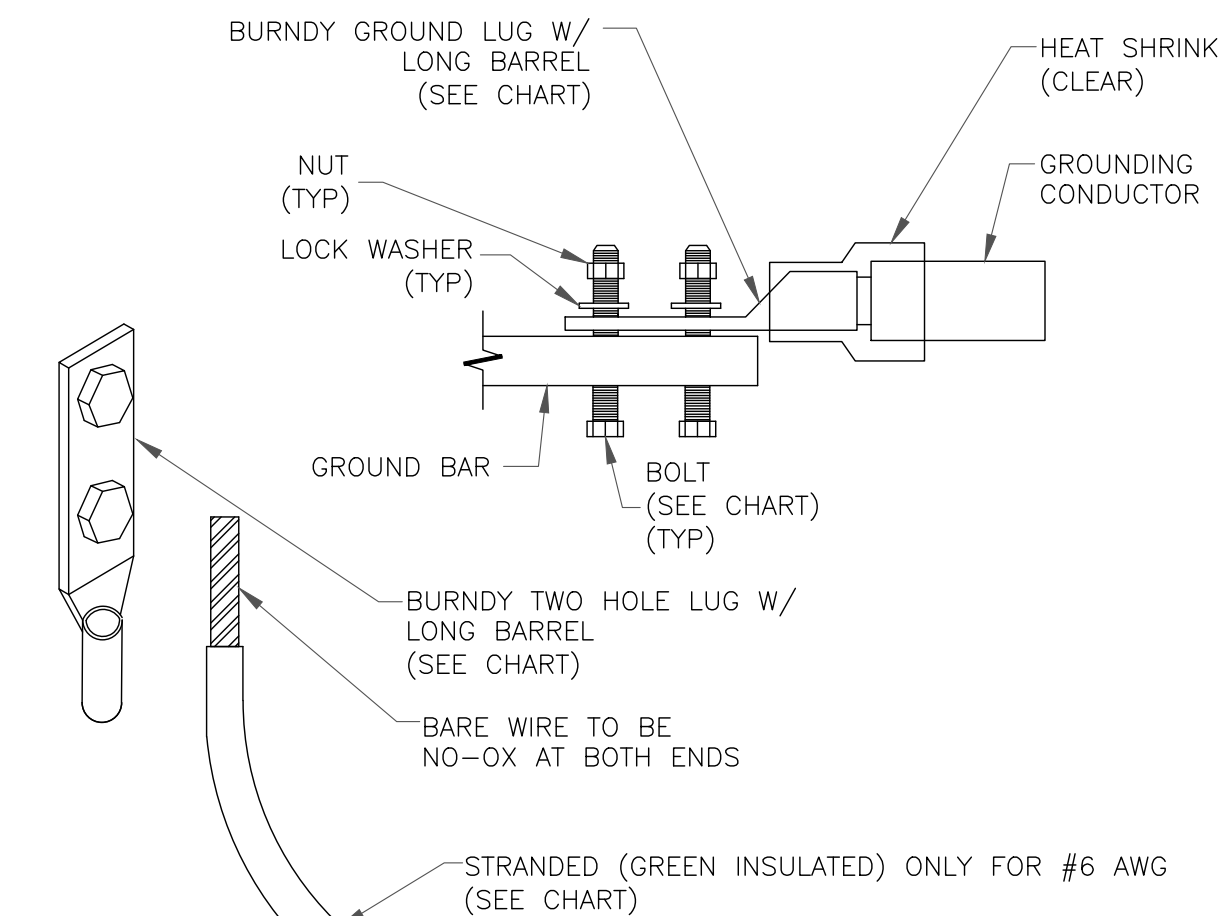
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY GAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION. CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL. USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

6 GROUND BAR DETAIL
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

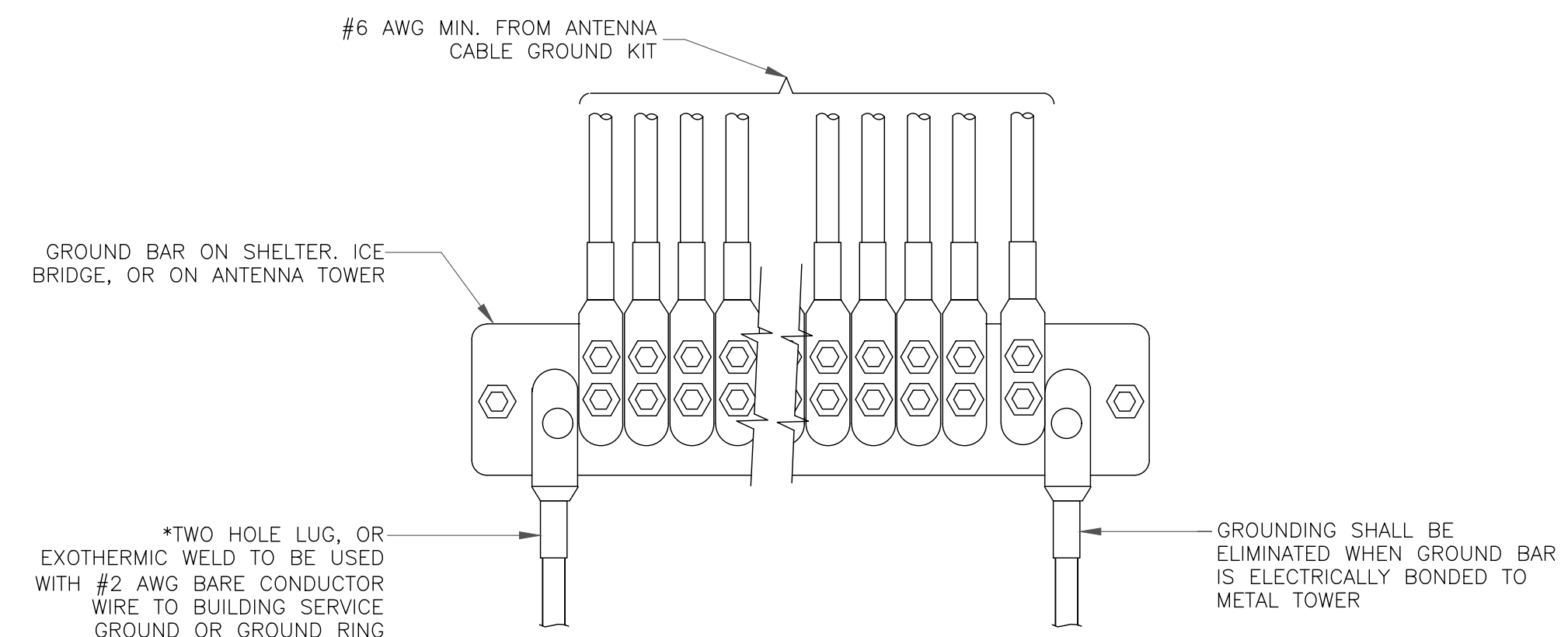
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



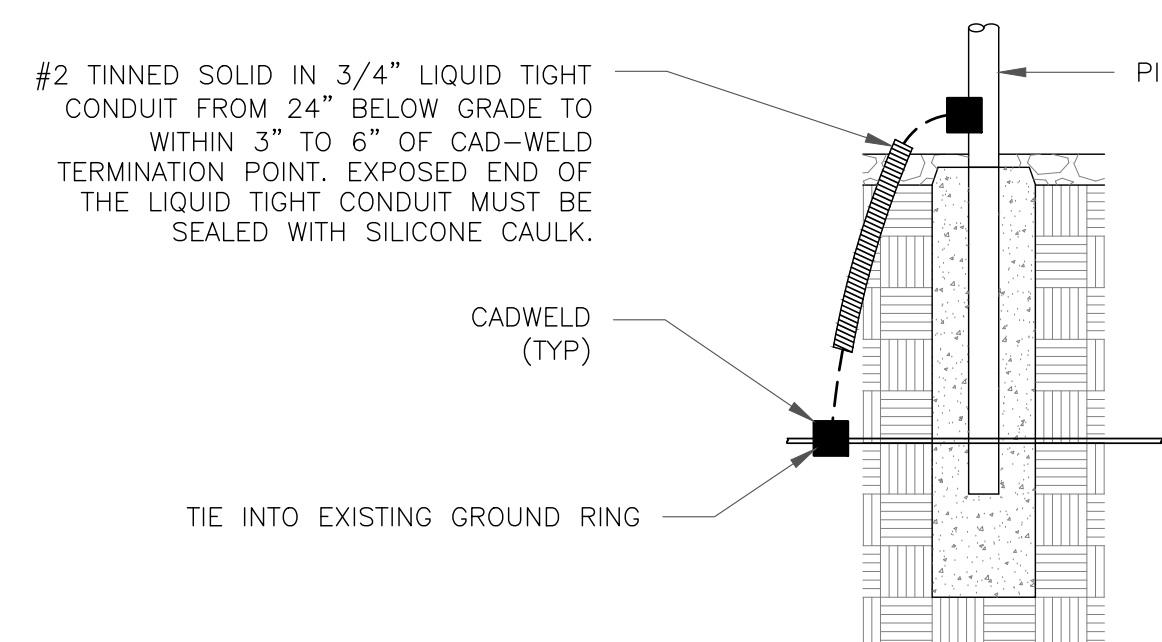
NOTES:

1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

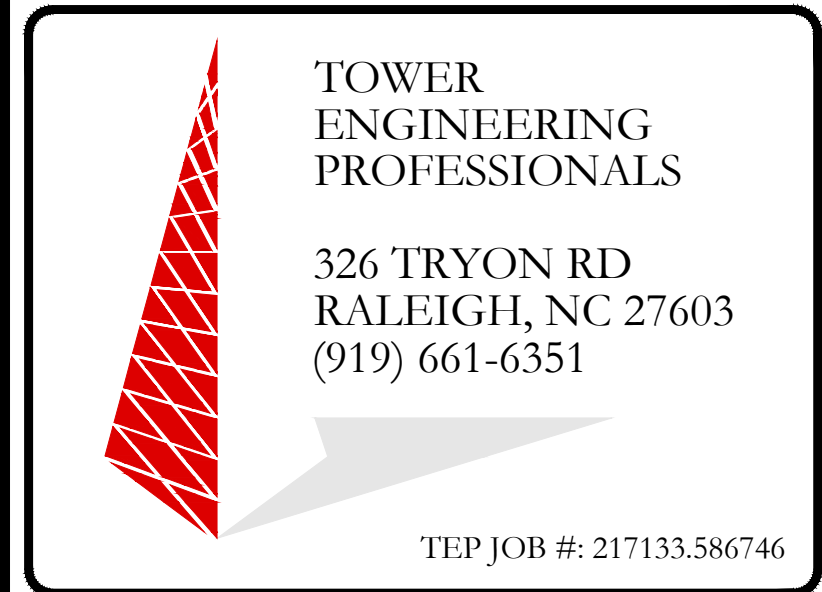
2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE



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BRISTOL CENTER

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SHEET NUMBER: **G-2** REVISION: **0**